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AUTHOR Ragosta, Marjorie  
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ABSTRACT

The study analyzed data on 10,000 students with disabilities who took the Scholastic Aptitude Test (SAT) between 1979 and 1983. It also examined college admissions policies toward such youth in terms of academic performance, minority status, parental income, and other characteristics. Major findings included the following: (1) the SAT performance of handicapped youth is below that for college-bound seniors in general; (2) visually impaired and physically handicapped youth earned SAT scores only slightly lower than those of college-bound seniors in general, but scores of learning-disabled students were significantly lower; (3) physically handicapped students are less likely to participate in arts, music, and dance, and hearing-impaired and learning-disabled youth are less likely to participate in most extracurricular activities; (4) the parental income of college-bound handicapped youth exceeds that of the general population with the highest incomes reported by families of learning-disabled students; (5) handicapped youth who request special SAT accommodations are less likely than the general population to meet the admission criteria; (6) the SAT should be translated into sign language since it is presently inappropriate for the hearing impaired; and (7) differential admission rates are due to differences in student performance in high school and on the SAT and not due to the disability per se. (DB)

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College Admissions Policies and  
Handicapped Youth

Final Report

Marjorie Ragosta  
Educational Testing Service  
Princeton, New Jersey

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**College Admissions Policies and  
Handicapped Youth**

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## CHAPTER 1

### Introduction and Overview

Differential impact of college admissions criteria on handicapped youth was a focus of the federal regulations implementing Section 504 of the Rehabilitation Act of 1973. The regulations state that in admitting students to postsecondary education, institutions may not make use of any test or criterion for admission that has a "disproportionate adverse effect" on handicapped persons, unless the test or criterion has been validated as a predictor of success or unless alternate tests are not shown to be available. Educational Testing Service, the College Board, and the Graduate Record Examinations Board have recently completed a four-year investigation of the ability testing of handicapped students. The project responded to the federal regulations and to the report of the panel on testing of handicapped people (Sherman & Robinson, 1982), and included studies of the predictive validity and the underlying psychometric characteristics of the Scholastic Aptitude Test (SAT) and the Graduate Record Examination (GRE) for specific groups of handicapped people (Willingham et al., 1987).

The data base used for the ETS studies was used to develop the information in the report. The current study will describe the impact of admissions policies on four groups of handicapped youth—including those with hearing impairments, learning disabilities, physical handicaps, or visual impairments—and will describe those youths in terms of academic performance, minority status, parental income, and other characteristics.

### The Impact of Admissions Policies

With the recent emphasis on excellence in education, the governing agencies for a number of postsecondary educational institutions have increased requirements for admission to state college and universities. According to Thomson (1982), thirteen state institutions have plans to introduce higher standards or have already done so. Although most of the new standards emphasize increased course requirements, some require higher minimums for admissions tests, high school grade-point averages, or class rank. At the time of the original survey, Thomson reported that an additional fifteen states had freshman admissions under study.

The Connecticut Board of Governors for Higher Education (1983) identified 25 states where changes in admissions standards had recently occurred. The Connecticut report confirms that changes most often involved increasing the number of required academic courses—primarily in mathematics, sciences, and social science—but increases in minimum acceptable high school grade-point averages, class ranks, and test scores were also reported.

A major concern in instituting more rigorous admissions standards has been the effect such policies might have on certain categories of student (Brizius & Cooper, 1984). These categories include students who may not have taken the necessary courses in high school, older students, disadvantaged students, transfer students from community colleges, minority students, and handicapped students. In recognition of these problems of impact, new admissions standards have often been accompanied by other policies to diminish the impact on various subgroups. Some state institutions simply exempt certain groups from minimum requirements. Others allow for some limited percentage of exemptions for specified categories of student.

Another compensating mechanism has been to offer special remedial programs for students who cannot meet admissions standards, but there is a growing consensus that a smaller proportion of funds for four-year colleges should be used for remediation (Southern Regional Education Board, 1983; Western Interstate Commission for Higher Education, 1982). Moreover, there is a growing sense that colleges should not be offering high school level coursework. Compensating policies may not be succeeding. Minority enrollments, for example, have declined in the 1980s despite an increase in the 1970s (American Council on Education, 1984; Manning, 1984; McNest, 1983). While it is not clear that high admissions standards are the reason for declining minority enrollments, many believe that to be the case.

Breland (1985) conducted an investigation of what impact various types of admissions policies might have on these groups of students: Blacks, Hispanics, and Whites. Results obtained when five admissions models were applied to the data from the College Board's public-use tapes indicated that all five models had differential impact for the three groups examined. Breland's admissions models have been used in this study to examine the differential impact of college admissions policies on handicapped youth.

The baseline data with which data from handicapped students will be compared is that from Breland's (1985) study. A sample of more than 96,000 college-bound seniors who took the SAT in 1983 were used in that study, including more than 2,600 Hispanics and 7,700 Blacks. Breland's data are included as Appendix B.

Breland examined reports describing the college admissions policies of states and institutions and identified five distinct admissions models based on the use of high school GPAs, high school ranks, or admissions test scores. The models included:

1. The use of a minimum score on a single index of ability (GPA, rank, or combined test score).
2. The use of minimum scores on both a high school index (rank or GPA) and a combined test score.
3. The use of minimum scores on either a high school index (rank or GPA) or a combined test score.
4. The use of a sliding scale in which all applicants are eligible above a certain level of high school GPA or rank, but where lower high school indices require increasingly higher test scores.
5. The use of a regression equation based on the past performance of students in specific institutions to predict the freshman college performance of applicants. Applicants who exceed a certain level of predicted performance are eligible for admission.

These models have been used in the current study to examine differential impact of admissions policies on handicapped youth.

#### Descriptions of Handicapped Youth

Over the four-year period from the school year 1979-80 to 1982-83 almost 15,000 handicapped youth took special administrations of the Scholastic Aptitude Test (SAT) for college admissions. Special test administrations are available to disabled students whose handicaps preclude their being tested in a standard testing situation. In the special administrations disabled students may use braille, cassette, large-type, or regular-type versions of the SAT, usually in a separate room with extra time allowed for taking the test. Additional accommodations may include a reader, an amanuensis, an interpreter, additional rest periods, the use of special equipment or whatever other conditions the test administrator, the test-taker, and ETS agree are



relevant for the specific situation. Special test administrations are available to all handicapped people whose handicapping condition would put them at a disadvantage in the standard test administration.

In this report we will describe as fully as possible those college-bound disabled youth who requested special administrations of the SAT from the fall of 1979 to the spring of 1983. On the application form for the special test administration, students identified themselves as belonging in one or more of four disability categories: visual, hearing, learning, or physical. The test administrator also categorized the applicant and countersigned the document. By matching the data from these documents with data on SAT scores and the Student Descriptive Questionnaires we were able to describe disabled youth within the four disability categories. Descriptors include:

- o SAT-Verbal scores
- o SAT-Mathematical scores
- o High school grade-point averages (self-reported)
- o High school rank (self-reported)
- o Number of years of study of English, mathematics and other subjects
- o Ethnic background
- o Annual parental income (by ethnic group)
- o Intended field of study (first choice)
- o Past participation in extracurricular activities such as community and church groups, athletics, high school clubs and organizations
- o High school honors and awards
- o Planned participation in college activities such as athletics, organizations, etc.
- o Self-reported skills and abilities

Data from handicapped students can be compared with analogous data from the general population of college-bound seniors (The College Board, 1984). These data are included as Appendix A. Differences between handicapped and nonhandicapped students and differences among the groups of handicapped students will provide insight into the interpretation of the policy data as well as information on the educational backgrounds of handicapped students.

#### Questions to be Addressed

- o Are handicapped youth who request and receive special testing accommodations of the SAT as well prepared academically as college-bound seniors in general? Do they report equivalent years of study in subjects such as English, Mathematics, Foreign Language, Biological Sciences, Physical Sciences, and Social Sciences? Do they report similar distributions of class rank or grade-point averages?
- o Do college-bound handicapped youth show equivalent patterns of participation in community and church groups, athletics, or high school clubs and organizations?
- o Do college-bound handicapped youth show the same ethnic distribution as college-bound seniors in the general population? Are there proportionately fewer minority handicapped youth seeking college admission?
- o How does the parental income of college-bound handicapped youth compare to the parental income of the general college-bound population? Is college more often an option for the handicapped youth from relatively affluent families?
- o Do admissions policies currently in use for postsecondary education have a differential impact on handicapped youth? Does the

- differential impact have its greatest effect on visually impaired, hearing-impaired, learning disabled, or physically handicapped youth?
- o How do the many admissions models differ in their impact on handicapped youth? Are there some models which reduce the degree or differential impact? How can differential impact be minimized?

### Overview of the Final Report

In the rest of this final report we will present the information we have introduced. In Chapters 2 to 5 we will look at the descriptions of handicapped youth and the impact of admissions policies on each of four groups separately:

|                                     |           |
|-------------------------------------|-----------|
| Students with Hearing Impairments   | Chapter 2 |
| Students with Learning Disabilities | Chapter 3 |
| Students with Physical Disabilities | Chapter 4 |
| Students with Visual Impairments    | Chapter 5 |

In Chapter 6 we will present the data in a format that permits comparison of the four groups of disabled students with the general population of college candidates, and in Chapter 7 we will specifically address the questions listed in the previous section.

## CHAPTER 2

### Students with Hearing Impairments

In Chapter 2 we will first describe those hearing-impaired students who took special administrations of the SAT from 1980 to 1983 and who responded to the Student Descriptive Questionnaire. We will compare the findings on disabled students to those on college-bound seniors reported in Appendix A. Later in the chapter we will describe the college admission rates of these hearing-impaired students using several different models of college admissions policies. We will compare the admission rates of the disabled students to the rates of college-bound seniors reported in Appendix B.

Over the 1980-83 school years, only 357 males and 395 females identified themselves as having a hearing impairment and took special administrations of the SAT including extra time and/or the use of an interpreter for instructions. These 752 students form the data base from which the information in this report is drawn.

Not all hearing-impaired students answered all of the questions in the Student Descriptive Questionnaire accompanying the SAT application; therefore, some of the following information is based on even fewer students. Despite the relatively small numbers, the data give us our first opportunity to learn more about hearing-impaired students trying to gain access to college.

#### Student Descriptive Information

In the following sections we will discuss the SAT performance, high school background, ethnicity, parental income, college plans, extracurricular activities, and the reported skills and abilities of hearing-impaired students who took special administrations of the SAT.

Performance on the SAT

Table 2-1 presents the mean Verbal and Mathematical scores from special administrations of the SAT for hearing-impaired students.

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Insert Table 2-1 about here

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Several points are worth noting. Between one-half and two-thirds of the verbal scores of both males and females were clustered in the lowest category of scores: 200 to 299. In the general population of college-bound seniors (see Appendix A), only about 12 percent of students scored in that category. There were no hearing-impaired individuals who earned SAT-Verbal scores in the top category. Hearing-impaired students consistently earned the lowest SAT-Verbal scores of college-bound students in general and students with other disabilities. Except for 1981 when some mean SAT-Verbal scores reached the low 300s, the mean verbal scores of hearing-impaired students were in the 280s or 290s.

The mean SAT-mathematical scores, however, ranged from a low of 363 in 1983 to a high of 400 in 1981. There was a broader distribution of SAT-M scores with about 40 percent of the scores falling in the 300 to 399 category. In addition, there were some hearing-impaired students who earned SAT-Mathematical scores in the highest category—700 to 800. Although the mean SAT-M scores of hearing-impaired students were the lowest of all groups studied, the SAT-M scores were considerably higher than the SAT-V scores.

The Verbal subscores of Reading Comprehension and Vocabulary are presented in Table 2-2, and the scores on the Test of Standard Written English (TSWE) are in Table 2-3.

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Insert Tables 2-2 and 2-3 about here

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Close to 50 percent of all hearing-impaired test takers earned Reading Comprehension, Vocabulary, and TSWE scores in the lowest category.

The low verbal scores reported here should come as no surprise to those who are knowledgeable about the English-language development of hearing-impaired children. Poor English language development is the outstanding characteristic of hearing-impaired children. There is considerable agreement that the greater the hearing loss, the greater the communication problem, both in reception and production of the English language (Meadow, 1980; Quigley, 1979; Stark, 1979). Without hearing and imitating the sounds of human speech, deaf children are slow to acquire verbal skills.

About one-third of the hearing-impaired students who took special administrations of the SAT in 1983—107 students—responded to a survey questionnaire and indicated whether they were most fluent in English, most fluent in a manual language, or equally fluent in both (Ragosta and Kaplan, 1986). The mean SAT-V score of the 45 students reporting fluency in English was 323, with a standard deviation of 108. The 23 students fluent in a manual language had a mean SAT-V of 236, with a standard deviation of 46. The 39 students with equal fluency had a mean SAT-V score and a standard deviation

between the two extremes: a mean of 289 and a standard deviation of 78. Clearly there is an association between the severity of the disability and performance on the verbal section of the SAT. A similar but less pronounced effect is found for SAT-Mathematical scores.

Additional insight may be gained by looking at the SAT scores of hearing-impaired students involved in a validity study of the SAT for students with disabilities (Braun, Ragosta, and Kaplan, 1986). Of the 105 hearing-impaired students for whom we obtained college grades—a subset of the students in the current report—about half were going to a two-year technical institute for deaf students, about one-quarter were attending a center on deafness within a state university system, and the remaining students were distributed individually across many institutions. The mean SAT-Verbal scores of students in the institute and the center for deaf students were 299 and 282, compared to a mean of 360 for mainstreamed hearing-impaired students. Analogous SAT-Mathematical means were 398 and 414 for students in the institute and the center and 477 for students widely distributed across educational institutions. Those hearing-impaired students with relatively strong verbal skills tended to distribute themselves across many educational institutions, while those whose verbal skills were relatively weak tended to cluster at institutions with special services for deaf students.

To summarize the test performance of hearing-impaired students, Table 2-4 presents the SAT means over the four years of the study and compares those means with the mean scores of those students who responded to the Student Descriptive Questionnaire. About three-quarters of hearing-impaired students completed the SDQ, and the respondents earned SAT scores only marginally higher than the total group.

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Insert Table 2-4 about here

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Over all four years of the study, the mean SAT-Verbal score for hearing-impaired students was 291 with a standard deviation of 90, while for all college-bound students the mean was 425 with a standard deviation of 110. The mean verbal score for hearing-impaired students was almost one and one-quarter standard deviations below the norm for college-bound seniors.

The analogous SAT-Mathematical means were 375 for hearing-impaired students (with a standard deviation of 109), compared to 467 for college-bound students (with a standard deviation of 117). The SAT-Mathematical mean for hearing-impaired students was more than three-quarters of a standard deviation below the norm for college-bound seniors.

### High School Background

In this section of the report we will cover type of high school, high school grades, the number of years of study in 6 curriculum areas, self-reported class rank and estimated high school grade-point average (HSGPA).

Type of high school. Over the four years of the study, about 30 percent of students with hearing impairments came from private schools and 70 percent from public schools (see Table 2-5). More than 80 percent of college-bound seniors come from public schools (see Appendix A). A smaller percentage of hearing-impaired students attended public schools.

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Insert Table 2-5 about here

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Grades. Table 2-6 presents the latest reported high school grades from 1980-1983 for hearing-impaired students in six academic areas: English, mathematics, foreign language, biological sciences, physical sciences and social studies. On a four-point scale where D equals a one and A equals a 4, hearing-impaired students averaged between B and B- in all subject areas each year. Compared to college-bound seniors (see Appendix A), they earned slightly lower average grades with smaller percentages of hearing-impaired students earning A's in any subject area. In English, for example, about 33 percent of college-bound seniors consistently report getting an A, while A's for hearing-impaired students range from a low of 11 percent in 1982 to a high of 30 percent in 1980. Mean grades for college-bound seniors are 3.11 or 3.12 while for hearing-impaired students they ranged from 2.76 in 1982 to 2.95 in 1980.

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Insert Table 2-6 about here

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Years of study. Table 2-7 presents the number of years of study in each of the six curriculum areas by students with hearing-impairments. They report on the average four years of English, three and a half of mathematics, less than a year of foreign language, more than a year of biological sciences, more than a year and a half of physical sciences, and more than three years of social studies. These average years of study are very close to the means for college-bound seniors, except in the area of foreign language. Between 54 and 60 percent of hearing-impaired individuals indicate they have had no

coursework in a foreign language, while only 13-14 percent of college-bound seniors report none.

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Insert Table 2-7 about here

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Class rank. The self-reported class rank of hearing-impaired students during the four years of this study are presented in Table 2-8 together with the SAT scores associated with those ranks. About 90 percent of students ranked themselves in the third fifth or above. Compared to college-bound seniors, hearing-impaired students less often reported themselves being in the top fifth of their classes and more often reported being in the third or fourth fifth.

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Insert Table 2-8 about here

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In general, the SAT scores of hearing-impaired students in the top ranks were higher than the SAT scores associated with the lower ranks. In comparison to college-bound seniors, hearing-impaired students had much lower SAT scores at each ranking. For example, although college-bound seniors in the top tenth had SAT scores in the 500s, hearing-impaired students in the top tenth had SAT-Verbal scores in the 300s and SAT-Mathematical scores in the 400s.

Estimated HSGPA. The estimated high school grade-point averages of students with hearing impairments are presented in Table 2-9. The mean HSGPA for the total group ranges from a low of 2.78 in 1981 to a high of 2.91 in 1980. Compared to college-bound seniors, hearing-impaired students were estimated to have lower averages. Whereas hearing-impaired students had mean HSGPAs in the B to B- range, college-bound seniors had HSGPAs marginally above a B. Over the four years, the HSGPAs of students with auditory disabilities were about one-third of a standard deviation lower than the college-bound seniors. Fewer hearing-impaired students were estimated to have high school grade-point averages in the grade range from 3.5 to 4.0.

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Insert Table 2-9 about here

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### Ethnicity

The ethnic background of students with hearing disabilities is presented in Table 2-10. About 90 percent of the students are White, about 5 percent Black, and the remaining 5 percent are distributed among categories including American Indian, Mexican American, Oriental, Puerto Rican, and others. The 10 percent of hearing-impaired minorities is lower than the 18 percent of minorities in the population of college-bound seniors.

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Insert Table 2-10 about here

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Parental Income

The median parental income of students with hearing impairments is presented in Table 2-11 for all students, for Black students, and for White students. Median income increased each year over the four years of the study for all groups—except that the income for Black students decreased from 1980 to 1981. Median income for Black students was about half that of White students. For three of the four years the median income for all hearing-impaired students—and the subset of Black students—was slightly higher than the median income for all college-bound seniors (see Apperdix A). Across the 4 years, the percentage of students with family incomes below \$12,000 decreased from 25 percent to 14 percent, and those with incomes above \$30,000 increased from 31 percent to almost 50 percent.

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Insert Table 2-11 about here

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The mean parental income associated with the SAT scores of hearing-impaired students is presented in Table 2-12. For all college-bound seniors (Appendix A) there is a direct relationship between SAT averages and mean income—the higher the average the higher the income. That relationship is not as clear for hearing-impaired students, perhaps in part because of the small numbers of students in the top of the distribution.

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Insert Table 2-12 about here

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### College Plans

In this section we will discuss students' degree goals, plans to ask for special assistance, intended fields of study, plans to apply for advanced placement, and housing preferences.

Degree goals. The degree goals of students who have auditory disabilities are presented in Table 2-13. Almost 10 percent of students—fewer in 1981 and 1982; more in 1980 and 1983—aimed toward a two-year program, while almost one-third had goals involving graduate study. The majority of these hearing-impaired students were planning on getting a bachelor's or master's degree. Compared to college-bound seniors over the same period, hearing-impaired students more often selected two-year programs and less often aimed toward an MD, Ph.D., or other professional degree.

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Insert Table 2-13 about here

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Special assistance. Plans by hearing-impaired students to ask colleges for special assistance are presented in Table 2-14 by specific areas of need. About 85 percent of hearing-impaired students planned on seeking aid. The four areas where about one-third or more students planned to seek help were educational counseling, vocational counseling, writing skills, and reading skills. The top four areas in which college-bound students planned to seek assistance were in the areas of part-time work, educational counseling, vocational counseling, and study skills (see Appendix A). Although a smaller percentage of hearing-impaired students planned to seek assistance for

part-time employment, a larger percentage planned to seek assistance for all other areas of need, especially for writing skills and reading skills.

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Insert Table 2-14 about here

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Intended fields of study. A summary of the first choice of hearing-impaired students' intended field of study is presented in Table 2-15, together with the mean SAT scores associated with the choice. The most popular fields for males were business & commerce (16%), computer science (almost 15%), and engineering (almost 12%). Among females more than 20 percent selected education, about 19 percent chose health & medical, about 17 percent indicated computer science, and almost 13 percent selected business & commerce. Over the four-year period of this study, no hearing-impaired students indicated their (first choice) intention to study military science, library science, geography, foreign languages or ethnic studies.

For the four most popular fields with the total group--computer science (16%), business & commerce (15%), education (13%), and health & medical (11%)--two were more popular with college-bound seniors and two were less popular. Larger percentages of college-bound seniors selected business & commerce (19%) and health & medical (15%), but smaller percentages chose computer science (7%) and education (5%). In these four fields, competition could be difficult for hearing-impaired students whose SAT-Verbal means (279 to 306) and SAT-Mathematical means (362 to 377) are much lower than the analogous means for college-bound seniors (see Appendix A).

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Insert Table 2-15 about here

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Advanced placement. Data on hearing-impaired students' plans to apply for advanced placement or course credit are presented in Table 2-16. Students with hearing-impairments most often applied for advanced standing in mathematics (15%), followed by English (10%). Compared to college-bound seniors, hearing-impaired students were less likely to ask for advanced placement in any of the subject areas.

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Insert Table 2-16 about here

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Housing preferences. The college housing preferences of hearing-impaired students are presented in Table 2-17. Eighteen percent of students preferred living at home, and ten percent preferred their own apartment. Three percent reported a preference for a fraternity or sorority. More than two-thirds expressed a preference for living in a dormitory with 31 percent selecting a single-sex dorm and 38 percent choosing a coed dorm. Compared to college-bound seniors, fewer hearing-impaired students elected to live at home and more elected to live in a dormitory.

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Insert Table 2-17 about here

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### Extracurricular Activities

The extracurricular activities of hearing-impaired students in high school and their plans for extracurricular activities in college are presented in Table 2-18. Sixty-two percent of students had engaged in athletics during high school, but only 52 percent planned to do so in college. Thirty-five percent were active in social or community clubs during high school and a marginally higher percentage had such plans for college. Although only 8 percent were in departmental or preprofessional clubs in high school, 14 percent planned to be active in college. Compared to college-bound seniors, slightly fewer hearing-impaired students tended to participate in extra curricular activities—the greatest difference occurring in the category of art, music, and dance where on the average 16 percent fewer hearing-impaired students were active in high school.

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Insert Table 2-18 about here

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### Skills and Abilities

The self-reported skills and abilities of hearing-impaired students are presented in Table 2-19 in two categories: top 10 percent and above average. The areas in which hearing-impaired students felt strongest were in ability to get along, athletics, and organizing for work. They felt weakest in the area of music. Except for acting, art, and athletics, fewer hearing-impaired students than college-bound seniors ranked themselves in the top ten percent or above average. The greatest differences occurred for leadership, music, and spoken and written expression.



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Insert Table 2-19 about here

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### College Admissions Rates

In this section of Chapter 2 we will discuss the college admission rates of those hearing-impaired students who took special administrations of the SAT from 1980 to 1983. We will use our data on hearing-impaired students in several different models of college admissions policies: models based on single-index minimums, multiple-index minimums, either-or minimums, sliding scales, and predicted performance originally reported by Breland (1985) for Blacks, Whites, and Hispanics. Breland's original tables are presented in Appendix B.

Although Breland's work differentiated among Black, White, and Hispanic test-takers, for the purposes of this study we have combined the data from Breland's three groups. We will compare the admission rates of hearing-impaired students with those of Breland's total population.

#### Single-Index Minimums

Some educational institutions may base admissions policies on a single criterion, e.g. high school rank, high school grade point average, or SAT total score. Table 2-20 presents the admissions rates of the 1980-1983 hearing-impaired students if single-index minimums were used and compares those rates with the rates of the 1983 sample of more than 85,000 college-bound seniors reported by Breland (1985).

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Insert Table 2-20 about here

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High School Rank. The percentage of hearing-impaired students who would be admitted on the basis of high school rank alone ranged from a low of 29 percent for the top fifth to a high of 99 percent in the top four-fifths. Even in the bottom category (top 4/5ths) when almost all students would be admitted, a smaller percentage of hearing-impaired students would be admitted than students in the original study. The differences in percentages range from a low of one percent in the top four-fifths category to a high of 18 percent in the top two-fifths category.

High school grade point average. The percent of hearing-impaired students admitted on the basis of high school GPA alone ranged from a low of 15 percent in the highest category (HSGPA >3.50) to a high of 93 percent in the lowest (HSGPA > 2.00). Again, in every category, more students from the original group would be admitted than hearing-impaired students. The differences in percentages range from a low of four percent for the C-average or above category (2.00) to highs of 15 percent for averages of 2.75 or 3.25 and and above.

SAT total score. The percentage of hearing-impaired students admitted to college on the basis of SAT total score alone ranged from a low of 3 percent for a total score of 1100 or above to a high of 87 percent for a total SAT equal to or greater than 500. Again the admissions rates for hearing-impaired students are lower than the rates for college-bound seniors, but the differences are greater. The differences ranged from 11% and 15% for the

lowest (SAT > 500) and highest (SAT > 1100) categories to 45 percent for an SAT score of 800 or better. Clearly, of the three single-index minimums presented in Table 2-20, the SAT scores of hearing-impaired students create the greatest differences.

### Multiple-Index Minimums

In this model of admissions policies two minimum scores are identified as possible admissions criteria. We will first examine minimums involving high school rank and SAT total score, then high school grade-point average and SAT total score.

High school rank and SAT score minimums. Table 2-21 presents the admission rates for the hearing-impaired students in our study based on their high school rank plus SAT total score. When students are required to rank in the upper fifth with SAT scores ranging from 1100 down to 500, the admissions rate for hearing-impaired students ranges from 3 percent to 25 percent. If a rank in the upper two-fifths is used, admission rates range from 3 percent to 48 percent. And if the upper three fifths is the policy, admission rates range from 4 percent to 79 percent. Compared to the original group these admissions rates are low. For hearing-impaired students in the upper fifth of their classes, differences in admission rates would range from 12 to 30 percent lower than the original group. Those differences increase for those in the upper two-fifths and upper three-fifths of their classes, reaching the greatest difference for those in the upper three-fifths with SAT total scores of 800 or better. The lower admission rates for the hearing-impaired students are due more to their SAT scores than to their rank in class as demonstrated earlier in Table 2-20.

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Insert Table 2-21 about here

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High school GPA and SAT score minimums. Table 2-22 presents the admission rates of the hearing-impaired students in our study when admission is based on high school grade-point average plus a total SAT score. When admissions policies require a high school GPA of 3.0 or better (a B average) plus an SAT total score ranging from 1100 down to 500, from 3 to 39 percent of hearing-impaired students meet the qualifications. If the GPA requirement were lowered to 2.5, from 3% to 63% of hearing-impaired students could be admitted. And if the GPA requirement were lowered to 2.00 (a C average), from 3% to 81% of hearing-impaired students would be accepted. The eligible percentages for hearing-impaired students are lower than those for most college-bound seniors. For example if admissions were based on a high school grade-point average of B or better, from 13% to 33% fewer hearing-impaired students would be admitted depending on their SAT total score. The differences are even greater for lower grade-point averages, with the greatest difference—44 percent—occurring for a grade-point average criterion of 2.00 or better with an SAT total score of 800 or better.

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Insert Table 2-22 about here

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Either-or Minimums

This admission model allows for eligibility if a minimum score is reached on either one of the two criteria. The two models described in this section are based on SAT total scores with either high school rank or high school GPA.

Either rank or SAT score minimums. Table 2-23 presents the eligibility information for hearing-impaired students based on minimum scores on either high school rank or SATs. If the policy requires students to be in the upper fifth or have an SAT total score ranging from 1100 down to 700, the admissions rates for hearing-impaired students range from 30% to 59%. If the class-rank requirement is lowered to the upper two-fifths, 54% to 70% of hearing-impaired students are eligible. And if the class-rank requirement is lowered to the upper three fifths, from 89% to 92% of students with hearing impairments become eligible. Smaller percentages of hearing-impaired students than of college-bound seniors in this study meet the eligibility requirements. However, the differences between hearing-impaired students and the original group of college-bound seniors are smaller under this either-or model than under the model requiring both criteria to be met (Table 2-21). The maximum difference here is 32 percent while the maximum difference in Table 2-21 is 44 percent.

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Insert Table 2-23 about here

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Either high school GPA or SAT minimums. Table 2-24 presents the admission rates for hearing-impaired students when either a minimum GPA or SAT score is the admissions policy. Requirements of either a GPA of 3.0 or an SAT

ranging from 1100 down to 700, allow 44% to 63% of hearing-impaired students to be eligible for admission, and lowering the GPA requirement raises those percentages considerably. Again, the differences are smaller under the either-or minimums than when both minimums are required. The maximum difference here is 26 percent while the maximum difference in the analogous Table 2-22 is 44 percent.

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Insert Table 2-24 about here

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In both either-or minimums the greatest differences occur in the highest grade-point average category and as the HSGPA is lowered, differences in admission rates are also lowered.

### Sliding Scales

Sliding scales make use of the same criteria—SAT score and high school rank or GPA—but in a slightly different way. There are difference minimums on each of the criteria at different levels of performance. For example, if high school rank is high enough no SAT may be required, and conversely if SATs are high enough one could rank in the lowest fifth. We will look at five sliding scales: three based on rank and SAT, and two based on high school GPA and SAT.

Rank & SAT sliding scales. Table 2-25 presents the eligibility rates for hearing-impaired students under three sliding scales using high school rank and SAT total score. If sliding scale A were used, only 30 percent of hearing-impaired students would be eligible, compared to 64 percent of

college-bound seniors. Under sliding scales B and C the admission rates for hearing-impaired students increase to 42 percent and 54 percent respectively. Again, admission rates for hearing-impaired students are generally lower than the rates for college-bound seniors. The differences range from 34 percent less hearing-impaired students in sliding scale A to 26 percent in sliding scale C.

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Insert Table 2-25 about here

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High school GPA & SAT sliding scales. Table 2-26 presents eligibility rates using sliding scales D and E based on high school GPA and on SAT total score. Under sliding scale D, 38% of hearing-impaired students are eligible compared to 65% of college-bound Whites. Under sliding scale E, 53 percent of hearing-impaired candidates are eligible compared to 83% of whites. From 24 to 27 percent fewer hearing-impaired students than college-bound seniors would be admitted using these sliding scales.

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Insert Table 2-26 about here

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### Predicted Performance

The final model used in these admissions studies are the actual regression models based on the past performance of students in ten specific institutions. Table 2-27 gives the eligibility rates when hearing-impaired

candidates in our sample were considered as hypothetical applicants to each of the ten representative state institutions located in ten different states. To preserve their anonymity, the institutions are described only by region of the country and by their rank (among the ten) with respect to the mean GPA and SAT scores of entering students. From 12% to 42% of hearing-impaired students would be eligible for admission to these institutions. The rates for hearing-impaired students range from 8% to 47% lower than the rates for college-bound students.

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Insert Table 2-27 about here

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#### A Comparison of Admission Models

Table 2-28 presents a comparison of admissions models limited to situations where about three-quarters of White college-bound seniors in Breland's original study would be admitted. In these situations from 23 to 55 percent of hearing-impaired students are eligible for admission.

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Insert Table 2-28 about here

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The lower admission rates for hearing-impaired students are associated with the use of the total SAT score. Early in this chapter, we reported that 60 percent or more of hearing-impaired students earned SAT-Verbal scores in the 200s—i.e. the lowest category. Even though the mean SAT-Mathematical



score of hearing-impaired students was higher than the mean Verbal score, it was considerably lower than the mean for college-bound seniors. It should come as no surprise, then, that the use of SAT minimums would depress the admission rates of hearing-impaired students relative to college-bound seniors.

The highest admission rates for hearing-impaired students are associated with admissions models using high school GPA (55%), high school rank (53%), and the use of an either-or model that capitalizes on rank (top two fifths or SAT > 1000 or 1100).

For those hearing-impaired students whose primary mode of communication had been a manual language—i.e. American Sign Language, Signed English, etc.—the SAT is an especially difficult test and may not be appropriate. If students have been taught in elementary and secondary school to use a manual language, and if interpreter services will be provided in postsecondary education, it seems inappropriate to require an admissions test using relatively difficult English vocabulary without allowing for the use of an interpreter for test questions. Whether the use of an interpreter—or a signed version of the SAT—would improve the scores of hearing-impaired students is a research question worthy of further endeavor. Meanwhile, opportunities in postsecondary education for hearing-impaired students appear theoretically somewhat limited compared to college-bound seniors in general.

## CHAPTER 3

### Students with Learning Disabilities

In Chapter 3 we will first describe those learning disabled students who took special administrations of the SAT from 1980 to 1983 and who responded to the Student Descriptive Questionnaire. We will compare the findings on learning-disabled students with those on college-bound seniors reported in Appendix A. Later in the chapter we will describe the college admission rates of these learning disabled-students using several different models of college admissions policies. We will compare the admissions rates of the learning-disabled students to the rates of college-bound seniors reported in Appendix B.

#### Student Descriptive Information

Over the four-year period of the school years 1980-83, almost four million college-bound seniors took the SAT. During the same period, more than ten thousand students with learning disabilities took special administrations of the SAT. The ratio of learning-disabled students to all college-bound seniors increased each year of the four-year period. In 1980 for every special administration for an learning-disabled student, there were 645 administrations for college-bound seniors. By 1983 that ratio had climbed to one in 272 administrations.

The more than 10,000 learning-disabled students who took the SATs from 1980-83 form the data base for this study. Only two-thirds of those students completed the Student Descriptive Questionnaire, however; so except for data on SAT scores, most of the information in this chapter is based on the 6500+ students who completed the SDQ. More than 70 percent of those learning-disabled students were male.

In the next sections we will discuss the SAT performance, high school background, ethnicity, parental income, college plans, after-curricular activities, and the reported skills and abilities of learning-disabled students who took special administrations of the SAT.

### Performance on the SAT

Table 3-1 presents the mean verbal and mathematical scores from special administration of the SAT for students with learning disabilities.

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Insert Table 3-1 about here

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The largest percentage of learning disabled students each year—from 38 percent to 50 percent—earned verbal and mathematical scores in the category 300 to 399. For college-bound seniors (see Appendix A) the largest percentage of students are in the 400 to 499 category. From one-fourth to one-third of all learning-disabled students scored in the lowest category—200 to 299—on SAT-V while only 11 to 13 percent of college-bound seniors had scores in that category. From 15 to 21 percent of learning-disabled students scored in the lowest category in math, compared to 6 or 7 percent for college-bound seniors. The distribution of scores for learning-disabled students is consistently lower than the scores of the general population of college-bound individuals.

The mean SAT-V scores of all learning-disabled students from special administrations range from a low of 343 in 1980 to a high of 367 in 1981. The means for males across the four years were consistently higher than the

means for females—from 12 points higher in 1980 to 21 points higher in 1983. SAT-M means for all learning-disabled students ranged from a low of 381 in 1980 to a high of 409 in 1981. Again, males averaged higher scores than females—from 29 points higher in 1983 to 42 points higher in 1981.

The Verbal subscores of Reading Comprehension and Vocabulary are presented in Table 3-2 and the scores on the Test of Standard Written English (TSWE) are in Table 3-3.

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Insert Tables 3-2 and 3-3 about here

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Close to 30 percent of learning-disabled students earned Reading Comprehension and Vocabulary scores in the lowest category—20 to 29—while close to 40 percent scored in the next higher category—30 to 39. On the TSWE, however, about 40 percent of learning disabled students scored in the lowest category while one-third scored in the next higher category. In comparison to college-bound seniors (see Appendix A) who most frequently earned scores in the 40 to 49 category on all three subtests, learning-disabled students earned considerably lower scores.

To summarize the test performance of students with learning disabilities, Table 3-4 presents the SAT means over the four years of the study and compares them with the mean scores of those students who responded to the Student Descriptive Questionnaire. Almost two-thirds of learning disabled students completed the SDQ, and their means were identical for SAT-V and only two points higher for SAT-M.

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Insert Table 3-4 about here

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Over all four years of the study, the mean SAT-Verbal score for learning-disabled students was 350 with a standard deviation of 91, while for all college-bound students the mean was 425 with a standard deviation of 110. The mean verbal score for learning-disabled students was about two-thirds of a standard deviation below the norm for college-bound seniors.

The 4-year SAT-Mathematical mean for learning-disabled students was 389 with a standard deviation of 108 compared to a mean of 467 and a standard deviation of 117 for all college-bound seniors. The mean mathematical score for learning-disabled students was again about two-thirds of a standard deviation below the norm for college-bound students.

### High School Background

In this section of the report on learning-disabled students we will cover the type of high school attended, high-school grades, the years of study in six curriculum areas, self-reported class rank, and estimated high school grade point average (HSGPA).

Type of high school. Over the four years of the study about 31 percent of students with learning disabilities came from private schools and 69 percent from public schools (see Table 3-5). More than 80 percent of college-bound seniors came from public schools (see Appendix A). A larger percentage of learning-disabled students attend private schools.

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Insert Table 3-5 about here

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Grades. Table 3-6 presents the latest reported high school grades from 1980-83 for learning-disabled students in six academic areas: English, mathematics, foreign language, biological sciences, physical sciences, and social studies. On a four-point scale when D equals a one and A equals a four, learning-disabled students averaged about a B- or a C+ (about 2.5) in English, biology, and physical science, with slightly lower grades in mathematics and foreign language and slightly higher grades in social studies. The grades of learning-disabled students were on the average about half a grade point lower than those of college-bound seniors--ranging from about .4 grade points lower in mathematics to about .8 grade points lower in foreign language.

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Insert Table 3-6 about here

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The distribution of grades looks very different for learning-disabled students and college-bound seniors. For example, 33 percent of seniors report grades of A in English compared to 8.5 percent of learning-disabled students. Conversely, only two percent of seniors report grades of D in English compared to six percent of learning disabled students. In all subject areas a smaller proportion of learning-disabled students earn high

grades and a higher proportion earn low grades compared to college-bound seniors.

Years of study. Table 3-7 presents the number of years of study in each of the six curriculum areas for students with learning disabilities. They report an average 3.9 years of English, 3.4 years of mathematics, 3.2 years of social studies, one and a half years of physical science, and less than one and a half years of biological sciences and foreign languages. These average years of study are very close to the means for college-bound seniors in English, mathematics, biology, and social studies. The greatest difference between the two groups exists for foreign languages. Where 13.4% of college-bound seniors report no coursework in foreign languages compared to more than 40 percent of learning-disabled students.

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Insert Table 3-7 about here

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Class rank. The self-reported class ranks of learning-disabled students during the four years of this study are presented in Table 3-8, together with the SAT scores associated with those ranks. Eighty percent or more of learning-disabled students ranked themselves in the third fifth or above, with almost 50 percent in the third, or middle fifth. About 26 percent of college-bound seniors ranked themselves in the middle fifth and 96 percent ranked themselves in the middle fifth or above. From 18 to 20 percent of learning-disabled students ranked themselves in the fourth and lowest fifth, compared to 4 percent of college-bound seniors.

In general the SAT scores of learning-disabled students in the top ranks were higher than the SAT scores of students in the lower ranks. A fairly ordered progression was observed. However, in comparison to college-bound seniors (Appendix A), learning-disabled students had lower scores at each ranking. For example, learning-disabled students in the top tenth had SAT-V scores ranging from 388 in 1980 to 433 in 1981 compared to scores of 508 to 511 for college-bound seniors.

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Insert Table 3-8 about here

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Estimated HSGPA. The estimated high school grade-point averages for students with learning disabilities are presented in Table 3-9. The mean HSGPA ranges from 2.51 to 2.53 compared to 3.06 for college-bound seniors. The estimated HSGPA for learning-disabled students is about .9 standard deviations lower than that of the seniors.

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Insert Table 3-9 about here

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In summary, the data on the high school background of learning-disabled students from special SAT administrations show that a larger proportion of learning disabled students attends private schools, they earn lower grades in six curriculum areas than their nonhandicapped counterparts, and their HSGPAs are about half a grade point lower. There are fewer high-ranking



learning-disabled students and more lower-ranking learning-disabled students compared to college-bound seniors. The educational background of learning-disabled students includes relatively comparable means of coursework in most subject areas except foreign languages.

### Ethnicity

The ethnic background of the students with learning disabilities is presented in Table 3-10. More than 90 percent of learning-disabled students classified themselves as White, with only 7 to 9 percent classifying themselves as a minority. In the general population of college-bound seniors the analogous percentages are 81 to 82 percent White and 18 to 19 percent minority. The roughly 8 percent of minority learning-disabled students is less than half the representation of minorities in college-bound seniors.

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Insert Table 3-10 about here

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### Parental Income

The median parental income of students with learning disabilities is presented in Table 3-11 for all students and for the subgroups of Black and White students. Median income increased each year over the four years of the study for all groups—except that the median income for Black students fell from 1981 to 1982. Median income for Black students was less than half that of White students. Compared to the median incomes of all college-bound seniors, the incomes of learning disabled students were considerably higher.

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Insert Table 3-11 about here

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The distribution of income shown in Table 3-11 indicates that about 7 to 11 percent of learning-disabled families earn less than \$12,000 compared with 13 to 18 percent of college-bound seniors. From 52 to 70 percent of learning-disabled families earned more than \$30,000 compared with 30 to 48 percent of the families of college-bound seniors.

The mean parental income associated with the SAT scores of learning-disabled students is presented in Table 3-12. For all college-bound students (Appendix A) there is a direct relationship between SAT averages and mean incomes--the higher the average, the higher the income. That relationship is not as apparent for learning-disabled students, perhaps in part because of the small numbers of students in the top SAT categories. What is immediately obvious, however, is the much larger average mean incomes of the families of learning-disabled students.

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Insert Table 3-12 about here

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### College Plans

In this section we will report on learning-disabled students' degree goals, plans to ask for special assistance, intended fields of study, plans to apply for advanced placement, and housing preferences.

Degree goals. The degree goals of students with learning disabilities are presented in Table 3-13. From 8 to 9 percent of learning-disabled students were planning on a two-year program, about 43 percent on a BA or BS degree, about 26 percent planned to pursue graduate study, and the remaining students were undecided. Compared to college-bound seniors, more learning-disabled students were planning on a bachelor's degree or a two-year program or were undecided while fewer were planning on graduate study.

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Insert Table 3-13 about here

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Special assistance. Plans by learning-disabled students to ask colleges for special assistance are presented in Table 3-14 by specific areas of need. Slightly over 80 percent of learning-disabled students planned on seeking aid—a percentage close to that of college-bound seniors. The three areas in which one-third or more learning-disabled students sought assistance were reading skills, writing skills, and study skills. Among college-bound seniors only two areas were reported by one-third of the students: part-time work, and educational counseling. From 22 percent to 25 percent of learning-disabled students were planning to seek help for part-time work, and almost 30 percent indicated a need for educational counseling. On average over the four years, only in the area of part-time work, educational counseling, and vocational counseling did a smaller percentage of learning-disabled students than college-bound seniors plan to seek assistance.

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Insert Table 3-14 about here

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Intended fields of study. A summary of the first-choice intended field of study for learning-disabled students is presented in Table 3-15 together with the mean SAT scores associated with the choice. Almost one-quarter of male learning-disabled students selected business and commerce as their first choice, followed by 12 percent selecting engineering and 7 percent undecided. For female learning-disabled students the most popular choices were education (18 percent), health & medical (almost 14 percent), business & commerce (almost 14 percent), and art (almost 13 percent).

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Insert Table 3-15 about here

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For the total learning-disabled group (where males outnumbered females almost two-and-a-half to one), the four most popular choices were business and commerce (almost 22 percent), education (9 percent), engineering (9 percent), and art (7 percent). Compared to the total group of college-bound seniors a larger percentage of learning-disabled students were selecting business and commerce, education, and art, while a smaller percentage was selecting engineering. In these four fields competition could be difficult for learning-disabled students whose SAT-Verbal means (319 to 374) and SAT-Mathematical means (347 to 448) are considerably lower than the Verbal (312 to 447) and Mathematical (418 to 537) means of college-bound seniors.

The learning-disabled students with the highest mean verbal scores had selected the fields of English/literature (SAT-V of 427) and history & culture (SAT-V of 408), while those with the highest mean mathematical scores had selected mathematics (SAT-M of 496) and physical sciences (SAT-M of 467). Those means were again considerably lower than the means of college-bound seniors.

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Insert Table 3-16 about here

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Housing preferences. The college housing preferences of learning disabled students are presented in Table 3-17. Their preferences ranked from high to low were a college dorm (65 percent), home (17 percent), an apartment (13 percent) and a fraternity or sorority (5 percent). Compared to college-bound seniors in general, a smaller percentage of students elected to live at home and a larger percentage elected a coed dorm.

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Insert Table 3-17 about here

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To summarize the college plans for learning disabled students, degree goals were modest compared with the general population's. Fewer learning-disabled students planned on graduate study while more opted for two-year or four-year programs. A larger percentage of learning-disabled students planned to seek help in reading, writing, math, and study skills,

while a smaller percentage sought assistance in the areas of part-time work, and vocational or educational counseling. Almost 22 percent of learning-disabled students selected business & commerce as a first-choice field of study, followed by education (9 percent, engineering (9 percent), and art (7 percent). The mean SAT scores of learning-disabled students in these fields and others were considerably lower than the scores of the college-bound seniors. The majority of learning-disabled students (65 percent) preferred to live in a college dormitory, especially a coed dorm (43 percent).

### Extracurricular Activities

Table 3-18 presents the extracurricular activities of learning-disabled students in high school and their plans for such activity in college. Sixty-eight percent of learning-disabled students had engaged in athletics in high school, but only 55 percent planned to do so in college—figures similar to those for college-bound seniors. More than one-third of learning-disabled students reported high school activities in art, music, or dance and in social or community clubs, but that percentage was lower for learning-disabled students than for college-bound seniors. In fact, except for athletics, the rate of participation of learning disabled students in all extracurricular activities listed in the table was lower than the rate for seniors in general.

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Insert Table 3-18 about here

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### Skills and Abilities

The self-reported skills and abilities of students with learning disabilities are presented in Tables 3-19 in two categories: top 10 percent and above average. The areas in which learning-disabled students reported greatest strengths were in ability to get along with others, athletics, and leadership. Compared to college-bound seniors, a slightly larger percentage of learning-disabled students reported strengths in athletics and mechanics, and a notably smaller percentage reported strengths in written expression, mathematics, organizing, creative writing, science, and music.

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Insert Table 3-19 about here

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### College Admissions Rates

In this section of Chapter 3 we will discuss the college-admission rates of those learning-disabled students who took special administrations of the SAT from 1980 to 1983. We will use our data on learning-disabled students in several different models of college admissions policies: models based on single-index minimums, multiple-index minimums, either-or minimums, sliding scales, and predicted performance originally reported by Breland (1985) for Blacks, Whites, and Hispanics. Breland's original tables are presented in Appendix B.

Although Breland's work differentiated among Black, White, and Hispanic test takers, for the purposes of this study we have combined the data from Breland's three groups. We will compare the admission rates of learning-disabled students with those of Breland's total population.

### Single-Index Minimum

Some educational institutions may base admissions policies on a single criterion, e.g. high school rank, high school grade-point average, or SAT total score. Table 3-20 presents the admissions rates of 1980-1983 learning disabled students if single-index minimums were used and compares those rates with the rates of the 1983 sample of more than 95,000 college-bound seniors in Breland's study.

High school rank. The percentage of learning-disabled students eligible for admission on the basis of high school rank alone ranged from a low of 12 percent of the top one-fifth to a high of 95 percent of the top four-fifths. In all cases, compared to the students in the original study a smaller proportion of learning-disabled students would be admitted. The differences in percentages between the two groups ranged from 5 to 39 percentage points.

High school grade point average. On the basis of HSGPA alone, the percentage of eligible learning-disabled students ranged from 4 percent of those with an average of 3.50 or better to 86 percent of those with an average of 2.00 or better. Again, in every category a larger percentage of students from the original group would be admitted. From 11 to 36 percent fewer learning-disabled students would be eligible on the basis of HSGPA alone.

SAT total score. The percentage of learning-disabled students admitted to college on the basis of SAT total score alone ranged from a low of 3 percent of students with a total score of 1,100 or better to a high of 95 percent of students with a total score of 500 or more. Although the difference between learning-disabled students and college-bound seniors is not great—only 3 percent—in the lowest category, the differences are



considerably greater in all other categories, with the maximum difference reaching 34 percent.

Overall the differences among the three single-index minimums are not great. Using rank, GPA, or SAT scores, differences between learning disabled students and college-bound seniors are minimized when the criteria are lowest and reach similar maximums of 39, 36, and 33 percent.

### Multiple-Index Minimums

In this model of admissions policies two scores are identified, both of which are used as admissions criteria. We will first examine minimum scores involving high school rank and SAT total scores, then look at high school GPA and SAT score.

High school rank and SAT total score minimums. Table 3-21 presents the admissions rates for learning-disabled students based on rank and SAT score. Only from 1 to 12 percent of learning-disabled students would qualify if students were required to be in the upper fifth of their classes. From 2 to 32 percent would qualify in the upper two-fifths and from 3 to 78 percent in the upper three-fifths. From 14 to 33 percent fewer learning-disabled students would qualify in the upper fifth category, 16 to 41 percent fewer in the upper two-fifths category, and from 16 to 37 percent fewer in the upper three-fifths category.

High school CPA and SAT total score minimums. Table 3-22 presents the admission rates of the learning-disabled students in our study when admission is based on high school grade-point average plus a total SAT score. When admissions policies require a GPA of 3.00 or better--a B average--plus an SAT score ranging from 1100 down to 500--from 2 to 22 percent of learning-disabled students would meet the criteria. Those percentages

increase as the criteria are lowered. The differences between learning-disabled students and those in the original study remain fairly consistent across the three sets of categories presented in this table; from 14-38 percent fewer learning disabled-students in the top category and 15-39 percent in the middle category to 15-36 percent fewer in the lowest category.

### Either-Or Minimums

This admission model allows for eligibility if a minimum score is reached on either one of the two criteria. The two models described in this section are based on SAT total scores with either high school rank or high school GPA.

Either rank or SAT score minimums. Table 3-23 presents the eligibility information for learning-disabled students based on minimum scores on either high school rank or SATs. If the policy requires students to be in the upper fifth of their class or have an SAT total score ranging from 1,100 down to 700, the admissions rates for learning-disabled students range from 14 to 59 percent. If the class-rank requirement is lowered to the upper two-fifths, 33 to 65 percent of learning-disabled students are eligible. And if the class-rank requirement is lowered to the upper three-fifths, from 81 to 85 percent of students with learning disabilities become eligible. Smaller percentages of learning-disabled students than college-bound seniors in this study meet the eligibility requirements. The differences in the top category (upper-fifth) range from 28-37 percent, those in the middle category (upper two-fifths) from 25-40 percent and those in the bottom category (upper three-fifths) from 10-16 percent.

Either high school GPA or SAT minimums. Table 3-24 presents the admission rates for learning-disabled students when either a minimum GPA or

SAT score is the admissions policy. Requirements of either a GPA or 3.0 or an SAT ranging from 1,100 down to 700, would allow 24 to 62 percent of learning-disabled students to be eligible for admission, and lowering the GPA requirement raises those percentages considerably. Again, smaller percentages of learning-disabled students than college-bound seniors in the previous study meet the eligibility requirements. The differences in the top two categories—26 to 36 percent and 19 to 30 percent—are more extreme than the differences in the lowest category—7 to 11 percent.

In both either-or models, the greatest differences tend to occur in the highest performance categories, and as the criteria are lowered, differences in admission rates are also lowered. In general, the more rigorous the standards, the greater the difference in admission rates.

### Sliding Scales

Sliding scales make use of the same criteria—SAT scores and high school rank or GPA—but in a slightly different way. There are different minimums on each of the criteria at different levels of performance. For example if high school rank is high enough no SAT may be required, and conversely if SATs are high enough one could rank in the lowest fifth. We will look at five sliding scales; three based on rank and SAT, and two based on high school GPA and SAT.

Rank & SAT sliding scales. Table 3-25 presents the eligibility rates for learning disabled students under three sliding scales using high school rank and SAT total score. If sliding scale A were used, only 22 percent of learning disabled students would be eligible, compared to 64 percent of college-bound seniors. Under sliding scales B and C the admission rates for learning disabled students increase to 33 percent and 43 percent

respectively. Admission rates for learning disabled students are 37 to 42 percent lower than the rates for college-bound seniors.

High school GPA & Sliding scales. Table 3-26 presents eligibility rates using sliding scales D and E based on high school GPA and on SAT total score. Under sliding scale D, 22 percent of learning-disabled students are eligible compared to 62 percent of college-bound seniors—a difference of 40 percent. Under sliding scale E, 42 percent of learning-disabled candidates are eligible compared to 80 percent of seniors—a difference of 38 percent.

### Predicted Performance

The final models used in these admissions studies are the actual regression models based on the past performance of students in 10 specific institutions. Table 3-27 gives the eligibility rates when learning disabled candidates in our sample were considered as hypothetical applicants to each of the 10 representative state institutions located in 10 different states and when those institutions planned to accept only students who would earn a predicted freshman GPA of 2.5 or better. To preserve their anonymity, the institutions are described only by region of the country and by their rank (among the 10) with respect to the mean GPA and SAT scores of entering students. From 7 to 29 percent of learning disabled students would be eligible for admission to these institutions. The rates for the original group ranged from 40 to 69 percent. From 24 to 50 percent fewer learning disabled students were eligible for admission.

### A Comparison of Admission Models

Table 3-28 presents a comparison of admissions models limited to situations where about three-quarters of white college-bound seniors in

Breland's original study would be admitted. In these situations from 28 to 40 percent of learning-disabled students would be eligible for admission. The either-or minimums appear overall to work slightly better for learning-disabled students than do other models, although the differences are not great.

It is interesting to note that the SAT scores of learning-disabled students appear not to harm their chances for admission to college. The smallest difference in admission rates between learning-disabled students and college-bound seniors (-34 percent) coincides with one of the larger percentages (34 percent) of learning-disabled students being admitted on the basis of a single index: an SAT total score of 800 or better. Among the three single-index variables, the class rank in the top two-fifths appears to be a more difficult criterion to meet than the criterion of an SAT score of 800 or better.

## CHAPTER 4

### Students with Physical Disabilities

In Chapter 4 we will first describe those physically disabled students who took special administrations of the SAT from 1980 to 1983 and who responded to the Student Descriptive Questionnaire. We will compare the findings on disabled students to those on college-bound seniors reported in Appendix A. Later in the chapter we will describe the college admission rates of these physically disabled students using several different models of college admissions policies. We will compare the admissions rates of the physically disabled students to the rates of college-bound seniors reported in Appendix B.

#### Student Descriptive Information

Over the four-year period of the school years 1980-83 almost 4 million college-bound seniors took the SAT. In the same period, more than 650 males and 460 females identified themselves as having a physical disability and were tested using ATP Services for Handicapped Students. Slightly more than three-quarters of these students completed the Student Descriptive Questionnaire. The 1,100+ physically disabled test takers, including the more than 850 who completed the SDQ, form the data base for the information presented here.

In the remainder of this chapter we will look at the SAT performance of these physically disabled students, their high school background, ethnicity, parental income, college plans, extracurricular activities, and their reported skills and abilities.

Performance on the SAT

Table 4-1 presents the mean Verbal and Mathematical scores from special administrations of the SAT for students with physical disabilities.

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Insert Table 4-1 about here

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About one-third or more of the students with physical disabilities earn SAT-V or SAT-M scores in the 300 to 399 range, and about one-quarter or more score in the 400-499 range. Over the four years they earned mean Verbal scores from 387 in 1980 to 422 in 1981 and mean mathematical scores from 400 in 1982 to 437 in 1981. Compared to the SAT scores of college-bound seniors, physically disabled students earned mean Verbal scores from two points lower in 1981 to 37 points lower in 1980 and mathematical scores from 29 points lower in 1981 to 67 points lower in 1982. On average the verbal scores of physically disabled students from special SAT administrations were almost 25 points lower--and the mathematical scores about 45 points lower--than college-bound seniors.

The Verbal subscores of Reading Comprehension and Vocabulary are presented in Table 4-12 and the scores on the Test of Standard Written English (TSWE) in Table 4-3.

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Insert Tables 4-2 and 4-3 about here

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Whereas the modal score range for college-bound seniors on all three tests was 40 to 49, the modal range for physically disabled students alternated between 30 to 39 and 40 to 49. Physically disabled students tended to earn mean scores a few points lower than the means for college-bound seniors.

To summarize the test performance of physically disabled students from special SAT administrations, Table 4-4 presents the SAT means over the four years of the study and compares those means with the mean scores of those students who responded to the Student Descriptive Questionnaire. Slightly more than three-quarters of the students completed the SDQ, and the respondents earned SAT scores only marginally higher than the total group.

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Insert Table 4-4 about here

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Over all four years of the study the mean SAT-Verbal score for students with physical disabilities was 402 with a standard deviation of 111, compared to a mean of 425 with a standard deviation of 110 for college-bound seniors. The mean for physically disabled students was about one-fifth of a standard deviation below the norm for college-bound seniors.

The analogous mathematical means were 421 for disabled students with a standard deviation of 121 and 467 for college-bound seniors with a standard deviation of 117. The mean for disabled students was about two-fifths of a standard deviation below that for seniors.



### High School Background

In this section of our report we will cover the type of high school attended by physically disabled students, their high school grades, the number of years of study in 6 curriculum areas, self-reported class rank, and estimated high school grade-point average (HSGPA).

Type of high school. Over the four years of this study about 81 percent of physically disabled students attended public rather than private schools—a percentage identical with that of college-bound seniors (see Table 2-5).

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Insert Table 4-5 about here

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Grades. Table 4-6 presents the latest reported high school grades for 1980 to 1983 for physically disabled students in six academic areas: English, mathematics, foreign language, biological sciences, physical sciences, and social studies. On a four-point scale where D equals one and A equals four, physically disabled students average a solid B in English and social studies with only slightly lower means in the other subject areas. The lowest grades are in mathematics where the average is a B- (2.66 to 2.75).

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Insert Table 4-6 about here

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Compared to college-bound seniors, physically disabled students earned mean grades that ranged from 0.10 to 0.27 grade points lower. Except in foreign languages, smaller percentages of physically disabled students took honors courses and consistently across years and curriculums smaller percentages earned grades of A. Although physically disabled college candidates from special SAT administrations consistently earned lower grades, the differences were actually quite small.

Years of study. Table 4-7 presents the number of years of study in each of six curriculum areas for students with physical disabilities. They reported on average 3.9 years of English, 3.4 years of mathematics, 1.9 years of foreign languages, 1.3 years of biological sciences, 1.5 years of physical sciences, and 3.3 years of social studies. These average years of study are very close to those of college-bound seniors. A comparison of students with no courses in the six curriculum areas revealed that students with physical disabilities were somewhat less likely to have had foreign-language study than were college-bound seniors.

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Insert Table 4-7 about here

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Class rank. The self-reported class rank of physically disabled students during the four years of the study are presented in Table 4-8 together with the SAT scores associated with those ranks. From 16 to 19 percent of physically disabled students ranked themselves in the top tenth of their classes and from 15 to 18 percent ranked themselves in the second tenth. Compared to college-bound seniors, there were about five percent

fewer physically disabled students in each of these categories. About 9 percent of physically disabled students ranked themselves in the two lowest categories compared to 4 percent for college-bound seniors.

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Insert Table 4-8 about here

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A fairly consistent pattern of association was observed between the class rank of physically disabled students and their SAT scores. Students who ranked themselves in the top tenth or second tenth earned considerably higher scores than those who ranked themselves in the two lowest categories. Compared to the SAT scores of college-bound seniors at each level of ranking, physically disabled students earned, on average, slightly lower scores. For example, physically disabled students in the top-tenth category earned SAT-M scores ranging from 469 in 1980 to 531 in 1981, compared with scores of 567 to 570 for college-bound seniors.

Estimated HSGPA. The estimated high school grade-point averages for physically disabled students are presented in Table 4-9. The mean HSGPA for disabled students ranges from 2.86 to 2.91 compared to 3.06 for college-bound seniors. The estimated HSGPA for physically handicapped students in this study were about one-quarter of a standard deviation below the HSGPA for college-bound seniors.

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Insert Table 4-9 about here

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In summary, the data on the high school background of the physically disabled student in this study show only slightly lower years of study and academic grades for 6 subject areas, a slight shift downward in the percentage of students in the top class ranks, slightly lower SAT scores associated with class rank, and a slightly lower high school grade-point average.

### Ethnicity

The ethnic backgrounds of the physically disabled students in this study are presented in Table 4-10. From 83 to 91 percent of disabled students classified themselves as White, from 4 to 11 percent Black, and, over all, from 9 to 17 percent minority. In the population of college-bound seniors, those figures are 81 to 82 percent White, 9 percent Black, and 18 to 19 percent minority. Over the four-year period the mean percent of physically disabled minority students was about one-third lower than the percentage in the college-bound population.

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Insert Table 4-10 about here

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### Parental Income

The median parental income of students with physical disabilities is presented in Table 4-11 for all students and for the subgroups of Black and White students. Median parental income for White students--and for the total group--increased each year over the four years of the study. The median

family income of Black students was much more erratic, ranging from \$8,250 in 1983 to \$19,500 in 1981. The family income of Black students was consistently much lower than the family income of White students. Compared to the median income of college-bound seniors (Appendix A), the family income of physically disabled students was quite similar, but marginally lower.

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Insert Table 4-11 about here

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The distribution of income shown in Table 4-11 indicates that from 15 to 21 percent of the families of physically disabled students had incomes below \$12,000, and from 29 to 48 percent had incomes above \$30,000. The percentage of incomes under \$12,000 decreased each year over the four years of the study and the percentage over \$30,000 increased. These figures paralleled rather closely the income distribution of the families of college-bound seniors.

The mean parental income associated with the SAT scores of physically disabled students is presented in Table 4-12. For all college-bound seniors (Appendix A) there is a direct relationship between SAT averages and mean income—the higher the average, the higher the income. That relationship is not nearly as apparent for physically disabled students.

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Insert Table 4-12 about here

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### College Plans

In this section we will report on physically disabled students' degree goals, plans to ask for special assistance, intended fields of study, plans to apply for advanced placement and hearing preferences.

Degree goals. The degree goals of students with physical disabilities are presented in Table 4-13. From 5 to 10 percent of disabled students planned on a two-year program or degree, from 32 to 35 percent planned on a bachelor's degree, and 32 to 40 percent planned on graduate study. Compared to college-bound students, slightly more physically disabled students planned on two years of study and slightly fewer planned on graduate study.

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Insert Table 4-13 about here

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Special assistance. Plans by physically disabled students to ask colleges for special assistance are presented in Table 4-14 by specific areas of need. From 75 to 86 percent of physically disabled students planned to ask for special assistance—a slightly higher percentage than that for college-bound seniors. In every category except part-time work, a larger percentage of physically handicapped students were planning on seeking aid. More than 45 percent on average sought educational counseling and more than 40 percent sought vocational counseling. About one-quarter of the disabled students planned to seek assistance for math skills and writing skills, slightly fewer for reading skills, and slightly more for study skills and part-time work. About thirteen percent sought personal counseling.

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Insert Table 4-14 about here

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Intended fields of study. A summary of the first-choice intended fields of study for physically disabled students is presented in Table 4-15 together with the mean SAT scores associated with each choice.

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Insert Table 4-15 about here

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The five most popular choices among physically disabled males were business & commerce (20 percent), computer science/systems analysis (17 percent), social sciences (almost 12 percent), communications (10 percent), and engineering (7 percent). Except for engineering--the most popular choice for college-bound males (Appendix A)--the percentage of physically handicapped students making those choices was larger than the percentage of college-bound seniors, especially in the areas of communications and the growing field of computer sciences.

The five most popular choices among physically disabled females were business & commerce (15 percent), health and medical (14 percent), education (13 percent), psychology (8 percent), and social sciences (8 percent). Compared to college-bound females in general, a slightly smaller percentage selected medical or business categories and a slightly larger percentage selected education and psychology.

For the total group of physically disabled students the top five choices were business (18 percent), computer science (13 percent), social science (10 percent), health & medical (9 percent), and communications (7 percent). Compared to college-bound seniors, a larger percentage of physically disabled students chose computer science, social science, and communications while a smaller percent selected the health and medical field. For all five choices the SAT-Verbal and Mathematical mean scores for the disabled students were lower than the mean scores for college-bound seniors across the four years.

Advanced placement. Information on the plans of physically disabled students to apply for advanced placement or course credit is presented in Table 4-16. Compared to college-bound seniors, a smaller percentage of disabled students planned to apply for advanced standing in each of the seven listed areas: English, mathematics, foreign languages, biological sciences, physical sciences, social studies, and art and music.

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Insert Table 4-16 about here

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Housing preferences. The college-housing preferences of physically disabled students are presented in Table 4-17. Their preferences, ranked from high to low, were a college dorm (52 percent), at home (33 percent), an apartment (13 percent), and a fraternity or sorority (2 percent). Compared to college-bound seniors a slightly larger percentage of physically disabled students preferred to live at home.



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Insert Table 4-17 about here

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To summarize the college plans of physically disabled students in this study, their degree goals, requests for special assistance, intended fields of study, plans for advanced placement and college-housing preferences differed only modestly from those of college-bound students although the mean SAT scores of disabled students selecting specific fields of study tended to be somewhat lower.

#### Extracurricular Activities

Table 4-18 presents the extracurricular activities of physically disabled students in high school and their plans for such activity in college. About one-third of physically disabled students had participated in athletics, in social or community clubs, and in art, music, or dance during high school. Smaller percentages planned on athletics (and art, music, or dance) in college, but larger numbers planned participation in social and community clubs during college. In these same three areas, larger percentages of college-bound seniors had participated in high school and planned participation in college. The largest difference was in the area of athletics where almost double the percentage of seniors had participated in high school (approximately 69 percent compared to 35 percent of physically disabled students) and more than double the percentage (approximately 56 percent compared to 25 percent) planned participation in college.

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Insert Table 4-18 about here

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### Skills and Abilities

The self-reported skills and abilities of students with physical disabilities are presented in Table 4-19 in two categories: top ten percent and above average. The areas in which physically disabled students reported greatest strengths were in getting along (85 percent above average), spoken expression (63 percent above average), organizing (60 percent above average), and leadership (59 percent above average). Compared to college-bound seniors the percentages of physically disabled students reporting above average ability were in general somewhat lower especially in athletics where only 24 percent—compared to 61 percent of seniors—reported above average ability.

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Insert Table 4-19 about here

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### College Admissions Rates

In this section of Chapter 4 we will discuss the college admission rates of those physically disabled students who took special administrations of the SAT from 1980 to 1983. We will use our data on physically disabled students in several different models of college admissions policies: models based on single-index minimums, multiple-index minimums, either-or minimums, sliding scales, and predicted performance originally reported by Breland (1985) for

Blacks, Whites, and Hispanics. Breland's original tables are presented in Appendix B.

Although Breland's work differentiated among Black, White, and Hispanic test-takers, for the purposes of this study we have combined the data from Breland's three groups. We will compare the admission rates of physically disabled students with those of Breland's total population.

### Single-Index Minimums

Some educational institutions may base admissions policies on a single criterion, e.g. high school rank, high school grade-point average, or SAT total score. Table 4-20 presents the admissions rates of 1980-193 physically disabled students if single-index minimums were used and compares those rates with the rates of the 1983 sample of more than 95,000 college-bound seniors in Breland's study.

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Insert Table 4-20 about here

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High school rank. The percentage of physically disabled students eligible for admission on the basis of high school rank alone ranged from a low of 33 percent of the top one-fifth to a high of 98 percent of the top four-fifths. In all cases compared to the students in the original study, a slightly smaller proportion of physically disabled students would be admitted. The differences in percentages between the two groups ranged from 2 to 12 percentage points.

High school grade-point average. On the basis of HSGPA alone, the percentage of eligible physically handicapped students ranged from 18 percent of those with an average of 3.50 or better to 95 percent of those with an average of 2.00 or better. Again, in every category a larger percentage of students from the original group would be admitted. From 2 to 12 percent fewer physically disabled students would be eligible on the basis of HSGPA alone.

SAT total score. The percentage of physically handicapped students admitted to college on the basis of SAT total score alone ranged from a low of 12 percent of students with a total score of 1,100 or better to a high of 97 percent of students with a total score of 500 or more. The difference between physically disabled students and college-bound seniors in general ranged from one percent for the least restrictive criterion (SAT > 500) to 18 percent for SATs of 900 or better.

Of the three single-index criteria, the SAT total score produced the greatest differences between physically handicapped students and the original group of college-bound seniors, although the differences were not very great.

#### Multiple-Index Minimmms

In this model of admissions policies two scores are identified, both of which are used as admissions criteria. We will first examine minimum scores involving high school rank and SAT total scores, then look at high school GPA and SAT score.

High school rank and SAT total score minimmms. Table 4-21 presents the admissions rates for physically disabled students based on rank and SAT score. From 9 to 33 percent of disabled students would qualify if students

were required to be in the upper fifth of their classes. From 11 to 58 percent would qualify in the upper two-fifths and from 12 to 89 percent in the upper three-fifths. From 6 to 18 percent fewer physically handicapped students than college-bound seniors would be eligible for admission to college using high school rank and SAT score minimums.

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Insert Table 4-21 about here

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High school GPA and SAT total score minimums. Table 4-22 presents the admission rates of the physically disabled students in our study when admission is based on high school grade-point average plus a total SAT score. When admissions policies require a GPA of 3.00 or better--a B average--plus an SAT score ranging from 1,100 down to 500--from 10 to 46 percent of disabled students would meet the criteria. Those percentages increase as the criteria are lowered and range from 12 to 92 percent when the HSGPA is 2.00 or better.

The differences between physically handicapped students and those in the original study remain fairly consistent across the three sets of categories presented in this table: from 6-15 percent fewer disabled students associated with HSGPAs of 3.00 or better to 3-17 percent fewer with HSGPAs of 2.00 or better.

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Insert Table 2-22 about here

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Either-or Minimums

This admission model allows for eligibility if a minimum score is reached on either one of the two criteria. The two models described in this section are based on SAT total scores with either high school rank or high school GPA.

Either rank or SAT score minimums. Table 4-23 presents the eligibility information for physically disabled students based on minimum scores on either high school rank or SATs. If the policy requires students to be in the upper fifth of their class or have an SAT total score ranging from 1100 down to 700, the admissions rates for physically handicapped students ranged from 36 to 76 percent. If the class rank requirement is lowered to the upper two-fifths, 60 to 82 percent of physically disabled students were eligible. And if the class rank requirement is lowered to the upper three-fifths, from 91 to 95 percent of students with physical disabilities would become eligible. Smaller percentages of disabled students than college-bound seniors in this study meet the eligibility requirements. The differences in the top category (upper-fifth) range from 11-13 percent, those in the middle category (upper two-fifths) from 8-13 percent, and those in the bottom category (upper three-fifths) from 3-6 percent

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Insert Table 4-23 about here

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Either high school GPA or SAT minimums. Table 4-24 presents the admission rates for physically disabled students when either a minimum GPA or

SAT score is the admissions policy. Requirements of either a GPA of 3.0 or an SAT ranging from 1100 down to 700 would allow 48 to 78 percent of physically handicapped students to be eligible for admission, and lowering the GPA requirement raises those percentages considerably. Again, smaller percentages of disabled students than college-bound seniors meet the eligibility requirements. The differences in the top category (HSGPA > 3.00) range from 10 to 12 percent and fall to 2 percent for HSGPAs > 2.00.

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Insert Table 4-24 about here

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### Sliding Scales

Sliding scales make use of the same criteria--SAT score and high school rank or GPA—but in a slightly different way. There are different minimums on each of the criteria at different levels of performance. For example, if high school rank is high enough no SAT may be required, and conversely, if SATs are high enough one could rank in the lowest fifth. We will look at five sliding scales: three based on rank and SAT, and two based on high school GPA and SAT.

Rank & SAT sliding scales. Table 4-25 presents the eligibility rates for physically disabled students under three sliding scales using high school rank and SAT total score. If sliding scale A were used, only 49 percent of physically disabled students would be eligible, compared to 64 percent of college-bound seniors. Under sliding scales B and C the admission rates for physically disabled students increase to 57 percent and 68 percent respectively. Admission rates for disabled students are 12-15 percent lower than the rates for college-bound seniors.

admission to these institutions. The rates for the original group ranged from 40 to 69 percent. In general, from 10% to 28% fewer disabled students were eligible for admission, although in one school the admission rate for physically disabled students was slightly better than the admission rate for seniors.

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Insert Table 4-27 about here

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#### A Comparison of Admission Models

Table 4-28 presents a comparison of admissions models limited to situations where about three-quarters of white college-bound seniors in Breland's original study would be admitted. In these situations from 51 to 62 percent of physically disabled students would be eligible for admission.

The differences between the admission rates for the original group of college-bound seniors found the physically disabled group are fairly consistent across the different models and range from 11 percent to 16 percent fewer disabled students.

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Insert Table 4-28 about here

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admission to these institutions. The rates for the original group ranged from 40 to 69 percent. In general, from 10% to 28% fewer disabled students were eligible for admission, although in one school the admission rate for physically disabled students was slightly better than the admission rate for seniors.

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Insert Table 4-27 about here

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#### A Comparison of Admission Models

Table 4-28 presents a comparison of admissions models limited to situations where about three-quarters of white college-bound seniors in Breland's original study would be admitted. In these situations from 51 to 62 percent of physically disabled students would be eligible for admission.

The differences between the admission rates for the original group of college-bound seniors found the physically disabled group are fairly consistent across the different models and range from 11 percent to 16 percent fewer disabled students.

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Insert Table 4-28 about here

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## CHAPTER 5

### Students with Visual Disabilities

In Chapter 5 we will first describe those visually disabled students who took special administrations of the SAT from 1980 to 1983 and who responded to the Student Descriptive Questionnaire. We will compare the findings on visually disabled students to those on college-bound seniors reported in Appendix A. Later in the chapter we will describe the college admission rates of these visually impaired students using several different models of college admissions policies. We will compare the admissions rates of the visually disabled students to the rates of college-bound seniors reported in Appendix B.

#### Student Descriptive Information

Over the four-year period from 1980 through 1983 almost 4 million college-bound seniors took the SAT. In the same period, about 1,700 males and more than 1,300 females identified themselves as having visual disabilities and took the SAT under special conditions including the use of braille, cassette, large-type or regular-type versions of the SAT, administered in a separate room with extended time and the services of a reader and recorder as necessary. About 70 percent of the visually impaired test takers completed the Student Descriptive Questionnaire. The more than 3000 visually impaired test takers, and the subset of more than 2,100 who completed the SDQ, form the data for the information presented here.

In the remainder of this chapter we will look at the SAT performance of these visually impaired students, their high school background, ethnicity,

parental income, college plans, extracurricular activities, and their reported skills and abilities.

#### Performance on the SAT

Table 5-1 presents the mean verbal and mathematical scores from special administrations of the SAT for students with visual disabilities.

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Insert Table 5-1 about here

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Over the four years of the study, visually impaired students earned SAT-Verbal means ranging from 392 in 1980 to 417 in 1981. Except in 1983 the mean scores of males were slightly higher than the mean scores of females. SAT-Mathematical means ranged from 424 in 1980 to 442 in 1981 and were consistently higher for males.

Compared to college-bound seniors (Appendix A), visually impaired students earned mean verbal scores from 7 points lower in 1981 to 32 points lower in 1980 and mean mathematical scores from 224 points lower in 1981 to 42 points lower in 1980.

The verbal subscores of Reading Comprehension and Vocabulary are presented in Table 5-2 and scores on the Test of Standard Written English (TSWE) in Table 5-3.

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Insert Tables 5-2 and 5-3 about here

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Reading Comprehension means range from about 0 to 42, Vocabulary means from about 39 to 42, and the TSWE means from about 39-41. The means for visually impaired students were consistently somewhat lower than the means for college-bound seniors and the distribution of scores showed a slightly larger percentage of visually impaired students scoring in the lowest category.

To summarize the SAT performance of visually impaired students from special SAT administrations, Table 5-4 presents the SAT means for the four years of the study and compares those means with the mean scores of that subset of students who responded to the Student Descriptive Questionnaire. About 70 percent of visually impaired students completed the SDQ and their means were 10 points higher on the Verbal score and 16 points higher on the Mathematical score.

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Insert Table 5-4 about here

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Over all four years of the study the mean Verbal score for visually impaired students was 404 with a standard deviation of 110, compared to a mean of 425 and a standard deviation of 110 for college-bound seniors. The SAT-V mean for visually impaired students was about one-fifth of a standard deviation below that of college-bound seniors.

The analogous mathematical means were 434 for visually impaired students with a standard deviation of 128 and 467 for college-bound seniors with a standard deviation of 117. Visually disabled students earned an SAT mean more than one-quarter of a standard deviation below that of college-bound seniors.

### High School Background

In this section we will cover the type of high school attended by visually impaired students, their high school grades, the average number of years of study in six curricular areas, self-reported class rank, and estimated high school grade-point average (HSGPA).

Type of high school. Table 5-5 presents information on public vs. private high schools. Over the four years of this study about 75 percent of visually impaired students attended public rather than private high schools—a percentage slightly lower than the 80 to 82 percent for college bound seniors.

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Insert Table 5-5 about here

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Grades. Table 5-6 presents the latest reported high school grades (for 1980-83) for visually disabled students in six academic areas: English, mathematics, foreign language, biological sciences, physical sciences, and social studies. On a four-point scale where D equals one and A equals 4, visually impaired students average from a B to B- in all six areas. The lowest grades occurred in mathematics where the means ranged from 2.65 to 2.75.

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Insert Table 5-6 about here

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Compared to college-bound seniors, visually impaired students (Appendix A) reported grades .09 to .26 grade points lower. Except in foreign language where the percentage of honors courses was about equal, a larger percentage of college-bound seniors than visually impaired students reported being in honors courses. A smaller percentage of visually impaired students reported earning As—a finding consistent across years and curriculums. Although visually impaired college candidates from special SAT administrations consistently earned lower grades, the differences between their grade and those of college-bound seniors were practically speaking, quite small.

Years of study. Table 5-7 presents the number of years of study in each of the six curriculums by students with visual disabilities. They reported, on average, four years of English, more than three years of mathematics and social studies, more than two years of foreign language, more than a year and a half of physical science and more than a year of biological science. Compared to college-bound seniors in general, visually impaired students had marginally more social studies, equal amounts of English, and slightly less work in the other four areas. A comparison of students with no courses in each of the curriculums revealed that visually impaired students were slightly less likely than college-bound seniors to have had foreign language or physical science.

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Insert Table 5-7 about here

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Class Rank. The self-reported class rank of visually impaired college candidates during the four years of the study are presented in Table 5-8 together with the mean SAT scores associated with those ranks.

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Insert Table 5-8 about here

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From 16 to 19 percent of visually impaired students reported themselves to be in the top-tenth of their classes and an additional 17 to 18 percent ranked themselves in the second tenth. Those percentages were, in general, four or five percentage points lower than those of college-bound seniors. Slightly larger percentages of visually impaired students ranked themselves in the lower three categories.

A fairly consistent pattern of association was observed between the class ranks of visually disabled students and their verbal and mathematical scores on the SAT. Students who ranked themselves in the highest categories had considerably higher SAT scores than those who ranked themselves in the lowest categories.

Compared to the SAT means associated with the rankings of college-bound seniors (Appendix A), visually impaired students more frequently earned slightly lower mean scores. However, in 1981 their mean scores were

consistently higher for SAT-Verbal and more often higher than lower for SAT-Mathematical.

Estimated HSGPA. The estimated high school grade-point averages for visually impaired students are presented in Table 5-10. Their mean HSGPAs range from 2.75 to 2.84 for males, 2.90 to 2.97 for females, and 2.84 to 2.88 over all. The mean HSGPA for all college-bound seniors is 3.06 with a standard deviation of .60 (Appendix A), so the grades of the disabled students are about one-third of a standard deviation lower.

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Insert Table 5-9 about here

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In summary, the data on the background of the visually impaired students in this study show that compared to the college-bound seniors a slightly lower percentage attend public schools. Visually impaired students had roughly equal amounts of coursework except that slightly fewer had studied foreign languages and physical science. Slightly fewer ranked themselves in the top two categories, and slightly more ranked themselves in the lower three categories. Their high school grade-point averages were one-third of a standard deviation lower, although practically speaking, the differences were not great.

### Ethnicity

The ethnic backgrounds of visually impaired students in this study are presented in Table 5-10. From 85 to 88 percent of visually impaired students classified themselves as White, from 6 to 8 percent as Black, and over all



between 12 and 15 percent minority. The percentage of visually impaired minority students was from three to six percent lower than its distribution in the population of college-bound seniors (Appendix A).

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Insert Table 5-10 about here

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### Parental Income

The median parental income of students with visual disabilities is presented in Table 5-11 for all students and for the subgroups of Black and White students. The median parental income of visually impaired students increased over the four years from 1980 to 1983. The median income for White families ranged from almost \$24,000 to almost \$32,000, for Black families from \$12,300 to \$18,500, and for the total group from \$12,600 to \$31,000. The family income of Black visually impaired students was consistently much lower than the family income for White students. Compared to the median family income of college-bound seniors, the family income of visually impaired students was sometimes higher and sometimes lower.

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Insert Table 5-11 about here

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The distribution of income shown in Table 5-11 indicates that from 11 to 17 percent of the families of visually impaired students had incomes below \$12,000, while from 35 to 52 percent had incomes above \$30,000. From 13 to 18

percent of college-bound seniors (Appendix A) reported incomes below \$12,000, and 30-48 percent above \$30,000. Slightly fewer visually impaired students reported family incomes in the lowest category and slightly more recorded income in the highest category.

The mean parental income associated with the SAT scores of visually impaired students is presented in Table 5-12. For students whose SAT scores averaged from 350-399, mean family income was almost \$33,000. Mean income rose to \$45,200 for students whose SAT scores ranged from 600-649.

### College Plans

In this section we will report on students' degree goals, plans to ask for special assistance, intended fields of study, plans to apply for advanced placement, and college housing preferences.

Degree goals. The degree goals of students with visual impairment are presented in Table 5-13. From 5 to 7 percent planned on a two-year program degree and from 40-44 percent planned on graduate study. Those percentages differ only slightly from those of college-bound seniors, 5 to 6 percent of whom plan on two-year programs and 42 to 44 percent of whom plan on graduate work.

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Insert Table 5-13 about here

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Special assistance. Plans by visually impaired students to ask for special assistance for areas of need are presented in Table 5-14. From 81% to 83% planned to seek aid—a percentage similar to that of college-bound

seniors. In every category except part-time work, a higher percentage of visually impaired students than college-bound seniors planned to seek special assistance. About 47 percent of visually impaired students planned to seek educational counseling. More than one-third planned on seeking vocational counseling and part-time works. About one-quarter indicated a need for assistance in the areas of math, reading, writing, and study skills. About 10 percent planned on seeking personal counseling.

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Insert Table 5-14 about here

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Intended fields of study. A summary of the first-choice intended fields of study of visually impaired students from special SAT administrations is presented in Table 5-15, together with the mean SAT scores associated with each choice.

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Insert Table 5-15 about here

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The five most popular choices among visually impaired males were business & commerce (almost 17 percent), computer science/systems analysis (almost 13 percent), engineering (11.5 percent), communications (78.6 percent), and social sciences (7.4 percent). About equal percentages of visually impaired students and college-bound seniors in general selected social studies for their first choice. A smaller percentage of visually impaired students

selected engineering (about half) and business while larger percentages selected communications (more than double) and the growing field of computer science/systems analysis.

The five most popular fields for visually impaired females were education (almost 17 percent), business & commerce (13 percent), health & medical (almost 12 percent), social studies (9 percent) and psychology (almost 9 percent). Compared to college-bound seniors in general, a smaller percentage of visually impaired students selected business or health-related fields and a larger percentage selected education (about double), social sciences, and psychology.

Over all, the most popular choices for visually impaired students were business (15 percent), education (9.8 percent), computer science (9.5 percent), social sciences (8.2 percent), and health (7.8 percent). Compared to the college-bound seniors, visually impaired students less often selected business and health fields and more often selected education and computer science. For these five choices, visually impaired students had mean SAT scores lower than the scores for college-bound seniors (Appendix A), except for the field of computer science, in which their verbal mean was higher.

Advanced placement. Information on the plans of visually impaired students to apply for advanced placement or college credit is presented in Table 5-16. Compared to college-bound seniors, a smaller percentage of the visually impaired students planned to apply for advanced placement in six of the seven listed areas: English, mathematics, foreign languages, biological sciences, physical sciences, and social sciences. In art & music about equal percentages planned on advanced placement.

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Insert Table 5-16 about here

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Housing preferences. The college-housing preferences of visually impaired students are presented in Table 5-17. Their preferences ranked from high to low, were a college dormitory (67 percent), home (18 percent), their own apartment (13 percent), and a fraternity or sorority (2 percent). A larger percentage of visually impaired students than college-bound seniors (Appendix A) opted for dormitory living with about 5 percent more selecting single-sex dorms and an additional 5 percent more selecting coed dorms.

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Insert Table 5-17 about here

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To summarize the college plans of visually impaired students in this study, about six percent planned on a two-year program and more than forty percent planned on graduate studies. Almost seventy percent planned to apply for advanced placement in at least one curriculum and more than eighty percent planned to request special assistance for academic skills, counseling, or part-time work. Four of their top five choices for a field of study overlapped with the top five choices for college-bound seniors. Practically speaking, the college plans of visually impaired students differed only modestly from those of college-bound seniors in general, although the mean SAT scores associated with field of study tended to be somewhat lower.

#### Extracurricular activities

Table 5-18 presents the extracurricular activities of visually impaired students in high school and their plans for work activities in college.

Almost fifty percent had been active in athletics in high school, 45 percent had been active in art, music, or dance; about 41 percent had been active in social or community clubs; and about one-third had been active in religious organizations or had participated in journalism, debating or dramatics. About 22 percent were active in student government, about 14 percent participated in departmental or preprofessional clubs, and about 6 percent belonged to ethnic organizations. They planned on roughly equal or slightly less participation in college except for increased participation in departmental or preprofessional clubs and considerably decreased participation in athletics.

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Insert Table 5-18 about here

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When compared to college-bound seniors, the only percentage differences of five percent or more were a 20 percent difference in athletic activity--with fewer visually impaired students participating--and five percent differences favoring the college participation of visually impaired students in journalism, debating or dramatics and in departmental or preprofessional clubs.

### Skills and Abilities

The self-reported skills and abilities of students with visual impairments are presented in Table 5-19 in two categories: top ten percent and above average.

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Insert Table 5-19 about here

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More than 50 percent of visually impaired students classified themselves in the top ten percent in ability to get along with others and one-third reported being in the top ten in leadership and spoken expression. More than one-quarter ranked themselves in the top ten percent in written expression and organizing for work, while more than twenty percent reported being in the top ten percent in creative writing, mathematics, music, sales, or science.

More than 80 percent of visually impaired students felt they were above average in getting along with others. More than sixty percent reported being above average in spoken expression, written expression, organizing for work, and leadership.

Compared to the college-bound senior, a marginally higher percentage of visually impaired students reported abilities in music and spoken expression. In general the percentages for visually impaired students were slightly lower except in athletics where the differences were twelve percent fewer visually impaired students in the top ten percent in athletics and nineteen percent fewer above average in athletics.

#### College Admissions Rates

In this section of Chapter 5 we will discuss the college admission rates of those visually impaired students who took special administrations of the SAT from 1980 to 1983. We will use our data on visually impaired students in several different models of college admissions policies: models based on single-index minimums, multiple-index minimums, either-or minimums, sliding

scales, and predicted performance originally reported by Breland (1985) for Blacks, Whites, and Hispanics. Breland's original tables are presented in Appendix B.

Although Breland's work differentiated among Black, White, and Hispanic test takers, for the purposes of this study we have combined the data from Breland's three groups. We will compare the admission rates of visually impaired students with those of Breland's total population.

### Single-Index Minimums

Some educational institutions may base admissions policies on a single criterion, e.g. high school rank, high school grade-point average, or SAT total score. Table 5-20 presents the admissions rates of 1980-1983 visually impaired students if single-index minimums were used and compares those rates with the rates of the 1983 sample of more than 95,000 college-bound seniors in Breland's study.

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Insert Table 5-20 about here

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High school rank. The percentage of learning-disabled students eligible for admission on the basis of high school rank alone ranged from a low of 35 percent of the top one-fifth to a high of 98 percent of the top four-fifths. In all cases compared to the students in the original study, a smaller proportion of visually impaired students would be admitted. The differences in percentages between the two groups ranged from 2 to 12 percentage points.



High school grade-point average. On the basis of HSGPA alone, the percentage of eligible visually impaired students ranged from 19 percent of those with an average of 3.50 or better to 93 percent of those with an average of 2.00 or better. Again, in every category a larger percentage of students from the original group would be admitted. From 4 to 14 percent fewer visually impaired students would be eligible on the basis of HSGPA alone.

SAT total score. The percent of visually impaired students admitted to college on the basis of SAT total score alone ranged from a low of 15 percent of students with a total score of 1,100 or better to a high of 98 percent of students with a total score of 500 or more. Although there is no difference between visually impaired students and college-bound seniors in the lowest category, small differences exist in all other categories, with the maximum difference reaching 9 percent.

Overall, the differences among the three single-index minimums are not great.

### Multiple-Index Minimums

In this model of admissions policies two scores are identified, both of which are used as admissions criteria. We will first examine minimum scores involving high school rank and SAT total scores, then look at high school GPA and SAT score.

High school rank and SAT total score minimums. Table 5-21 presents the admissions rates for visually impaired students based on rank and SAT score. From 12 to 34 percent of visually impaired students would qualify if students were required to be in the upper fifth of their classes. From 14 to 59 percent would qualify in the upper two-fifths and from 15 to 90 percent in the upper three-fifths. From 3 to 10 percent fewer visually disabled students

would qualify in the upper fifth category, 4 to 12 percent fewer in the upper two-fifths category, and from 4 to 9 percent fewer in the upper three-fifths category.

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Insert Table 5-21 about here

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High school GPA and SAT total score minimums. Table 5-22 presents the admission rates of the visually impaired students in our study when admission is based on high school grade-point average plus a total SAT score. When admissions policies require a GPA of 3.00 or better—a B average—plus an SAT score ranging from 1,100 down to 500—from 13 to 44 percent of visually impaired students would meet the criteria. Those percentages increase as the criteria are lowered. From 3 to 15 percent fewer visually impaired students with HSGPAs greater than 3.00 would qualify for admission. Those odds against visually impaired students improve slightly at lower HSGPA levels.

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Insert Table 5-22 about here

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#### Either-Or Minimums

This admission model allows for eligibility if a minimum score is reached on either one of the two criteria. The two models described in this section are based on SAT total scores with either high school rank or high school GPA.

Either rank or SAT score minimums. Table 5-23 presents the eligibility information for visually impaired students based on minimum scores on either high school rank or SATs. If the policy requires students to be in the upper fifth of their class or have an SAT total score ranging from 1100 down to 700, the admissions rates for visually impaired students range from 38 to 80 percent. If the class-rank requirement is lowered to the upper two-fifths, 61 to 85 percent of visually impaired students are eligible. And if the class-rank requirement is lowered to the upper three-fifths, from 92 to 95 percent of students with visual impairments become eligible. Smaller percentages of visually impaired students than college-bound seniors in this study meet the eligibility requirements. The differences in the top category (upper-fifth) range from 7 to 11 percent, those in the middle category (upper two-fifths) from 5 to 12 percent, and those in the bottom category (upper three-fifths) from 3 to 5 percent.

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Insert Table 5-23 about here

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Either high school GPA or SAT minimums. Table 5-24 presents the admission rates for visually impaired students when either a minimum GPA or SAT score is the admissions policy. Requirements of either a GPA of 3.0 or an SAT ranging from 1100 down to 700, would allow 46 to 81 percent of visually disabled students to be eligible for admission, and lowering the GPA requirement raises those percentages considerably. Again, smaller percentages of visually impaired students than college-bound seniors in the previous study would meet the eligibility requirements. The differences in the top two

categories—7 to 13 percent and 5 to 11 percent—are more extreme than the differences in the lowest category—2 to 4 percent.

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Insert Table 5-24 about here

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In both either/or models, the greatest differences tend to occur in the highest performance categories and as the criteria are lowered, differences in admission rates are also lowered. In general, the more rigorous the standards, the greater the difference in admission rates.

### Sliding Scales

Sliding scales make use of the same criteria—SAT score and high school rank or GPA—but in a slightly different way. There are difference minimums on each of the criteria at different levels of performance. For example if high school rank is high enough no SAT may be required, and conversely if SATs are high enough one could rank in the lowest fifth. We will look at five sliding scales: three based on rank and SAT, and two based on high school GPA and SAT.

Rank & SAT sliding scales. Table 5-25 presents the eligibility rates for visually impaired students under three sliding scales using high school rank and SAT total score. If sliding scale A were used, only 51 percent of visually impaired students would be eligible, compared to 64 percent of college-bound seniors. Under sliding scales B and C the admission rates for visually disabled students increase to 60 percent and 71 percent respectively. Admission rates for visually impaired students are 9 to 13 percent lower than the rates for college-bound seniors.

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Insert Table 5-25 about here

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High school GPA & SAT sliding scales. Table 5-26 presents eligibility rates using sliding scales D and E based on high school GPA and on SAT total score. Under sliding scale D, 49 percent of visually disabled students are eligible compared to 62 percent of college-bound seniors—a difference of 13 percent. Under sliding scale E, 67 percent of visually impaired candidates are eligible compared to 80 percent of seniors—a difference of 13 percent.

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Insert Table 5-26 about here

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### Predicted Performance

The final model used in these admissions studies are the actual regression models based on the past performance of students in 10 specific institutions. Table 5-27 gives the eligibility rates when visually impaired candidates in our sample were considered as hypothetical applicants to each of the 10 representative state institutions located in 10 different states and when the institutions planned to accept only students who would earn a predicted freshman GPA of 2.5 or better. To preserve their anonymity, the institutions are described only by region of the country and by their rank (among the 10) with respect to the mean GPA and SAT scores of entering students. From 28 to 56 percent of visually impaired students would be

eligible for admission to these institutions. The rates for the original group ranged from 40 to 69 percent. In general from 10 to 27 percent fewer visually impaired students were eligible for admission, although in one institution the admission rates were equal.

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Insert Table 5-27 about here

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#### A Comparison of Admission Models

Table 5-28 presents a comparison of admissions models limited to situations where about three-quarters of white college-bound seniors in Breland's original study would be admitted. In these situations from 55 to 66 percent of visually impaired students are eligible for admission.

The differences between the admission rates for the original group of college-bound seniors and the visually impaired group are fairly consistent across the different models and range from 10 to 14 percent fewer disabled students. SAT scores do not appear to affect the admissions potential of visually impaired students adversely since the smallest difference is associated with the SAT.

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Insert Table 5-28 about here

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## CHAPTER 6

### College-Bound Seniors and Handicapped Youth: A Comparison

This chapter highlights some of the information already given in Chapters 2-5 and presents it in such a way that comparisons can easily be made across groups of individuals. In the first section we will look at descriptive information and in the second section at college-admissions models.

#### Comparing Descriptive Information

In this section we will look at SAT test performance, high school performance, curriculum information, degree goals, ethnicity, parental income, public vs. private schools, and extracurricular activities.

#### Test Performance

The numbers of test takers--college-bound seniors and students with hearing impairments, learning disabilities, physical handicaps, and visual impairments--together with their SAT-Verbal and -Mathematical means are presented in Table 6-1.

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Insert Table 6-1 about here

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Disabled students who take special test administrations form only a very small subgroup of the total population of SAT test takers. Only one in every 5,200 has a hearing impairment, one in 3,500 a physical handicap, and one in 1,300 a visual disability. Learning-disabled students are the largest group

in this study, with one LD candidate from a special administration for all 390 college-bound seniors tested.

College-bound seniors earn mean scores higher than the means for disabled students. Compared to the SAT-Verbal mean for 425 for college-bound seniors, disabled students earned mean scores ranging from 291 for hearing-impaired individuals to 404 for visually impaired test takers. Compared to the SAT-Mathematical mean of 467 for college-bound seniors, disabled students earned mean scores ranging from 375 for hearing-impaired candidates to 434 for visually impaired persons.

In general, visually impaired and physically handicapped students earn SAT scores somewhat lower than those of college-bound seniors and higher than those of learning-disabled or hearing-impaired test-takers. Among groups of disabled test takers, hearing-impaired students earn the lowest SAT scores. About 89 percent of college-bound seniors earn SAT-Verbal scores above the mean for hearing-impaired test takers and 79% of seniors earn SAT-Mathematical scores above their math mean. Visually impaired college candidates earn the highest scores among disabled test takers. Only 58 percent of seniors earn higher SAT-Verbal scores, and only 61 percent earn higher SAT-Mathematical scores than the means for visually impaired students.

### High School Background

The numbers of students contributing information on high school performance together with information on high school grades and class rank are presented in Table 6-2.

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Insert Table 6-2 about here

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Numbers. College-bound seniors are more likely than disabled students to supply information on their high school performance. Whereas 93 percent of seniors supplied that information, only 62 to 72 percent of disabled test takers did.

High school grades. Of the disabled students who responded, learning-disabled students had the lowest grade-point average (2.52) and physically handicapped students had the highest (2.89). None of the groups of disabled students earned high school grades as high as the college-bound seniors' 3.06. In fact, 82 percent of the seniors earned grades higher than the mean for learning-disabled students. In general the mean grades of physically handicapped, visually impaired, and hearing impaired students were quite similar and were closer to the mean grade for college-bound seniors than that for learning disabled students.

Class rank. Higher percentages of college-bound seniors than disabled students reported themselves to be in the top tenth, second tenth or second fifth of their classes. In the three lowest categories of class rank, learning-disabled students reported the highest percentages. The visually impaired, physically handicapped, and hearing-impaired students had class ranks fairly similar to one another, and fell between the two extremes, generally closer to the college-bound seniors than the learning-disabled students.

The SAT scores associated with rank in class show similar patterns for all groups. High class rank is associated with high test scores and the lowest test scores exist for students in the lowest fifth of their classes. The two measures help to validate one another as indices of student performance. The only group for which the data are not completely consistent

is the group of hearing-impaired students. This group is the smallest, and has the lowest mean SAT scores. The SAT scores of hearing-impaired students describing themselves as being in the second tenth of their classes appear to be somewhat out of line. Nevertheless the pattern of association can still be seen.

### Curriculum Information

One question that needs to be considered is whether the lower grades and test scores for disabled students might be a function of the number and kinds of courses they took in high school. In order to look at this issue more closely, we will examine six curriculum areas: English, mathematics, foreign languages, biological sciences, physical science, and social studies. Within these curriculum areas, we will examine mean self-reported grades (Table 6-3a), mean number of years of study (Table 6-3b), and the percentage of students reporting no years of study (Table 6-3c).

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Insert Table 6-3 about here

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Paralleling the information on the high school grade-point average, self-reported grades of college-bound seniors are the highest across all curriculums and those for learning-disabled students are the lowest. Another clear pattern in the data is that social studies classes tend to give the highest scores, followed by English. For college-bound seniors--and physically handicapped and visually impaired students--mathematics and physical science are the hardest areas. For hearing-impaired students

biological sciences appear to be most difficult and for learning-disabled students foreign languages are associated with lowest grades.

Looking at the number of years of study in each of the curriculum areas, there is only a slight indication that college-bound seniors have had more coursework than disabled students. The numbers are very close, however, and only in the area of foreign languages do disabled students appear to have much less coursework. The differences appear to be associated with the percent of students who report no years of study.

All—or almost all—students report having coursework in English, mathematics and social studies. In the remaining areas where 5 to 14 percent of college-bound seniors report no coursework, an even larger percentage of disabled youth report no coursework. In the biological sciences the percentages for disabled students are within one or two points of college-bound seniors. In physical science three to four percent more disabled students than nonhandicapped students report no coursework. In the area of foreign languages, though, the differences are much greater. Whereas 14 percent of college-bound seniors report no foreign-language study, 19 percent of visually impaired, 24 percent of physically handicapped, 42 percent of learning disabled, and 58 percent of hearing-impaired youth took no foreign language study.

#### Degree Goals

The degree goals of college-bound seniors and handicapped youth are presented in Table 6-4.

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Insert Table 6-4 about here

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About forty percent of college-bound seniors initially aim for graduate study, with an additional one-third satisfied with a BA or BS degree, and five or six percent heading toward a two-year program. Larger percentages of hearing-impaired and learning-disabled students opt for two-year or four-year programs and fewer aim for graduate study. The goals of visually impaired and physically handicapped students appear similar to those of college-bound seniors.

### Ethnicity

The percentage of minority students within groups of college-bound seniors and handicapped youth are presented in Table 6-5.

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Insert Table 6-5 about here

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About 18 or 19 percent of college-bound seniors are minority students, and the percentages appear to be growing slowly over the four years of the study. A smaller proportion of minorities appear in the groups of disabled students. Within the four groups of disabled students, the highest percentages of minority students appear among visually impaired students and the lowest percentage of minority individuals among learning-disabled students. Except perhaps among the hearing-impaired students, there appears to be no pattern of increasing numbers of minority students over the years.

One cannot tell from the data why there are fewer minority students among the disabled population. Perhaps minority status combined with a disability reduces the probability that an individual will take the SAT as a part of the

college admissions process. Whether minority students with a disability choose not to go to college or choose to go to a community college or a four-year college where no SAT is required, we have no way of knowing. It is unlikely that disabilities are less prevalent in the minority population.

### Parental Income

The mean family-income levels for college-bound seniors and handicapped youth are presented in Table 6-6a, and the percentages with incomes over \$30,000 are presented in Table 6-6b.

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Insert Tables 6-6a and 6-6b about here

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Except for physically handicapped youth the income levels of disabled students taking special administrations of the SAT tend to be higher than those of college-bound seniors. The families of college-bound seniors average more money than those of physically handicapped students but less than those of other disability groups. The families of visually impaired or hearing impaired students earn higher incomes than those of college-bound seniors but lower incomes than families of LD students. It is especially noticeable that the families of learning-disabled students are more affluent than those of the general population of test takers or the other disability groups.

From 30 percent to 48 percent of college-bound seniors come from families with an income over \$30,000. Similar percentages apply to parents of physically handicapped youth. From 31 to 50 percent of families of

hearing-impaired youth, and from 35 to 52 percent of families of visually impaired youth, report incomes over \$30,000. Learning-disabled youth report that 52 to 70 percent of their families have incomes above \$30,000. Perhaps well-to-do parents of learning disabled youth are more likely to put pressure on their disabled offspring to attend college. Or perhaps more affluent parents can send their disabled children to private schools that encourage college attendance.

#### Public vs. Private High Schools

Data on the public or private high school attendance of college-bound seniors and disabled youth are presented in Table 6-7.

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Insert Table 6-7 about here

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About 81 percent of college-bound seniors and physically handicapped youth attend public schools. About three-quarters of visually impaired students attend public school, as do about 70 percent of hearing-impaired students and 69 percent of LD youth. Relatively larger percentages of disabled youth attend private schools.

#### Extracurricular Activities

Table 6-8 presents the extracurricular activities of college-bound seniors and handicapped youth in high school.

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Insert Table 6-8 about here

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The percentage of visually impaired and physically handicapped youth who participated in athletics in high school was considerably lower than that for the general population. Aside from athletics the participation of visually impaired youth in extracurricular activities closely paralleled that of college-bound seniors. Physically handicapped youth were less likely to participate in art, music and dance, and social clubs. Hearing-impaired and learning-disabled youth participated in athletics about as much as college-bound seniors, but in other extracurricular activities.

#### College Admissions Models

In this section we will compare the effect of certain college admissions models on college-bound seniors and four groups of handicapped youth. The models and their effects on disabled students have been more fully described in Chapters 2 through 5. The fifteen models which in the original study accounted for the admission of about 75 percent of the White students in the study will be the focus of our comparisons. Those models include three with a single index—rank in the top two-fifths, a grade-point average greater than or equal to 2.75, and an SAT total score of 800 or better—and twelve other models that make use of some combination of rank, GPA, or SAT total score. Multiple-index models include two that make use of GPA and SAT scores and three that make use of class rank and SAT. Of the four either-or models three make use of rank and SAT scores; one makes use of GPA and SAT. One sliding scale is compared. Sliding scale B is defined as follows:

Upper Tenth, No SAT Minimums

Second Tenth SAT  $\geq$  500

Second Fifth, SAT  $\geq$  700

Third Fifth, SAT  $\geq$  900

Fourth Fifth, SAT  $\geq$  1100

Last Fifth, SAT  $\geq$  1300

The final two comparisons use the actual regression models from two state educational institutions. Institution A is in the Midwest and Institution B in the East. The comparison of admission rates of college-bound seniors and handicapped youth is presented in Table 6-9.

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Insert Table 6-9 about here

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The highest admission rate under all of the models is in the rate for the college-bound seniors in the original study. That finding should come as no surprise, since we already have learned that disabled students earn lower grades and lower SAT scores than the general population of college-bound seniors.

The lowest admission rates are shared by hearing-impaired and learning-disabled youth. Hearing-impaired students have the lowest admission rates in four categories. Only 23 percent are eligible under the single-index model using an SAT score of 800 or better. Two multiple-index models involving an SAT total score of 800 or better also hold the admission rates of hearing-impaired youth to 23 percent. Finally, only 32 percent are eligible when the multiple-index admissions model requires a GPA of 2.50 or better and



an SAT total of 700 or better. The basis for the lower acceptance rates of hearing-impaired students under these four models is primarily low SAT scores. Compared to single-index models using class rank and grade-point average, use of the SAT alone cuts the admission rate in half.

In the remaining eleven models, learning disabled youth have the lowest admissions rates. This is not surprising since learning-disabled students report the lowest grades and lowest class ranks of any groups of disabled students.

From a policy perspective, there are real differences in admissions rates of college-bound seniors in the original study and the four groups of handicapped youth in this study. Relatively small differences exist for visually impaired and physically handicapped youth for whom the range of differences is 9 percent to 14 percent and 11 percent to 16 percent, respectively. The larger differences exist for hearing-impaired youth--from 15 percent to 44 percent--and for learning-disabled youth--from 34 percent to 80 percent.

One way to consider the data is to look at the consistency of the three single-index measures in evaluating the admissions potential of disabled students. If the data seem fairly consistent, then each of the admissions criteria helps to support the other. Where the data appear inconsistent, further thought must be given to the reasons for the inconsistency. The differences among the three difference measures are small for three of the disability groups: 3 percentage points for physically handicapped youth and 5 points for learning-disabled and visually impaired young people. The differences among the three measures in the percentage eligible are similarly low for learning-disabled (2 points), visually impaired (3 points), and physically handicapped (5 points) youth. That consistency is not evident in the data for hearing-impaired youth. Differences in the percent eligible

range from 23 percent using SAT scores to 55 percent using class rank. Differences in the difference measures range from 15 to 45 percent.

Deaf students tend to cluster for their education both at the high school and the college level. In a recent validity study of the SAT (Braun, Ragosta, and Kaplan, 1986), data from disabled students were sought in more than 400 postsecondary institutions. Most of the hearing-impaired students were clustered at three institutions where heavy use is made of sign language. Frequently hearing-impaired students get their elementary and secondary education with the use of sign language. If students who have been taught and graded using a manual language are tested in English without the use of sign, it is not surprising that the test scores and grades are not consistent. Each may be an accurate estimate of the student's performance, but the performances themselves are very different. The use of an admissions test like the SAT may be inappropriate for students whose primary mode of communication is a manual one and whose postsecondary education will include the use of sign. In fact two of the institutions where deaf students clustered do not require the SAT. The third requires the SAT—or the ACT admissions test—if the high school grade-point average is not high enough.

CHAPTER 7  
Conclusion

In concluding this study we will return to the questions we proposed answering in the first chapter.

Are handicapped youth who request and receive special testing accommodations of the SAT as well prepared academically as college-bound seniors in general? Do they report equivalent years of study in subjects such as English, Mathematics, Foreign Language, Biological Sciences, Physical Sciences, and Social Sciences? Do they report similar distributions of class rank or grade-point averages?

In general, handicapped youth who request and receive special testing accommodations of the SAT are not as well prepared academically as college-bound seniors. Handicapped youth report equivalent years of study in English, mathematics, and social studies, but somewhat less study in biological and physical sciences. Many fewer disabled students take foreign languages where the differences were especially striking for learning-disabled and hearing-impaired youth.

The SAT performance of handicapped youth is below that for college-bound seniors in general. Visually impaired and physically handicapped youth earned SAT scores only slightly lower, but learning-disabled students were significantly lower. About three-quarters of college-bound seniors earned SAT scores higher than the mean scores of LD youth who took special test administrations. Hearing-impaired youth earned even lower SAT scores. Almost 90 percent of college-bound seniors earned SAT-Verbal scores higher than the

mean for hearing-impaired students, and almost 80 percent earned higher SAT-Mathematical scores.

With regard to high school grade-point average and class rank, disabled students again did not do as well as college-bound seniors. The high school performance of visually impaired, physically handicapped, and hearing-impaired youth was fairly similar—below that of college-bound seniors but above that of learning-disabled youth.

Do college-bound handicapped youth show equivalent patterns of participation in community and church groups, athletics, or high school clubs and organizations?

The participation of visually impaired and physically handicapped youth in athletics is considerably lower than that of college-bound seniors in general, and physically handicapped students are also less likely to participate in art, music and dance. Otherwise the patterns of participation of visually impaired and physically handicapped youth parallel that of the general population reasonably well.

Hearing-impaired and learning-disabled youth are about as active in athletics as the general population but are a little less likely to participate in most other extracurricular activities.

Do college-bound handicapped youth show the same ethnic distribution as college-bound seniors in the general population? Are there proportionately fewer minority handicapped youth seeking college admission?

There are relatively fewer minority handicapped youth taking special administrations of the SAT for college admissions. Whereas 18 to 19 percent of college-bound seniors taking the SAT are minority students, less than half

that percentage of learning-disabled students—only 7 percent in 1980, 8.6 percent in 1982—have minority status. The proportion of minority youth in the visually impaired group—about 13 percent—is the highest in any group of handicapped young people.

How does the parental income of college-bound handicapped youth compare to the parental income of the general college-bound population? Is college more often an option for the handicapped youth from relatively affluent families?

In general the parental income of college-bound handicapped youth exceeds that of the general population. Although the parental income of physically handicapped youth was slightly lower than that of college-bound seniors, parental income for the other three disabilities was higher. The highest incomes were reported by learning-disabled students whose families consistently had the highest income each year of the four-year study. It may be that college is more often a viable option for handicapped youth from relatively affluent families or it may be that relatively affluent parents put more pressure on their handicapped offspring to attend college.

Do admissions policies currently in use for postsecondary education have a differential impact on handicapped youth? Does the differential impact have its greatest effect on visually impaired, hearing-impaired, learning-disabled, or physically handicapped youth?

Under the admissions policies studied in the project--those making use of high school rank, high school grade-point average, SAT total score, or some combination of the three--handicapped youth who take special test accommodations are less likely than the general population to meet the admissions criteria. This in itself is not surprising since handicapped youth

tend to have poorer high school grades and lower SAT scores. The admissions rates for visually impaired or physically handicapped youth are generally 10 to 15 percent below the rates for college-bound seniors. The rates for learning disabled students are generally 35 percent to 40 percent lower. The admission rates for hearing-impaired students are much more variable, ranging from 15 percent to 45 percent lower than the rates for seniors in the general population.

How do the many admissions models differ in their impact on handicapped youth? Are there some models which reduce the degree of differential impact? How can differential impact be avoided?

For three groups of disabled students—learning-disabled, physically handicapped, and visually impaired youth—grades, rank, and SAT scores seem to produce fairly consistent admission rates or difference rates, independent of one another. That lends support to the assumption that all three are measuring similar underlying constructs. For hearing-impaired individuals, however, admission rates on the basis of class rank or high school grade-point average are much higher (53 and 55 percent) than the rate for SAT scores (only 23 percent). For hearing-impaired youth whose primary mode of communication and education makes use of sign language, the SAT may be inappropriate. If sign language and other support services are available in both high school and postsecondary education, a college admissions test which at present does not provide similar support services would seem not to meet the needs of deaf students. The final report of the ETS four-year study (Willingham et al., 1987) contains a recommendation that research be done on translating the SAT into sign language. Meantime ETS hopes to provide hearing-impaired test takers and college-admissions officers with more information on the SAT performance of hearing-impaired youth.

For most handicapped youth as well as the general population, either-or admission policies offer increased opportunities for acceptance. Under the either-or criteria an individual may be accepted if either one of two criteria are met. Bright students who have not been motivated to succeed in high school can be admitted on the basis of high test scores, while students who are overachievers but do not test well can be admitted on the basis of their grades. It must be pointed out, however, that the differences among the models within any disability category are not very great. Except for hearing-impaired youth, admissions rates within any disability group are remarkably consistent.

Differential admission rates as demonstrated in the admissions models used in this study do not necessarily mean that differential rates exist in fact. In a study of actual admissions decisions (Willingham et al., 1986, Chapter 6). hearing-impaired youth were more often admitted to college than were hearing students with similar qualifications. On the other hand, admission was lower than predicted for a relatively small number of visually impaired and physically handicapped students applying to smaller institutions, and learning disabled students who ranked in the mid- to upper- range among applicants at the college to which they applied were also slightly less likely to be admitted.

The differential admissions rates shown in this study are due to differences in student performance in high school and on the SAT. They are not differential rates due to the disability per se, although it is often very difficult to disentangle the performance from the disability. It is encouraging to find so much consistency across admissions models and to note that in some cases test scores offer increased opportunity for admissions. For hearing-impaired youth, however, we remain concerned that standardized

test scores put them at a disadvantage in the admission process. It is fortunate that special schools and special programs exist to help educate those whose primary mode of communication is sign.



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Table 2-1  
Special Test Administration Data

SAT Scores  
Students with a Hearing-Impairment

|                      | VERBAL |      |      |      | MATH |      |      |      |
|----------------------|--------|------|------|------|------|------|------|------|
|                      | '80    | '81  | '82  | '83  | '80  | '81  | '82  | '83  |
|                      | %      | %    | %    | %    | %    | %    | %    | %    |
| <b>Male Scores</b>   |        |      |      |      |      |      |      |      |
| 700 - 800            | 0.0    | 0.0  | 0.0  | 0.0  | 3.3  | 3.3  | 2.1  | 0.7  |
| 600 - 699            | 3.4    | 1.6  | 0.0  | 0.7  | 8.2  | 6.6  | 5.2  | 4.1  |
| 500 - 599            | 0.0    | 8.1  | 5.3  | 1.4  | 3.3  | 6.6  | 8.3  | 14.5 |
| 400 - 499            | 5.2    | 9.7  | 10.5 | 12.0 | 19.7 | 34.4 | 25.0 | 18.6 |
| 300 - 399            | 27.6   | 32.3 | 26.3 | 23.9 | 41.0 | 34.4 | 37.5 | 40.0 |
| 200 - 299            | 63.8   | 48.4 | 57.9 | 62.0 | 24.6 | 14.8 | 21.9 | 22.1 |
| Number               | 58     | 62   | 95   | 142  | 61   | 61   | 96   | 145  |
| Mean                 | 289    | 313  | 297  | 290  | 385  | 408  | 390  | 382  |
| S. D.                | 94     | 105  | 91   | 91   | 135  | 112  | 111  | 113  |
| <b>Female Scores</b> |        |      |      |      |      |      |      |      |
| 700 - 800            | 0.0    | 0.0  | 0.0  | 0.0  | 3.2  | 2.4  | 0.0  | 0.6  |
| 600 - 699            | 0.0    | 0.0  | 0.0  | 0.6  | 1.6  | 3.5  | 3.2  | 1.9  |
| 500 - 599            | 0.0    | 8.3  | 1.1  | 1.9  | 4.8  | 9.4  | 5.4  | 3.7  |
| 400 - 499            | 9.8    | 7.1  | 9.9  | 10.1 | 22.2 | 28.2 | 21.5 | 17.4 |
| 300 - 399            | 26.2   | 22.6 | 26.4 | 22.0 | 41.3 | 40.0 | 43.0 | 42.2 |
| 200 - 299            | 63.9   | 61.9 | 62.6 | 65.4 | 27.0 | 16.5 | 26.9 | 34.2 |
| Number               | 61     | 84   | 91   | 159  | 63   | 85   | 93   | 161  |
| Mean                 | 281    | 304  | 286  | 279  | 367  | 393  | 357  | 346  |
| S. D.                | 77     | 100  | 77   | 86   | 114  | 109  | 90   | 91   |
| <b>Total Scores</b>  |        |      |      |      |      |      |      |      |
| 700 - 800            | 0.0    | 0.0  | 0.0  | 0.0  | 3.2  | 2.7  | 1.1  | 0.7  |
| 600 - 699            | 1.7    | 0.7  | 0.0  | 0.7  | 4.8  | 4.8  | 4.2  | 2.9  |
| 500 - 599            | 0.0    | 8.2  | 3.2  | 1.7  | 4.0  | 8.2  | 6.9  | 8.8  |
| 400 - 499            | 7.6    | 8.2  | 10.2 | 11.0 | 21.0 | 30.8 | 23.3 | 18.0 |
| 300 - 399            | 26.9   | 26.7 | 26.3 | 22.9 | 41.1 | 37.7 | 40.2 | 41.2 |
| 200 - 299            | 63.9   | 56.2 | 60.2 | 63.8 | 25.8 | 15.8 | 24.3 | 28.4 |
| Number               | 119    | 146  | 186  | 301  | 124  | 146  | 189  | 306  |
| Mean                 | 285    | 308  | 292  | 284  | 375  | 400  | 374  | 363  |
| S. D.                | 86     | 102  | 85   | 88   | 125  | 111  | 103  | 103  |

Table 2-2  
Special Test Administration Data

SAT Verbal Subscores  
Students with a Hearing Impairment

|                     | READING COMPREHENSION |      |      |      | VOCABULARY |      |      |      |
|---------------------|-----------------------|------|------|------|------------|------|------|------|
|                     | '80                   | '81  | '82  | '83  | '80        | '81  | '82  | '83  |
|                     | %                     | %    | %    | %    | %          | %    | %    | %    |
| <b>Male Scores</b>  |                       |      |      |      |            |      |      |      |
| 70 - 80             | 0                     | 0    | 0    | 0    | 0          | 0    | 0    | 0    |
| 60 - 69             | 3                     | 0    | 1    | 0    | 2          | 3    | 0    | 1    |
| 50 - 59             | 2                     | 13   | 3    | 3    | 5          | 5    | 7    | 3    |
| 40 - 49             | 12                    | 7    | 13   | 11   | 5          | 18   | 14   | 10   |
| 30 - 39             | 22                    | 27   | 25   | 28   | 28         | 26   | 25   | 28   |
| 20 - 29             | 61                    | 53   | 58   | 58   | 60         | 48   | 54   | 58   |
| Number              | 58                    | 62   | 95   | 142  | 60         | 62   | 96   | 142  |
| Mean                | 29.7                  | 31.7 | 30.2 | 29.3 | 30.1       | 32.3 | 31.4 | 30.4 |
| S. D.               | 10.3                  | 10.4 | 9.1  | 8.9  | 10.1       | 10.8 | 9.3  | 9.3  |
| <b>Female Score</b> |                       |      |      |      |            |      |      |      |
| 70 - 80             | 0                     | 0    | 0    | 0    | 0          | 0    | 0    | 0    |
| 60 - 69             | 0                     | 1    | 0    | 0    | 0          | 2    | 1    | 1    |
| 50 - 59             | 2                     | 5    | 2    | 2    | 3          | 4    | 1    | 4    |
| 40 - 49             | 13                    | 13   | 7    | 11   | 8          | 14   | 11   | 11   |
| 30 - 39             | 26                    | 20   | 34   | 19   | 25         | 25   | 29   | 19   |
| 20 - 29             | 59                    | 61   | 57   | 68   | 64         | 55   | 57   | 65   |
| Number              | 61                    | 84   | 91   | 159  | 61         | 84   | 89   | 159  |
| Mean                | 29.3                  | 30.7 | 29.0 | 28.1 | 28.3       | 31.5 | 29.9 | 29.3 |
| S. D.               | 7.7                   | 9.7  | 7.7  | 8.4  | 8.4        | 10.2 | 8.1  | 9.2  |
| <b>Total Scores</b> |                       |      |      |      |            |      |      |      |
| 70 - 80             | 0                     | 0    | 0    | 0    | 0          | 0    | 0    | 0    |
| 60 - 69             | 2                     | 1    | 0    | 0    | 1          | 3    | 1    | 1    |
| 50 - 59             | 2                     | 8    | 3    | 2    | 4          | 4    | 4    | 4    |
| 40 - 49             | 12                    | 10   | 10   | 11   | 7          | 16   | 12   | 10   |
| 30 - 39             | 24                    | 23   | 30   | 24   | 26         | 25   | 27   | 23   |
| 20 - 29             | 60                    | 58   | 57   | 63   | 62         | 52   | 56   | 62   |
| Number              | 119                   | 146  | 186  | 301  | 121        | 146  | 185  | 301  |
| Mean                | 29.5                  | 31.1 | 29.6 | 28.7 | 29.2       | 31.9 | 30.6 | 29.8 |
| S. D.               | 9.1                   | 10.0 | 8.5  | 8.7  | 9.3        | 10.5 | 8.8  | 9.2  |

Table 2-3  
Special Test Administration Data

Test of Standard Written English (TSWE) Scores  
for Students with Hearing Impairments

|                      | '80<br>% | '81<br>% | '82<br>% | '83<br>% |
|----------------------|----------|----------|----------|----------|
| <b>Male Scores</b>   |          |          |          |          |
| 60 +                 | 0        | 0        | 0        | 0        |
| 50 - 59              | 3        | 5        | 4        | 3        |
| 40 - 49              | 7        | 14       | 15       | 13       |
| 30 - 39              | 23       | 24       | 25       | 15       |
| 20 - 29              | 67       | 57       | 56       | 69       |
| Number               | 58       | 62       | 95       | 142      |
| Mean                 | 27.1     | 30.3     | 29.8     | 27.9     |
| S. D.                | 8.8      | 10.7     | 10.4     | 9.8      |
| <b>Female Scores</b> |          |          |          |          |
| 60 +                 | 0        | 0        | 0        | 1        |
| 50 - 59              | 2        | 10       | 4        | 3        |
| 40 - 49              | 13       | 14       | 12       | 9        |
| 30 - 39              | 26       | 21       | 22       | 24       |
| 20 - 29              | 59       | 55       | 62       | 63       |
| Number               | 61       | 84       | 91       | 159      |
| Mean                 | 29.2     | 31.1     | 28.9     | 28.2     |
| S. D.                | 8.5      | 11.7     | 9.4      | 9.7      |
| <b>Total Scores</b>  |          |          |          |          |
| 60 +                 | 0        | 0        | 0        | 0        |
| 50 - 59              | 3        | 8        | 4        | 3        |
| 40 - 49              | 10       | 14       | 13       | 11       |
| 30 - 39              | 24       | 23       | 24       | 20       |
| 20 - 29              | 63       | 55       | 59       | 66       |
| Number               | 119      | 146      | 186      | 301      |
| Mean                 | 28.2     | 30.7     | 29.4     | 28.1     |
| S. D.                | 8.7      | 11.3     | 9.9      | 9.7      |

Table 2-4  
Special Test Administration Data

Comparison of 1980-83 Mean SAT Scores for  
All Test-Takers & SDC Respondents with Hearing Disabilities

|                | <u>'80-'83 Total Group</u> |              | <u>'80-'83 Groups with SDQs</u> |              |
|----------------|----------------------------|--------------|---------------------------------|--------------|
|                | <u>SAT-V</u>               | <u>SAT-M</u> | <u>SAT-V</u>                    | <u>SAT-M</u> |
|                | %                          | %            | %                               | %            |
| <b>Males</b>   |                            |              |                                 |              |
| 700 - 800      | 0                          | 2            | 0                               | 2            |
| 600 - 699      | 1                          | 6            | 1                               | 6            |
| 500 - 599      | 3                          | 10           | 4                               | 12           |
| 400 - 499      | 10                         | 23           | 11                              | 24           |
| 300 - 399      | 27                         | 38           | 28                              | 36           |
| 200 - 299      | 59                         | 21           | 56                              | 20           |
| Number         | 357                        | 363          | 279                             | 285          |
| Mean           | 296                        | 389          | 302                             | 398          |
| S.D.           | 94                         | 117          | 96                              | 121          |
| <b>Females</b> |                            |              |                                 |              |
| 700 - 800      | 0                          | 1            | 0                               | 1            |
| 600 - 699      | 0                          | 3            | 0                               | 3            |
| 500 - 599      | 3                          | 5            | 3                               | 5            |
| 400 - 499      | 9                          | 21           | 9                               | 24           |
| 300 - 399      | 24                         | 42           | 24                              | 41           |
| 200 - 299      | 64                         | 28           | 64                              | 26           |
| Number         | 395                        | 402          | 300                             | 306          |
| Mean           | 286                        | 362          | 288                             | 365          |
| S.D.           | 86                         | 100          | 86                              | 99           |
| <b>Total</b>   |                            |              |                                 |              |
| 700 - 800      | 0                          | 2            | 0                               | 2            |
| 600 - 699      | 1                          | 4            | 1                               | 4            |
| 500 - 599      | 3                          | 7            | 3                               | 8            |
| 400 - 499      | 10                         | 22           | 10                              | 24           |
| 300 - 399      | 25                         | 40           | 26                              | 39           |
| 200 - 299      | 61                         | 25           | 60                              | 23           |
| Number         | 752                        | 765          | 579                             | 591          |
| Mean           | 291                        | 375          | 294                             | 381          |
| S.D.           | 90                         | 109          | 91                              | 112          |

Table 2-5  
Special Test Administration Data  
Collapsed Over Four Years ('80-'83)

Type of High School  
Students with Hearing Disabilities

|                   |      |
|-------------------|------|
| Public            | 70.1 |
| Private           | 29.9 |
| Number Responding | 613  |

Table 2-6  
Special Test Administration Data

Latest Self-Reported Grade: Students with a Hearing Impairment

| Year                   | '80                     | '81  | '82  | '83  | '80                       | '81  | '82  | '83  |
|------------------------|-------------------------|------|------|------|---------------------------|------|------|------|
|                        | %                       | %    | %    | %    | %                         | %    | %    | %    |
| <b>TOTAL</b>           | <b>ENGLISH</b>          |      |      |      | <b>MATHEMATICS</b>        |      |      |      |
| A (4.0)                | 20                      | 15   | 11   | 19   | 21                        | 20   | 23   | 19   |
| B (3.0)                | 57                      | 54   | 57   | 52   | 45                        | 38   | 43   | 41   |
| C (2.0)                | 21                      | 28   | 28   | 26   | 23                        | 31   | 29   | 31   |
| D (1.0)                | 2                       | 3    | 3    | 3    | 10                        | 10   | 5    | 8    |
| No Graded Courses      | 0                       | 0    | 1    | 0    | 1                         | 1    | 0    | 1    |
| Number                 | 96                      | 93   | 150  | 250  | 96                        | 92   | 150  | 252  |
| Mean                   | 2.95                    | 2.81 | 2.76 | 2.86 | 2.74                      | 2.65 | 2.84 | 2.69 |
| Percent Honors Courses | 2                       | 8    | 3    | 4    | 2                         | 7    | 5    | 3    |
| <b>TOTAL</b>           | <b>FOREIGN LANGUAGE</b> |      |      |      | <b>BIOLOGICAL SCIENCE</b> |      |      |      |
| A (4.0)                | 35                      | 38   | 30   | 21   | 25                        | 18   | 9    | 15   |
| B (3.0)                | 38                      | 30   | 37   | 37   | 45                        | 40   | 48   | 43   |
| C (2.0)                | 19                      | 23   | 24   | 28   | 21                        | 36   | 38   | 35D  |
| D (1.0)                | 5                       | 6    | 8    | 9    | 8                         | 5    | 5    | 7    |
| No Graded Courses      | 3                       | 2    | 1    | 5    | 1                         | 1    | 0    | 0    |
| Number                 | 37                      | 47   | 74   | 94   | 87                        | 82   | 139  | 221  |
| Mean                   | 2.97                    | 2.96 | 2.85 | 2.61 | 2.85                      | 2.70 | 2.60 | 2.65 |
| Percent Honors Courses | 16                      | 11   | 8    | 5    | 2                         | 6    | 4    | 3    |
| <b>TOTAL</b>           | <b>PHYSICAL SCIENCE</b> |      |      |      | <b>SOCIAL STUDIES</b>     |      |      |      |
| A (4.0)                | 20                      | 17   | 17   | 24   | 28                        | 23   | 18   | 22   |
| B (3.0)                | 40                      | 41   | 41   | 42   | 50                        | 37   | 49   | 54   |
| C (2.0)                | 33                      | 33   | 32   | 28   | 18                        | 36   | 27   | 19   |
| D (1.0)                | 6                       | 9    | 9    | 5    | 4                         | 4    | 4    | 5    |
| No Graded Courses      | 1                       | 0    | 1    | 1    | 0                         | 0    | 1    | 0    |
| Number                 | 73                      | 81   | 135  | 188  | 94                        | 90   | 149  | 249  |
| Mean                   | 2.73                    | 2.67 | 2.64 | 2.81 | 3.01                      | 2.79 | 2.79 | 2.92 |
| Percent Honors Courses | 1                       | 4    | 2    | 2    | 0                         | 7    | 3    | 1    |



Table 2-7  
Special Test Administration Data

Number of Years of Study of Subject: Students With a Hearing Impairment

| Year               | '80                      | '81  | '82  | '83  | '80                        | '81  | '82  | '83  |
|--------------------|--------------------------|------|------|------|----------------------------|------|------|------|
|                    | %                        | %    | %    | %    | %                          | %    | %    | %    |
| <b>TOTAL</b>       | <b>ENGLISH</b>           |      |      |      | <b>MATHEMATICS</b>         |      |      |      |
| No Courses         | 0                        | 0    | 0    | 0    | 0                          | 0    | 0    | 0    |
| One Year           | 0                        | 1    | 1    | 2    | 3                          | 2    | 1    | 2    |
| Two Years          | 1                        | 0    | 4    | 1    | 8                          | 10   | 14   | 13   |
| Three Years        | 3                        | 8    | 3    | 4    | 26                         | 23   | 17   | 23   |
| Four Years         | 84                       | 79   | 85   | 86   | 54                         | 50   | 59   | 54   |
| Five or More Years | 12                       | 12   | 7    | 7    | 8                          | 15   | 8    | 8    |
| Number             | 97                       | 104  | 149  | 252  | 96                         | 103  | 150  | 253  |
| Mean               | 4.07                     | 4.02 | 3.95 | 3.96 | 3.56                       | 3.66 | 3.59 | 3.51 |
| <b>TOTAL</b>       | <b>FOREIGN LANGUAGE</b>  |      |      |      | <b>BIOLOGICAL SCIENCES</b> |      |      |      |
| No Courses         | 60                       | 54   | 55   | 63   | 1                          | 9    | 7    | 9    |
| One Year           | 10                       | 11   | 14   | 10   | 63                         | 59   | 57   | 67   |
| Two Years          | 17                       | 14   | 12   | 16   | 26                         | 25   | 29   | 19   |
| Three Years        | 10                       | 10   | 12   | 6    | 5                          | 7    | 7    | 4    |
| Four Years         | 2                        | 10   | 6    | 5    | 4                          | 0    | 0    | 1    |
| Five or More Years | 1                        | 1    | 1    | 0    | 4                          | 0    | 0    | 0    |
| Number             | 92                       | 102  | 147  | 238  | 95                         | 100  | 148  | 248  |
| Mean               | 0.88                     | 1.14 | 1.05 | 0.79 | 1.51                       | 1.30 | 1.36 | 1.23 |
| <b>TOTAL</b>       | <b>PHYSICAL SCIENCES</b> |      |      |      | <b>SOCIAL STUDIES</b>      |      |      |      |
| No Courses         | 16                       | 9    | 10   | 15   | 2                          | 2    | 1    | 0    |
| One Year           | 36                       | 40   | 38   | 39   | 0                          | 1    | 2    | 5    |
| Two Years          | 24                       | 27   | 23   | 31   | 18                         | 29   | 18   | 15   |
| Three Years        | 17                       | 19   | 23   | 12   | 36                         | 28   | 28   | 36   |
| Four Years         | 7                        | 4    | 5    | 2    | 38                         | 34   | 48   | 40   |
| Five or More Years | 0                        | 1    | 1    | 1    | 6                          | 6    | 3    | 4    |
| Number             | 93                       | 101  | 148  | 245  | 95                         | 102  | 149  | 253  |
| Mean               | 1.65                     | 1.72 | 1.76 | 1.51 | 3.26                       | 3.09 | 3.28 | 3.22 |

Table 2-8  
Special Test Administration Data

Self-Reported Class Rank and Concomitant SAT Scores  
for Students with a Hearing Disability

| Year              | '80 |     | '81 |     | '82 |     | '83 |     |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | %   |     | %   |     | %   |     | %   |     |
| <u>Rank</u>       |     |     |     |     |     |     |     |     |
| Top Tenth         | 20  |     | 16  |     | 12  |     | 12  |     |
| Second Tenth      | 12  |     | 18  |     | 10  |     | 18  |     |
| Second Fifth      | 37  |     | 23  |     | 22  |     | 22  |     |
| Third Fifth       | 24  |     | 33  |     | 45  |     | 37  |     |
| Fourth Fifth      | 7   |     | 9   |     | 8   |     | 10  |     |
| Lowest Fifth      | 0   |     | 1   |     | 3   |     | 1   |     |
| Number Responding | 82  |     | 86  |     | 125 |     | 199 |     |
| <u>SAT Score</u>  | V   | M   | V   | M   | V   | M   | V   | M   |
| <u>Rank</u>       |     |     |     |     |     |     |     |     |
| Top Tenth         | 325 | 400 | 354 | 471 | 319 | 450 | 316 | 434 |
| Second Tenth      | 300 | 433 | 321 | 431 | 330 | 439 | 265 | 360 |
| Second Fifth      | 302 | 433 | 335 | 430 | 309 | 426 | 292 | 393 |
| Third Fifth       | 284 | 355 | 307 | 368 | 289 | 365 | 291 | 361 |
| Fourth Fifth      | 271 | 330 | 293 | 403 | 274 | 310 | 265 | 328 |
| Lowest Fifth      | —   | —   | 270 | 320 | 262 | 310 | 200 | 345 |
| Number Responding | 78  | 82  | 85  | 86  | 123 | 124 | 196 | 199 |

Table 2-9  
Special Test Administration Data  
Estimated High School Grade Point Average  
Students with Hearing Disabilities

| Year          | '80  | '81  | '82  | '83  |
|---------------|------|------|------|------|
|               | %    | %    | %    | %    |
| <b>Male</b>   |      |      |      |      |
| 3.50 - 4.00   | 19   | 16   | 21   | 14   |
| 3.00 - 3.49   | 27   | 24   | 23   | 33   |
| 2.50 - 2.99   | 27   | 27   | 29   | 28   |
| 2.00 - 2.49   | 22   | 22   | 23   | 17   |
| 1.50 - 1.99   | 5    | 11   | 4    | 7    |
| Under 1.50    | 0    | 0    | 0    | 1    |
| Number        | 41   | 37   | 70   | 111  |
| Mean          | 2.87 | 2.73 | 2.87 | 2.83 |
| S. D.         | .58  | .64  | .57  | .60  |
| <b>Female</b> |      |      |      |      |
| 3.50 - 4.00   | 19   | 22   | 11   | 11   |
| 3.00 - 3.49   | 38   | 24   | 23   | 30   |
| 2.50 - 2.99   | 19   | 20   | 34   | 33   |
| 2.00 - 2.49   | 19   | 25   | 25   | 21   |
| 1.50 - 1.99   | 2    | 5    | 5    | 3    |
| Under 1.50    | 2    | 4    | 2    | 2    |
| Number        | 47   | 55   | 61   | 115  |
| Mean          | 2.95 | 2.81 | 2.73 | 2.82 |
| S. D.         | .58  | .67  | .54  | .56  |
| <b>Total</b>  |      |      |      |      |
| 3.50 - 4.00   | 19   | 20   | 17   | 12   |
| 3.00 - 3.49   | 33   | 24   | 23   | 31   |
| 2.50 - 2.99   | 23   | 23   | 31   | 31   |
| 2.00 - 2.49   | 21   | 24   | 24   | 19   |
| 1.50 - 1.99   | 3    | 8    | 4    | 5    |
| Under 1.50    | 1    | 2    | 1    | 1    |
| Number        | 88   | 92   | 131  | 226  |
| Mean          | 2.91 | 2.78 | 2.80 | 2.83 |
| S. D.         | .58  | .66  | .56  | .58  |

Table 2-10  
Special Test Administration Data

Ethnic Background of Students with Hearing Disabilities

| Year                | '80  | '81  | '82  | '83  |
|---------------------|------|------|------|------|
|                     | %    | %    | %    | %    |
| American Indian     | 0.0  | 0.6  | 0.5  | 0.5  |
| Black               | 6.6  | 9.0  | 8.9  | 8.8  |
| Mexican-American    | 0.0  | 1.7  | 1.8  | 1.9  |
| Oriental            | 0.0  | 3.4  | 3.8  | 4.2  |
| Puerto Rican        | 0.0  | 1.1  | 1.2  | 1.2  |
| White               | 90.1 | 81.9 | 81.7 | 81.1 |
| Other               | 3.3  | 2.2  | 2.2  | 2.2  |
| Number Responding   | 91   | 101  | 138  | 228  |
| % Minority Students | 9.9  | 7.9  | 10.1 | 11.0 |

Table 2-11  
 Special Test Administration Data  
 Median Parental Income of Hearing-Impaired Students

|              | '80    | '81    | '82    | '83    |
|--------------|--------|--------|--------|--------|
| All Students | 20,500 | 24,644 | 29,250 | 29,885 |
| Black        | 12,000 | 10,500 | 14,250 | 19,500 |
| White        | 22,125 | 25,500 | 30,537 | 32,188 |

Distribution of Income

|                   |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| Below \$12,000    | 25.3% | 16.9% | 15.3% | 14.0% |
| \$12,000-\$23,999 | 32.4% | 31.2% | 25.2% | 23.5% |
| \$24,000-\$29,999 | 31.0% | 15.6% | 10.8% | 12.8% |
| Above \$30,000    | 31.0% | 36.3% | 48.7% | 49.7% |

Table 2-12  
 Special Test Administration Data  
 1980-83 Mean Parental Income, by SAT Average  
 Hearing-Impaired Students

| <u>SAT Average</u> | <u>(N)</u> | <u><math>\bar{X}</math> Income</u> |
|--------------------|------------|------------------------------------|
| 350 - 399          | (75)       | 37,700                             |
| 400 - 449          | (59)       | 49,100                             |
| 450 - 499          | (16)       | 33,100                             |
| 500 - 549          | (25)       | 60,600                             |
| 550 - 599          | (5)        | 35,900                             |
| 600 - 649          | (4)        | 56,500                             |

Table 2-13  
Special Test Administration Data

Degree Level Goals:  
Students with Hearing Impairments

| Year                               | '80 | '81 | '82 | '83 |
|------------------------------------|-----|-----|-----|-----|
|                                    | %   | %   | %   | %   |
| Two-Year Training Program          | 7   | 3   | 3   | 7   |
| Associate of Arts Degree           | 6   | 1   | 5   | 5   |
| BA or BS Degree                    | 33  | 35  | 46  | 44  |
| MA or MS Degree                    | 21  | 30  | 24  | 16  |
| MD, PhD, Other Professional Degree | 4   | 9   | 10  | 8   |
| Undecided                          | 29  | 22  | 12  | 20  |
| Number Responding                  | 88  | 100 | 134 | 223 |
| Two-Year Program or Degree         | 13  | 4   | 8   | 12  |
| Graduate Study                     | 25  | 39  | 34  | 24  |

Table 2-14  
Special Test Administration Data

Plans to Ask College for Special Assistance by Areas of Need:  
Students with Hearing Impairments

| Year                          | '80  | '81  | '82  | '83  |
|-------------------------------|------|------|------|------|
|                               | %    | %    | %    | %    |
| Educational Counseling        | 44.8 | 36.1 | 36.1 | 41.1 |
| Voc./Career<br>Counseling     | 34.4 | 32.4 | 37.4 | 35.7 |
| Mathematical Skills           | 27.1 | 21.3 | 28.6 | 27.0 |
| Reading Skills                | 32.3 | 29.6 | 33.3 | 32.8 |
| Writing Skills                | 34.4 | 33.3 | 36.1 | 36.1 |
| Study Skills                  | 25.0 | 24.1 | 26.5 | 27.8 |
| Part-Time Work                | 29.2 | 27.8 | 30.6 | 31.5 |
| Personal Counseling           | 8.3  | 13.0 | 10.9 | 10.8 |
| Percent Seeking<br>Assistance | 83.3 | 80.6 | 84.4 | 89.2 |
| Number Responding             | 96   | 108  | 147  | 241  |

Table 2-15  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Intended Field of Study - First Choice  
 Students with Hearing Disabilities

|                                   | <u>Male</u><br>% | <u>Female</u><br>% | <u>Total</u><br>% | SAT Mean Scores   |                   |
|-----------------------------------|------------------|--------------------|-------------------|-------------------|-------------------|
|                                   |                  |                    |                   | <u>Total</u><br>V | <u>Total</u><br>M |
| Agriculture                       | 2.4              | 0.4                | 1.4               | 289               | 333               |
| Arch./Envir. Design               | 6.5              | 0.4                | 3.3               | 301               | 398               |
| Art                               | 6.1              | 5.3                | 5.7               | 303               | 346               |
| Biological Sciences               | 3.2              | 1.1                | 2.2               | 337               | 438               |
| Business & Commerce               | 16.2             | 12.9               | 14.5              | 292               | 377               |
| Communications                    | 1.6              | 1.1                | 1.4               | 326               | 344               |
| Computer Science/Sys.<br>Analysis | 14.6             | 16.7               | 15.7              | 272               | 373               |
| Education                         | 4.5              | 20.8               | 12.9              | 289               | 362               |
| Engineering                       | 11.7             | 0.4                | 5.9               | 321               | 442               |
| English/Literature                | 1.2              | 1.5                | 1.4               | 330               | 401               |
| Ethnic Studies                    | 0.0              | 0.0                | 0.0               | -                 | -                 |
| Foreign Languages                 | 0.0              | 0.0                | 0.0               | -                 | -                 |
| Forestry/Conservation             | 0.4              | 0.0                | 0.2               | 480               | 490               |
| Geography                         | 0.0              | 0.0                | 0.0               | -                 | -                 |
| Health & Medical                  | 3.2              | 18.6               | 11.2              | 306               | 376               |
| History & Culture                 | 1.2              | 1.1                | 1.2               | 250               | 307               |
| Home Economics                    | 0.4              | 1.1                | 0.8               | 230               | 328               |
| Library Science                   | 0.0              | 0.0                | 0.0               | -                 | -                 |
| Mathematics                       | 2.8              | 1.5                | 2.2               | 321               | 490               |
| Military Science                  | 0.0              | 0.0                | 0.0               | -                 | -                 |
| Music                             | 1.6              | 0.0                | 0.8               | 500               | 458               |
| Philosophy & Religion             | 0.0              | 0.4                | 0.2               | 250               | 360               |
| Physical Sciences                 | 2.8              | 1.1                | 2.0               | 299               | 437               |
| Psychology                        | 1.2              | 3.0                | 2.2               | 282               | 328               |
| Social Sciences                   | 7.7              | 2.7                | 5.1               | 319               | 382               |
| Theater Arts                      | 1.2              | 2.7                | 2.0               | 288               | 376               |
| Trade & Vocational                | 1.6              | 0.4                | 1.0               | 216               | 280               |
| Other                             | 2.0              | 0.0                | 1.0               | 278               | 342               |
| Undecided                         | 5.7              | 6.8                | 6.3               | 305               | 376               |
| # Responding                      | 247              | 264                | 511               |                   |                   |



Table 2-16  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Plans to Apply for Advanced Placement or Course Credit  
 Students with Hearing Disabilities

| <u>Subject Area</u> | <u>%</u> |
|---------------------|----------|
| English             | 9.9      |
| Mathematics         | 15.1     |
| Foreign Languages   | 2.2      |
| Biological Sciences | 5.7      |
| Physical Sciences   | 5.1      |
| Social Studies      | 7.6      |
| Art and Music       | 4.3      |
| Any Subject         | 32.5     |
| # Responding        | 644      |

Table 2-17  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)  
 Housing Preferences  
 Students with Hearing Disabilities

| <u>Preference</u>      | <u>N</u> |
|------------------------|----------|
| At Home                | 18       |
| Dormitory              | 69       |
| Single Sex             | 31       |
| Coed                   | 38       |
| Fraternity or Sorority | 3        |
| Own Apartment          | 10       |
| On Campus              | 8        |
| Off Campus             | 2        |
| Number Responding      | 595      |

Table 2-18

Special Test Administration Data  
Collapsed Over Four Years ('80-'83)

Extracurricular Activities in High School & Plans for College  
Students with Hearing Disabilities

| <u>Active in High School</u>                 | <u>%</u> |
|--|----------|
| Athletics, incl. Intramural<br>and Community | 62       |
| Ethnic Organizations                         | 7        |
| Journalism, Debate, Drama                    | 20       |
| Art, Music or Dance                          | 27       |
| Dept. or Preprofessional Clubs               | 8        |
| Religious Organizations                      | 23       |
| Social or Community Club                     | 35       |
| Student Government                           | 14       |
| <br>   |          |
| <u>Will be Active in College</u>             | <u>%</u> |
| Athletics, incl. Intramural<br>and Community | 52       |
| Ethnic Organizations                         | 5        |
| Journalism, Debate, Drama                    | 18       |
| Art, Music, or Dance                         | 25       |
| Dept. or Preprofessional Clubs               | 14       |
| Religious Organizations                      | 17       |
| Social or Community Club                     | 37       |
| Student Government                           | 14       |

Table 2-19  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Self-Reported Skills and Abilities  
 Total Students with Hearing Disabilities

| <u>TOP 10%</u>                      | <u>Z</u> |
|-------------------------------------|----------|
| Ability to get along<br>with others | 52.9     |
| Acting                              | 14.6     |
| Art                                 | 21.8     |
| Athletics                           | 34.3     |
| Creative Writing                    | 14.1     |
| Leadership                          | 25.3     |
| Mathematics                         | 26.6     |
| Mechanics                           | 14.3     |
| Music                               | 7.3      |
| Organizing for Work                 | 30.0     |
| Sales                               | 14.2     |
| Science                             | 15.0     |
| Spoken Expression                   | 15.4     |
| Written Expression                  | 15.0     |
| <br>                                |          |
| <u>ABOVE AVERAGE</u>                | <u>Z</u> |
| Ability to get along<br>with others | 83.0     |
| Acting                              | 42.5     |
| Art                                 | 49.2     |
| Athletics                           | 63.7     |
| Creative Writing                    | 40.2     |
| Leadership                          | 51.3     |
| Mathematics                         | 54.1     |
| Mechanics                           | 36.8     |
| Music                               | 16.7     |
| Organizing for Work                 | 64.7     |
| Sales                               | 36.1     |
| Science                             | 40.1     |
| Spoken Expression                   | 41.8     |
| Written Expression                  | 46.1     |

Table 2-20

Percentage of Seniors and Hearing Disabled Students  
Eligible if Single-Index Minimums are Used:  
High School Rank, High School GPA, or SAT Total Score

| Single<br>Index Minimums | Percent Eligible |                  |                      |
|--------------------------|------------------|------------------|----------------------|
|                          | Original Group   | Hearing Disabled | Differential Percent |
|                          | N = 82,245       | N = 481          |                      |
| <u>High School Rank</u>  |                  |                  |                      |
| HS Rank in Top 1/5       | 44               | 29               | -15                  |
| HS Rank in Top 2/5's     | 71               | 53               | -18                  |
| HS Rank in Top 3/5's     | 97               | 89               | -8                   |
| HS Rank in Top 4/5's     | 100              | 99               | -1                   |
|                          | N = 85,469       | N = 524          |                      |
| <u>High School GPA</u>   |                  |                  |                      |
| HSGPA > 3.50             | 27               | 15               | -12                  |
| HSGPA > 3.25             | 40               | 25               | -15                  |
| HSGPA > 3.00             | 58               | 44               | -14                  |
| HSGPA > 2.75             | 70               | 55               | -15                  |
| HSGPA > 2.50             | 82               | 72               | -10                  |
| HSGPA > 2.25             | 91               | 83               | -8                   |
| HSGPA > 2.00             | 97               | 93               | -4                   |
|                          | N = 86,190       | N = 536          |                      |
| <u>SAT Total Score</u>   |                  |                  |                      |
| SAT > 1100               | 18               | 3                | -15                  |
| SAT > 1000               | 33               | 6                | -27                  |
| SAT > 900                | 51               | 10               | -41                  |
| SAT > 800                | 68               | 23               | -45                  |
| SAT > 700                | 84               | 40               | -44                  |
| SAT > 600                | 93               | 60               | -33                  |
| SAT > 500                | 98               | 87               | -11                  |

Table 2-21

Percentage of Seniors and Hearing Disabled Students  
Eligible if Multiple Index Minimums are Used:  
High School Rank and SAT Total Score Minimums

| High School Rank/<br>SAT Total Minimums | Percent Eligible |                  |                      |
|---|------------------|------------------|----------------------|
|   | Original Group   | Hearing Disabled | Differential Percent |
|   | N = 81,930       | N = 481          |                      |
| <u>Upper Fifth</u>                      |                  |                  |                      |
| SAT > 1100                              | 15               | 3                | -12                  |
| SAT > 1000                              | 25               | 5                | -20                  |
| SAT > 900                               | 32               | 6                | -26                  |
| SAT > 800                               | 38               | 10               | -28                  |
| SAT > 700                               | 42               | 12               | -30                  |
| SAT > 600                               | 43               | 18               | -25                  |
| SAT > 500                               | 44               | 25               | -19                  |
| <u>Upper Two Fifths</u>                 |                  |                  |                      |
| SAT > 1100                              | 18               | 3                | -15                  |
| SAT > 1000                              | 31               | 6                | -25                  |
| SAT > 900                               | 44               | 9                | -35                  |
| SAT > 800                               | 56               | 18               | -38                  |
| SAT > 700                               | 64               | 25               | -39                  |
| SAT > 600                               | 68               | 36               | -32                  |
| SAT > 500                               | 70               | 48               | -22                  |
| <u>Upper Three Fifths</u>               |                  |                  |                      |
| SAT > 1100                              | 19               | 4                | -15                  |
| SAT > 1000                              | 33               | 7                | -26                  |
| SAT > 900                               | 51               | 11               | -40                  |
| SAT > 800                               | 67               | 23               | -44                  |
| SAT > 700                               | 82               | 39               | -43                  |
| SAT > 600                               | 91               | 57               | -34                  |
| SAT > 500                               | 95               | 79               | -16                  |

Table 2-22

Percentage of Seniors and Hearing Disabled Students  
Eligible if Multiple Index Minimums Are Used:  
High School Grade Point Average and SAT Total Score

| High School GPA<br>SAT Total Minimums | Percent Eligible |                  |                      |
|---------------------------------------|------------------|------------------|----------------------|
|                                       | Original Group   | Hearing Disabled | Differential Percent |
|                                       | N = 85,136       | N = 524          |                      |
| <u>HSGPA &gt; 3.00</u>                |                  |                  |                      |
| SAT > 1100                            | 16               | 3                | -13                  |
| SAT > 1000                            | 27               | 6                | -21                  |
| SAT > 900                             | 38               | 7                | -31                  |
| SAT > 800                             | 47               | 14               | -33                  |
| SAT > 700                             | 54               | 21               | -33                  |
| SAT > 600                             | 56               | 29               | -27                  |
| SAT > 500                             | 58               | 39               | -19                  |
| <u>HSGPA &gt; 2.50</u>                |                  |                  |                      |
| SAT > 1100                            | 18               | 3                | -15                  |
| SAT > 1000                            | 31               | 6                | -25                  |
| SAT > 900                             | 47               | 9                | -38                  |
| SAT > 800                             | 61               | 20               | -41                  |
| SAT > 700                             | 73               | 32               | -41                  |
| SAT > 600                             | 79               | 46               | -33                  |
| SAT > 500                             | 81               | 63               | -18                  |
| <u>HSGPA &gt; 2.00</u>                |                  |                  |                      |
| SAT > 1100                            | 18               | 3                | -15                  |
| SAT > 1000                            | 33               | 6                | -27                  |
| SAT > 900                             | 50               | 10               | -40                  |
| SAT > 800                             | 67               | 23               | -44                  |
| SAT > 700                             | 81               | 38               | -43                  |
| SAT > 600                             | 91               | 57               | -34                  |
| SAT > 500                             | 95               | 81               | -14                  |

Table 2-23

Percentage of Seniors and Hearing Disabled Students  
Eligible if Either/Or Minimums are Used:  
High School Rank or SAT Total Score

| High School Rank or<br>SAT Total Minimums | Percent Eligible |                  |                      |
|---|------------------|------------------|----------------------|
|   | Original Group   | Hearing Disabled | Differential Percent |
|   | N = 84,617       | N = 481          |                      |
| <u>Upper Fifth</u>                        |                  |                  |                      |
| or SAT > 1100                             | 49               | 30               | -19                  |
| or SAT > 1000                             | 54               | 32               | -22                  |
| or SAT > 900                              | 63               | 34               | -29                  |
| or SAT > 800                              | 76               | 44               | -32                  |
| or SAT > 700                              | 87               | 59               | -28                  |
| <u>Upper Two Fifths</u>                   |                  |                  |                      |
| or SAT > 1100                             | 73               | 54               | -19                  |
| or SAT > 1000                             | 74               | 54               | -20                  |
| or SAT > 900                              | 78               | 55               | -23                  |
| or SAT > 800                              | 84               | 60               | -24                  |
| or SAT > 700                              | 90               | 70               | -20                  |
| <u>Upper Three Fifths</u>                 |                  |                  |                      |
| or SAT > 1100                             | 97               | 89               | -8                   |
| or SAT > 1000                             | 97               | 89               | -8                   |
| or SAT > 900                              | 97               | 89               | -8                   |
| or SAT > 800                              | 98               | 90               | -8                   |
| or SAT > 700                              | 98               | 92               | -6                   |



Table 2-24

Percentage of Seniors and Hearing Disabled Students  
Eligible if Either/Or Minimums are Used:  
High School Grade Point Average or Rank and SAT Score Minimums

| High School GPA or<br>SAT Total Minimums | Percent Eligible |                  |                      |
|--|------------------|------------------|----------------------|
|  | Original Group   | Hearing Disabled | Differential Percent |
|  | N = 85,136       | N = 524          |                      |
| <u>HSGPA &gt; 3.00</u>                   |                  |                  |                      |
| or SAT > 1100                            | 59               | 44               | -15                  |
| or SAT > 1000                            | 63               | 44               | -19                  |
| or SAT > 900                             | 70               | 47               | -23                  |
| or SAT > 800                             | 79               | 53               | -26                  |
| or SAT > 700                             | 88               | 63               | -25                  |
| <u>HSGPA &gt; 2.50</u>                   |                  |                  |                      |
| or SAT > 1100                            | 83               | 72               | -11                  |
| or SAT > 1000                            | 84               | 72               | -12                  |
| or SAT > 900                             | 86               | 72               | -14                  |
| or SAT > 800                             | 89               | 75               | -14                  |
| or SAT > 700                             | 93               | 80               | -13                  |
| <u>HSGPA &gt; 2.00</u>                   |                  |                  |                      |
| or SAT > 1100                            | 97               | 93               | -4                   |
| or SAT > 1000                            | 97               | 93               | -4                   |
| or SAT > 900                             | 97               | 94               | -3                   |
| or SAT > 800                             | 98               | 94               | -4                   |
| or SAT > 700                             | 99               | 95               | -4                   |

Table 2-25

Percentage of Seniors and Hearing Disabled Students  
Eligible if Sliding Scales Based on  
High School Rank and SAT Total Score are Used

| High School Rank/<br>SAT Total Minimums | Percent Eligible |                  |                      |
|---|------------------|------------------|----------------------|
|   | Original Group   | Hearing Disabled | Differential Percent |
|   | N = 82,245       | N = 481          |                      |
| <b>Sliding Scale A</b>                  |                  |                  |                      |
| Upper Tenth, No SAT Minimum             | 22               | 15               | -7                   |
| Second Tenth, SAT > 600                 | 21               | 7                | -14                  |
| Second Fifth, SAT > 800                 | 18               | 8                | -10                  |
| Third Fifth SAT > 1000                  | 3                | 0                | -3                   |
| Fourth Fifth SAT > 1200                 | 0                | 0                | 0                    |
| Last Fifth SAT > 1400                   | 0                | 0                | 0                    |
| Total Percent                           | 64               | 30               | -34                  |
| <b>Sliding Scale B</b>                  |                  |                  |                      |
| Upper Tenth, No SAT Minimum             | 22               | 15               | -7                   |
| Second Tenth, SAT > 600                 | 21               | 12               | -9                   |
| Second Fifth, SAT > 800                 | 23               | 13               | -10                  |
| Third Fifth SAT > 1000                  | 6                | 2                | -4                   |
| Fourth Fifth SAT > 1200                 | 0                | 0                | 0                    |
| Last Fifth SAT > 1400                   | 0                | 0                | 0                    |
| Total Percent                           | 72               | 42               | -30                  |
| <b>Sliding Scale C</b>                  |                  |                  |                      |
| Upper Tenth, No SAT Minimum             | 22               | 15               | -7                   |
| Second Tenth, SAT > 600                 | 22               | 15               | -7                   |
| Second Fifth, SAT > 800                 | 25               | 18               | -7                   |
| Third Fifth SAT > 1000                  | 11               | 6                | -5                   |
| Fourth Fifth SAT > 1200                 | 0                | 0                | 0                    |
| Last Fifth SAT > 1400                   | 0                | 0                | 0                    |
| Total Percent                           | 80               | 54               | -26                  |

Table 2-26

Percentage of Seniors and Hearing Disabled Students  
Eligible if Sliding Scales Based on High School GPA  
and SAT Total Scores are Used

| Sliding Scales           | Percent Eligible |                  |                      |
|--------------------------|------------------|------------------|----------------------|
|                          | Original Group   | Hearing Disabled | Differential Percent |
|                          | N = 85,469       | N = 524          |                      |
| <b>Sliding Scale D</b>   |                  |                  |                      |
| 3.40 GPA, No SAT Minimum | 32               | 17               | -15                  |
| 3.30 GPA, SAT > 400      | 5                | 5                | 0                    |
| 3.20 GPA, SAT > 500      | 7                | 6                | -1                   |
| 3.10 GPA, SAT > 600      | 5                | 3                | -2                   |
| 3.00 GPA, SAT > 700      | 7                | 5                | -2                   |
| 2.90 GPA, SAT > 800      | 2                | 1                | -1                   |
| 2.80 GPA, SAT > 900      | 3                | 1                | -2                   |
| 2.70 GPA, SAT > 1000     | 1                | 0                | -1                   |
| 2.60 GPA, SAT > 1100     | 0                | 0                | 0                    |
| 2.60 GPA, SAT > 1200     | 0                | 0                | 0                    |
| Total Percent            | <u>62</u>        | <u>38</u>        | <u>-24</u>           |
| <b>Sliding Scale E</b>   |                  |                  |                      |
| 3.40 GPA, No SAT Minimum | 32               | 17               | -15                  |
| 3.20 GPA, SAT > 400      | 12               | 11               | -1                   |
| 3.00 GPA, SAT > 500      | 14               | 14               | 0                    |
| 2.80 GPA, SAT > 600      | 9                | 5                | -4                   |
| 2.60 GPA, SAT > 700      | 8                | 4                | -4                   |
| 2.40 GPA, SAT > 800      | 4                | 2                | -2                   |
| 2.20 GPA, SAT > 900      | 1                | 0                | -1                   |
| 2.00 GPA, SAT > 1000     | 0                | 0                | 0                    |
| 1.80 GPA, SAT > 1100     | 0                | 0                | 0                    |
| 1.60 GPA, SAT > 1200     | 0                | 0                | 0                    |
| 1.40 GPA, SAT > 1300     | 0                | 0                | 0                    |
| 1.20 GPA, SAT > 1400     | 0                | 0                | 0                    |
| 1.00 GPA, SAT > 1500     | 0                | 0                | 0                    |
| Total Percent            | <u>80</u>        | <u>53</u>        | <u>-27</u>           |

Table 2-27

Percentage of Seniors and Hearing Disabled Students  
Eligible if a Predicted Freshman GPA of 2.5 is Used:  
Predictions for 10 State Institutions

| Inst.<br>Code | Mean Rank |     | Location | Percent Eligible |                  |              |
|---------------|-----------|-----|----------|------------------|------------------|--------------|
|               | HSGPA     | SAT |          | Original Group   | Hearing Disabled | Differential |
|               |           |     |          | N = 85,136       | N = 524          |              |
| A             | 2         | 2   | Midwest  | 69               | 42               | -27          |
| B             | 8         | 5   | East     | 68               | 37               | -31          |
| C             | 9         | 9   | Midwest  | 60               | 13               | -47          |
| D             | 5         | 3   | East     | 57               | 26               | -31          |
| E             | 4         | 4   | West     | 49               | 16               | -33          |
| F             | 10        | 8   | South    | 46               | 38               | -8           |
| G             | 3         | 6   | West     | 44               | 19               | -25          |
| H             | 7         | 7   | East     | 44               | 13               | -31          |
| I             | 1         | 1   | West     | 43               | 12               | -31          |
| J             | 6         | 10  | South    | 40               | 12               | -28          |

Table 2-28

## Comparison of Models\*

| Model/Minimums                 | Percent Eligible |                  |                      |
|--------------------------------|------------------|------------------|----------------------|
|                                | Original Group   | Hearing Disabled | Differential Percent |
| <u>Single Index</u>            |                  |                  |                      |
| Rank in Top 2/5's              | 71               | 53               | -18                  |
| GPA > 2.75                     | 70               | 55               | -15                  |
| SAT > 800                      | 68               | 23               | -45                  |
| <u>Multiple Index</u>          |                  |                  |                      |
| GPA > 2.50 and SAT > 700       | 73               | 32               | -41                  |
| Top 2/5's and SAT > 500        | 70               | 48               | -22                  |
| Top 2/5's and SAT > 600        | 68               | 36               | -32                  |
| Top 3/5's and SAT > 800        | 67               | 23               | -44                  |
| GPA > 2.0 and SAT > 800        | 67               | 23               | -44                  |
| <u>Either-or</u>               |                  |                  |                      |
| Top 1/5 <u>or</u> SAT > 800    | 76               | 44               | -32                  |
| Top 2/5's <u>or</u> SAT > 1000 | 74               | 54               | -20                  |
| Top 2/5's <u>or</u> SAT > 1100 | 73               | 54               | -19                  |
| GPA > 3.0 <u>or</u> SAT > 900  | 70               | 47               | -23                  |
| <u>Sliding Scale</u>           |                  |                  |                      |
| Sliding Scale B                | 72               | 42               | -30                  |
| <u>Predicted Performance</u>   |                  |                  |                      |
| Institution A                  | 69               | 42               | -27                  |
| Institution B                  | 68               | 37               | -31                  |

\*These comparisons are limited to situations where about three-fourths of White Seniors were eligible in the original study.

Table 3-1  
Special Test Administration Data

SAT Scores  
Students With A Learning Disability

|                      | VERBAL |      |      |      | MATH |      |      |      |
|----------------------|--------|------|------|------|------|------|------|------|
|                      | '80    | '81  | '82  | '83  | '80  | '81  | '82  | '83  |
|                      | %      | %    | %    | %    | %    | %    | %    | %    |
| <b>Male Scores</b>   |        |      |      |      |      |      |      |      |
| 700 - 800            | 0.2    | 0.2  | 0.1  | 0.0  | 1.4  | 1.7  | 1.6  | 1.5  |
| 600 - 699            | 0.4    | 1.4  | 0.8  | 1.0  | 3.1  | 7.3  | 4.7  | 4.0  |
| 500 - 599            | 5.1    | 8.6  | 6.0  | 5.6  | 11.4 | 16.7 | 10.9 | 11.8 |
| 400 - 499            | 21.4   | 27.3 | 21.4 | 21.9 | 25.6 | 25.6 | 24.8 | 23.7 |
| 300 - 399            | 41.8   | 39.7 | 41.1 | 43.2 | 40.1 | 35.5 | 40.5 | 41.3 |
| 200 - 299            | 31.0   | 23.0 | 30.8 | 28.3 | 18.4 | 13.1 | 17.7 | 17.8 |
| Number               | 1119   | 1765 | 1948 | 2462 | 1144 | 1764 | 2027 | 2532 |
| Mean                 | 346    | 372  | 349  | 352  | 389  | 420  | 394  | 392  |
| S. D.                | 89     | 95   | 90   | 89   | 103  | 116  | 110  | 107  |
| <b>Female Scores</b> |        |      |      |      |      |      |      |      |
| 700 - 800            | 0.0    | 0.0  | 0.0  | 0.0  | 1.3  | 0.2  | 1.6  | 1.2  |
| 600 - 699            | 0.3    | 1.7  | 0.1  | 0.3  | 1.3  | 2.7  | 1.2  | 1.8  |
| 500 - 599            | 4.6    | 7.0  | 3.5  | 4.3  | 6.5  | 11.4 | 5.9  | 7.8  |
| 400 - 499            | 16.8   | 21.3 | 16.7 | 16.1 | 16.6 | 20.7 | 19.6 | 18.8 |
| 300 - 399            | 44.3   | 39.8 | 40.9 | 40.8 | 49.7 | 45.4 | 41.8 | 46.0 |
| 200 - 299            | 34.1   | 30.3 | 38.7 | 38.6 | 24.6 | 19.6 | 30.0 | 24.4 |
| Number               | 370    | 644  | 736  | 957  | 386  | 632  | 764  | 1000 |
| Mean                 | 334    | 353  | 330  | 331  | 358  | 378  | 356  | 363  |
| S. D.                | 86     | 97   | 84   | 85   | 93   | 100  | 98   | 98   |
| <b>Total Scores</b>  |        |      |      |      |      |      |      |      |
| 700 - 800            | 0.1    | 0.1  | 0.0  | 0.0  | 1.3  | 1.3  | 1.5  | 1.4  |
| 600 - 699            | 0.4    | 1.5  | 0.6  | 0.8  | 2.6  | 6.1  | 3.7  | 3.4  |
| 500 - 599            | 5.0    | 8.1  | 5.3  | 5.2  | 10.1 | 15.3 | 9.5  | 10.7 |
| 400 - 499            | 20.3   | 25.7 | 20.1 | 20.3 | 23.3 | 24.3 | 23.4 | 22.3 |
| 300 - 399            | 42.4   | 39.7 | 41.0 | 42.5 | 42.5 | 38.1 | 40.8 | 42.6 |
| 200 - 299            | 31.8   | 24.9 | 30.0 | 31.2 | 20.0 | 14.8 | 21.0 | 19.6 |
| Number               | 1489   | 2409 | 2684 | 3419 | 1530 | 2396 | 2791 | 3532 |
| Mean                 | 343    | 367  | 344  | 346  | 381  | 409  | 384  | 383  |
| S. D.                | 89     | 96   | 89   | 88   | 101  | 114  | 108  | 105  |

Table 3-2  
Special Test Administration Data

SAT Verbal Subscores  
Students With A Learning Disability

|                      | READING COMPREHENSION |      |      |      | VOCABULARY |      |      |      |
|----------------------|-----------------------|------|------|------|------------|------|------|------|
|                      | '80                   | '81  | '82  | '83  | '80        | '81  | '82  | '83  |
|                      | %                     | %    | %    | %    | %          | %    | %    | %    |
| <b>Male Scores</b>   |                       |      |      |      |            |      |      |      |
| 70 - 80              | 0                     | 0    | 0    | 0    | 0          | 0    | 0    | 0    |
| 60 - 69              | 1                     | 2    | 1    | 1    | 1          | 2    | 2    | 1    |
| 50 - 59              | 6                     | 10   | 7    | 7    | 7          | 8    | 6    | 6    |
| 40 - 49              | 20                    | 26   | 22   | 22   | 25         | 31   | 24   | 27   |
| 30 - 39              | 41                    | 37   | 39   | 40   | 39         | 40   | 42   | 41   |
| 20 - 29              | 32                    | 25   | 31   | 30   | 28         | 19   | 26   | 25   |
| Number               | 1119                  | 1765 | 1948 | 2462 | 1128       | 1769 | 1986 | 2489 |
| Mean                 | 34.2                  | 37.0 | 35.0 | 35.0 | 35.8       | 38.1 | 36.1 | 36.2 |
| S. D.                | 9.1                   | 10.1 | 9.5  | 9.5  | 9.5        | 9.3  | 9.2  | 9.0  |
| <b>Female Scores</b> |                       |      |      |      |            |      |      |      |
| 70 - 80              | 0                     | 0    | 0    | 0    | 0          | 0    | 0    | 0    |
| 60 - 69              | 1                     | 2    | 0    | 0    | 2          | 3    | 1    | 1    |
| 50 - 59              | 5                     | 8    | 4    | 6    | 5          | 7    | 5    | 4    |
| 40 - 49              | 17                    | 21   | 20   | 18   | 18         | 23   | 18   | 19   |
| 30 - 39              | 46                    | 39   | 38   | 40   | 42         | 39   | 40   | 39   |
| 20 - 29              | 31                    | 30   | 38   | 36   | 33         | 28   | 36   | 37   |
| Number               | 369                   | 643  | 736  | 956  | 375        | 644  | 743  | 965  |
| Mean                 | 33.9                  | 35.4 | 33.3 | 33.6 | 34.0       | 36.2 | 33.9 | 33.6 |
| S. D.                | 8.8                   | 9.9  | 8.8  | 9.0  | 9.4        | 9.9  | 8.7  | 8.7  |
| <b>Total Scores</b>  |                       |      |      |      |            |      |      |      |
| 70 - 80              | 0                     | 0    | 0    | 0    | 0          | 0    | 0    | 0    |
| 60 - 69              | 1                     | 2    | 1    | 1    | 2          | 2    | 1    | 1    |
| 50 - 59              | 6                     | 9    | 6    | 7    | 6          | 8    | 6    | 5    |
| 40 - 49              | 19                    | 25   | 21   | 21   | 23         | 29   | 23   | 25   |
| 30 - 39              | 42                    | 37   | 39   | 40   | 39         | 39   | 41   | 40   |
| 20 - 29              | 32                    | 27   | 33   | 31   | 30         | 22   | 29   | 29   |
| Number               | 1488                  | 2408 | 2684 | 3418 | 1503       | 2413 | 2729 | 3454 |
| Mean                 | 34.1                  | 36.6 | 34.5 | 34.6 | 35.3       | 37.6 | 35.5 | 35.5 |
| S. D.                | 9.0                   | 10.1 | 9.3  | 9.4  | 9.5        | 9.5  | 9.1  | 9.0  |

Table 3-3  
Special Test Administration Data  
Test of Standard Written English (TSWE) Scores  
for Students with Learning Disabilities

|                      | LEARNING DISABILITY |      |      |      |
|----------------------|---------------------|------|------|------|
|                      | '80                 | '81  | '82  | '83  |
|                      | %                   | %    | %    | %    |
| <b>Male Scores</b>   |                     |      |      |      |
| 60 +                 | 0                   | 0    | 0    | 0    |
| 50 - 59              | 5                   | 9    | 5    | 5    |
| 40 - 49              | 17                  | 23   | 19   | 20   |
| 30 - 39              | 33                  | 34   | 33   | 32   |
| 20 - 29              | 45                  | 34   | 43   | 43   |
| Number               | 1119                | 1765 | 1946 | 2462 |
| Mean                 | 32.1                | 34.9 | 32.6 | 32.7 |
| S. D.                | 9.7                 | 10.2 | 9.8  | 9.6  |
| <b>Female Scores</b> |                     |      |      |      |
| 60 +                 | 0                   | 0    | 0    | 0    |
| 50 - 59              | 5                   | 10   | 6    | 4    |
| 40 - 49              | 18                  | 25   | 19   | 21   |
| 30 - 39              | 37                  | 31   | 32   | 35   |
| 20 - 29              | 40                  | 34   | 43   | 40   |
| Number               | 368                 | 641  | 735  | 956  |
| Mean                 | 32.9                | 35.2 | 32.7 | 32.9 |
| S. D.                | 9.5                 | 10.6 | 9.9  | 9.5  |
| <b>Total Scores</b>  |                     |      |      |      |
| 60 +                 | 0                   | 0    | 0    | 0    |
| 50 - 59              | 5                   | 10   | 5    | 5    |
| 40 - 49              | 18                  | 23   | 19   | 20   |
| 30 - 39              | 34                  | 33   | 33   | 33   |
| 20 - 29              | 43                  | 34   | 43   | 42   |
| Number               | 1487                | 2406 | 2681 | 3418 |
| Mean                 | 32.3                | 35.0 | 32.6 | 32.8 |
| S. D.                | 9.6                 | 10.3 | 9.8  | 9.6  |



Table 3-4  
Special Test Administration Data

Comparison of 1980-83 Mean SAT Scores for  
All Test-Takers & SDQ Respondents with Learning Disabilities

|                | <u>'80-'83 Total Group</u> |              | <u>'80-'83 Group with SDQs</u> |              |
|----------------|----------------------------|--------------|--------------------------------|--------------|
|                | <u>SAT-V</u>               | <u>SAT-M</u> | <u>SAT-V</u>                   | <u>SAT-M</u> |
|                | %                          | %            | %                              | %            |
| <b>Males</b>   |                            |              |                                |              |
| 700 - 800      | 0                          | 1            | 0                              | 2            |
| 600 - 699      | 1                          | 5            | 1                              | 5            |
| 500 - 599      | 6                          | 13           | 6                              | 13           |
| 400 - 499      | 23                         | 25           | 23                             | 25           |
| 300 - 399      | 42                         | 39           | 42                             | 40           |
| 200 - 299      | 28                         | 17           | 28                             | 15           |
| Number         | 7294                       | 7467         | 4703                           | 4809         |
| Mean           | 355                        | 399          | 355                            | 402          |
| S.D.           | 91                         | 110          | 90                             | 110          |
| <b>Females</b> |                            |              |                                |              |
| 700 - 800      | 0                          | 1            | 0                              | 1            |
| 600 - 699      | 1                          | 2            | 1                              | 2            |
| 500 - 599      | 4                          | 8            | 4                              | 8            |
| 400 - 499      | 18                         | 19           | 41                             | 21           |
| 300 - 399      | 41                         | 45           | 36                             | 44           |
| 200 - 299      | 36                         | 25           | 36                             | 24           |
| Number         | 2707                       | 2782         | 1892                           | 1943         |
| Mean           | 336                        | 364          | 337                            | 366          |
| S.D.           | 88                         | 98           | 88                             | 97           |
| <b>Total</b>   |                            |              |                                |              |
| 700 - 800      | 0                          | 1            | 0                              | 1            |
| 600 - 699      | 1                          | 4            | 1                              | 4            |
| 500 - 599      | 6                          | 12           | 6                              | 12           |
| 400 - 499      | 22                         | 23           | 21                             | 24           |
| 300 - 399      | 41                         | 41           | 42                             | 41           |
| 200 - 299      | 30                         | 19           | 30                             | 18           |
| Number         | 10,001                     | 10,249       | 6595                           | 6752         |
| Mean           | 350                        | 389          | 350                            | 391          |
| S.D.           | 91                         | 108          | 90                             | 108          |

**Table 3-5**  
**Special Test Administration Data**  
**Collapsed Over Four Years ('80-'83)**

**Type of High School**  
**Students with Learning Disabilities**

|                          |             |
|--------------------------|-------------|
| <b>Public</b>            | <b>69.4</b> |
| <b>Private</b>           | <b>30.6</b> |
| <b>Number Responding</b> | <b>7052</b> |

Table 3-6  
Special Test Administration Data

Latest Self-Reported Grade: Students With a Learning Disability

| Year                   | '80                     | '81  | '82  | '83  | '80                       | '81  | '82  | '83  |
|------------------------|-------------------------|------|------|------|---------------------------|------|------|------|
|                        | %                       | %    | %    | %    | %                         | %    | %    | %    |
| <b>TOTAL</b>           | <b>ENGLISH</b>          |      |      |      | <b>MATHEMATICS</b>        |      |      |      |
| A (4.0)                | 8                       | 9    | 8    | 9    | 8                         | 11   | 10   | 12   |
| B (3.0)                | 43                      | 44   | 44   | 44   | 37                        | 36   | 36   | 36   |
| C (2.0)                | 43                      | 41   | 41   | 41   | 40                        | 40   | 42   | 40   |
| D (1.0)                | 5                       | 6    | 7    | 6    | 13                        | 12   | 11   | 11   |
| No Graded Courses      | 1                       | 0    | 0    | 0    | 2                         | 1    | 1    | 1    |
| Number                 | 1028                    | 1549 | 1909 | 2282 | 1019                      | 1537 | 1892 | 2250 |
| Mean                   | 2.52                    | 2.54 | 2.53 | 2.55 | 2.36                      | 2.42 | 2.43 | 2.46 |
| Percent Honors Courses | 3                       | 3    | 3    | 3    | 3                         | 3    | 2    | 3    |
| <b>TOTAL</b>           | <b>FOREIGN LANGUAGE</b> |      |      |      | <b>BIOLOGICAL SCIENCE</b> |      |      |      |
| A (4.0)                | 8                       | 8    | 9    | 7    | 10                        | 12   | 9    | 11   |
| B (3.0)                | 28                      | 30   | 28   | 30   | 39                        | 39   | 38   | 40   |
| C (2.0)                | 41                      | 41   | 41   | 41   | 41                        | 39   | 42   | 40   |
| D (1.0)                | 18                      | 17   | 17   | 17   | 9                         | 9    | 10   | 8    |
| No Graded Courses      | 5                       | 4    | 5    | 5    | 1                         | 1    | 1    | 1    |
| Number                 | 568                     | 956  | 1101 | 1321 | 920                       | 1390 | 1744 | 2048 |
| Mean                   | 2.16                    | 2.20 | 2.20 | 2.19 | 2.48                      | 2.52 | 2.45 | 2.52 |
| Percent Honors Courses | 3                       | 3    | 2    | 4    | 2                         | 3    | 2    | 3    |
| <b>TOTAL</b>           | <b>PHYSICAL SCIENCE</b> |      |      |      | <b>SOCIAL STUDIES</b>     |      |      |      |
| A (4.0)                | 10                      | 12   | 12   | 11   | 13                        | 13   | 15   | 15   |
| B (3.0)                | 36                      | 38   | 36   | 40   | 46                        | 46   | 44   | 44   |
| C (2.0)                | 44                      | 41   | 42   | 38   | 34                        | 34   | 35   | 35   |
| D (1.0)                | 9                       | 8    | 9    | 10   | 6                         | 6    | 6    | 6    |
| No Graded Courses      | 1                       | 1    | 1    | 1    | 1                         | 1    | 0    | 0    |
| Number                 | 854                     | 1275 | 1577 | 1829 | 1012                      | 1526 | 1878 | 2231 |
| Mean                   | 2.45                    | 2.51 | 2.49 | 2.51 | 2.65                      | 2.65 | 2.67 | 2.67 |
| Percent Honors Courses | 3                       | 3    | 2    | 3    | 2                         | 2    | 3    | 2    |

Table 3-7  
Special Test Administration Data

Number of Years of Study of Subject: Students With A Learning Disability

| Year               | '80                      | '81  | '82  | '83  | '80                        | '81  | '82  | '83  |
|--------------------|--------------------------|------|------|------|----------------------------|------|------|------|
|                    | %                        | %    | %    | %    | %                          | %    | %    | %    |
| <b>TOTAL</b>       | <b>ENGLISH</b>           |      |      |      | <b>MATHEMATICS</b>         |      |      |      |
| No Courses         | 0                        | 0    | 0    | 0    | 0                          | 0    | 0    | 1    |
| One Year           | 2                        | 1    | 1    | 1    | 3                          | 3    | 3    | 3    |
| Two Years          | 2                        | 1    | 2    | 2    | 14                         | 14   | 14   | 12   |
| Three Years        | 6                        | 7    | 7    | 7    | 29                         | 30   | 27   | 28   |
| Four Years         | 80                       | 81   | 81   | 82   | 46                         | 46   | 49   | 50   |
| Five or More Years | 10                       | 9    | 9    | 8    | 8                          | 7    | 7    | 6    |
| Number             | 1067                     | 1594 | 1936 | 2323 | 1067                       | 1585 | 1931 | 2315 |
| Mean               | 3.95                     | 3.96 | 3.94 | 3.93 | 3.41                       | 3.41 | 3.42 | 3.43 |
| <b>TOTAL</b>       | <b>FOREIGN LANGUAGES</b> |      |      |      | <b>BIOLOGICAL SCIENCES</b> |      |      |      |
| No Courses         | 45                       | 40   | 42   | 42   | 7                          | 8    | 8    | 7    |
| One Year           | 15                       | 16   | 17   | 15   | 58                         | 56   | 58   | 58   |
| Two Years          | 24                       | 25   | 23   | 24   | 27                         | 25   | 25   | 26   |
| Three Years        | 10                       | 12   | 12   | 12   | 5                          | 8    | 6    | 6    |
| Four Years         | 4                        | 5    | 5    | 6    | 2                          | 2    | 2    | 2    |
| Five or More Years | 2                        | 2    | 1    | 1    | 1                          | 1    | 1    | 1    |
| Number             | 1034                     | 1552 | 1886 | 2275 | 1051                       | 1569 | 1907 | 2300 |
| Mean               | 1.20                     | 1.32 | 1.26 | 1.28 | 1.40                       | 1.41 | 1.39 | 1.39 |
| <b>TOTAL</b>       | <b>PHYSICAL SCIENCES</b> |      |      |      | <b>SOCIAL STUDIES</b>      |      |      |      |
| No Courses         | 13                       | 14   | 12   | 13   | 1                          | 1    | 1    | 1    |
| One Year           | 43                       | 42   | 43   | 40   | 4                          | 3    | 3    | 3    |
| Two Years          | 27                       | 28   | 29   | 31   | 20                         | 20   | 18   | 17   |
| Three Years        | 13                       | 12   | 12   | 12   | 37                         | 37   | 37   | 37   |
| Four Years         | 3                        | 3    | 3    | 3    | 32                         | 32   | 34   | 36   |
| Five or More Years | 1                        | 1    | 1    | 1    | 6                          | 6    | 7    | 6    |
| Number             | 1051                     | 1563 | 1901 | 2278 | 1058                       | 1574 | 1913 | 2304 |
| Mean               | 1.52                     | 1.53 | 1.53 | 1.53 | 3.11                       | 3.16 | 3.23 | 3.22 |

Table 3-8  
Special Test Administration Data

Self-Reported Class Rank, and Concomitant SAT Scores  
for Students with a Learning Disability

| Year              | '80 |     | '81  |      | '82  |      | '83  |      |
|-------------------|-----|-----|------|------|------|------|------|------|
|                   | %   |     | %    |      | %    |      | %    |      |
| <u>Rank</u>       |     |     |      |      |      |      |      |      |
| Top Tenth         | 4   |     | 4    |      | 4    |      | 5    |      |
| Second Tenth      | 8   |     | 9    |      | 8    |      | 8    |      |
| Second Fifth      | 20  |     | 21   |      | 20   |      | 20   |      |
| Third Fifth       | 50  |     | 48   |      | 49   |      | 47   |      |
| Fourth Fifth      | 14  |     | 14   |      | 15   |      | 15   |      |
| Lowest Fifth      | 4   |     | 4    |      | 4    |      | 5    |      |
| Number Responding | 835 |     | 1297 |      | 1516 |      | 1875 |      |
| SAT Score         | V   | M   | V    | M    | V    | M    | V    | M    |
| <u>Rank</u>       |     |     |      |      |      |      |      |      |
| Top Tenth         | 388 | 415 | 433  | 500  | 412  | 431  | 397  | 452  |
| Second Tenth      | 376 | 426 | 404  | 458  | 373  | 436  | 385  | 433  |
| Second Fifth      | 370 | 409 | 403  | 451  | 364  | 408  | 366  | 424  |
| Third Fifth       | 340 | 377 | 353  | 395  | 334  | 379  | 340  | 376  |
| Fourth Fifth      | 316 | 358 | 337  | 371  | 319  | 354  | 319  | 360  |
| Lowest Fifth      | 279 | 322 | 330  | 358  | 306  | 339  | 294  | 322  |
| Number Responding | 813 | 832 | 1295 | 1286 | 1448 | 1512 | 1814 | 1872 |

Table 3-9  
 Special Test Administration Data  
 Estimated High School Grade Point Average  
 Students with Learning Disabilities

| Year          | '80  | '81  | '82  | '83  |
|---------------|------|------|------|------|
|               | %    | %    | %    | %    |
| <b>Male</b>   |      |      |      |      |
| 3.50 - 4.00   | 5    | 5    | 4    | 4    |
| 3.00 - 3.49   | 16   | 18   | 16   | 20   |
| 2.50 - 2.99   | 27   | 29   | 29   | 30   |
| 2.00 - 2.49   | 36   | 33   | 37   | 32   |
| 1.50 - 1.99   | 12   | 12   | 11   | 12   |
| Under 1.50    | 3    | 4    | 3    | 2    |
| Number        | 687  | 1052 | 1224 | 1462 |
| Mean          | 2.49 | 2.50 | 2.49 | 2.52 |
| S. D.         | .57  | .57  | .54  | .56  |
| <b>Female</b> |      |      |      |      |
| 3.50 - 4.00   | 4    | 6    | 5    | 5    |
| 3.00 - 3.49   | 19   | 22   | 20   | 20   |
| 2.50 - 2.99   | 33   | 30   | 33   | 31   |
| 2.00 - 2.49   | 33   | 31   | 31   | 32   |
| 1.50 - 1.99   | 9    | 8    | 8    | 10   |
| Under 1.50    | 2    | 3    | 2    | 2    |
| Number        | 257  | 430  | 504  | 630  |
| Mean          | 2.58 | 2.60 | 2.58 | 2.56 |
| S. D.         | .55  | .57  | .52  | .54  |
| <b>Total</b>  |      |      |      |      |
| 3.50 - 4.00   | 5    | 5    | 4    | 4    |
| 3.00 - 3.49   | 17   | 19   | 17   | 20   |
| 2.50 - 2.99   | 29   | 29   | 30   | 30   |
| 2.00 - 2.49   | 35   | 33   | 35   | 32   |
| 1.50 - 1.99   | 11   | 11   | 11   | 12   |
| Under 1.50    | 3    | 3    | 3    | 2    |
| Number        | 944  | 1482 | 1728 | 2092 |
| Mean          | 2.51 | 2.53 | 2.52 | 2.53 |
| S. D.         | .57  | .57  | .54  | .56  |

Table 3-10  
Special Test Administration Data

Ethnic Background of Students with Learning Disabilities

| Year                | '80  | '81  | '82  | '83  |
|---------------------|------|------|------|------|
|                     | %    | %    | %    | %    |
| American Indian     | 1.2  | 1.0  | 0.8  | 0.4  |
| Black               | 2.8  | 4.0  | 4.1  | 4.3  |
| Mexican-American    | 0.2  | 0.4  | 0.2  | 0.5  |
| Oriental            | 0.3  | 0.5  | 0.8  | 0.6  |
| Puerto Rican        | 0.3  | 0.3  | 0.9  | 0.7  |
| White               | 93.0 | 91.5 | 91.4 | 91.9 |
| Other               | 2.2  | 2.3  | 1.9  | 1.6  |
| Number Responding   | 955  | 1457 | 1695 | 2079 |
| % Minority Students | 7.0  | 8.5  | 8.6  | 8.1  |

Table 3-11  
Special Test Administration Data

Median Parental Income of Learning Disabled Students

| Year                   | '80    | '81    | '82    | '83    |
|------------------------|--------|--------|--------|--------|
| All Students           | 31,106 | 34,207 | 39,143 | 42,195 |
| Black                  | 12,750 | 17,401 | 15,599 | 18,750 |
| White                  | 31,853 | 35,214 | 40,523 | 43,002 |
| Distribution of Income |        |        |        |        |
| Below \$12,000         | 11.1%  | 7.5%   | 6.7%   | 7.1%   |
| \$12,000-\$23,999      | 24.8%  | 22.5%  | 19.0%  | 15.8%  |
| \$24,000-\$29,999      | 12.0%  | 11.6%  | 8.4%   | 7.4%   |
| Above \$30,000         | 52.1%  | 58.4%  | 65.9%  | 69.7%  |

Table 3-12  
Special Test Administration Data

1980-83 Mean Parental Income by SAT Average  
Learning Disabled Students

| <u>SAT Average</u> | <u>N</u> | <u><math>\bar{X}</math> Income</u> |
|--------------------|----------|------------------------------------|
| 350 - 399          | (1026)   | 50,200                             |
| 400 - 449          | (741)    | 51,500                             |
| 450 - 499          | (485)    | 52,600                             |
| 500 - 549          | (222)    | 59,800                             |
| 550 - 599          | (116)    | 55,700                             |
| 600 - 649          | (36)     | 46,800                             |



Table 3-13  
Special Test Administration Data  
Degree Level Goals:  
Students with Learning Disabilities

| Year                               | '80 | '81  | '82  | '83  |
|------------------------------------|-----|------|------|------|
| Two-Year Training Program          | 4   | 4    | 5    | 4    |
| Associate of Arts Degree           | 5   | 4    | 4    | 5    |
| BA or BS Degree                    | 43  | 44   | 42   | 43   |
| MA or MS Degree                    | 18  | 19   | 18   | 20   |
| MD, PhD, Other Professional Degree | 8   | 7    | 8    | 7    |
| Undecided                          | 22  | 22   | 23   | 21   |
| Number Responding                  | 970 | 1491 | 1744 | 2120 |
| Two-Year Program or Degree         | 8   | 8    | 9    | 9    |
| Graduate Study                     | 26  | 26   | 26   | 27   |

Table 3-14  
Special Test Administration Data

Plans to Ask College for Special Assistance by Areas of Need:  
Students with Learning Disabilities

| Year                          | '80<br>% | '81<br>% | '82<br>% | '83<br>% |
|-------------------------------|----------|----------|----------|----------|
| Educational Counseling        | 29.8     | 29.0     | 29.9     | 28.5     |
| Voc./Career<br>Counseling     | 25.9     | 24.1     | 24.4     | 23.8     |
| Mathematical Skills           | 27.8     | 26.9     | 27.4     | 25.8     |
| Reading Skills                | 40.2     | 37.5     | 39.2     | 37.9     |
| Writing Skills                | 38.0     | 33.9     | 35.8     | 34.7     |
| Study Skills                  | 37.0     | 37.2     | 38.3     | 36.6     |
| Part-Time Work                | 25.2     | 23.0     | 22.4     | 23.1     |
| Personal Counseling           | 5.9      | 5.3      | 5.3      | 5.2      |
| Percent Seeking<br>Assistance | 81.8     | 81.4     | 82.0     | 80.8     |
| Number Responding             | 1028     | 1615     | 1871     | 2265     |

Table 3-15  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Intended Field of Study - First Choice  
 Students with Learning Disabilities

|                                   |           |             |            | SAT Mean Scores |     |
|-----------------------------------|-----------|-------------|------------|-----------------|-----|
|                                   | Male<br>% | Female<br>% | Total<br>% | Total<br>%      |     |
| Agriculture                       | 4.0       | 1.5         | 3.3        | 340             | 379 |
| Arch./Envir. Design               | 3.3       | 0.8         | 2.6        | 357             | 429 |
| Art                               | 4.7       | 12.6        | 7.0        | 343             | 362 |
| Biological Sciences               | 2.9       | 2.0         | 2.6        | 387             | 419 |
| Business & Commerce               | 24.7      | 13.6        | 21.5       | 339             | 385 |
| Communications                    | 4.2       | 2.8         | 3.8        | 354             | 361 |
| Computer Science/Sys.<br>Analysis | 5.3       | 3.1         | 4.7        | 348             | 422 |
| Education                         | 5.3       | 18.2        | 9.1        | 319             | 347 |
| Engineering                       | 12.4      | 1.4         | 9.2        | 374             | 448 |
| English/Literature                | 0.5       | 1.3         | 0.8        | 427             | 386 |
| Ethnic Studies                    | 0.1       | 0.0         | 0.1        | 286             | 364 |
| Foreign Languages                 | 0.1       | 0.2         | 0.1        | 359             | 391 |
| Forestry/Conservation             | 1.9       | 0.4         | 1.5        | 351             | 379 |
| Geography                         | 0.1       | 0.0         | 0.1        | 280             | 273 |
| Health & Medical                  | 3.2       | 13.8        | 6.3        | 339             | 380 |
| History & Culture                 | 1.3       | 0.6         | 1.1        | 408             | 396 |
| Home Economics                    | 0.2       | 1.7         | 0.7        | 311             | 327 |
| Library Science                   | 0.0       | 0.0         | 0.0        | 350             | 250 |
| Mathematics                       | 0.5       | 0.5         | 0.5        | 372             | 496 |
| Military Science                  | 1.3       | 0.0         | 0.9        | 356             | 396 |
| Music                             | 1.3       | 1.3         | 1.3        | 353             | 349 |
| Philosophy & Religion             | 0.5       | 0.3         | 0.5        | 363             | 413 |
| Physical Sciences                 | 1.8       | 0.7         | 1.5        | 390             | 467 |
| Psychology                        | 1.6       | 5.2         | 2.7        | 373             | 391 |
| Social Sciences                   | 6.0       | 5.7         | 5.9        | 376             | 386 |
| Theater Arts                      | 1.3       | 3.4         | 2.0        | 371             | 378 |
| Trade & Vocational                | 1.8       | 1.1         | 1.6        | 310             | 334 |
| Other                             | 2.0       | 1.7         | 2.0        | 342             | 380 |
| Undecided                         | 7.3       | 6.0         | 6.9        | 351             | 394 |
| # Responding                      | 4009      | 1658        | 5667       |                 |     |

Table 3-16  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Plans to Apply for Advanced Placement or Course Credit  
 Students with Learning Disabilities

| <u>Subject Area</u> | <u>Z</u> |
|---------------------|----------|
| English             | 8.2      |
| Mathematics         | 9.3      |
| Foreign Languages   | 3.4      |
| Biological Sciences | 5.0      |
| Physical Sciences   | 5.1      |
| Social Studies      | 8.0      |
| Art and Music       | 6.7      |
| Any Subject         | 45.8     |
| # Responding        | 7327     |

Table 3-17  
 Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Housing Preferences  
 Students with Learning Disabilities

| <u>Preference</u>      | <u>Z</u> |
|------------------------|----------|
| At Home                | 17       |
| Dormitory              | 65       |
| Single Sex             | 22       |
| Coed                   | 43       |
| Fraternity or Sorority | 5        |
| Own Apartment          | 13       |
| On Campus              | 8        |
| Off Campus             | 5        |
| Number Responding      | 6704     |

Table 3-18  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Extracurricular Activities in High School & Plans for College  
 Students with Learning Disabilities

|  |          |
|--|----------|
| <u>Active in High School</u>                 | <u>Z</u> |
| Athletics, incl. Intramural<br>and Community | 68       |
| Ethnic Organizations                         | 5        |
| Journalism, Debate, Drama                    | 19       |
| Art, Music or Dance                          | 35       |
| Dept. or Preprofessional Clubs               | 8        |
| Religious Organizations                      | 26       |
| Social or Community Club                     | 34       |
| Student Government                           | 14       |
| <br>   |          |
| <u>Will be Active in College</u>             | <u>Z</u> |
| Athletics, incl. Intramural<br>and Community | 55       |
| Ethnic Organizations                         | 4        |
| Journalism, Debate, Drama                    | 18       |
| Art, Music, or Dance                         | 30       |
| Dept. or Preprofessional Clubs               | 13       |
| Religious Organizations                      | 16       |
| Social or Community Club                     | 36       |
| Student Government                           | 15       |

Table 3-19  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Self-Reported Skills and Abilities  
 Total Students with Learning Disabilities

| <u>TOP 10%</u>                      | <u>Z</u> |
|-------------------------------------|----------|
| Ability to get along<br>with others | 58.4     |
| Acting                              | 12.7     |
| Art                                 | 18.4     |
| Athletics                           | 36.8     |
| Creative Writing                    | 12.6     |
| Leadership                          | 36.5     |
| Mathematics                         | 13.8     |
| Mechanics                           | 21.9     |
| Music                               | 12.9     |
| Organizing for Work                 | 21.5     |
| Sales                               | 24.0     |
| Science                             | 12.5     |
| Spoken Expression                   | 24.9     |
| Written Expression                  | 12.8     |
| <u>ABOVE AVERAGE</u>                | <u>Z</u> |
| Ability to get along<br>with others | 86.2     |
| Acting                              | 33.6     |
| Art                                 | 41.3     |
| Athletics                           | 65.3     |
| Creative Writing                    | 38.1     |
| Leadership                          | 66.0     |
| Mathematics                         | 36.6     |
| Mechanics                           | 48.1     |
| Music                               | 29.9     |
| Organizing for Work                 | 52.6     |
| Sales                               | 53.5     |
| Science                             | 36.9     |
| Spoken Expression                   | 56.5     |
| Written Expression                  | 37.7     |

Table 3-20

Percentage of Seniors and Learning Disabled Students  
Eligible if Single Index Minimums are Used:  
High School Rank, High School Grade Point Average, and SAT Total Score

| <u>Single Index<br/>Minimums</u> | <u>Percent Eligible</u> |                          |                             |
|----------------------------------|-------------------------|--------------------------|-----------------------------|
|                                  | <u>Original Group</u>   | <u>Learning Disabled</u> | <u>Differential Percent</u> |
|                                  | N = 82,245              | N = 5349                 |                             |
| <u>High School Rank</u>          |                         |                          |                             |
| HS Rank in Top 1/5               | 44                      | 12                       | -32                         |
| HS Rank in Top 2/5's             | 71                      | 32                       | -39                         |
| HS Rank in Top 3/5's             | 97                      | 81                       | -16                         |
| HS Rank in Top 4/5's             | 100                     | 95                       | -5                          |
|                                  | N = 85,469              | N = 6049                 |                             |
| <u>High School GPA</u>           |                         |                          |                             |
| HSGPA > 3.50                     | 27                      | 4                        | -23                         |
| HSGPA > 3.25                     | 40                      | 10                       | -30                         |
| HSGPA > 3.00                     | 58                      | 23                       | -35                         |
| HSGPA > 2.75                     | 70                      | 34                       | -36                         |
| HSGPA > 2.50                     | 82                      | 52                       | -30                         |
| HSGPA > 2.25                     | 91                      | 69                       | -22                         |
| HSGPA > 2.00                     | 97                      | 86                       | -11                         |
|                                  | N = 86,190              | N = 6166                 |                             |
| <u>SAT Total Score</u>           |                         |                          |                             |
| SAT > 1100                       | 18                      | 3                        | -15                         |
| SAT > 1000                       | 33                      | 8                        | -25                         |
| SAT > 900                        | 51                      | 19                       | -32                         |
| SAT > 800                        | 68                      | 34                       | -34                         |
| SAT > 700                        | 84                      | 55                       | -29                         |
| SAT > 600                        | 93                      | 79                       | -14                         |
| SAT > 500                        | 98                      | 95                       | -3                          |

Table 3-21

Percentage of Seniors and Learning Disabled Students  
Eligible if Multiple Index Minimums Are Used:  
High School Rank and SAT Total Score

| High School Rank/<br>SAT Total Minimums | Percent Eligible |                   |                      |
|---|------------------|-------------------|----------------------|
|   | Original Group   | Learning Disabled | Differential Percent |
|   | N = 81,930       | N = 5349          |                      |
| <u>Upper Fifth</u>                      |                  |                   |                      |
| SAT > 1100                              | 15               | 1                 | -14                  |
| SAT > 1000                              | 25               | 3                 | -22                  |
| SAT > 900                               | 32               | 5                 | -27                  |
| SAT > 800                               | 38               | 7                 | -31                  |
| SAT > 700                               | 42               | 9                 | -33                  |
| SAT > 600                               | 43               | 11                | -32                  |
| SAT > 500                               | 44               | 12                | -32                  |
| <u>Upper Two Fifths</u>                 |                  |                   |                      |
| SAT > 1100                              | 18               | 2                 | -16                  |
| SAT > 1000                              | 31               | 5                 | -26                  |
| SAT > 900                               | 44               | 10                | -34                  |
| SAT > 800                               | 56               | 16                | -40                  |
| SAT > 700                               | 64               | 23                | -41                  |
| SAT > 600                               | 68               | 28                | -40                  |
| SAT > 500                               | 70               | 32                | -38                  |
| <u>Upper Three Fifths</u>               |                  |                   |                      |
| SAT > 1100                              | 19               | 3                 | -16                  |
| SAT > 1000                              | 33               | 8                 | -25                  |
| SAT > 900                               | 51               | 17                | -34                  |
| SAT > 800                               | 67               | 30                | -37                  |
| SAT > 700                               | 82               | 48                | -34                  |
| SAT > 600                               | 91               | 66                | -25                  |
| SAT > 500                               | 95               | 78                | -17                  |



Table 3-22

Percentage of Seniors and Learning Disabled Students  
Eligible if Multiple Index Minimums Are Used:  
High School Grade Point Average and SAT Total Score

| High School GPA/<br>SAT Total Minimums | Percent Eligible |                   |                      |
|--|------------------|-------------------|----------------------|
|  | Original Group   | Learning Disabled | Differential Percent |
|  | N = 85,136       | N = 6049          |                      |
| <b>HSGPA &gt; 3.00</b>                 |                  |                   |                      |
| SAT > 1100                             | 16               | 2                 | -14                  |
| SAT > 1000                             | 27               | 4                 | -23                  |
| SAT > 900                              | 38               | 7                 | -31                  |
| SAT > 800                              | 47               | 11                | -36                  |
| SAT > 700                              | 54               | 16                | -38                  |
| SAT > 600                              | 56               | 20                | -36                  |
| SAT > 500                              | 58               | 22                | -36                  |
| <b>HSGPA &gt; 2.50</b>                 |                  |                   |                      |
| SAT > 1100                             | 18               | 3                 | -15                  |
| SAT > 1000                             | 31               | 6                 | -25                  |
| SAT > 900                              | 47               | 13                | -34                  |
| SAT > 800                              | 61               | 23                | -38                  |
| SAT > 700                              | 73               | 34                | -39                  |
| SAT > 600                              | 79               | 46                | -33                  |
| SAT > 500                              | 81               | 54                | -27                  |
| <b>HSGPA &gt; 2.00</b>                 |                  |                   |                      |
| SAT > 1100                             | 18               | 3                 | -15                  |
| SAT > 1000                             | 33               | 8                 | -25                  |
| SAT > 900                              | 50               | 17                | -33                  |
| SAT > 800                              | 67               | 31                | -36                  |
| SAT > 700                              | 81               | 49                | -32                  |
| SAT > 600                              | 91               | 69                | -22                  |
| SAT > 500                              | 95               | 82                | -13                  |

Table 3-23

Percentage of Seniors and Learning Disabled Students  
Eligible if Either/Or Minimums are Used  
High School Rank or SAT Total Score

| High Rank School or<br>SAT Total Minimums | Percent Eligible |                   |                      |
|---|------------------|-------------------|----------------------|
|   | Original Group   | Learning Disabled | Differential Percent |
|   | N = 84,617       | N = 5349          |                      |
| <u>Upper Fifth</u>                        |                  |                   |                      |
| or SAT > 1100                             | 49               | 14                | -35                  |
| or SAT > 1000                             | 54               | 18                | -36                  |
| or SAT > 900                              | 63               | 26                | -37                  |
| or SAT > 800                              | 76               | 40                | -36                  |
| or SAT > 700                              | 87               | 59                | -28                  |
| <u>Upper Two Fifths</u>                   |                  |                   |                      |
| or SAT > 1100                             | 73               | 33                | -40                  |
| or SAT > 1000                             | 74               | 35                | -39                  |
| or SAT > 900                              | 78               | 40                | -38                  |
| or SAT > 800                              | 84               | 50                | -34                  |
| or SAT > 700                              | 90               | 65                | -25                  |
| <u>Upper Three Fifths</u>                 |                  |                   |                      |
| or SAT > 1100                             | 97               | 81                | -16                  |
| or SAT > 1000                             | 97               | 81                | -16                  |
| or SAT > 900                              | 97               | 82                | -15                  |
| or SAT > 800                              | 98               | 85                | -13                  |
| or SAT > 700                              | 98               | 88                | -10                  |

Table 3-24

Percentage of Seniors and Learning Disabled Students  
Eligible if Either/Or Minimums Are Used:  
High School Grade Point Average or SAT Total Score

| High School GPA or<br>SAT Total Minimums | Percent Eligible |                   |                      |
|--|------------------|-------------------|----------------------|
|  | Original Group   | Learning Disabled | Differential Percent |
|  | N = 85,136       | N = 6049          |                      |
| <u>HSGPA &gt; 3.00</u>                   |                  |                   |                      |
| or SAT > 1100                            | 59               | 24                | -35                  |
| or SAT > 1000                            | 63               | 27                | -36                  |
| or SAT > 900                             | 70               | 34                | -36                  |
| or SAT > 800                             | 79               | 46                | -33                  |
| or SAT > 700                             | 88               | 62                | -26                  |
| <u>HSGPA &gt; 2.50</u>                   |                  |                   |                      |
| or SAT > 1100                            | 83               | 53                | -30                  |
| or SAT > 1000                            | 84               | 54                | -30                  |
| or SAT > 900                             | 86               | 58                | -28                  |
| or SAT > 800                             | 89               | 64                | -25                  |
| or SAT > 700                             | 93               | 74                | -19                  |
| <u>HSGPA &gt; 2.00</u>                   |                  |                   |                      |
| or SAT > 1100                            | 97               | 86                | -11                  |
| or SAT > 1000                            | 97               | 86                | -11                  |
| or SAT > 900                             | 97               | 87                | -10                  |
| or SAT > 800                             | 98               | 89                | -9                   |
| or SAT > 700                             | 99               | 92                | -7                   |

Table 3-25

Percentage of Seniors and Learning Disabled Students  
Eligible if Sliding Scales Based on High School Rank and  
SAT Total Scores Are Used:

| Sliding Scales              | Percent Eligible |                   |                      |
|-----------------------------|------------------|-------------------|----------------------|
|                             | Original Group   | Learning Disabled | Differential Percent |
|                             | N = 82,245       | N = 5349          |                      |
| <b>Sliding Scale A</b>      |                  |                   |                      |
| Upper Tenth, No SAT Minimum | 22               | 4                 | -18                  |
| Second Tenth, SAT > 600     | 21               | 7                 | -14                  |
| Second Fifth, SAT > 800     | 18               | 9                 | -9                   |
| Third Fifth SAT > 1000      | 3                | 2                 | -1                   |
| Fourth Fifth SAT > 1200     | 0                | 0                 | 0                    |
| Last Fifth SAT > 1400       | 0                | 0                 | 0                    |
| Total Percent               | 64               | 22                | -42                  |
| <b>Sliding Scale B</b>      |                  |                   |                      |
| Upper Tenth, No SAT Minimum | 22               | 4                 | -18                  |
| Second Tenth, SAT > 600     | 21               | 8                 | -13                  |
| Second Fifth, SAT > 800     | 23               | 14                | -9                   |
| Third Fifth SAT > 1000      | 6                | 7                 | +1                   |
| Fourth Fifth SAT > 1200     | 0                | 0                 | 0                    |
| Last Fifth SAT > 1400       | 0                | 0                 | 0                    |
| Total Percent               | 72               | 33                | -39                  |
| <b>Sliding Scale C</b>      |                  |                   |                      |
| Upper Tenth, No SAT Minimum | 22               | 4                 | -18                  |
| Second Tenth, SAT > 600     | 22               | 8                 | -14                  |
| Second Fifth, SAT > 800     | 25               | 17                | -8                   |
| Third Fifth SAT > 1000      | 11               | 14                | +3                   |
| Fourth Fifth SAT > 1200     | 0                | 0                 | 0                    |
| Last Fifth SAT > 1400       | 0                | 0                 | 0                    |
| Total Percent               | 80               | 43                | -37                  |

Table 3-26

Percentage of Seniors and Learning Disabled Students  
Eligible if Sliding Scales Based on High School GPAs  
and SAT Total Scores Are Used

| Sliding Scales           | Percent Eligible |                   |                      |
|--------------------------|------------------|-------------------|----------------------|
|                          | Original Group   | Learning Disabled | Differential Percent |
|                          | N = 85,469       | N = 6049          |                      |
| <b>Sliding Scale D</b>   |                  |                   |                      |
| 3.40 GPA, No SAT Minimum | 32               | 6                 | -26                  |
| 3.30 GPA, SAT > 400      | 5                | 2                 | -3                   |
| 3.20 GPA, SAT > 500      | 7                | 3                 | -4                   |
| 3.10 GPA, SAT > 600      | 5                | 3                 | -2                   |
| 3.00 GPA, SAT > 700      | 7                | 5                 | -2                   |
| 2.90 GPA, SAT > 800      | 2                | 1                 | -1                   |
| 2.80 GPA, SAT > 900      | 3                | 1                 | -2                   |
| 2.70 GPA, SAT > 1000     | 1                | 1                 | 0                    |
| 2.60 GPA, SAT > 1100     | 0                | 0                 | 0                    |
| 2.60 GPA, SAT > 1200     | 0                | 0                 | 0                    |
| Total Percent            | 62               | 22                | -40                  |
| <b>Sliding Scale E</b>   |                  |                   |                      |
| 3.40 GPA, No SAT Minimum | 32               | 6                 | -26                  |
| 3.20 GPA, SAT > 400      | 12               | 5                 | -7                   |
| 3.00 GPA, SAT > 500      | 14               | 11                | -3                   |
| 2.80 GPA, SAT > 600      | 9                | 6                 | -3                   |
| 2.60 GPA, SAT > 700      | 8                | 7                 | -1                   |
| 2.40 GPA, SAT > 800      | 4                | 4                 | 0                    |
| 2.20 GPA, SAT > 900      | 1                | 2                 | +1                   |
| 2.00 GPA, SAT > 1000     | 0                | 1                 | +1                   |
| 1.80 GPA, SAT > 1100     | 0                | 0                 | 0                    |
| 1.60 GPA, SAT > 1200     | 0                | 0                 | 0                    |
| 1.40 GPA, SAT > 1300     | 0                | 0                 | 0                    |
| 1.20 GPA, SAT > 1400     | 0                | 0                 | 0                    |
| 1.00 GPA, SAT < 1500     | 0                | 0                 | 0                    |
| Total Percent            | 80               | 42                | -38                  |

Table 3-27

Percentage of Seniors and Learning Disabled Students  
Eligible if a Predicted Freshman GPA of 2.5 Is Used:  
Predictions for 10 State Institutions

| Inst.<br>Code | Mean Rank |     | Location | Percent Eligible |                   |                      |
|---------------|-----------|-----|----------|------------------|-------------------|----------------------|
|               | HSGPA     | SAT |          | Original Group   | Learning Disabled | Differential Percent |
|               |           |     |          | N = 85,136       | N = 6049          |                      |
| A             | 2         | 2   | Midwest  | 69               | 29                | -40                  |
| B             | 8         | 5   | East     | 68               | 28                | -40                  |
| C             | 9         | 9   | Midwest  | 60               | 10                | -50                  |
| D             | 5         | 3   | East     | 57               | 17                | -40                  |
| E             | 4         | 4   | West     | 49               | 9                 | -40                  |
| F             | 10        | 8   | South    | 46               | 22                | -24                  |
| G             | 3         | 6   | West     | 44               | 12                | -32                  |
| H             | 7         | 7   | East     | 44               | 9                 | -35                  |
| I             | 1         | 1   | West     | 43               | 8                 | -35                  |
| J             | 6         | 10  | South    | 40               | 7                 | -33                  |

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Table 3-28

## Comparison of Models

| Model/Minimums                 | Percent Eligible |                   |                      |
|--------------------------------|------------------|-------------------|----------------------|
|                                | Original Group   | Learning Disabled | Differential Percent |
| <b>Single Index</b>            |                  |                   |                      |
| Rank in Top 2/5's              | 71               | 32                | -39                  |
| GPA > 2.75                     | 70               | 34                | -36                  |
| SAT > 800                      | 68               | 34                | -34                  |
| <b>Multiple Index</b>          |                  |                   |                      |
| GPA > 2.50 and SAT > 700       | 73               | 34                | -39                  |
| Top 2/5's and SAT > 500        | 70               | 32                | -38                  |
| Top 2/5's and SAT > 600        | 68               | 28                | -40                  |
| Top 3/5's and SAT > 800        | 67               | 30                | -37                  |
| GPA > 2.0 and SAT > 800        | 67               | 31                | -36                  |
| <b>Either-or</b>               |                  |                   |                      |
| Top 1/5 <u>or</u> SAT > 800    | 76               | 40                | -36                  |
| Top 2/5's <u>or</u> SAT > 1000 | 74               | 35                | -39                  |
| Top 2/5's <u>or</u> SAT > 1100 | 73               | 33                | -40                  |
| GPA > 3.0 <u>or</u> SAT > 900  | 70               | 34                | -36                  |
| <b>Sliding Scale</b>           |                  |                   |                      |
| Sliding Scale B                | 72               | 33                | -39                  |
| <b>Predicted Performance</b>   |                  |                   |                      |
| Institution A                  | 69               | 29                | -40                  |
| Institution B                  | 68               | 28                | -40                  |

\*These comparisons are limited to situations where about three-fourths of White seniors were eligible in the original study.

Table 4-1  
Special Test Administration Data

SAT Scores  
Students with a Physical Disability

|                      | VERBAL   |          |          |          | MATH     |          |          |          |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      | '80<br>% | '81<br>% | '82<br>% | '83<br>% | '80<br>% | '81<br>% | '82<br>% | '83<br>% |
| <b>Male Scores</b>   |          |          |          |          |          |          |          |          |
| 700 - 800            | 0.0      | 2.3      | 0.7      | 0.6      | 1.8      | 4.7      | 3.5      | 2.7      |
| 600 - 699            | 3.1      | 6.4      | 4.2      | 3.3      | 13.2     | 12.2     | 8.5      | 8.0      |
| 500 - 599            | 15.3     | 15.1     | 14.8     | 18.2     | 16.8     | 20.3     | 11.3     | 22.5     |
| 400 - 499            | 30.7     | 31.4     | 23.9     | 29.8     | 25.7     | 20.3     | 23.2     | 25.7     |
| 300 - 399            | 30.7     | 35.5     | 31.7     | 33.1     | 31.7     | 32.0     | 36.6     | 33.2     |
| 200 - 299            | 20.2     | 9.3      | 24.6     | 14.9     | 10.8     | 10.5     | 16.9     | 8.0      |
| Number               | 163      | 172      | 142      | 181      | 167      | 172      | 142      | 187      |
| Mean                 | 394      | 427      | 386      | 409      | 438      | 453      | 411      | 441      |
| S. D.                | 108      | 113      | 114      | 106      | 122      | 133      | 127      | 120      |
| <b>Female Scores</b> |          |          |          |          |          |          |          |          |
| 700 - 800            | 1.8      | 0.0      | 0.0      | 1.5      | 1.8      | 2.7      | 0.9      | 0.7      |
| 600 - 699            | 2.7      | 8.8      | 2.7      | 2.3      | 4.3      | 4.5      | 4.4      | 4.4      |
| 500 - 599            | 10.7     | 13.3     | 10.8     | 13.0     | 12.2     | 15.3     | 4.4      | 17.8     |
| 400 - 499            | 25.9     | 31.0     | 36.9     | 30.5     | 20.9     | 18.9     | 29.2     | 27.4     |
| 300 - 399            | 33.9     | 31.9     | 33.3     | 35.1     | 36.5     | 46.8     | 46.0     | 32.6     |
| 200 - 299            | 25.0     | 15.0     | 16.2     | 17.6     | 24.3     | 11.7     | 15.0     | 17.0     |
| Number               | 112      | 113      | 111      | 131      | 115      | 111      | 113      | 135      |
| Mean                 | 378      | 416      | 396      | 400      | 390      | 411      | 385      | 408      |
| S. D.                | 116      | 117      | 100      | 105      | 119      | 114      | 94       | 105      |
| <b>Total Scores</b>  |          |          |          |          |          |          |          |          |
| 700 - 800            | 0.7      | 1.4      | 0.4      | 1.0      | 1.8      | 3.9      | 2.4      | 1.8      |
| 600 - 699            | 2.9      | 7.4      | 3.6      | 2.9      | 9.6      | 9.2      | 6.7      | 6.5      |
| 500 - 599            | 13.5     | 14.4     | 13.0     | 16.0     | 14.9     | 18.4     | 8.2      | 20.5     |
| 400 - 499            | 28.7     | 31.2     | 29.6     | 30.1     | 23.8     | 19.8     | 25.9     | 26.4     |
| 300 - 399            | 32.0     | 34.0     | 32.4     | 34.0     | 33.7     | 37.8     | 40.8     | 32.9     |
| 200 - 299            | 22.2     | 11.6     | 20.9     | 16.0     | 16.3     | 11.0     | 16.1     | 11.8     |
| Number               | 275      | 285      | 253      | 312      | 32       | 283      | 255      | 322      |
| Mean                 | 387      | 422      | 391      | 405      | 9        | 437      | 400      | 427      |
| S. D.                | 111      | 115      | 108      | 106      | 124      | 127      | 115      | 115      |



Table 4-2  
Special Test Administration Data

SAT Verbal Subscores  
Students With A Physical Disability

|                      | READING COMPREHENSION |      |      |      | VOCABULARY |      |      |      |
|----------------------|-----------------------|------|------|------|------------|------|------|------|
|                      | '80                   | '81  | '82  | '83  | '80        | '81  | '82  | '83  |
|                      | %                     | %    | %    | %    | %          | %    | %    | %    |
| <b>Male Scores</b>   |                       |      |      |      |            |      |      |      |
| 70 - 80              | 0                     | 1    | 1    | 1    | 2          | 3    | 1    | 1    |
| 60 - 69              | 2                     | 6    | 3    | 6    | 4          | 6    | 4    | 2    |
| 50 - 59              | 14                    | 19   | 15   | 14   | 18         | 15   | 19   | 21   |
| 40 - 49              | 34                    | 29   | 25   | 31   | 27         | 38   | 22   | 33   |
| 30 - 39              | 27                    | 32   | 29   | 35   | 31         | 30   | 35   | 28   |
| 20 - 29              | 23                    | 13   | 27   | 13   | 18         | 8    | 19   | 15   |
| Number               | 163                   | 172  | 142  | 181  | 166        | 172  | 142  | 184  |
| Mean                 | 39.0                  | 42.0 | 38.1 | 40.6 | 40.6       | 43.4 | 39.8 | 41.8 |
| S. D.                | 10.5                  | 11.4 | 11.7 | 11.0 | 11.4       | 11.4 | 11.6 | 10.5 |
| <b>Female Scores</b> |                       |      |      |      |            |      |      |      |
| 70 - 80              | 0                     | 0    | 0    | 1    | 3          | 2    | 0    | 1    |
| 60 - 69              | 4                     | 7    | 4    | 3    | 6          | 9    | 5    | 4    |
| 50 - 59              | 11                    | 16   | 9    | 12   | 11         | 16   | 12   | 12   |
| 40 - 49              | 26                    | 31   | 42   | 37   | 22         | 29   | 32   | 31   |
| 30 - 39              | 36                    | 31   | 30   | 32   | 32         | 29   | 36   | 35   |
| 20 - 29              | 23                    | 15   | 15   | 15   | 26         | 15   | 15   | 17   |
| Number               | 112                   | 113  | 111  | 131  | 112        | 113  | 112  | 132  |
| Mean                 | 37.9                  | 41.2 | 40.0 | 40.8 | 38.5       | 42.4 | 39.6 | 39.7 |
| S. D.                | 10.7                  | 11.1 | 9.9  | 10.5 | 12.8       | 12.4 | 10.3 | 10.7 |
| <b>Total Score</b>   |                       |      |      |      |            |      |      |      |
| 70 - 80              | 0                     | 0    | 0    | 1    | 2          | 3    | 1    | 1    |
| 60 - 69              | 3                     | 6    | 3    | 5    | 5          | 7    | 4    | 3    |
| 50 - 59              | 13                    | 18   | 13   | 13   | 15         | 15   | 16   | 17   |
| 40 - 49              | 31                    | 30   | 33   | 33   | 25         | 34   | 26   | 32   |
| 30 - 39              | 30                    | 32   | 29   | 34   | 32         | 30   | 36   | 31   |
| 20 - 29              | 23                    | 14   | 22   | 14   | 21         | 11   | 17   | 16   |
| Number               | 275                   | 285  | 253  | 312  | 278        | 285  | 254  | 316  |
| Mean                 | 38.6                  | 41.7 | 38.9 | 40.7 | 39.7       | 43.0 | 39.7 | 41.0 |
| S. D.                | 10.6                  | 11.3 | 11.0 | 10.8 | 12.0       | 11.8 | 11.0 | 10.6 |

Table 4-3  
Special Test Administration Data

Test of Standard Written English (TSWE) Scores  
for Students with Physical Disabilities

|                      | '80  | '81  | '82  | '83  |
|----------------------|------|------|------|------|
|                      | %    | %    | %    | %    |
| <b>Male Scores</b>   |      |      |      |      |
| 60 +                 | 1    | 1    | 2    | 3    |
| 50 - 59              | 17   | 24   | 13   | 16   |
| 40 - 49              | 25   | 36   | 25   | 34   |
| 30 - 39              | 30   | 20   | 36   | 26   |
| 20 - 29              | 27   | 19   | 24   | 21   |
| Number               | 162  | 172  | 142  | 181  |
| Mean                 | 37.6 | 41.3 | 37.5 | 39.4 |
| S. D.                | 11.0 | 10.9 | 11.3 | 11.1 |
| <b>Female Scores</b> |      |      |      |      |
| 60 +                 | 3    | 3    | 2    | 0    |
| 50 - 59              | 17   | 25   | 12   | 18   |
| 40 - 49              | 23   | 29   | 44   | 32   |
| 30 - 39              | 30   | 25   | 28   | 29   |
| 20 - 29              | 27   | 18   | 14   | 21   |
| Number               | 112  | 113  | 111  | 131  |
| Mean                 | 38.3 | 41.7 | 40.4 | 39.8 |
| S. D.                | 11.6 | 10.9 | 9.7  | 10.7 |
| <b>Total Scores</b>  |      |      |      |      |
| 60 +                 | 2    | 1    | 2    | 2    |
| 50 - 59              | 17   | 25   | 12   | 17   |
| 40 - 49              | 24   | 33   | 33   | 33   |
| 30 - 39              | 30   | 22   | 33   | 27   |
| 20 - 29              | 27   | 19   | 20   | 21   |
| Number               | 274  | 285  | 253  | 312  |
| Mean                 | 37.9 | 41.5 | 38.7 | 39.6 |
| S. D.                | 11.3 | 10.9 | 10.7 | 10.9 |

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Table 4-4  
Special Test Administration Data

Comparison of 1980-83 Mean SAT Scores for  
All Test-Takers & SDQ Respondents with Physical Disabilities

|                | <u>'80-'83 Total Group</u> |                   | <u>'80-'83 Group with SDQs</u> |                   |
|----------------|----------------------------|-------------------|--------------------------------|-------------------|
|                | <u>SAT-V</u><br>%          | <u>SAT-M</u><br>% | <u>SAT--V</u><br>%             | <u>SAT-M</u><br>% |
| <b>Males</b>   |                            |                   |                                |                   |
| 700 - 800      | 1                          | 3                 | 1                              | 4                 |
| 600 - 699      | 4                          | 11                | 4                              | 10                |
| 500 - 599      | 16                         | 18                | 17                             | 19                |
| 400 - 499      | 29                         | 24                | 31                             | 24                |
| 300 - 399      | 33                         | 33                | 32                             | 32                |
| 200 - 299      | 17                         | 11                | 15                             | 11                |
| Number         | 658                        | 668               | 479                            | 486               |
| Mean           | 405                        | 437               | 410                            | 441               |
| S. D.          | 111                        | 126               | 110                            | 128               |
| <b>Females</b> |                            |                   |                                |                   |
| 700 - 800      | 1                          | 2                 | 0                              | 1                 |
| 600 - 699      | 4                          | 4                 | 4                              | 4                 |
| 500 - 599      | 12                         | 13                | 13                             | 13                |
| 400 - 499      | 31                         | 24                | 32                             | 26                |
| 300 - 399      | 34                         | 40                | 34                             | 40                |
| 200 - 299      | 18                         | 17                | 17                             | 16                |
| Number         | 467                        | 474               | 374                            | 384               |
| Mean           | 398                        | 399               | 400                            | 398               |
| S. D.          | 110                        | 109               | 108                            | 105               |
| <b>Total</b>   |                            |                   |                                |                   |
| 700 - 800      | 1                          | 2                 | 0                              | 3                 |
| 600 - 699      | 4                          | 8                 | 4                              | 8                 |
| 500 - 599      | 14                         | 16                | 15                             | 16                |
| 400 - 499      | 30                         | 24                | 31                             | 25                |
| 300 - 399      | 33                         | 36                | 33                             | 35                |
| 200 - 299      | 18                         | 14                | 16                             | 13                |
| Number         | 1125                       | 1142              | 853                            | 870               |
| Mean           | 402                        | 421               | 406                            | 422               |
| S. D.          | 111                        | 121               | 109                            | 120               |

Table 4-5

Special Test Administration Data  
Collapsed Over Four Years ('80-'83)

Type of High School  
Students with Physical Disabilities

|                   |      |
|-------------------|------|
| Public            | 81.1 |
| Private           | 18.9 |
| Number Responding | 944  |

Table 4-6  
Special Test Administration Data

Latest Self-Reported Grade: Students With a Physical Disability

| Year                   | '80                     | '81  | '82  | '83  | '80                       | '81  | '82  | '83  |
|------------------------|-------------------------|------|------|------|---------------------------|------|------|------|
|                        | %                       | %    | %    | %    | %                         | %    | %    | %    |
| <b>TOTAL</b>           | <b>ENGLISH</b>          |      |      |      | <b>MATHEMATICS</b>        |      |      |      |
| A (4.0)                | 25                      | 26   | 26   | 27   | 23                        | 21   | 24   | 23   |
| B (3.0)                | 53                      | 52   | 50   | 47   | 34                        | 37   | 34   | 37   |
| C (2.0)                | 20                      | 20   | 22   | 24   | 29                        | 28   | 32   | 32   |
| D (1.0)                | 2                       | 2    | 2    | 2    | 12                        | 12   | 9    | 7    |
| No Graded Courses      | 0                       | 0    | 0    | 0    | 2                         | 2    | 1    | 1    |
| Number                 | 228                     | 231  | 208  | 251  | 229                       | 232  | 206  | 251  |
| Mean                   | 2.99                    | 3.02 | 3.00 | 2.98 | 2.66                      | 2.63 | 2.72 | 2.75 |
| Percent Honors Courses | 6                       | 9    | 12   | 13   | 7                         | 7    | 5    | 6    |
| <b>TOTAL</b>           | <b>FOREIGN LANGUAGE</b> |      |      |      | <b>BIOLOGICAL SCIENCE</b> |      |      |      |
| A (4.0)                | 27                      | 27   | 23   | 27   | 21                        | 24   | 24   | 23   |
| B (3.0)                | 41                      | 36   | 47   | 41   | 43                        | 43   | 45   | 42   |
| C (2.0)                | 25                      | 29   | 23   | 27   | 29                        | 27   | 24   | 31   |
| D (1.0)                | 5                       | 7    | 5    | 4    | 6                         | 5    | 6    | 4    |
| No Graded Courses      | 2                       | 1    | 2    | 1    | 1                         | 1    | 1    | 0    |
| Number                 | 165                     | 180  | 150  | 196  | 209                       | 212  | 190  | 229  |
| Mean                   | 2.87                    | 2.83 | 2.63 | 2.88 | 2.78                      | 2.86 | 2.85 | 2.82 |
| Percent Honors Courses | 9                       | 8    | 7    | 7    | 6                         | 5    | 5    | 6    |
| <b>TOTAL</b>           | <b>PHYSICAL SCIENCE</b> |      |      |      | <b>SOCIAL STUDIES</b>     |      |      |      |
| A (4.0)                | 22                      | 22   | 21   | 25   | 33                        | 33   | 31   | 29   |
| B (3.0)                | 44                      | 38   | 47   | 37   | 45                        | 44   | 43   | 47   |
| C (2.0)                | 27                      | 32   | 25   | 31   | 18                        | 20   | 23   | 21   |
| D (1.0)                | 6                       | 7    | 6    | 7    | 4                         | 3    | 3    | 3    |
| No Graded Courses      | 1                       | 1    | 1    | 0    | 0                         | 0    | 0    | 0    |
| Number                 | 179                     | 190  | 169  | 209  | 222                       | 226  | 207  | 249  |
| Mean                   | 2.80                    | 2.74 | 2.80 | 2.79 | 3.06                      | 3.08 | 3.01 | 3.04 |
| Percent Honors Courses | 6                       | 7    | 6    | 5    | 5                         | 8    | 10   | 9    |

Table 4-7  
Special Test Administration Data

Number of Years of Study of Subject: Students with a Physical Disability

| Year               | '80                      | '81  | '82  | '83  | '80                        | '81  | '82  | '83  |
|--------------------|--------------------------|------|------|------|----------------------------|------|------|------|
|                    | %                        | %    | %    | %    | %                          | %    | %    | %    |
| <b>TOTAL</b>       | <b>ENGLISH</b>           |      |      |      | <b>MATHEMATICS</b>         |      |      |      |
| No Courses         | 0                        | 0    | 7    | 0    | 0                          | 0    | 0    | 0    |
| One Year           | 1                        | 1    | 1    | 3    | 3                          | 3    | 3    | 5    |
| Two Years          | 0                        | 2    | 3    | 3    | 19                         | 11   | 12   | 9    |
| Three Years        | 9                        | 7    | 6    | 6    | 30                         | 30   | 29   | 31   |
| Four Years         | 79                       | 80   | 82   | 79   | 39                         | 47   | 46   | 47   |
| Five or More Years | 11                       | 10   | 1    | 9    | 9                          | 8    | 9    | 8    |
| Number             | 236                      | 233  | 212  | 257  | 236                        | 231  | 212  | 256  |
| Mean               | 3.97                     | 3.98 | 3.91 | 3.87 | 3.33                       | 3.46 | 3.47 | 3.41 |
| <b>TOTAL</b>       | <b>FOREIGN LANGUAGES</b> |      |      |      | <b>BIOLOGICAL SCIENCES</b> |      |      |      |
| No Courses         | 26                       | 19   | 27   | 23   | 4                          | 6    | 7    | 8    |
| One Year           | 15                       | 14   | 9    | 15   | 63                         | 70   | 64   | 62   |
| Two Years          | 26                       | 32   | 35   | 28   | 25                         | 19   | 22   | 22   |
| Three Years        | 22                       | 21   | 13   | 17   | 6                          | 4    | 4    | 4    |
| Four Years         | 9                        | 11   | 13   | 13   | 1                          | 1    | 2    | 3    |
| Five or More Years | 2                        | 3    | 2    | 4    | 0                          | 0    | 1    | 1    |
| Number             | 231                      | 225  | 210  | 252  | 233                        | 228  | 209  | 254  |
| Mean               | 1.80                     | 2.01 | 1.83 | 1.96 | 1.37                       | 1.25 | 1.35 | 1.35 |
| <b>TOTAL</b>       | <b>PHYSICAL SCIENCES</b> |      |      |      | <b>SOCIAL STUDIES</b>      |      |      |      |
| No Courses         | 18                       | 9    | 17   | 9    | 0                          | 0    | 1    | 0    |
| One Year           | 39                       | 42   | 37   | 40   | 4                          | 4    | 2    | 3    |
| Two Years          | 29                       | 33   | 26   | 35   | 17                         | 16   | 12   | 11   |
| Three Years        | 14                       | 13   | 17   | 12   | 36                         | 37   | 40   | 35   |
| Four Years         | 0                        | 3    | 3    | 4    | 35                         | 36   | 37   | 43   |
| Five or More Years | 0                        | 0    | 0    | 0    | 8                          | 7    | 8    | 7    |
| Number             | 228                      | 225  | 208  | 251  | 234                        | 227  | 209  | 254  |
| Mean               | 1.41                     | 1.59 | 1.52 | 1.62 | 3.26                       | 3.27 | 3.33 | 3.39 |

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Table 4-8  
Special Test Administration Data

Self-Reported Class Rank and Concomitant SAT Scores  
for Students with a Physical Disability

| Year              | '80 |     | '81 |     | '82 |     | '83 |     |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | %   |     | %   |     | %   |     | %   |     |
| <u>Rank</u>       |     |     |     |     |     |     |     |     |
| Top Tenth         | 16  |     | 16  |     | 17  |     | 19  |     |
| Second Tenth      | 15  |     | 18  |     | 16  |     | 15  |     |
| Second Fifth      | 31  |     | 21  |     | 25  |     | 26  |     |
| Third Fifth       | 31  |     | 35  |     | 31  |     | 33  |     |
| Fourth Fifth      | 5   |     | 7   |     | 10  |     | 5   |     |
| Lowest Fifth      | 2   |     | 3   |     | 1   |     | 2   |     |
| Number Responding | 182 |     | 185 |     | 160 |     | 208 |     |
| <u>SAT Score:</u> |     |     |     |     |     |     |     |     |
|                   | V M |     | V M |     | V M |     | V M |     |
| <u>Rank</u>       |     |     |     |     |     |     |     |     |
| Top Tenth         | 436 | 469 | 539 | 531 | 471 | 485 | 470 | 501 |
| Second Tenth      | 429 | 480 | 471 | 495 | 450 | 446 | 408 | 430 |
| Second Fifth      | 393 | 428 | 422 | 433 | 391 | 398 | 408 | 437 |
| Third Fifth       | 354 | 378 | 389 | 391 | 362 | 364 | 387 | 399 |
| Fourth Fifth      | 327 | 316 | 346 | 360 | 325 | 355 | 324 | 370 |
| Lowest Fifth      | 233 | 296 | 361 | 341 | 210 | 300 | 260 | 318 |
| Number Responding | 179 | 182 | 185 | 185 | 156 | 159 | 199 | 208 |

Table 4-9  
Special Test Administration Data  
Estimated High School Grade Point Average:  
Students with Physical Disabilities

| Year           | '80<br>% | '81<br>% | '82<br>% | '83<br>% |
|----------------|----------|----------|----------|----------|
| <b>Males</b>   |          |          |          |          |
| 3.50 - 4.00    | 15       | 15       | 15       | 17       |
| 3.00 - 3.49    | 31       | 30       | 35       | 25       |
| 2.50 - 2.99    | 32       | 24       | 26       | 31       |
| 2.00 - 2.49    | 18       | 22       | 19       | 20       |
| 1.50 - 1.99    | 3        | 6        | 5        | 7        |
| Under 1.50     | 1        | 2        | 0        | 0        |
| Number         | 107      | 126      | 97       | 117      |
| Mean           | 2.90     | 2.82     | 2.90     | 2.87     |
| S.D.           | .56      | .66      | .59      | .59      |
| <b>Females</b> |          |          |          |          |
| 3.50 - 4.00    | 20       | 18       | 21       | 20       |
| 3.00 - 3.49    | 30       | 30       | 24       | 27       |
| 2.50 - 2.99    | 20       | 31       | 35       | 33       |
| 2.00 - 2.49    | 25       | 17       | 13       | 17       |
| 1.50 - 1.99    | 2        | 2        | 5        | 2        |
| Under 1.50     | 2        | 1        | 2        | 1        |
| Number         | 84       | 87       | 85       | 106      |
| Mean           | 2.85     | 2.92     | 2.90     | 2.94     |
| S.D.           | .62      | .60      | .62      | .56      |
| <b>Total</b>   |          |          |          |          |
| 3.50 - 4.00    | 17       | 16       | 18       | 18       |
| 3.00 - 3.49    | 30       | 30       | 30       | 26       |
| 2.50 - 2.99    | 27       | 27       | 30       | 32       |
| 2.00 - 2.49    | 21       | 20       | 16       | 18       |
| Under 1.50     | 2        | 2        | 1        | 0        |
| Number         | 191      | 213      | 182      | 223      |
| Mean           | 2.88     | 2.86     | 2.90     | 2.91     |
| S.D.           | .58      | .64      | .61      | .58      |



Table 4-10  
Special Test Administration Data

Ethnic Background of Students with Physical Disabilities

| Year                | '80  | '81  | '82  | '83  |
|---------------------|------|------|------|------|
|                     | %    | %    | %    | %    |
| American Indian     | 0.5  | 0.6  | 0.5  | 0.5  |
| Black               | 10.9 | 9.0  | 8.9  | 8.8  |
| Mexican-American    | 1.0  | 1.7  | 1.8  | 1.9  |
| Oriental            | 2.0  | 3.4  | 3.8  | 4.2  |
| Puerto Rican        | 1.0  | 1.1  | 1.2  | 1.2  |
| White               | 83.2 | 81.9 | 81.7 | 81.1 |
| Other               | 1.5  | 2.2  | 2.2  | 2.2  |
| Number Responding   | 202  | 216  | 184  | 226  |
| % Minority Students | 16.8 | 11.1 | 9.2  | 10.6 |

**Table 4-11**  
**Special Test Administration Data**  
**Median Parental Income of Physically Handicapped Students**

|                               | '80    | '81    | '82    | '83    |
|-------------------------------|--------|--------|--------|--------|
| All Students                  | 19,500 | 24,322 | 25,311 | 28,962 |
| Black                         | 10,500 | 19,500 | 11,750 | 8,250  |
| White                         | 21,600 | 24,808 | 27,135 | 39,960 |
| <b>Distribution of Income</b> |        |        |        |        |
| Below \$12,000                | 20.9%  | 15.2%  | 14.7%  | 14.5%  |
| \$12,000-\$23,999             | 43.8%  | 33.9%  | 33.1%  | 25.1%  |
| \$24,000-\$29,999             | 5.9%   | 12.3%  | 12.7%  | 12.9%  |
| Above \$30,000                | 29.4%  | 38.6%  | 39.5%  | 47.5%  |

**Table 4-12**  
**Special Test Administration Data**  
**1980-83 Mean Parental Income By Sat Average**  
**Physically Disabled Students**

| <u>SAT Average</u> | <u>(N)</u> | <u><math>\bar{X}</math> Income</u> |
|--------------------|------------|------------------------------------|
| 350 - 399          | (113)      | 31,600                             |
| 400 - 449          | (135)      | 33,000                             |
| 450 - 499          | (81)       | 37,200                             |
| 500 - 549          | (63)       | 34,900                             |
| 550 - 599          | (40)       | 37,100                             |
| 600 - 649          | (220)      | 37,400                             |

Table 4-13  
Special Test Administration Data

Degree Level Goals:  
Students with Physical Disabilities

| Year                               | '80 | '81 | '82 | '83 |
|------------------------------------|-----|-----|-----|-----|
|                                    | %   | %   | %   | %   |
| Two-Year Training Program          | 4   | 2   | 6   | 3   |
| Associate of Arts Degree           | 6   | 3   | 3   | 4   |
| BA or BS Degree                    | 35  | 35  | 32  | 33  |
| MA or MS Degree                    | 21  | 25  | 20  | 24  |
| MD, PhD, Other Professional Degree | 11  | 15  | 16  | 16  |
| Undecided                          | 23  | 20  | 23  | 20  |
| Number Responding                  | 202 | 214 | 184 | 230 |
| Two-Year Program or Degree         | 10  | 5   | 9   | 7   |
| Graduate Study                     | 32  | 40  | 36  | 40  |

Table 4-14  
Special Test Administration

Plans to Ask College for Special Assistance by Areas of Need:  
Students with Physical Disabilities

| Year                          | '80  | '81  | '82  | '83  |
|-------------------------------|------|------|------|------|
|                               | %    | %    | %    | %    |
| Educational Counseling        | 52.1 | 44.1 | 44.7 | 44.0 |
| Voc./Career<br>Counseling     | 44.6 | 43.2 | 43.1 | 33.6 |
| Mathematical Skills           | 29.1 | 25.9 | 24.9 | 22.0 |
| Reading Skills                | 25.4 | 18.2 | 22.3 | 17.4 |
| Writing Skills                | 26.8 | 23.2 | 26.9 | 22.4 |
| Study Skills                  | 30.0 | 28.2 | 24.9 | 25.7 |
| Part-Time Work                | 33.3 | 32.3 | 28.4 | 23.2 |
| Personal Counseling           | 15.5 | 14.1 | 11.2 | 10.4 |
| Percent Seeking<br>Assistance | 86.4 | 86.4 | 86.3 | 78.0 |
| Number Responding             | 213  | 220  | 197  | 241  |

Table 4-15  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Intended Field of Study - First Choice  
 Students with Physical Disabilities

## MALE

|                       | <u>Male</u> | <u>Female</u> | <u>Total</u> | <u>SAT Mean Scores</u> |     |
|-----------------------|-------------|---------------|--------------|------------------------|-----|
|                       | <u>%</u>    | <u>%</u>      | <u>%</u>     | <u>Total</u>           |     |
|                       |             |               |              | V                      | M   |
| Agriculture           | 1.4         | 0.3           | 0.9          | 391                    | 400 |
| Arch./Envir. Design   | 0.9         | 0.3           | 0.6          | 332                    | 378 |
| Art                   | 1.8         | 4.3           | 2.9          | 322                    | 340 |
| Biological Sciences   | 3.7         | 2.0           | 2.9          | 453                    | 453 |
| Business & Commerce   | 20.3        | 15.0          | 17.9         | 383                    | 422 |
| Communications        | 10.1        | 4.0           | 7.4          | 412                    | 371 |
| Computer Science/Sys. |             |               |              |                        |     |
| Analysis              | 17.1        | 7.2           | 12.7         | 392                    | 437 |
| Education             | 2.1         | 13.0          | 6.9          | 378                    | 385 |
| Engineering           | 6.7         | 1.7           | 4.5          | 437                    | 535 |
| English/Literature    | 0.9         | 3.8           | 2.2          | 415                    | 399 |
| Ethnic Studies        | 0.0         | 0.0           | 0.0          | -                      | -   |
| Foreign Languages     | 0.0         | 2.0           | 0.9          | 440                    | 441 |
| Forestry/Conservation | 0.5         | 0.0           | 0.3          | 450                    | 485 |
| Geography             | 0.0         | 0.0           | 0.0          | -                      | -   |
| Health & Medical      | 5.5         | 13.9          | 9.2          | 404                    | 407 |
| History & Culture     | 1.2         | 0.9           | 1.0          | 480                    | 495 |
| Home Economics        | 0.0         | 2.6           | 1.2          | 306                    | 347 |
| Library Science       | 0.0         | 0.3           | 0.1          | 320                    | 230 |
| Mathematics           | 1.6         | 2.0           | 1.8          | 409                    | 491 |
| Military Science      | 0.2         | 0.0           | 0.1          | 540                    | 530 |
| Music                 | 1.4         | 1.7           | 1.5          | 447                    | 462 |
| Philosophy & Religion | 0.9         | 1.2           | 1.0          | 426                    | 388 |
| Physical Sciences     | 1.4         | 0.6           | 1.0          | 474                    | 463 |
| Psychology            | 3.2         | 8.4           | 5.5          | 440                    | 415 |
| Social Sciences       | 11.5        | 7.8           | 9.9          | 471                    | 458 |
| Theater Arts          | 0.0         | 0.9           | 0.4          | 457                    | 400 |
| Trade & Vocational    | 0.9         | 0.3           | 0.6          | 390                    | 414 |
| Other                 | 1.2         | 0.9           | 1.0          | 436                    | 445 |
| Undecided             | 5.5         | 4.9           | 5.3          | 394                    | 407 |
| # Responding          | 434         | 346           | 780          |                        |     |

Table 4-16  
Special Test Administration Data  
Collapsed Over Four Years ('80-'83)

Plans to Apply for Advanced Placement or Course Credit  
Students with Physical Disabilities

| <u>Subject Area</u> | <u>%</u> |
|---------------------|----------|
| English             | 16.5     |
| Mathematics         | 12.4     |
| Foreign Languages   | 6.8      |
| Biological Sciences | 5.4      |
| Physical Sciences   | 5.6      |
| Social Studies      | 9.2      |
| Art and Music       | 3.6      |
| Any Subject         | 33.9     |
| # Responding        | 2300     |

Table 4-17

Special Test Administration Data  
Collapsed Over Four Years ('80-'83)

Housing Preferences  
Students with Physical Disabilities

| <u>Preference</u>      | <u>X</u> |
|------------------------|----------|
| At Home                | 33       |
| Dormitory              | 52       |
| Single Sex             | 24       |
| Coed                   | 28       |
| Fraternity or Sorority | 2        |
| Own Apartment          | 13       |
| On Campus              | 7        |
| Off Campus             | 6        |
| Number Responding      | 916      |

Table 4-18  
Special Test Administration Data

Collapsed Over Four Years ('80-'83)  
Extracurricular Activities in High School & Plans for College  
Students with Physical Disabilities

| <u>Active in High School</u>                 | <u>%</u> |
|--|----------|
| Athletics, incl. Intramural<br>and Community | 35       |
| Ethnic Organizations                         | 6        |
| Journalism, Debate, Drama                    | 29       |
| Art, Music or Dance                          | 32       |
| Dept. or Preprof. Clubs                      | 10       |
| Religious Organizations                      | 28       |
| Social or Community Club                     | 34       |
| Student Government                           | 21       |
| <br>   |          |
| <u>Will be Active in College</u>             | <u>%</u> |
| Athletics, incl. Intramural<br>and Community | 24       |
| Ethnic Organizations                         | 5        |
| Journalism, Debate, Drama                    | 28       |
| Art, Music, or Dance                         | 29       |
| Dept. or Preprofessional Clubs               | 17       |
| Religious Organizations                      | 22       |
| Social or Community Club                     | 41       |
| Student Government                           | 22       |



Table 4-19  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Self-Reported Skills and Abilities  
 Total Students with Physical Disabilities

| <u>TOP 10%</u>                      | <u>z</u>     |
|-------------------------------------|--------------|
| Ability to get along<br>with others | 56.9         |
| Acting                              | 11.3         |
| Art                                 | 12.8         |
| Athletics                           | 11.6         |
| Creative Writing                    | 22.8         |
| Leadership                          | 32.8         |
| Mathematics                         | 22.9         |
| Mechanics                           | 12.8         |
| Music                               | 13.2         |
| Organizing for Work                 | 30.3         |
| Sales                               | 20.5         |
| Science                             | 17.0         |
| Spoken Expression                   | 30.8         |
| Written Expression                  | 29.2         |
| <br><u>ABOVE AVERAGE</u>            | <br><u>z</u> |
| Ability to get along<br>with others | 85.1         |
| Acting                              | 31.6         |
| Art                                 | 35.1         |
| Athletics                           | 23.9         |
| Creative Writing                    | 56.0         |
| Leadership                          | 59.3         |
| Mathematics                         | 48.5         |
| Mechanics                           | 26.5         |
| Music                               | 32.0         |
| Organizing for Work                 | 60.2         |
| Sales                               | 48.1         |
| Science                             | 41.3         |
| Spoken Expression                   | 63.2         |
| Written Expression                  | 61.4         |

Table 4-20

Percentage of Seniors and Physically Disabled Students  
Eligible if Single Index Minimums Are Used:  
High School Rank, High School GPA, or SAT Total Score

| Single Index<br>Minimums | Percent Eligible |                     |                      |
|--------------------------|------------------|---------------------|----------------------|
|                          | Original Group   | Physically Disabled | Differential Percent |
|                          | N = 82,245       | N = 718             |                      |
| <u>High School Rank</u>  |                  |                     |                      |
| HS Rank in Top 1/5       | 44               | 33                  | -11                  |
| HS Rank in Top 2/5's     | 71               | 59                  | -12                  |
| HS Rank in Top 3/5's     | 97               | 91                  | -6                   |
| HS Rank in Top 4/5's     | 100              | 98                  | -2                   |
|                          | N = 85,469       | N = 792             |                      |
| <u>High School GPA</u>   |                  |                     |                      |
| HSGPA > 3.50             | 27               | 18                  | -9                   |
| HSGPA > 3.25             | 40               | 28                  | -12                  |
| HSGPA > 3.00             | 58               | 46                  | -12                  |
| HSGPA > 2.75             | 70               | 59                  | -11                  |
| HSGPA > 2.50             | 82               | 76                  | -6                   |
| HSGPA > 2.25             | 91               | 85                  | -6                   |
| HSGPA > 2.00             | 97               | 95                  | -2                   |
|                          | N = 86,190       | N = 815             |                      |
| <u>SAT Total Score</u>   |                  |                     |                      |
| SAT > 1100               | 18               | 12                  | -6                   |
| SAT > 1000               | 33               | 21                  | -12                  |
| SAT > 900                | 51               | 33                  | -18                  |
| SAT > 800                | 68               | 54                  | -14                  |
| SAT > 700                | 84               | 71                  | -13                  |
| SAT > 600                | 93               | 87                  | -6                   |
| SAT > 500                | 98               | 97                  | -1                   |

Table 4-21

Percentage of Seniors and Physically Disabled Students  
Eligible if Multiple Index Minimums Are Used:  
High School Rank and SAT Total Score Minimums

| High School Rank/<br>SAT Total Minimums | Percent Eligible |                     |                      |
|---|------------------|---------------------|----------------------|
|   | Original Group   | Physically Disabled | Differential Percent |
|   | N = 81,930       | N = 718             |                      |
| <u>Upper Fifth</u>                      |                  |                     |                      |
| SAT > 1100                              | 15               | 9                   | -6                   |
| SAT > 1000                              | 25               | 14                  | -11                  |
| SAT > 900                               | 32               | 18                  | -14                  |
| SAT > 800                               | 38               | 25                  | -13                  |
| SAT > 700                               | 42               | 29                  | -13                  |
| SAT > 600                               | 43               | 31                  | -12                  |
| SAT > 500                               | 44               | 33                  | -11                  |
| <u>Upper Two Fifths</u>                 |                  |                     |                      |
| SAT > 1100                              | 18               | 11                  | -7                   |
| SAT > 1000                              | 31               | 19                  | -12                  |
| SAT > 900                               | 44               | 27                  | -17                  |
| SAT > 800                               | 56               | 39                  | -17                  |
| SAT > 700                               | 64               | 47                  | -17                  |
| SAT > 600                               | 68               | 55                  | -13                  |
| SAT > 500                               | 70               | 58                  | -12                  |
| <u>Upper Three Fifths</u>               |                  |                     |                      |
| SAT > 1100                              | 19               | 12                  | -7                   |
| SAT > 1000                              | 33               | 21                  | -12                  |
| SAT > 900                               | 51               | 33                  | -18                  |
| SAT > 800                               | 67               | 51                  | -16                  |
| SAT > 700                               | 82               | 67                  | -15                  |
| SAT > 600                               | 91               | 81                  | -10                  |
| SAT > 500                               | 95               | 89                  | -6                   |

Table 4-22

Percentage of Seniors and Physically Disabled Students  
Eligible if Multiple Index Minimums Are Used:  
High School Grade Point Average and SAT Total Score

| High School Rank/<br>SAT Total Minimums | Percent Eligible |                     |                      |
|---|------------------|---------------------|----------------------|
|   | Original Group   | Physically Disabled | Differential Percent |
|   | N = 85,136       | N = 792             |                      |
| <u>HSGPA &gt; 3.00</u>                  |                  |                     |                      |
| SAT > 1100                              | 16               | 10                  | -6                   |
| SAT > 1000                              | 27               | 17                  | -10                  |
| SAT > 900                               | 38               | 23                  | -15                  |
| SAT > 800                               | 47               | 33                  | -14                  |
| SAT > 700                               | 54               | 39                  | -15                  |
| SAT > 600                               | 56               | 44                  | -12                  |
| SAT > 500                               | 58               | 46                  | -12                  |
| <u>HSGPA &gt; 2.50</u>                  |                  |                     |                      |
| SAT > 1100                              | 18               | 11                  | -7                   |
| SAT > 1000                              | 31               | 21                  | -10                  |
| SAT > 900                               | 47               | 30                  | -17                  |
| SAT > 800                               | 61               | 48                  | -13                  |
| SAT > 700                               | 73               | 60                  | -13                  |
| SAT > 600                               | 79               | 70                  | -9                   |
| SAT > 500                               | 81               | 76                  | -5                   |
| <u>HSGPA &gt; 2.00</u>                  |                  |                     |                      |
| SAT > 1100                              | 18               | 12                  | -6                   |
| SAT > 1000                              | 33               | 22                  | -11                  |
| SAT > 900                               | 50               | 33                  | -17                  |
| SAT > 800                               | 67               | 53                  | -14                  |
| SAT > 700                               | 81               | 69                  | -12                  |
| SAT > 600                               | 91               | 83                  | -8                   |
| SAT > 500                               | 95               | 92                  | -3                   |

Table 4-23

Percentage of Seniors and Physically Disabled Students  
Eligible if Either/Or Minimums Are Used:  
High School Rank or SAT Total Score

| High School Rank or<br>SAT Total Minimums | Percent Eligible |                     |                      |
|---|------------------|---------------------|----------------------|
|   | Original Group   | Physically Disabled | Differential Percent |
|   | N = 84,617       | N = 718             |                      |
| <u>Upper Fifth</u>                        |                  |                     |                      |
| or SAT > 1100                             | 49               | 36                  | -13                  |
| or SAT > 1000                             | 54               | 41                  | -13                  |
| or SAT > 900                              | 63               | 49                  | -14                  |
| or SAT > 800                              | 76               | 62                  | -14                  |
| or SAT > 700                              | 87               | 76                  | -11                  |
| <u>Upper Two Fifths</u>                   |                  |                     |                      |
| or SAT > 1100                             | 73               | 60                  | -13                  |
| or SAT > 1000                             | 74               | 62                  | -12                  |
| or SAT > 900                              | 78               | 66                  | -12                  |
| or SAT > 800                              | 84               | 73                  | -11                  |
| or SAT > 700                              | 90               | 82                  | -8                   |
| <u>Upper Three Fifths</u>                 |                  |                     |                      |
| or SAT > 1100                             | 97               | 91                  | -6                   |
| or SAT > 1000                             | 97               | 91                  | -6                   |
| or SAT > 900                              | 97               | 92                  | -5                   |
| or SAT > 800                              | 98               | 93                  | -5                   |
| or SAT > 700                              | 98               | 95                  | -3                   |

Table 4-24

Percentage of Seniors and Physically Disabled Students  
Eligible if Either/Or Minimums Are Used:  
High School GPA or SAT Score Minimums

| High School GPA or<br>SAT Total Minimums | Percent Eligible |                     |                      |
|--|------------------|---------------------|----------------------|
|  | Original Group   | Physically Disabled | Differential Percent |
|  | N = 85,136       | N = 792             |                      |
| <u>HSGPA &gt; 3.00</u>                   |                  |                     |                      |
| or SAT > 1100                            | 59               | 48                  | -11                  |
| or SAT > 1000                            | 63               | 51                  | -12                  |
| or SAT > 900                             | 70               | 57                  | -13                  |
| or SAT > 800                             | 79               | 68                  | -11                  |
| or SAT > 700                             | 88               | 78                  | -10                  |
| <u>HSGPA &gt; 2.50</u>                   |                  |                     |                      |
| or SAT > 1100                            | 83               | 76                  | -7                   |
| or SAT > 1000                            | 84               | 77                  | -7                   |
| or SAT > 900                             | 86               | 79                  | -7                   |
| or SAT > 800                             | 89               | 82                  | -7                   |
| or SAT > 700                             | 93               | 87                  | -6                   |
| <u>HSGPA &gt; 2.00</u>                   |                  |                     |                      |
| or SAT > 1100                            | 97               | 95                  | -2                   |
| or SAT > 1000                            | 97               | 95                  | -2                   |
| or SAT > 900                             | 97               | 95                  | -2                   |
| or SAT > 800                             | 98               | 96                  | -2                   |
| or SAT > 700                             | 99               | 97                  | -2                   |

Table 4-25

Percentage of Seniors and Physically Disabled Students  
Eligible if Sliding Scales Based on  
High School Rank and SAT Total Scores Are Used

| Sliding Scales              | Percent Eligible |                     |                      |
|-----------------------------|------------------|---------------------|----------------------|
|                             | Original Group   | Physically Disabled | Differential Percent |
|                             | N = 82,245       | N = 718             |                      |
| <b>Sliding Scale A</b>      |                  |                     |                      |
| Upper Tenth, No SAT Minimum | 22               | 17                  | -5                   |
| Second Tenth, SAT > 600     | 21               | 15                  | -6                   |
| Second Fifth, SAT > 800     | 18               | 14                  | -4                   |
| Third Fifth SAT > 1000      | 3                | 3                   | 0                    |
| Fourth Fifth SAT > 1200     | 0                | 0                   | 0                    |
| Last Fifth SAT > 1400       | 0                | 0                   | 0                    |
| Total Percent               | <u>64</u>        | <u>49</u>           | <u>-15</u>           |
| <b>Sliding Scale B</b>      |                  |                     |                      |
| Upper Tenth, No SAT Minimum | 22               | 17                  | -5                   |
| Second Tenth, SAT > 600     | 21               | 16                  | -5                   |
| Second Fifth, SAT > 800     | 23               | 18                  | -5                   |
| Third Fifth SAT > 1000      | 6                | 6                   | 0                    |
| Fourth Fifth SAT > 1200     | 0                | 0                   | 0                    |
| Last Fifth SAT > 1400       | 0                | 0                   | 0                    |
| Total Percent               | <u>72</u>        | <u>57</u>           | <u>-15</u>           |
| <b>Sliding Scale C</b>      |                  |                     |                      |
| Upper Tenth, No SAT Minimum | 22               | 17                  | -5                   |
| Second Tenth, SAT > 600     | 22               | 16                  | -6                   |
| Second Fifth, SAT > 800     | 25               | 23                  | -2                   |
| Third Fifth SAT > 1000      | 11               | 12                  | +1                   |
| Fourth Fifth SAT > 1200     | 0                | 0                   | 0                    |
| Last Fifth SAT > 1400       | 0                | 0                   | 0                    |
| Total Percent               | <u>80</u>        | <u>68</u>           | <u>-12</u>           |

Table 4-26

Percentage of Seniors and Physically Disabled Students  
Eligible if Sliding Scales Based on High School GPAs  
and SAT Total Scores Are Used

| Sliding Scales           | Percent Eligible |                     |                      |
|--------------------------|------------------|---------------------|----------------------|
|                          | Original Group   | Physically Disabled | Differential Percent |
|                          | N = 85,469       | N = 792             |                      |
| <b>Sliding Scale D</b>   |                  |                     |                      |
| 3.40 GPA, No SAT Minimum | 32               | 22                  | -10                  |
| 3.30 GPA, SAT > 400      | 5                | 4                   | -1                   |
| 3.20 GPA, SAT > 500      | 7                | 5                   | -2                   |
| 3.10 GPA, SAT > 600      | 5                | 5                   | 0                    |
| 3.00 GPA, SAT > 700      | 7                | 8                   | +1                   |
| 2.90 GPA, SAT > 800      | 2                | 2                   | 0                    |
| 2.80 GPA, SAT > 900      | 3                | 1                   | -2                   |
| 2.70 GPA, SAT > 1000     | 1                | 1                   | 0                    |
| 2.60 GPA, SAT > 1100     | 0                | 0                   | 0                    |
| 2.50 GPA, SAT > 1200     | 0                | 0                   | 0                    |
| Total Percent            | <u>62</u>        | <u>48</u>           | <u>-14</u>           |
| <b>Sliding Scale E</b>   |                  |                     |                      |
| 3.40 GPA, No SAT Minimum | 32               | 20                  | -12                  |
| 3.20 GPA, SAT > 400      | 12               | 9                   | -3                   |
| 3.00 GPA, SAT > 500      | 14               | 17                  | +3                   |
| 2.80 GPA, SAT > 600      | 9                | 7                   | -2                   |
| 2.60 GPA, SAT > 700      | 8                | 9                   | +1                   |
| 2.40 GPA, SAT > 800      | 4                | 5                   | +1                   |
| 2.20 GPA, SAT > 900      | 1                | 1                   | 0                    |
| 2.00 GPA, SAT > 1000     | 0                | 0                   | 0                    |
| 1.80 GPA, SAT > 1100     | 0                | 0                   | 0                    |
| 1.60 GPA, SAT > 1200     | 0                | 0                   | 0                    |
| 1.40 GPA, SAT > 1300     | 0                | 0                   | 0                    |
| 1.20 GPA, SAT > 1400     | 0                | 0                   | 0                    |
| 1.00 GPA, SAT > 1500     | 0                | 0                   | 0                    |
| Total Percent            | <u>80</u>        | <u>69</u>           | <u>-12</u>           |



Table 4-27

Percentage of Seniors and Physically Disabled Students  
Eligible if a Predicted Freshman GPA of 2.5 is Used:  
Predictions for 10 State Institutions

| Inst.<br>Code | Mean Rank |     | Location | Percent Eligible |                     |                      |
|---------------|-----------|-----|----------|------------------|---------------------|----------------------|
|               | HSGPA     | SAT |          | Original Group   | Physically Disabled | Differential Percent |
|               |           |     |          | N = 85,136       | N = 792             |                      |
| A             | 2         | 2   | Midwest  | 69               | 55                  | -14                  |
| B             | 8         | 5   | East     | 68               | 54                  | -14                  |
| C             | 9         | 9   | Midwest  | 60               | 32                  | -28                  |
| D             | 5         | 3   | East     | 57               | 41                  | -16                  |
| E             | 4         | 4   | West     | 49               | 29                  | -20                  |
| F             | 10        | 8   | South    | 46               | 47                  | +1                   |
| G             | 3         | 6   | West     | 44               | 34                  | -10                  |
| H             | 7         | 7   | East     | 44               | 30                  | -14                  |
| I             | 1         | 1   | West     | 43               | 28                  | -15                  |
| J             | 6         | 10  | South    | 40               | 25                  | -15                  |

Table 4-28  
Comparison of Models\*

| Model/Minimums                 | Percent Eligible |                     |                      |
|--------------------------------|------------------|---------------------|----------------------|
|                                | Original Group   | Physically Disabled | Differential Percent |
| <u>Single Index</u>            |                  |                     |                      |
| Rank in Top 2/5's              | 71               | 59                  | -12                  |
| GPA > 2.75                     | 70               | 59                  | -11                  |
| SAT > 800                      | 68               | 54                  | -14                  |
| <u>Multiple Index</u>          |                  |                     |                      |
| GPA > 2.50 and SAT > 700       | 73               | 60                  | -13                  |
| Top 2/5's and SAT > 500        | 70               | 58                  | -12                  |
| Top 2/5's and SAT > 600        | 68               | 55                  | -13                  |
| Top 3/5's and SAT > 800        | 67               | 51                  | -16                  |
| GPA > 2.0 and SAT > 800        | 67               | 53                  | -14                  |
| <u>Either-or</u>               |                  |                     |                      |
| Top 1/5 <u>or</u> SAT > 800    | 76               | 62                  | -14                  |
| Top 2/5's <u>or</u> SAT > 1000 | 74               | 62                  | -12                  |
| Top 2/5's <u>or</u> SAT > 1100 | 73               | 60                  | -13                  |
| GPA > 3.0 <u>or</u> SAT > 900  | 70               | 57                  | -13                  |
| <u>Sliding Scale</u>           |                  |                     |                      |
| Sliding Scale B                | 72               | 57                  | -15                  |
| <u>Predicted Performance</u>   |                  |                     |                      |
| Institution A                  | 69               | 55                  | -14                  |
| Institution B                  | 68               | 54                  | -14                  |

\*These comparisons are limited to situations where about three-fourths of White seniors were eligible in the original study.

Table 5-1  
Standard Test Administration Data

SAT Scores  
Students With A Visual Impairment

|                      | VERBAL   |          |          |          | MATH     |          |          |          |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      | '80<br>% | '81<br>% | '82<br>% | '83<br>% | '80<br>% | '81<br>% | '82<br>% | '83<br>% |
| <b>Male Scores</b>   |          |          |          |          |          |          |          |          |
| 700 - 800            | .7       | 1.1      | 0.8      | 0.5      | 4.7      | 6.5      | 2.9      | 4.3      |
| 600 - 699            | 2.8      | 5.5      | 4.3      | 3.5      | 8.4      | 12.9     | 12.9     | 10.1     |
| 500 - 599            | 14.9     | 18.1     | 16.9     | 13.3     | 19.4     | 18.0     | 18.5     | 18.2     |
| 400 - 499            | 27.5     | 32.7     | 29.8     | 29.9     | 23.0     | 21.6     | 25.2     | 28.1     |
| 300 - 399            | 35.2     | 30.7     | 30.6     | 35.3     | 30.7     | 30.7     | 29.0     | 27.4     |
| 200 - 299            | 18.9     | 11.9     | 17.7     | 17.5     | 13.8     | 10.4     | 11.6     | 11.9     |
| Number               | 429      | 453      | 373      | 428      | 443      | 450      | 389      | 445      |
| Mean                 | 393      | 422      | 408      | 397      | 437      | 458      | 444      | 444      |
| S. D.                | 108      | 110      | 111      | 108      | 128      | 139      | 127      | 126      |
| <b>Female Scores</b> |          |          |          |          |          |          |          |          |
| 700 - 800            | 0.0      | 0.0      | 0.9      | 0.9      | 2.8      | 4.1      | 2.1      | 2.9      |
| 600 - 699            | 3.2      | 7.6      | 3.9      | 4.8      | 4.6      | 8.5      | 5.8      | 9.5      |
| 500 - 599            | 10.4     | 13.1     | 13.9     | 13.7     | 13.9     | 15.8     | 18.8     | 20.5     |
| 400 - 499            | 31.3     | 32.9     | 33.2     | 30.1     | 23.8     | 21.9     | 26.4     | 23.3     |
| 300 - 399            | 35.4     | 29.2     | 31.4     | 35.5     | 37.5     | 32.7     | 33.6     | 27.4     |
| 200 - 299            | 19.6     | 17.2     | 16.6     | 14.9     | 17.3     | 17.0     | 13.3     | 16.4     |
| Number               | 316      | 343      | 331      | 335      | 323      | 342      | 345      | 347      |
| Mean                 | 390      | 411      | 401      | 405      | 405      | 422      | 418      | 429      |
| S. D.                | 104      | 114      | 112      | 112      | 118      | 130      | 117      | 128      |
| <b>Total Scores</b>  |          |          |          |          |          |          |          |          |
| 700 - 800            | 0.4      | 0.6      | 0.9      | 0.7      | 3.9      | 5.5      | 2.4      | 3.6      |
| 600 - 699            | 3.0      | 6.4      | 4.1      | 4.1      | 6.8      | 11.0     | 9.5      | 9.8      |
| 500 - 599            | 13.0     | 16.0     | 15.5     | 13.5     | 17.1     | 17.0     | 18.7     | 19.2     |
| 400 - 499            | 29.1     | 32.8     | 31.4     | 30.0     | 23.4     | 21.7     | 25.7     | 26.0     |
| 300 - 399            | 35.3     | 30.0     | 31.0     | 35.4     | 33.6     | 31.6     | 31.2     | 27.4     |
| 200 - 299            | 19.2     | 14.2     | 17.2     | 16.4     | 15.3     | 13.3     | 12.4     | 13.9     |
| Number               | 745      | 796      | 704      | 763      | 766      | 792      | 734      | 792      |
| Mean                 | 392      | 417      | 404      | 401      | 424      | 442      | 432      | 437      |
| S. D.                | 106      | 112      | 111      | 110      | 125      | 136      | 123      | 127      |

Table 5-2  
Student Testing Administration Data

SAT Verbal Subscores  
Students With A Visual Impairment

|                      | READING COMPREHENSION |      |      |      | VOCABULARY |      |      |      |
|----------------------|-----------------------|------|------|------|------------|------|------|------|
|                      | '80                   | '81  | '82  | '83  | '80        | '81  | '82  | '83  |
|                      | %                     | %    | %    | %    | %          | %    | %    | %    |
| <b>Male Scores</b>   |                       |      |      |      |            |      |      |      |
| 70 - 80              | 0                     | 1    | 1    | 1    | 1          | 1    | 1    | 2    |
| 60 - 69              | 5                     | 6    | 5    | 3    | 4          | 7    | 6    | 4    |
| 50 - 59              | 15                    | 17   | 16   | 15   | 13         | 16   | 17   | 13   |
| 40 - 49              | 29                    | 31   | 29   | 30   | 32         | 34   | 30   | 33   |
| 30 - 39              | 32                    | 31   | 32   | 32   | 31         | 30   | 32   | 31   |
| 20 - 29              | 19                    | 14   | 17   | 19   | 19         | 12   | 14   | 17   |
| Number               | 429                   | 453  | 373  | 428  | 437        | 453  | 379  | 440  |
| Mean                 | 39.7                  | 41.9 | 40.3 | 39.6 | 39.8       | 42.8 | 41.7 | 40.5 |
| S. D.                | 11.1                  | 11.0 | 11.4 | 11.1 | 11.0       | 11.2 | 11.2 | 11.2 |
| <b>Female Scores</b> |                       |      |      |      |            |      |      |      |
| 70 - 80              | 0                     | 0    | 0    | 0    | 0          | 1    | 1    | 2    |
| 60 - 69              | 4                     | 8    | 5    | 5    | 4          | 6    | 4    | 6    |
| 50 - 59              | 13                    | 16   | 17   | 15   | 11         | 14   | 12   | 14   |
| 40 - 49              | 32                    | 32   | 31   | 33   | 29         | 31   | 33   | 30   |
| 30 - 39              | 35                    | 31   | 31   | 31   | 38         | 31   | 31   | 31   |
| 20 - 29              | 16                    | 13   | 16   | 16   | 18         | 17   | 19   | 17   |
| Number               | 314                   | 343  | 331  | 335  | 317        | 344  | 337  | 338  |
| Mean                 | 39.6                  | 42.0 | 41.0 | 40.5 | 38.9       | 40.7 | 39.8 | 41.0 |
| S. D.                | 10.6                  | 11.3 | 11.2 | 11.2 | 10.5       | 11.6 | 11.3 | 11.7 |
| <b>Total Scores</b>  |                       |      |      |      |            |      |      |      |
| 70 - 80              | 0                     | 1    | 0    | 0    | 1          | 1    | 1    | 2    |
| 60 - 69              | 4                     | 6    | 5    | 4    | 4          | 7    | 5    | 5    |
| 50 - 59              | 14                    | 17   | 17   | 15   | 12         | 15   | 15   | 13   |
| 40 - 49              | 31                    | 31   | 30   | 31   | 30         | 33   | 31   | 32   |
| 30 - 39              | 33                    | 31   | 32   | 32   | 34         | 30   | 31   | 31   |
| 20 - 29              | 18                    | 14   | 16   | 18   | 19         | 14   | 17   | 17   |
| Number               | 743                   | 796  | 704  | 763  | 754        | 797  | 716  | 778  |
| Mean                 | 39.6                  | 41.9 | 40.6 | 40.0 | 39.4       | 41.9 | 40.8 | 40.7 |
| S. D.                | 10.9                  | 11.2 | 11.3 | 11.2 | 10.8       | 11.4 | 11.3 | 11.4 |

Table 5-3  
Special Test Administration Data  
Test of Standard Written English (TSWE) Scores  
for Students with Visual Disabilities

|                      | '80<br>% | '81<br>% | '82<br>% | '83<br>% |
|----------------------|----------|----------|----------|----------|
| <b>Male Scores</b>   |          |          |          |          |
| 60 +                 | 3        | 3        | 2        | 1        |
| 50 - 59              | 16       | 21       | 19       | 17       |
| 40 - 49              | 27       | 32       | 30       | 30       |
| 30 - 39              | 26       | 24       | 26       | 29       |
| 20 - 29              | 28       | 20       | 23       | 23       |
| Number               | 429      | 452      | 372      | 428      |
| Mean                 | 38.2     | 40.9     | 39.6     | 39.1     |
| S. D.                | 11.9     | 11.3     | 11.2     | 11.0     |
| <b>Female Scores</b> |          |          |          |          |
| 60 +                 | 2        | 5        | 3        | 3        |
| 50 - 59              | 21       | 25       | 23       | 27       |
| 40 - 49              | 31       | 29       | 30       | 27       |
| 30 - 39              | 28       | 22       | 28       | 27       |
| 20 - 29              | 18       | 19       | 16       | 15       |
| Number               | 314      | 343      | 330      | 333      |
| Mean                 | 40.6     | 41.8     | 41.4     | 42.3     |
| S. D.                | 10.9     | 11.7     | 11.1     | 11.3     |
| <b>Total Scores</b>  |          |          |          |          |
| 60 +                 | 3        | 4        | 3        | 2        |
| 50 - 59              | 18       | 23       | 21       | 22       |
| 40 - 49              | 29       | 31       | 30       | 29       |
| 30 - 39              | 26       | 23       | 27       | 28       |
| 20 - 29              | 24       | 19       | 20       | 19       |
| Number               | 743      | 795      | 702      | 761      |
| Mean                 | 39.2     | 41.3     | 40.5     | 40.5     |
| S. D.                | 11.6     | 11.5     | 11.2     | 11.2     |

Table 5-4  
Special Test Administration Data

Comparison of 1980-83 Mean SAT Scores for  
All Test-Takers & SDQ Respondents with Visual Disabilities

|                | <u>'80-'83 Total Group</u> |            | <u>'80-'83 Group with SDQs</u> |            |
|----------------|----------------------------|------------|--------------------------------|------------|
|                | SAT-V<br>%                 | SAT-M<br>% | SAT-V<br>%                     | SAT-M<br>% |
| <b>Males</b>   |                            |            |                                |            |
| 700 - 800      | 1                          | 5          | 1                              | 6          |
| 600 - 699      | 4                          | 11         | 5                              | 13         |
| 500 - 599      | 16                         | 19         | 17                             | 21         |
| 400 - 499      | 30                         | 24         | 31                             | 25         |
| 300 - 399      | 33                         | 29         | 32                             | 27         |
| 200 - 299      | 16                         | 12         | 14                             | 8          |
| Number         | 1683                       | 1727       | 1168                           | 1198       |
| Mean           | 405                        | 446        | 415                            | 465        |
| S.D.           | 110                        | 131        | 109                            | 130        |
| <b>Females</b> |                            |            |                                |            |
| 700 - 800      | 0                          | 3          | 0                              | 3          |
| 600 - 699      | 5                          | 7          | 5                              | 9          |
| 500 - 599      | 13                         | 17         | 15                             | 19         |
| 400 - 499      | 32                         | 24         | 34                             | 26         |
| 300 - 399      | 33                         | 33         | 31                             | 31         |
| 200 - 299      | 17                         | 16         | 15                             | 12         |
| Number         | 1325                       | 1357       | 935                            | 956        |
| Mean           | 402                        | 419        | 412                            | 431        |
| S.D.           | 111                        | 124        | 109                            | 122        |
| <b>Total</b>   |                            |            |                                |            |
| 700 - 800      | 1                          | 4          | 1                              | 4          |
| 600 - 699      | 4                          | 9          | 5                              | 11         |
| 500 - 599      | 14                         | 18         | 16                             | 20         |
| 400 - 499      | 31                         | 24         | 32                             | 26         |
| 300 - 399      | 33                         | 31         | 32                             | 29         |
| 200 - 299      | 17                         | 14         | 14                             | 10         |
| Number         | 3008                       | 3084       | 2103                           | 2154       |
| Mean           | 404                        | 434        | 414                            | 450        |
| S.D.           | 110                        | 128        | 109                            | 127        |

Table 5-5  
Special Test Administration Data  
Collapsed Over Four Years ('80-'83)

Type of High School  
Students with Visual Disabilities

|                   |      |
|-------------------|------|
| Public            | 75.1 |
| Private           | 24.9 |
| Number Responding | 2236 |

Table 5-6  
Special Test Administration Data

Latest Self-Reported Grade: Students With a Visual Impairment

| Year                   | '80                     | '81  | '82  | '83  | '80                       | '81  | '82  | '83  |
|------------------------|-------------------------|------|------|------|---------------------------|------|------|------|
|                        | %                       | %    | %    | %    | %                         | %    | %    | %    |
| <b>TOTAL</b>           | <b>ENGLISH</b>          |      |      |      | <b>MATHEMATICS</b>        |      |      |      |
| A (4.0)                | 23                      | 25   | 22   | 23   | 22                        | 25   | 21   | 22   |
| B (3.0)                | 47                      | 45   | 49   | 45   | 34                        | 38   | 40   | 37   |
| C (2.0)                | 26                      | 27   | 26   | 29   | 33                        | 27   | 30   | 30   |
| D (1.0)                | 3                       | 2    | 3    | 3    | 9                         | 9    | 8    | 10   |
| No Graded Courses      | 1                       | 1    | 0    | 0    | 2                         | 1    | 1    | 1    |
| Number                 | 512                     | 556  | 544  | 562  | 513                       | 554  | 538  | 560  |
| Mean                   | 2.89                    | 2.91 | 2.89 | 2.88 | 2.65                      | 2.75 | 2.73 | 2.71 |
| Percent Honors Courses | 10                      | 10   | 9    | 12   | 8                         | 8    | 9    | 12   |
| <b>TOTAL</b>           | <b>FOREIGN LANGUAGE</b> |      |      |      | <b>BIOLOGICAL SCIENCE</b> |      |      |      |
| A (4.0)                | 28                      | 29   | 26   | 28   | 25                        | 27   | 25   | 22   |
| B (3.0)                | 32                      | 34   | 37   | 41   | 38                        | 41   | 42   | 45   |
| C (2.0)                | 30                      | 29   | 27   | 23   | 29                        | 26   | 26   | 28   |
| D (1.0)                | 8                       | 7    | 9    | 7    | 7                         | 5    | 6    | 5    |
| No Graded Courses      | 2                       | 1    | 1    | 1    | 1                         | 1    | 1    | 0    |
| Number                 | 414                     | 439  | 440  | 446  | 462                       | 504  | 500  | 520  |
| Mean                   | 2.75                    | 2.83 | 2.77 | 2.88 | 2.79                      | 2.89 | 2.86 | 2.84 |
| Percent Honors Courses | 8                       | 8    | 6    | 8    | 8                         | 6    | 7    | 9    |
| <b>TOTAL</b>           | <b>PHYSICAL SCIENCE</b> |      |      |      | <b>SOCIAL STUDIES</b>     |      |      |      |
| A (4.0)                | 24                      | 22   | 23   | 24   | 26                        | 32   | 32   | 30   |
| B (3.0)                | 36                      | 43   | 39   | 39   | 49                        | 43   | 44   | 44   |
| C (2.0)                | 32                      | 27   | 33   | 31   | 20                        | 22   | 21   | 21   |
| D (1.0)                | 7                       | 7    | 4    | 5    | 4                         | 3    | 3    | 4    |
| No Graded Courses      | 1                       | 1    | 1    | 1    | 1                         | 0    | 0    | 1    |
| Number                 | 415                     | 458  | 459  | 471  | 505                       | 542  | 539  | 551  |
| Mean                   | 2.76                    | 2.79 | 2.79 | 2.79 | 2.98                      | 3.03 | 3.04 | 3.00 |
| Percent Honors Courses | 8                       | 7    | 7    | 10   | 7                         | 8    | 7    | 9    |



Table 5-7  
Special Test Administration Data

Number of Years of Study of Subject: Students With A Visual Impairment

| Year               | '80                      | '81  | '82  | '83  | '80                        | '81  | '82  | '83  |
|--------------------|--------------------------|------|------|------|----------------------------|------|------|------|
|                    | %                        | %    | %    | %    | %                          | %    | %    | %    |
| <b>TOTAL</b>       | <b>ENGLISH</b>           |      |      |      | <b>MATHEMATICS</b>         |      |      |      |
| No Courses         | 0                        | 0    | 1    | 1    | 0                          | 0    | 0    | 0    |
| One Year           | 1                        | 0    | 1    | 1    | 4                          | 3    | 2    | 1    |
| Two Years          | 0                        | 1    | 1    | 1    | 15                         | 17   | 14   | 12   |
| Three Years        | 7                        | 7    | 4    | 4    | 30                         | 30   | 31   | 26   |
| Four Years         | 81                       | 83   | 83   | 84   | 44                         | 41   | 45   | 52   |
| Five or More Years | 11                       | 9    | 10   | 9    | 7                          | 9    | 8    | 9    |
| Number             | 522                      | 560  | 547  | 571  | 524                        | 560  | 544  | 572  |
| Mean               | 3.99                     | 3.99 | 3.99 | 3.97 | 3.36                       | 3.36 | 3.42 | 3.54 |
| <b>TOTAL</b>       | <b>FOREIGN LANGUAGES</b> |      |      |      | <b>BIOLOGICAL SCIENCES</b> |      |      |      |
| No Courses         | 20                       | 19   | 19   | 20   | 7                          | 6    | 6    | 5    |
| One Year           | 11                       | 13   | 14   | 11   | 65                         | 70   | 61   | 64   |
| Two Years          | 33                       | 31   | 31   | 32   | 24                         | 19   | 26   | 25   |
| Three Years        | 17                       | 18   | 17   | 18   | 3                          | 4    | 5    | 5    |
| Four Years         | 13                       | 13   | 15   | 15   | 1                          | 1    | 1    | 1    |
| Five or More Years | 6                        | 6    | 4    | 4    | 0                          | 0    | 1    | 0    |
| Number             | 516                      | 549  | 541  | 568  | 515                        | 552  | 540  | 565  |
| Mean               | 2.09                     | 2.11 | 2.08 | 2.08 | 1.28                       | 1.26 | 1.36 | 1.34 |
| <b>TOTAL</b>       | <b>PHYSICAL SCIENCES</b> |      |      |      | <b>SOCIAL STUDIES</b>      |      |      |      |
| No Courses         | 14                       | 11   | 12   | 11   | 1                          | 0    | 1    | 1    |
| One Year           | 42                       | 41   | 42   | 40   | 1                          | 2    | 2    | 1    |
| Two Years          | 26                       | 29   | 26   | 30   | 18                         | 15   | 13   | 17   |
| Three Years        | 14                       | 15   | 15   | 16   | 43                         | 43   | 39   | 37   |
| Four Years         | 3                        | 4    | 3    | 2    | 30                         | 34   | 38   | 37   |
| Five or More Years | 0                        | 0    | 2    | 1    | 7                          | 6    | 7    | 7    |
| Number             | 515                      | 557  | 541  | 565  | 517                        | 553  | 544  | 566  |
| Mean               | 1.50                     | 1.60 | 1.60 | 1.60 | 3.22                       | 3.28 | 3.32 | 3.30 |

Table 5-8  
Special Test Administration Data

Self-Reported Class Rank, and Concomitant Scores  
for Students with a Visual Disability

| Year                     | '80 |     | '81 |     | '82 |     | '83 |     |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| <u>Visual Impairment</u> |     |     |     |     |     |     |     |     |
| Top Tenth                | 16  |     | 19  |     | 18  |     | 17  |     |
| Second Tenth             | 18  |     | 17  |     | 18  |     | 17  |     |
| Second Fifth             | 27  |     | 25  |     | 26  |     | 23  |     |
| Third Fifth              | 31  |     | 33  |     | 28  |     | 36  |     |
| Fourth Fifth             | 6   |     | 4   |     | 7   |     | 6   |     |
| Lowest Fifth             | 2   |     | 2   |     | 3   |     | 1   |     |
| Number Responding        | 448 |     | 489 |     | 434 |     | 462 |     |
| <br>                     |     |     |     |     |     |     |     |     |
| SAT Score                | V   | M   | V   | M   | V   | M   | V   | M   |
| Top Tenth                | 499 | 557 | 543 | 589 | 526 | 551 | 500 | 548 |
| Second Tenth             | 440 | 476 | 453 | 491 | 429 | 459 | 449 | 492 |
| Second Fifth             | 401 | 440 | 428 | 450 | 398 | 451 | 412 | 459 |
| Third Fifth              | 363 | 396 | 389 | 407 | 393 | 421 | 362 | 406 |
| Fourth Fifth             | 340 | 375 | 354 | 379 | 316 | 344 | 340 | 354 |
| Lowest Fifth             | 331 | 354 | 358 | 384 | 357 | 363 | 266 | 328 |
| Number Responding        | 432 | 448 | 489 | 484 | 415 | 433 | 444 | 462 |

Table 5-9  
Special Test Administration Data  
Estimated High School Grade Point Average:  
Students with Visual Disabilities

| Year                  | '80  | '81  | '82  | '83  |
|-----------------------|------|------|------|------|
|                       | %    | %    | %    | %    |
| <b><u>Males</u></b>   |      |      |      |      |
| 3.50 - 4.00           | 16   | 19   | 19   | 15   |
| 3.00 - 3.49           | 25   | 26   | 23   | 22   |
| 2.50 - 2.99           | 29   | 24   | 28   | 30   |
| 2.00 - 2.49           | 21   | 24   | 22   | 27   |
| 1.50 - 1.99           | 5    | 5    | 7    | 5    |
| Under 1.50            | 4    | 2    | 1    | 2    |
| Number                | 288  | 306  | 252  | 280  |
| Mean                  | 2.79 | 2.84 | 2.83 | 2.75 |
| S.D.                  | .67  | .67  | .63  | .64  |
| <b><u>Females</u></b> |      |      |      |      |
| 3.50 - 4.00           | 19   | 23   | 22   | 22   |
| 3.00 - 3.49           | 27   | 26   | 26   | 32   |
| 2.50 - 2.99           | 27   | 24   | 29   | 25   |
| 2.00 - 2.49           | 20   | 21   | 17   | 15   |
| 1.50 - 1.99           | 5    | 4    | 5    | 5    |
| Under 1.50            | 1    | 1    | 1    | 1    |
| Number                | 202  | 225  | 242  | 240  |
| Mean                  | 2.90 | 2.94 | 2.94 | 2.97 |
| S.D.                  | .64  | .62  | .50  | .61  |
| <b><u>Total</u></b>   |      |      |      |      |
| 3.50 - 4.00           | 17   | 21   | 20   | 18   |
| 3.00 - 3.49           | 26   | 26   | 24   | 26   |
| 2.50 - 2.99           | 28   | 24   | 29   | 28   |
| 2.00 - 2.49           | 21   | 23   | 20   | 21   |
| Under 1.50            | 3    | 2    | 1    | 2    |
| Number                | 490  | 531  | 494  | 520  |
| Mean                  | 2.84 | 2.88 | 2.88 | 2.85 |
| S.D.                  | .66  | .65  | .62  | .63  |

Table 5-10  
Special Test Administration Data

Ethnic Background of Students with Visual Disabilities

| Year                | '80  | '81  | '82  | '83  |
|---------------------|------|------|------|------|
|                     | %    | %    | %    | %    |
| American Indian     | 1.0  | 0.9  | 0.6  | 0.0  |
| Black               | 7.5  | 5.7  | 7.8  | 7.4  |
| Mexican-American    | 1.0  | 0.7  | 0.4  | 0.4  |
| Oriental            | 0.8  | 0.7  | 1.6  | 1.7  |
| Puerto Rican        | 1.6  | 1.6  | 1.9  | 1.9  |
| White               | 85.4 | 87.7 | 86.0 | 87.2 |
| Other               | 2.6  | 2.6  | 1.6  | 1.4  |
| Number Responding   | 492  | 546  | 485  | 516  |
| % Minority Students | 14.6 | 12.3 | 14.0 | 12.8 |

Table 5-11  
Special Test Administration Data

Median Parental Income of Visually Impaired Students

|              | '80    | '81    | '82    | '83    |
|--------------|--------|--------|--------|--------|
| All Students | 22,597 | 26,207 | 26,659 | 31,010 |
| Black        | 12,500 | 14,100 | 12,300 | 18,500 |
| White        | 23,897 | 27,790 | 27,615 | 31,906 |

Distribution of Income

|                   |       |       |       |       |
|-------------------|-------|-------|-------|-------|
| Below \$12,000    | 17.4% | 16.5% | 16.6% | 11.0% |
| \$12,000-\$23,999 | 36.5% | 30.6% | 26.4% | 24.2% |
| \$24,000-\$29,999 | 11.5% | 9.3%  | 14.5% | 12.5% |

Table 5-12  
Special Test Administration Data

1980-83 Mean Parental Income, by SAT Average  
Visually Impaired Students

| <u>SAT Average</u> | <u>(N)</u> | <u><math>\bar{X}</math> Income</u> |
|--------------------|------------|------------------------------------|
| 300 - 399          | (277)      | 32,900                             |
| 400 - 449          | (262)      | 33,100                             |
| 450 - 499          | (234)      | 36,400                             |
| 500 - 549          | (192)      | 37,100                             |
| 550 - 599          | (113)      | 36,700                             |
| 600 - 649          | (967)      | 45,200                             |

Table 5-13  
Special Test Administration Data

Degree Level Goals:  
Students with Visual Impairments

| Year                               | '80 | '81 | '82 | '83 |
|------------------------------------|-----|-----|-----|-----|
|                                    | %   | %   | %   | %   |
| Two-Year Training Program          | 3   | 3   | 4   | 3   |
| Associate of Arts Degree           | 3   | 3   | 3   | 2   |
| BA or BS Degree                    | 39  | 34  | 37  | 41  |
| MA or MS Degree                    | 24  | 27  | 24  | 25  |
| MD, PhD, Other Professional Degree | 16  | 17  | 16  | 15  |
| Undecided                          | 15  | 16  | 16  | 14  |
| Number Responding                  | 499 | 542 | 497 | 525 |
| Two-Year Program or Degree         | 6   | 6   | 7   | 5   |
| Graduate Study                     | 40  | 44  | 40  | 40  |

Table 5-14  
Special Test Administration

Plans to Ask College for Special Assistance by Areas of Need:  
Students with Visual Impairments

| Year                          | '80  | '81  | '82  | '83  |
|-------------------------------|------|------|------|------|
|                               | %    | %    | %    | %    |
| Educational Counseling        | 43.9 | 49.1 | 43.7 | 41.2 |
| Voc./Career<br>Counseling     | 38.7 | 38.4 | 35.4 | 34.8 |
| Mathematical Skills           | 26.2 | 24.6 | 22.4 | 25.3 |
| Reading Skills                | 22.2 | 20.4 | 23.2 | 25.7 |
| Writing Skills                | 23.4 | 24.6 | 24.7 | 22.2 |
| Study Skills                  | 27.8 | 28.9 | 26.1 | 28.1 |
| Part-Time Work                | 35.4 | 36.1 | 37.7 | 38.3 |
| Personal Counseling           | 9.8  | 12.5 | 8.8  | 8.2  |
| Percent Seeking<br>Assistance | 81.6 | 82.1 | 83.1 | 80.9 |
| Number Responding             | 522  | 570  | 522  | 549  |

Table 5-15  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Intended Field of Study - First Choice  
 Students with Visual Disabilities

|                                   | <u>Male</u><br>% | <u>Female</u><br>% | <u>Total</u><br>% | SAT Mean Scores |     |
|-----------------------------------|------------------|--------------------|-------------------|-----------------|-----|
|                                   |                  |                    |                   | <u>Total</u>    |     |
|                                   |                  |                    |                   | V               | M   |
| Agriculture                       | 2.1              | 0.6                | 1.4               | 356             | 408 |
| Arch./Envir. Design               | 0.9              | 0.4                | 0.6               | 367             | 455 |
| Art                               | 1.9              | 5.1                | 3.4               | 391             | 393 |
| Biological Sciences               | 3.3              | 1.3                | 2.4               | 470             | 516 |
| Business & Commerce               | 16.8             | 13.0               | 15.1              | 394             | 439 |
| Communications                    | 8.6              | 3.9                | 6.5               | 444             | 432 |
| Computer Science/Sys.<br>Analysis | 12.7             | 5.6                | 9.5               | 426             | 482 |
| Education                         | 4.0              | 16.9               | 9.8               | 383             | 409 |
| Engineering                       | 11.5             | 1.0                | 6.8               | 430             | 534 |
| English/Literature                | 1.3              | 2.6                | 1.9               | 511             | 495 |
| Ethnic Studies                    | 0.0              | 0.1                | 0.1               | 420             | 310 |
| Foreign Languages                 | 0.6              | 2.5                | 1.4               | 451             | 476 |
| Forestry/Conservation             | 1.3              | 0.0                | 0.7               | 413             | 399 |
| Geography                         | 0.0              | 0.0                | 0.0               | -               | -   |
| Health & Medical                  | 4.7              | 11.7               | 7.8               | 387             | 435 |
| History & Culture                 | 0.9              | 0.6                | 0.7               | 391             | 419 |
| Home Economics                    | 0.1              | 1.7                | 0.8               | 387             | 399 |
| Library Science                   | 0.5              | 0.1                | 0.3               | 392             | 313 |
| Mathematics                       | 1.1              | 1.7                | 1.3               | 486             | 598 |
| Military Science                  | 0.2              | 0.0                | 0.1               | 410             | 505 |
| Music                             | 5.0              | 4.4                | 4.7               | 409             | 448 |
| Philosophy & Religion             | 1.3              | 1.0                | 1.1               | 441             | 439 |
| Physical Sciences                 | 2.5              | 0.7                | 1.7               | 442             | 516 |
| Psychology                        | 3.2              | 8.9                | 5.8               | 439             | 421 |
| Social Sciences                   | 7.4              | 9.2                | 8.2               | 456             | 460 |
| Theater Arts                      | 0.6              | 1.1                | 0.8               | 442             | 480 |
| Trade & Vocational                | 1.3              | 0.1                | 0.7               | 340             | 400 |
| Other                             | 1.2              | 0.7                | 1.0               | 393             | 427 |
| Undecided                         | 5.2              | 5.0                | 5.1               | 400             | 446 |
| # Responding                      | 1039             | 838                | 1877              |                 |     |



Table 5-16  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Plans to Apply for Advanced Placement or Course Credit  
 Students with Visual Disabilities

| <u>Subject Area</u> | <u>%</u> |
|---------------------|----------|
| English             | 16.9     |
| Mathematics         | 13.4     |
| Foreign languages   | 8.7      |
| Biological Sciences | 6.1      |
| Physical Sciences   | 6.4      |
| Social Studies      | 10.8     |
| Art and Music       | 6.7      |
| Any Subject         | 37.6     |
| # Responding        | 2300     |

Table 5-17  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Housing Preferences  
 Students with Visual Disabilities

| <u>Preference</u>      | <u>%</u> |
|------------------------|----------|
| At Home                | 18       |
| Dormitory              | 67       |
| Single Sex             | 27       |
| Coed                   | 40       |
| Fraternity or Sorority | 2        |
| Own Apartment          | 13       |
| On Campus              | 7        |
| Off Campus             | 6        |
| Number Responding      | 2155     |

Table 5-18  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Extracurricular Activities in High School & Plans for College  
 Students with Visual Disabilities

| <u>Active in High School</u>                 | <u>%</u> |
|--|----------|
| Athletics, incl. Intramural<br>and Community | 49       |
| Ethnic Organizations                         | 6        |
| Journalism, Debate, Drama                    | 33       |
| Art, Music or Dance                          | 45       |
| Dept. or Preprofessional Clubs               | 14       |
| Religious Organizations                      | 32       |
| Social or Community Club                     | 41       |
| Student Government                           | 22       |
| Number Responding                            | 2300     |

| <u>Will be Active in College</u>             | <u>%</u> |
|--|----------|
| Athletics, incl. Intramural<br>and Community | 37       |
| Ethnic Organizations                         | 6        |
| Journalism, Debate, Drama                    | 31       |
| Art, Music, or Dance                         | 39       |
| Dept. or Preprofessional Clubs               | 23       |
| Religious Organizations                      | 24       |
| Social or Community Club                     | 43       |
| Student Government                           | 22       |
| Number Responding                            | 2300     |

Table 5-19  
 Special Test Administration Data  
 Collapsed Over Four Years ('80-'83)

Self-Reported Skills and Abilities  
 Total Students with Visual Disabilities

| <u>TOP 10%</u>                      | <u>Z</u> |
|-------------------------------------|----------|
| Ability to get along<br>with others | 53.4     |
| Acting                              | 13.6     |
| Art                                 | 13.5     |
| Athletics                           | 19.3     |
| Creative Writing                    | 23.6     |
| Leadership                          | 34.2     |
| Mathematics                         | 24.7     |
| Mechanics                           | 13.8     |
| Music                               | 22.1     |
| Organizing for Work                 | 28.8     |
| Sales                               | 22.8     |
| Science                             | 20.1     |
| Spoken Expression                   | 33.3     |
| Written Expression                  | 27.7     |

| <u>ABOVE AVERAGE</u>                | <u>Z</u> |
|-------------------------------------|----------|
| Ability to get along<br>with others | 82.2     |
| Acting                              | 37.6     |
| Art                                 | 38.0     |
| Athletics                           | 41.9     |
| Creative Writing                    | 57.3     |
| Leadership                          | 62.1     |
| Mathematics                         | 51.8     |
| Mechanics                           | 34.5     |
| Music                               | 46.8     |
| Organizing for Work                 | 63.3     |
| Sales                               | 49.0     |
| Science                             | 44.6     |
| Spoken Expression                   | 67.7     |
| Written Expression                  | 61.1     |

Table 5-20

Percentage of Seniors and Visually Disabled Students  
Eligible if Single Index Minimums are Used:  
High School Rank, High School GPA, or SAT Total Score

| Single Index<br>Minimums | Percent Eligible |                   |                      |
|--------------------------|------------------|-------------------|----------------------|
|                          | Original Group   | Visually Disabled | Differential Percent |
|                          | N = 82,245       | N = 1774          |                      |
| <u>High School Rank</u>  |                  |                   |                      |
| HS Rank in Top 1/5       | 44               | 35                | -9                   |
| HS Rank in Top 2/5's     | 71               | 59                | -12                  |
| HS Rank in Top 3/5's     | 97               | 92                | -5                   |
| HS Rank in Top 4/5's     | 100              | 98                | -2                   |
|                          | N = 85,469       | N = 1967          |                      |
| <u>High School GPA</u>   |                  |                   |                      |
| HSGPA > 3.50             | 27               | 19                | -8                   |
| HSGPA > 3.25             | 40               | 29                | -11                  |
| HSGPA > 3.00             | 58               | 44                | -14                  |
| HSGPA > 2.75             | 70               | 56                | -14                  |
| HSGPA > 2.50             | 82               | 71                | -11                  |
| HSGPA > 2.25             | 91               | 84                | -7                   |
| HSGPA > 2.00             | 97               | 93                | -4                   |
|                          | N = 86,190       | N = 2008          |                      |
| <u>SAT Total Score</u>   |                  |                   |                      |
| SAT > 1100               | 18               | 15                | -3                   |
| SAT > 1000               | 33               | 27                | -6                   |
| SAT > 900                | 51               | 42                | -9                   |
| SAT > 800                | 68               | 59                | -9                   |
| SAT > 700                | 84               | 77                | -7                   |
| SAT > 600                | 93               | 91                | -2                   |
| SAT > 500                | 98               | 98                | 0                    |

Table 5-21

Percentage of Seniors and Visually Disabled Students  
Eligible if Multiple Index Minimums Are Used:  
High School Rank and SAT Total Score Minimums

| High School Rank/<br>SAT Total Minimums | Percent Eligible |                   |                      |
|---|------------------|-------------------|----------------------|
|   | Original Group   | Visually Disabled | Differential Percent |
|   | N = 81,930       | N = 1774          |                      |
| <u>Upper Fifth</u>                      |                  |                   |                      |
| SAT > 1100                              | 15               | 12                | -3                   |
| SAT > 1000                              | 25               | 18                | -7                   |
| SAT > 900                               | 32               | 24                | -8                   |
| SAT > 800                               | 38               | 29                | -9                   |
| SAT > 700                               | 42               | 32                | -10                  |
| SAT > 600                               | 43               | 34                | -9                   |
| SAT > 500                               | 44               | 34                | -10                  |
| <u>Upper Two Fifths</u>                 |                  |                   |                      |
| SAT > 1100                              | 18               | 14                | -4                   |
| SAT > 1000                              | 31               | 24                | -7                   |
| SAT > 900                               | 44               | 34                | -10                  |
| SAT > 800                               | 56               | 44                | -12                  |
| SAT > 700                               | 64               | 52                | -12                  |
| SAT > 600                               | 68               | 57                | -11                  |
| SAT > 500                               | 70               | 59                | -11                  |
| <u>Upper Three Fifths</u>               |                  |                   |                      |
| SAT > 1100                              | 19               | 15                | -4                   |
| SAT > 1000                              | 33               | 27                | -6                   |
| SAT > 900                               | 51               | 42                | -9                   |
| SAT > 800                               | 67               | 58                | -9                   |
| SAT > 700                               | 82               | 74                | -8                   |
| SAT > 600                               | 91               | 85                | -6                   |
| SAT > 500                               | 95               | 90                | -5                   |

Table 5-22

Percentage of Seniors and Visually Disabled Students  
Eligible if Multiple Index Minimums Are Used:  
High School Grade-Point Average and SAT Score Minimums

| High School Rank/<br>SAT Total Minimums | Percent Eligible |                   |                      |
|---|------------------|-------------------|----------------------|
|   | Original Group   | Visually Disabled | Differential Percent |
|   | N = 85,136       | N = 1967          |                      |
| <b>HSGPA &gt; 3.00</b>                  |                  |                   |                      |
| SAT > 1100                              | 16               | 13                | -3                   |
| SAT > 1000                              | 27               | 20                | -7                   |
| SAT > 900                               | 38               | 27                | -11                  |
| SAT > 800                               | 47               | 34                | -13                  |
| SAT > 700                               | 54               | 39                | -15                  |
| SAT > 600                               | 56               | 42                | -14                  |
| SAT > 500                               | 58               | 44                | -14                  |
| <b>HSGPA &gt; 2.50</b>                  |                  |                   |                      |
| SAT > 1100                              | 18               | 14                | -4                   |
| SAT > 1000                              | 31               | 24                | -7                   |
| SAT > 900                               | 47               | 36                | -11                  |
| SAT > 800                               | 61               | 49                | -12                  |
| SAT > 700                               | 73               | 61                | -12                  |
| SAT > 600                               | 79               | 69                | -10                  |
| SAT > 500                               | 81               | 72                | -9                   |
| <b>HSGPA &gt; 2.00</b>                  |                  |                   |                      |
| SAT > 1100                              | 18               | 15                | -3                   |
| SAT > 1000                              | 33               | 26                | -7                   |
| SAT > 900                               | 50               | 41                | -9                   |
| SAT > 800                               | 67               | 57                | -10                  |
| SAT > 700                               | 81               | 73                | -8                   |
| SAT > 600                               | 91               | 85                | -6                   |
| SAT > 500                               | 95               | 91                | -4                   |

Table 5-23

Percentage of Seniors and Visually Disabled Students  
Eligible if Either/Or Minimums Are Used:  
High School Rank or SAT Total Score

| High School Rank or<br>SAT Total Minimums | Percent Eligible |                   |                      |
|---|------------------|-------------------|----------------------|
|   | Original Group   | Visually Disabled | Differential Percent |
|   | N = 84,617       | N = 1774          |                      |
| <u>Upper Fifth</u>                        |                  |                   |                      |
| or SAT > 1100                             | 49               | 38                | -11                  |
| or SAT > 1000                             | 54               | 44                | -10                  |
| or SAT > 900                              | 63               | 54                | -9                   |
| or SAT > 800                              | 76               | 66                | -10                  |
| or SAT > 700                              | 87               | 80                | -7                   |
| <u>Upper Two Fifths</u>                   |                  |                   |                      |
| or SAT > 1100                             | 73               | 61                | -12                  |
| or SAT > 1000                             | 74               | 63                | -11                  |
| or SAT > 900                              | 78               | 68                | -10                  |
| or SAT > 800                              | 84               | 76                | -8                   |
| or SAT > 700                              | 90               | 85                | -5                   |
| <u>Upper Three Fifths</u>                 |                  |                   |                      |
| or SAT > 1100                             | 97               | 92                | -5                   |
| or SAT > 1000                             | 97               | 92                | -5                   |
| or SAT > 900                              | 97               | 93                | -4                   |
| or SAT > 800                              | 98               | 94                | -4                   |
| or SAT > 700                              | 98               | 95                | -3                   |



Table 5-24

Percentage of Seniors and Visually Disabled Students  
Eligible if Either/Or Minimums Are Used:  
High School Grade Point Average or SAT Total Score Minimums

| High School GPA or<br>SAT Total Minimums | Percent Eligible |                   |                      |
|--|------------------|-------------------|----------------------|
|  | Original Group   | Visually Disabled | Differential Percent |
|  | N = 85,136       | N = 1967          |                      |
| <u>HSGPA &gt; 3.00</u>                   |                  |                   |                      |
| or SAT > 1100                            | 59               | 46                | -13                  |
| or SAT > 1000                            | 63               | 51                | -12                  |
| or SAT > 900                             | 70               | 59                | -11                  |
| or SAT > 800                             | 79               | 69                | -10                  |
| or SAT > 700                             | 88               | 81                | -7                   |
| <u>HSGPA &gt; 2.50</u>                   |                  |                   |                      |
| or SAT > 1100                            | 83               | 72                | -11                  |
| or SAT > 1000                            | 84               | 74                | -10                  |
| or SAT > 900                             | 86               | 78                | -8                   |
| or SAT > 800                             | 89               | 82                | -7                   |
| or SAT > 700                             | 93               | 88                | -5                   |
| <u>HSGPA &gt; 2.00</u>                   |                  |                   |                      |
| or SAT > 1100                            | 97               | 93                | -4                   |
| or SAT > 1000                            | 97               | 94                | -3                   |
| or SAT > 900                             | 97               | 94                | -3                   |
| or SAT > 800                             | 98               | 96                | -2                   |
| or SAT > 700                             | 99               | 97                | -2                   |

Table 5-25

Percentage of Seniors and Visually Disabled Students  
Eligible if Sliding Scales Based on  
High School Rank and SAT Total Scores Are Used

| Sliding Scales              | Percent Eligible |                   |                      |
|-----------------------------|------------------|-------------------|----------------------|
|                             | Original Group   | Visually Disabled | Differential Percent |
|                             | N = 82,245       | N = 1774          |                      |
| <b>Sliding Scale A</b>      |                  |                   |                      |
| Upper Tenth, No SAT Minimum | 22               | 17                | -5                   |
| Second Tenth, SAT > 600     | 21               | 16                | -5                   |
| Second Fifth, SAT > 800     | 18               | 15                | -3                   |
| Third Fifth SAT > 1000      | 3                | 3                 | 0                    |
| Fourth Fifth SAT > 1200     | 0                | 0                 | 0                    |
| Last Fifth SAT > 1400       | 0                | 0                 | 0                    |
| Total Percent               | <u>64</u>        | <u>51</u>         | <u>-13</u>           |
| <b>Sliding Scale B</b>      |                  |                   |                      |
| Upper Tenth, No SAT Minimum | 22               | 17                | -5                   |
| Second Tenth, SAT > 600     | 21               | 17                | -4                   |
| Second Fifth, SAT > 800     | 23               | 19                | -4                   |
| Third Fifth SAT > 1000      | 6                | 7                 | +1                   |
| Fourth Fifth SAT > 1200     | 0                | 0                 | 0                    |
| Last Fifth SAT > 1400       | 0                | 0                 | 0                    |
| Total Percent               | <u>72</u>        | <u>60</u>         | <u>-12</u>           |
| <b>Sliding Scale C</b>      |                  |                   |                      |
| Upper Tenth, No SAT Minimum | 22               | 17                | -5                   |
| Second Tenth, SAT > 600     | 22               | 17                | -5                   |
| Second Fifth, SAT > 300     | 25               | 23                | -2                   |
| Third Fifth SAT > 1000      | 11               | 14                | +3                   |
| Fourth Fifth SAT > 1200     | 0                | 0                 | 0                    |
| Last Fifth SAT > 1400       | 0                | 0                 | 0                    |
| Total Percent               | <u>80</u>        | <u>71</u>         | <u>-9</u>            |

Table 5-26

Percentage of Seniors and Visually Disabled Students  
Eligible if Sliding Scales Based on  
High School GPA and SAT Total Scores Are Used

| High School Rank/<br>SAT Total Minimums | Percent Eligible |                   |                      |
|---|------------------|-------------------|----------------------|
|   | Original Group   | Visually Disabled | Differential Percent |
|   | N = 85,469       | N = 1967          |                      |
| <u>Sliding Scale D</u>                  |                  |                   |                      |
| 3.40 GPA, No SAT Minimum                | 32               | 25                | -7                   |
| 3.30 GPA, SAT > 400                     | 5                | 4                 | -1                   |
| 3.20 GPA, SAT > 500                     | 7                | 4                 | -3                   |
| 3.10 GPA, SAT > 600                     | 5                | 4                 | -1                   |
| 3.00 GPA, SAT > 700                     | 7                | 7                 | 0                    |
| 2.90 GPA, SAT > 800                     | 2                | 2                 | 0                    |
| 2.80 GPA, SAT > 900                     | 3                | 2                 | -1                   |
| 2.70 GPA, SAT > 1000                    | 1                | 1                 | 0                    |
| 2.60 GPA, SAT > 1100                    | 0                | 0                 | 0                    |
| 2.50 GPA, SAT > 1200                    | 0                | 0                 | 0                    |
| Total Percent                           | <u>62</u>        | <u>49</u>         | <u>-13</u>           |
| <u>Sliding Scale E</u>                  |                  |                   |                      |
| 3.40 GPA, No SAT Minimum                | 32               | 22                | -10                  |
| 3.20 GPA, SAT > 400                     | 12               | 8                 | -4                   |
| 3.00 GPA, SAT > 500                     | 14               | 13                | -1                   |
| 2.80 GPA, SAT > 600                     | 9                | 7                 | -2                   |
| 2.60 GPA, SAT > 700                     | 8                | 10                | +2                   |
| 2.40 GPA, SAT > 800                     | 4                | 4                 | 0                    |
| 2.20 GPA, SAT > 900                     | 1                | 2                 | +1                   |
| 2.00 GPA, SAT > 1000                    | 0                | 1                 | +1                   |
| 1.80 GPA, SAT > 1100                    | 0                | 0                 | 0                    |
| 1.60 GPA, SAT > 1200                    | 0                | 0                 | 0                    |
| 1.40 GPA, SAT > 1300                    | 0                | 0                 | 0                    |
| 1.20 GPA, SAT > 1400                    | 0                | 0                 | 0                    |
| 1.00 GPA, SAT < 1500                    | 0                | 0                 | 0                    |
| Total Percent                           | <u>80</u>        | <u>67</u>         | <u>-13</u>           |

Table 5-27

Percentage of Seniors and Visually Disabled Students  
Eligible if a Predicted Freshman GPA of 2.5 is Used:  
Predictions for 10 State Institutions

| Inst.<br>Code | Mean Rank |     | Location | Percent Eligible |                   |                      |
|---------------|-----------|-----|----------|------------------|-------------------|----------------------|
|               | HSGPA     | SAT |          | Original Group   | Visually Disabled | Differential Percent |
|               |           |     |          | N = 85,136       | N = 1967          |                      |
| A             | 2         | 2   | Midwest  | 69               | 55                | -14                  |
| B             | 8         | 5   | East     | 68               | 56                | -12                  |
| C             | 9         | 9   | Midwest  | 60               | 33                | -27                  |
| D             | 5         | 3   | East     | 57               | 42                | -15                  |
| E             | 4         | 4   | West     | 49               | 31                | -18                  |
| F             | 10        | 8   | South    | 46               | 46                | 0                    |
| G             | 3         | 6   | West     | 44               | 34                | -10                  |
| H             | 7         | 7   | East     | 44               | 31                | -13                  |
| I             | 1         | 1   | West     | 43               | 30                | -13                  |
| J             | 6         | 10  | South    | 40               | 28                | -12                  |

Table 5-28

## Comparison of Models\*

| Model/Minimums                 | Percent Eligible |                   |                      |
|--------------------------------|------------------|-------------------|----------------------|
|                                | Original Group   | Visually Disabled | Differential Percent |
| <u>Single Index</u>            |                  |                   |                      |
| Rank in Top 2/5's              | 71               | 59                | -12                  |
| GPA > 2.75                     | 70               | 56                | -14                  |
| SAT > 800                      | 68               | 59                | -9                   |
| <u>Multiple Index</u>          |                  |                   |                      |
| GPA > 2.50 and SAT > 700       | 73               | 61                | -12                  |
| Top 2/5's and SAT > 500        | 70               | 59                | -11                  |
| Top 2/5's and SAT > 600        | 68               | 57                | -11                  |
| Top 3/5's and SAT > 800        | 67               | 58                | -9                   |
| GPA > 2.0 and SAT > 800        | 67               | 57                | -10                  |
| <u>Either-or</u>               |                  |                   |                      |
| Top 1/5 <u>or</u> SAT > 800    | 76               | 66                | -10                  |
| Top 2/5's <u>or</u> SAT > 1000 | 74               | 63                | -11                  |
| Top 2/5's <u>or</u> SAT > 1100 | 73               | 61                | -12                  |
| GPA > 3.0 <u>or</u> SAT > 900  | 70               | 59                | -11                  |
| <u>Sliding Scale</u>           |                  |                   |                      |
| Sliding Scale B                | 72               | 60                | -12                  |
| <u>Predicted Performance</u>   |                  |                   |                      |
| Institution A                  | 69               | 55                | -14                  |
| Institution B                  | 68               | 56                | -12                  |

\*These comparisons are limited to situations where about three-fourths of White seniors were eligible in the original study.

Table 6-1

Comparison of College-Bound Seniors & Candidates with Disabilities:  
Years 1979/80 to 1982/83

## TEST PERFORMANCE

|                             | College-Bound<br>Seniors | Hearing-<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
|-----------------------------|--------------------------|----------------------|----------------------|---------------------------|----------------------|
| <b>Number (Test Takers)</b> |                          |                      |                      |                           |                      |
| Male                        | 1,898,000                | 357                  | 7,294                | 658                       | 1,683                |
| Female                      | 2,038,000                | 395                  | 2,707                | 467                       | 1,325                |
| Total                       | 3,936,000                | 752                  | 10,001               | 1,125                     | 3,008                |
| <b>SAT Scores</b>           |                          |                      |                      |                           |                      |
| SAT-V: $\bar{X}$ (SD)       | 425 (110)                | 291 (90)             | 350 (91)             | 402 (111)                 | 404 (110)            |
| Relative Standing*          | -                        | -1.22                | -0.68                | -0.21                     | -0.19                |
| % Seniors Better            | -                        | 89%                  | 75%                  | 58%                       | 58%                  |
| SAT-M: $\bar{X}$ (SD)       | 467 (117)                | 375 (109)            | 389 (108)            | 421 (121)                 | 434 (128)            |
| Relative Standing*          | -                        | -0.79                | -0.67                | -0.39                     | -0.28                |
| % Seniors Better            | -                        | 79%                  | 75%                  | 65%                       | 61%                  |

\*In standard deviation units from the college-bound seniors' mean.

Table 6-2

Comparison of College-Bound Seniors & Candidates with Disabilities:  
Years 1979/80 to 1982/83

## HIGH SCHOOL PERFORMANCE

|  | College-Bound<br>Seniors | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |     |     |     |     |     |
|--|--------------------------|---------------------|----------------------|---------------------------|----------------------|-----|-----|-----|-----|-----|
| <b><u>Number with Grades</u></b>       |                          |                     |                      |                           |                      |     |     |     |     |     |
| Number with Data                       | 3,651,000                | 537                 | 6,246                | 809                       | 2,035                |     |     |     |     |     |
| Percent of Tested                      | 93%                      | 71%                 | 62%                  | 72%                       | 68%                  |     |     |     |     |     |
| <b><u>High School GPA</u></b>          |                          |                     |                      |                           |                      |     |     |     |     |     |
| Estimated HSGPA                        | 3.06                     | 2.83                | 2.52                 | 2.89                      | 2.86                 |     |     |     |     |     |
| Relative Standing*                     | -                        | -0.38               | -0.90                | -0.28                     | -0.33                |     |     |     |     |     |
| % Seniors Better                       | -                        | 65%                 | 82%                  | 61%                       | 63%                  |     |     |     |     |     |
| <b><u>Class Rank (Self-Report)</u></b> |                          |                     |                      |                           |                      |     |     |     |     |     |
| Top Tenth                              | 22%                      | 15%                 | 4%                   | 17%                       | 18%                  |     |     |     |     |     |
| Second Tenth                           | 22%                      | 14%                 | 8%                   | 16%                       | 17%                  |     |     |     |     |     |
| Second Fifth                           | 27%                      | 26%                 | 20%                  | 26%                       | 25%                  |     |     |     |     |     |
| Third Fifth                            | 26%                      | 35%                 | 49%                  | 32%                       | 32%                  |     |     |     |     |     |
| Fourth Fifth                           | 3%                       | 9%                  | 15%                  | 7%                        | 6%                   |     |     |     |     |     |
| Lowest Fifth                           | 1%                       | 1%                  | 4%                   | 2%                        | 2%                   |     |     |     |     |     |
| <b><u>SATs/Class Rank</u></b>          |                          |                     |                      |                           |                      |     |     |     |     |     |
|  | V                        | M                   | V                    | M                         | V                    | M   | V   | M   | V   | M   |
| Top Tenth                              | 510                      | 568                 | 325                  | 439                       | 408                  | 452 | 480 | 497 | 518 | 562 |
| Second Tenth                           | 447                      | 496                 | 297                  | 405                       | 385                  | 439 | 439 | 462 | 443 | 480 |
| Second Fifth                           | 413                      | 453                 | 306                  | 414                       | 375                  | 424 | 404 | 425 | 410 | 450 |
| Third Fifth                            | 372                      | 402                 | 292                  | 362                       | 342                  | 381 | 374 | 384 | 377 | 407 |
| Fourth Fifth                           | 348                      | 374                 | 273                  | 337                       | 323                  | 361 | 331 | 351 | 338 | 363 |
| Lowest Fifth                           | 341                      | 368                 | 234                  | 329                       | 304                  | 335 | 268 | 314 | 328 | 358 |

\*In standard deviation units from the college-bound seniors' mean.

Table 6-3  
Information on Specific Curriculums

|  | College-Bound<br>Seniors | Students who are:   |                      |                           |                      |
|--|--------------------------|---------------------|----------------------|---------------------------|----------------------|
|  |                          | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
| <b>a. <u>Mean Grades</u></b>                 |                          |                     |                      |                           |                      |
| English                                      | 3.12                     | 2.84                | 2.54                 | 3.00                      | 2.89                 |
| Math   | 2.85                     | 2.73                | 2.43                 | 2.69                      | 2.71                 |
| Foreign Language                             | 3.02                     | 2.80                | 2.19                 | 2.85                      | 2.81                 |
| Biological Sciences                          | 3.04                     | 2.68                | 2.49                 | 2.83                      | 2.85                 |
| Physical Science                             | 2.94                     | 2.73                | 2.49                 | 2.78                      | 2.79                 |
| Social Studies                               | 3.20                     | 2.88                | 2.66                 | 3.05                      | 3.01                 |
| <b>b. <u>Mean Years of Study</u></b>         |                          |                     |                      |                           |                      |
| English                                      | 4.0                      | 4.0                 | 3.9                  | 3.9                       | 4.0                  |
| Math   | 3.6                      | 3.6                 | 3.4                  | 3.4                       | 3.4                  |
| Foreign Language                             | 2.2                      | 0.9                 | 1.3                  | 1.9                       | 2.1                  |
| Biological Sciences                          | 1.4                      | 1.3                 | 1.4                  | 1.3                       | 1.3                  |
| Physical Sciences                            | 1.8                      | 1.6                 | 1.5                  | 1.5                       | 1.6                  |
| Social Studies                               | 3.2                      | 3.2                 | 3.2                  | 3.3                       | 3.3                  |
| <b>c. <u>Percent: No. Years of Study</u></b> |                          |                     |                      |                           |                      |
| English                                      | 0%                       | 0%                  | 0%                   | 0%                        | 0%                   |
| Math   | 0%                       | 0%                  | 0%                   | 0%                        | 0%                   |
| Foreign Language                             | 14%                      | 58%                 | 42%                  | 24%                       | 19%                  |
| Biological Sciences                          | 5%                       | 6%                  | 7%                   | 6%                        | 6%                   |
| Physical Sciences                            | 9%                       | 12%                 | 13%                  | 13%                       | 12%                  |
| Social Studies                               | 1%                       | 1%                  | 1%                   | 0%                        | 1%                   |



Table 6-3a  
 Mean Self-Reported Grades in Specific Curriculums

|                     | College-Bound<br>Seniors | Students who are:   |                      |                           |                      |
|---------------------|--------------------------|---------------------|----------------------|---------------------------|----------------------|
|                     |                          | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
| English             | 3.12                     | 2.84                | 2.54                 | 3.00                      | 2.89                 |
| Math                | 2.85                     | 2.73                | 2.43                 | 2.69                      | 2.71                 |
| Foreign Language    | 3.02                     | 2.80                | 2.19                 | 2.85                      | 2.81                 |
| Biological Sciences | 3.04                     | 2.68                | 2.49                 | 2.83                      | 2.85                 |
| Physical Science    | 2.94                     | 2.73                | 2.49                 | 2.78                      | 2.79                 |
| Social Studies      | 3.20                     | 2.88                | 2.66                 | 3.05                      | 3.01                 |

Table 6-3b  
 Mean Number of Years of Study in Specific Curriculums

|                     | College-Bound<br>Seniors | Students who are:   |                      |                           |                      |
|---------------------|--------------------------|---------------------|----------------------|---------------------------|----------------------|
|                     |                          | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
| English             | 4.0                      | 4.0                 | 3.9                  | 3.9                       | 4.0                  |
| Math                | 3.6                      | 3.6                 | 3.4                  | 3.4                       | 3.4                  |
| Foreign Language    | 2.2                      | 0.9                 | 1.3                  | 1.9                       | 2.1                  |
| Biological Sciences | 1.4                      | 1.3                 | 1.4                  | 1.3                       | 1.3                  |
| Physical Sciences   | 1.8                      | 1.6                 | 1.5                  | 1.5                       | 1.6                  |
| Social Studies      | 3.2                      | 3.2                 | 3.2                  | 3.3                       | 3.3                  |

Table 6-3c  
 Percent Reporting No Years of Study in Specific Curriculums

|                     | College-Bound<br>Seniors | Students who are:   |                      |                           |                      |
|---------------------|--------------------------|---------------------|----------------------|---------------------------|----------------------|
|                     |                          | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
| English             | 0%                       | 0%                  | 0%                   | 0%                        | 0%                   |
| Math                | 0%                       | 0%                  | 0%                   | 0%                        | 0%                   |
| Foreign Language    | 14%                      | 58%                 | 42%                  | 24%                       | 19%                  |
| Biological Sciences | 5%                       | 6%                  | 7%                   | 6%                        | 6%                   |
| Physical Science    | 9%                       | 12%                 | 13%                  | 13%                       | 12%                  |
| Social Studies      | 1%                       | 1%                  | 1%                   | 0%                        | 1%                   |

Table 6-4  
Degree Level Goals  
Percent with 2-Year, 4-Year, and Graduate Study Goals\*

|                          | College-Bound<br>Seniors | Students who are:   |                      |                           |                      |
|--------------------------|--------------------------|---------------------|----------------------|---------------------------|----------------------|
|                          |                          | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
| <b>Two-Year Program</b>  |                          |                     |                      |                           |                      |
| 1980                     | 6                        | 13                  | 9                    | 10                        | 6                    |
| 1981                     | 6                        | 4                   | 8                    | 5                         | 6                    |
| 1982                     | 5                        | 8                   | 9                    | 9                         | 7                    |
| 1983                     | 5                        | 12                  | 9                    | 7                         | 5                    |
| <b>Four-Year Program</b> |                          |                     |                      |                           |                      |
| 1980                     | 32                       | 33                  | 43                   | 35                        | 39                   |
| 1981                     | 32                       | 35                  | 44                   | 35                        | 34                   |
| 1982                     | 32                       | 46                  | 42                   | 32                        | 37                   |
| 1983                     | 33                       | 44                  | 43                   | 33                        | 41                   |
| <b>Graduate Study</b>    |                          |                     |                      |                           |                      |
| 1980                     | 42                       | 25                  | 26                   | 32                        | 40                   |
| 1981                     | 43                       | 39                  | 26                   | 40                        | 44                   |
| 1982                     | 43                       | 34                  | 26                   | 36                        | 40                   |
| 1983                     | 44                       | 24                  | 27                   | 40                        | 40                   |

\*Percent does not add to 100 because some students were undecided.

Table 6-5  
Percent Minority

|      | College-Bound<br>Seniors | Students who are:   |                      |                           |                      |
|------|--------------------------|---------------------|----------------------|---------------------------|----------------------|
|      |                          | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
| 1980 | 17.9                     | 9.9                 | 7.0                  | 16.8                      | 14.6                 |
| 1981 | 18.1                     | 7.9                 | 8.5                  | 11.1                      | 12.3                 |
| 1982 | 18.3                     | 10.1                | 8.6                  | 9.2                       | 14.0                 |
| 1983 | 18.9                     | 11.0                | 8.1                  | 10.6                      | 12.8                 |

Table 6-6a

## Distribution of Income

Mean Income Levels for College-Bound Seniors and  
Four Disability Groups

|                       | College-Bound<br>Seniors* | Students who are:   |                      |                           |                      |
|-----------------------|---------------------------|---------------------|----------------------|---------------------------|----------------------|
|                       |                           | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
| <b>Total Groups</b>   |                           |                     |                      |                           |                      |
| 1980                  | 22,200                    | 20,500              | 31,100               | 19,500                    | 22,600               |
| 1981                  | 24,100                    | 24,600              | 34,200               | 24,300                    | 26,200               |
| 1982                  | 26,800                    | 29,250              | 39,150               | 25,300                    | 26,650               |
| 1983                  | 29,000                    | 29,900              | 42,200               | 28,950                    | 31,000               |
| <b>Black Students</b> |                           |                     |                      |                           |                      |
| 1980                  | 11,600                    | 12,000              | 12,750               | 10,500                    | 12,500               |
| 1981                  | 12,100                    | 10,500              | 17,400               | 19,500                    | 14,100               |
| 1982                  | 14,000                    | 14,250              | 15,600               | 11,750                    | 12,300               |
| 1983                  | 15,000                    | 19,500              | 18,750               | 8,250                     | 18,500               |
| <b>White Students</b> |                           |                     |                      |                           |                      |
| 1980                  | 23,900                    | 22,100              | 31,850               | 21,600                    | 23,900               |
| 1981                  | 26,000                    | 25,500              | 35,200               | 24,800                    | 27,800               |
| 1982                  | 28,900                    | 30,500              | 40,500               | 27,100                    | 27,600               |
| 1983                  | 31,200                    | 32,200              | 43,000               | 30,950                    | 31,900               |

Table 6-6b

## Percent with Incomes Over \$30,000

|                     | College-Bound<br>Seniors* | Students who are:   |                      |                           |                      |
|---------------------|---------------------------|---------------------|----------------------|---------------------------|----------------------|
|                     |                           | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
| <b>Total Groups</b> |                           |                     |                      |                           |                      |
| 1980                | 30                        | 31                  | 52                   | 29                        | 35                   |
| 1981                | 36                        | 36                  | 58                   | 39                        | 44                   |
| 1982                | 43                        | 49                  | 66                   | 40                        | 43                   |
| 1983                | 48                        | 50                  | 70                   | 48                        | 52                   |

\*From College-Bound Seniors

**Table 6-7**  
**Attendance at Public vs. Private High Schools:**  
**1980-83**

|         | College-Bound<br>Seniors* | Students who are:   |                      |                           |                      |
|---------|---------------------------|---------------------|----------------------|---------------------------|----------------------|
|         |                           | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
| Public  | 81.2                      | 70.1                | 69.4                 | 81.1                      | 75.1                 |
| Private | 18.8                      | 29.9                | 30.6                 | 18.9                      | 24.9                 |

Table 6-8

## Extracurricular Activities

| Activities  | College-Bound<br>Seniors* | Students who are:   |                      |                           |                      |
|---|---------------------------|---------------------|----------------------|---------------------------|----------------------|
|   |                           | Hearing<br>Impaired | Learning<br>Disabled | Physically<br>Handicapped | Visually<br>Impaired |
| <b>Activities</b>                                 |                           |                     |                      |                           |                      |
| Athletics   | 69%                       | 62%                 | 68%                  | 35%                       | 49%                  |
| Ethnic Organizations                              | 7%                        | 7%                  | 5%                   | 6%                        | 6%                   |
| Journalism/Dramatics                              | 29%                       | 20%                 | 19%                  | 29%                       | 33%                  |
| Art/Music/Dance                                   | 43%                       | 27%                 | 35%                  | 32%                       | 45%                  |
| Dept./Profess. Clubs                              | 13%                       | 8%                  | 8%                   | 10%                       | 14%                  |
| Religious Organizations                           | 33%                       | 23%                 | 26%                  | 28%                       | 32%                  |
| Social/Comm. Clubs                                | 42%                       | 35%                 | 34%                  | 34%                       | 41%                  |
| Student Government                                | 23%                       | 14%                 | 14%                  | 21%                       | 22%                  |
| <b>Differences from<br/>College-Bound Seniors</b> |                           |                     |                      |                           |                      |
| Athletics   | -                         | -7                  | -1                   | -34                       | -20                  |
| Ethnic Organizations                              | -                         | 0                   | -2                   | -1                        | -1                   |
| Journalism/Dramatics                              | -                         | -9                  | -10                  | -0                        | +4                   |
| Art/Music/Dance                                   | -                         | -16                 | -8                   | -11                       | +2                   |
| Dept./Profess. Clubs                              | -                         | -5                  | -5                   | -3                        | +1                   |
| Religious Organizations                           | -                         | -10                 | -7                   | -5                        | -1                   |
| Social/Comm. Clubs                                | -                         | -7                  | -8                   | -8                        | -1                   |
| Student Government                                | -                         | -9                  | -9                   | -2                        | -1                   |



Table 6-9  
Comparison of Admissions Models

| Model/Minimums                                | College-Bound Seniors* | Percent Eligible |                   |                        |                   |
|---|------------------------|------------------|-------------------|------------------------|-------------------|
|   |                        | Hearing Impaired | Learning Disabled | Physically Handicapped | Visually Impaired |
| <b>Single Index</b>                           |                        |                  |                   |                        |                   |
| Rank in Top 2/5's                             | 71                     | 53               | 32                | 59                     | 59                |
| GPA > 2.75                                    | 70                     | 55               | 34                | 59                     | 56                |
| SAT > 800                                     | 68                     | 23               | 34                | 54                     | 59                |
| <b>Multiple Index</b>                         |                        |                  |                   |                        |                   |
| GPA > 2.50 and SAT > 700                      | 73                     | 32               | 34                | 60                     | 61                |
| Top 2/5's and SAT > 500                       | 70                     | 48               | 32                | 58                     | 59                |
| Top 2/5's and SAT > 600                       | 68                     | 36               | 28                | 55                     | 57                |
| Top 3/5's and SAT > 800                       | 67                     | 23               | 30                | 51                     | 58                |
| GPA > 2.0 and SAT > 800                       | 67                     | 23               | 31                | 53                     | 57                |
| <b>Either-Or</b>                              |                        |                  |                   |                        |                   |
| Top 1/5 or SAT > 800                          | 76                     | 44               | 40                | 62                     | 66                |
| Top 2/5's or SAT > 1000                       | 74                     | 54               | 35                | 62                     | 63                |
| Top 2/5's or SAT > 1100                       | 73                     | 54               | 33                | 60                     | 61                |
| GPA > 3.0 or SAT > 900                        | 70                     | 47               | 34                | 57                     | 59                |
| <b>Sliding Scale</b>                          |                        |                  |                   |                        |                   |
| Sliding Scale B                               | 72                     | 42               | 33                | 57                     | 60                |
| <b>Predicted Performance</b>                  |                        |                  |                   |                        |                   |
| Institution A                                 | 69                     | 42               | 29                | 55                     | 55                |
| Institution B                                 | 68                     | 37               | 28                | 54                     | 56                |
| <b>Differences from College-Bound Seniors</b> |                        |                  |                   |                        |                   |
| <b>Single Index</b>                           |                        |                  |                   |                        |                   |
| Rank in Top 2/5's                             | -                      | -18              | -39               | -12                    | -12               |
| GPA > 2.75                                    | -                      | -15              | -36               | -11                    | -14               |
| SAT > 800                                     | -                      | -45              | -34               | -14                    | -9                |
| <b>Multiple Index</b>                         |                        |                  |                   |                        |                   |
| GPA > 2.50 and SAT > 700                      | -                      | -41              | -39               | -13                    | -12               |
| Top 2/5's and SAT > 500                       | -                      | -22              | -38               | -12                    | -11               |
| Top 2/5's and SAT > 600                       | -                      | -32              | -40               | -13                    | -11               |
| Top 3/5's and SAT > 800                       | -                      | -44              | -37               | -16                    | -9                |
| GPA > 2.0 and SAT > 800                       | -                      | -44              | -36               | -14                    | -10               |
| <b>Either-Or</b>                              |                        |                  |                   |                        |                   |
| Top 1/5 or SAT > 800                          | -                      | -32              | -36               | -14                    | -10               |
| Top 2/5's or SAT > 1000                       | -                      | -20              | -39               | -12                    | -11               |
| Top 2/5's or SAT > 1100                       | -                      | -19              | -40               | -13                    | -12               |
| GPA > 3.0 or SAT > 900                        | -                      | -23              | -36               | -13                    | -11               |
| <b>Sliding Scale</b>                          |                        |                  |                   |                        |                   |
| Sliding Scale B                               | -                      | -30              | -39               | -15                    | -12               |
| <b>Predicted Performance</b>                  |                        |                  |                   |                        |                   |
| Institution A                                 | -                      | -27              | -40               | -14                    | -14               |
| Institution B                                 | -                      | -31              | -40               | -14                    | -12               |

\*These comparisons are limited to situations where about three-fourths of White Seniors were eligible in the original study.

## Appendix A

These tables appeared originally in College Bound Seniors: Eleven Years of National Data From the College Board's Admissions Testing Program 1973-83 published for the College Board in 1984 by Educational Testing Service, Princeton, NJ 08541.

Table 1\*  
SAT Scores

|                      | VERBAL   |          |          |          | MATH     |          |          |          |
|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|                      | '80<br>% | '81<br>% | '82<br>% | '83<br>% | '80<br>% | '81<br>% | '82<br>% | '83<br>% |
| <b>Male Scores</b>   |          |          |          |          |          |          |          |          |
| 700 - 800            | 1        | 1        | 1        | 1        | 4        | 4        | 4        | 6        |
| 600 - 699            | 7        | 6        | 6        | 6        | 16       | 16       | 16       | 16       |
| 500 - 599            | 20       | 20       | 19       | 20       | 27       | 30       | 28       | 27       |
| 400 - 499            | 33       | 33       | 35       | 34       | 28       | 28       | 28       | 27       |
| 300 - 399            | 28       | 27       | 27       | 29       | 19       | 18       | 18       | 19       |
| 200 - 299            | 12       | 11       | 11       | 11       | 5        | 5        | 5        | 5        |
| Number               | 478,284  | 478,448  | 476,316  | 464,899  | 478,193  | 478,301  | 476,192  | 464,733  |
| Mean                 | 428      | 430      | 431      | 430      | 491      | 492      | 493      | 493      |
| S. D.                | 110      | 110      | 110      | 109      | 120      | 119      | 120      | 121      |
| <b>Female Scores</b> |          |          |          |          |          |          |          |          |
| 700 - 800            | 1        | 1        | 1        | 1        | 1        | 1        | 1        | 1        |
| 600 - 699            | 6        | 6        | 6        | 6        | 9        | 8        | 9        | 9        |
| 500 - 599            | 18       | 17       | 18       | 18       | 22       | 24       | 22       | 22       |
| 400 - 499            | 32       | 32       | 34       | 34       | 32       | 32       | 33       | 31       |
| 300 - 399            | 30       | 30       | 29       | 30       | 28       | 26       | 27       | 29       |
| 200 - 299            | 13       | 14       | 13       | 13       | 8        | 8        | 8        | 7        |
| Number               | 512,961  | 515,598  | 511,954  | 497,978  | 512,863  | 515,371  | 511,750  | 497,809  |
| Mean                 | 420      | 418      | 421      | 420      | 443      | 443      | 443      | 445      |
| S. D.                | 110      | 110      | 110      | 108      | 109      | 109      | 109      | 111      |
| <b>Total Scores</b>  |          |          |          |          |          |          |          |          |
| 700 - 800            | 1        | 1        | 1        | 1        | 3        | 3        | 3        | 3        |
| 600 - 699            | 6        | 6        | 6        | 6        | 12       | 11       | 12       | 13       |
| 500 - 599            | 18       | 19       | 19       | 18       | 24       | 27       | 25       | 24       |
| 400 - 499            | 32       | 33       | 34       | 34       | 30       | 30       | 30       | 30       |
| 300 - 399            | 29       | 29       | 28       | 29       | 24       | 22       | 23       | 24       |
| 200 - 299            | 13       | 12       | 13       | 11       | 6        | 7        | 6        | 6        |
| Number               | 991,245  | 994,046  | 988,270  | 962,877  | 991,056  | 993,672  | 987,942  | 962,542  |
| Mean                 | 424      | 424      | 426      | 425      | 466      | 466      | 467      | 468      |
| S. D.                | 110      | 110      | 110      | 109      | 117      | 117      | 117      | 119      |

\*From College-Bound Seniors, pages 6 & 7.

Table 2\*  
SAT Verbal Subscores

|                      | READING COMPREHENSION |         |         |         | VOCABULARY |         |         |         |
|----------------------|-----------------------|---------|---------|---------|------------|---------|---------|---------|
|                      | '80                   | '81     | '82     | '83     | '80        | '81     | '82     | '83     |
|                      | %                     | %       | %       | %       | %          | %       | %       | %       |
| <b>Male Scores</b>   |                       |         |         |         |            |         |         |         |
| 70 - 80              | 1                     | 1       | 1       | 1       | 1          | 1       | 1       | 1       |
| 60 - 69              | 7                     | 7       | 7       | 7       | 6          | 6       | 6       | 7       |
| 50 - 59              | 20                    | 20      | 20      | 20      | 20         | 21      | 20      | 20      |
| 40 - 49              | 32                    | 32      | 34      | 32      | 34         | 35      | 36      | 33      |
| 30 - 39              | 29                    | 29      | 27      | 26      | 26         | 25      | 25      | 28      |
| 20 - 29              | 12                    | 11      | 12      | 12      | 11         | 12      | 11      | 11      |
| Number               | 478,249               | 478,426 | 476,281 | 464,866 | 478,243    | 478,411 | 476,274 | 464,835 |
| Mean                 | 47.7                  | 43.1    | 43.1    | 43.1    | 43.0       | 42.9    | 43.1    | 43.0    |
| S. D.                | 11.2                  | 11.2    | 11.2    | 11.5    | 11.1       | 10.8    | 10.9    | 11.4    |
| <b>Female Scores</b> |                       |         |         |         |            |         |         |         |
| 70 - 80              | 1                     | 1       | 1       | 1       | 1          | 1       | 1       | 1       |
| 60 - 69              | 6                     | 5       | 6       | 6       | 6          | 4       | 6       | 6       |
| 50 - 59              | 18                    | 18      | 18      | 20      | 17         | 19      | 18      | 18      |
| 40 - 49              | 32                    | 31      | 34      | 33      | 33         | 34      | 35      | 33      |
| 30 - 39              | 31                    | 32      | 28      | 28      | 28         | 27      | 28      | 28      |
| 20 - 29              | 12                    | 12      | 13      | 14      | 13         | 14      | 13      | 13      |
| Number               | 512,943               | 515,578 | 511,928 | 497,945 | 512,927    | 515,561 | 511,907 | 497,928 |
| Mean                 | 42.3                  | 41.9    | 42.2    | 42.2    | 41.9       | 41.9    | 42.1    | 42.0    |
| S. D.                | 10.9                  | 10.9    | 11.0    | 11.3    | 11.3       | 11.0    | 11.0    | 11.3    |
| <b>Total Scores</b>  |                       |         |         |         |            |         |         |         |
| 70 - 80              | 1                     | 1       | 1       | 1       | 1          | 1       | 1       | 1       |
| 60 - 69              | 7                     | 6       | 6       | 6       | 6          | 4       | 6       | 7       |
| 50 - 59              | 18                    | 19      | 19      | 20      | 19         | 20      | 19      | 19      |
| 40 - 49              | 32                    | 32      | 34      | 33      | 34         | 35      | 35      | 33      |
| 30 - 39              | 29                    | 30      | 27      | 28      | 28         | 26      | 27      | 28      |
| 20 - 29              | 12                    | 12      | 13      | 12      | 13         | 13      | 12      | 13      |
| Number               | 991,192               | 994,004 | 988,209 | 962,811 | 991,170    | 993,972 | 988,181 | 962,763 |
| Mean                 | 42.5                  | 42.5    | 42.7    | 42.6    | 42.4       | 42.4    | 42.6    | 42.5    |
| S. D.                | 11.1                  | 11.1    | 11.1    | 11.4    | 11.2       | 10.9    | 11.0    | 11.4    |

\*From College-Bound Seniors, pages 8 & 9.

Table 3\*

## Test of Standard Written English (TSWE) Scores

| Year                 | '80     | '81     | '82     | '83     |
|----------------------|---------|---------|---------|---------|
|                      | %       | %       | %       | %       |
| <b>Male Scores</b>   |         |         |         |         |
| 60 +                 | 3       | 3       | 3       | 3       |
| 50 - 59              | 24      | 24      | 24      | 24      |
| 40 - 49              | 30      | 32      | 32      | 30      |
| 30 - 39              | 25      | 26      | 25      | 26      |
| 20 - 29              | 16      | 16      | 16      | 16      |
| Number               | 478,210 | 478,364 | 476,223 | 464,843 |
| Mean                 | 41.7    | 41.5    | 41.7    | 41.6    |
| S. D.                | 11.0    | 10.9    | 10.8    | 10.9    |
| <b>Female Scores</b> |         |         |         |         |
| 60 +                 | 4       | 3       | 3       | 4       |
| 50 - 59              | 28      | 28      | 27      | 28      |
| 40 - 49              | 31      | 32      | 33      | 31      |
| 30 - 39              | 22      | 23      | 23      | 23      |
| 20 - 29              | 14      | 14      | 14      | 13      |
| Number               | 512,947 | 515,510 | 511,879 | 497,976 |
| Mean                 | 43.0    | 42.9    | 42.8    | 43.0    |
| S. D.                | 10.8    | 10.8    | 10.7    | 10.7    |
| <b>Total Scores</b>  |         |         |         |         |
| 60 +                 | 4       | 3       | 3       | 3       |
| 50 - 59              | 26      | 26      | 26      | 26      |
| 40 - 49              | 31      | 32      | 32      | 31      |
| 30 - 39              | 24      | 25      | 24      | 25      |
| 20 - 29              | 16      | 15      | 15      | 15      |
| Number               | 991,157 | 993,874 | 988,102 | 962,819 |
| Mean                 | 42.4    | 42.2    | 42.3    | 42.3    |
| S. D.                | 11.0    | 10.8    | 10.8    | 10.8    |

\*From College-Bound Seniors, page 10.

Table 5\*

## Latest Self-Reported Grade: TOTAL GROUP

| Year                   | '80                     | '81     | '82     | '83     | '80                       | '81     | '82     | '83     |
|------------------------|-------------------------|---------|---------|---------|---------------------------|---------|---------|---------|
|                        | %                       | %       | %       | %       | %                         | %       | %       | %       |
| <b>TOTAL</b>           | <b>ENGLISH</b>          |         |         |         | <b>MATHEMATICS</b>        |         |         |         |
| A (4.0)                | 33                      | 33      | 33      | 32      | 26                        | 26      | 27      | 27      |
| B (3.0)                | 47                      | 48      | 48      | 48      | 39                        | 39      | 39      | 39      |
| C (2.0)                | 17                      | 18      | 17      | 18      | 28                        | 28      | 27      | 27      |
| D (1.0)                | 2                       | 2       | 2       | 2       | 1                         | 1       | 0       | 1       |
| E (0.0)                | 0                       | 0       | 0       | 0       | 6                         | 6       | 6       | 6       |
| No Graded Courses      | 0                       | 0       | 0       | 0       | 0                         | 0       | 0       | 0       |
| Number                 | 925,250                 | 925,650 | 917,289 | 884,270 | 924,663                   | 925,197 | 917,314 | 883,655 |
| Mean                   | 3.13                    | 3.12    | 3.11    | 3.11    | 2.84                      | 2.84    | 2.85    | 2.86    |
| Percent Honors Courses | 14                      | 15      | 16      | 18      | 14                        | 14      | 15      | 16      |
| <b>TOTAL</b>           | <b>FOREIGN LANGUAGE</b> |         |         |         | <b>BIOLOGICAL SCIENCE</b> |         |         |         |
| A (4.0)                | 35                      | 35      | 36      | 36      | 33                        | 33      | 33      | 33      |
| B (3.0)                | 36                      | 37      | 36      | 37      | 42                        | 42      | 42      | 43      |
| C (2.0)                | 22                      | 22      | 21      | 21      | 21                        | 21      | 21      | 21D     |
| (1.0)                  | 5                       | 6       | 5       | 5       | 3                         | 3       | 3       | 3       |
| E (0.0)                | 1                       | 1       | 1       | 1       | 0                         | 0       | 0       | 0       |
| No Graded Courses      | 1                       | 1       | 0       | 0       | 0                         | 0       | 0       | 0       |
| Number                 | 810,833                 | 810,541 | 807,704 | 779,766 | 883,634                   | 885,386 | 879,382 | 848,285 |
| Mean                   | 3.01                    | 3.01    | 3.02    | 3.03    | 3.05                      | 3.04    | 3.04    | 3.04    |
| Percent Honors Courses | 7                       | 7       | 7       | 8       | 9                         | 9       | 10      | 11      |
| <b>TOTAL</b>           | <b>PHYSICAL SCIENCE</b> |         |         |         | <b>SOCIAL STUDIES</b>     |         |         |         |
| A (4.0)                | 28                      | 28      | 28      | 28      | 41                        | 40      | 40      | 40      |
| B (3.0)                | 42                      | 42      | 42      | 43      | 42                        | 42      | 42      | 43      |
| C (2.0)                | 24                      | 25      | 25      | 25      | 15                        | 15      | 16      | 16      |
| D (1.0)                | 4                       | 4       | 4       | 4       | 2                         | 2       | 2       | 2       |
| E (0.0)                | 1                       | 1       | 1       | 0       | 0                         | 0       | 0       | 0       |
| No Graded Courses      | 0                       | 0       | 0       | 0       | 0                         | 0       | 0       | 0       |
| Number                 | 831,206                 | 835,319 | 833,948 | 806,618 | 920,420                   | 921,003 | 914,003 | 880,277 |
| Mean                   | 2.94                    | 2.94    | 2.94    | 2.94    | 3.22                      | 3.20    | 3.20    | 3.19    |
| Percent Honors Courses | 9                       | 10      | 10      | 12      | 9                         | 9       | 10      | 12      |

\*From College-Bound Seniors, pages 17-22.

Table 6\*

## Number of Years of Study of Subject: Total Group

| Year               | '80                      | '81     | '82     | '83     | '80                        | '81     | '82     | '83     |
|--------------------|--------------------------|---------|---------|---------|----------------------------|---------|---------|---------|
|                    | %                        | %       | %       | %       | %                          | %       | %       | %       |
| <b>TOTAL</b>       | <b>ENGLISH</b>           |         |         |         | <b>MATHEMATICS</b>         |         |         |         |
| No Courses         | 0                        | 0       | 0       | 0       | 0                          | 0       | 0       | 0       |
| One Year           | 1                        | 1       | 1       | 1       | 2                          | 2       | 2       | 2       |
| Two Years          | 2                        | 1       | 1       | 2       | 13                         | 12      | 11      | 10      |
| Three Years        | 7                        | 6       | 5       | 5       | 29                         | 27      | 26      | 25      |
| Four Years         | 80                       | 82      | 82      | 82      | 47                         | 49      | 50      | 52      |
| Five or More Years | 10                       | 10      | 10      | 10      | 10                         | 10      | 11      | 12      |
| Number             | 929,651                  | 929,958 | 921,888 | 889,682 | 928,989                    | 929,203 | 921,143 | 889,012 |
| Mean               | 3.96                     | 3.98    | 3.98    | 3.99    | 3.47                       | 3.52    | 3.57    | 3.62    |
| <b>TOTAL</b>       | <b>FOREIGN LANGUAGE</b>  |         |         |         | <b>BIOLOGICAL SCIENCES</b> |         |         |         |
| No Courses         | 14                       | 14      | 13      | 13      | 5                          | 5       | 5       | 5       |
| One Year           | 14                       | 14      | 13      | 13      | 61                         | 61      | 61      | 61      |
| Two Years          | 36                       | 36      | 35      | 35      | 26                         | 27      | 27      | 27      |
| Three Years        | 20                       | 20      | 21      | 21      | 5                          | 5       | 5       | 5       |
| Four Years         | 13                       | 13      | 14      | 14      | 2                          | 2       | 2       | 2       |
| Five or More Years | 4                        | 4       | 4       | 4       | 1                          | 1       | 1       | 1       |
| Number             | 922,456                  | 922,919 | 915,384 | 884,006 | 925,034                    | 925,317 | 917,304 | 885,711 |
| Mean               | 2.17                     | 2.18    | 2.21    | 2.23    | 1.40                       | 1.40    | 1.40    | 1.40    |
| <b>TOTAL</b>       | <b>PHYSICAL SCIENCES</b> |         |         |         | <b>SOCIAL STUDIES</b>      |         |         |         |
| No Courses         | 9                        | 9       | 8       | 8       | 1                          | 1       | 1       | 0       |
| One Year           | 32                       | 32      | 32      | 31      | 2                          | 2       | 2       | 2       |
| Two Years          | 35                       | 35      | 35      | 36      | 18                         | 17      | 17      | 17      |
| Three Years        | 18                       | 19      | 19      | 20      | 40                         | 40      | 41      | 41      |
| Four Years         | 4                        | 4       | 4       | 4       | 33                         | 34      | 34      | 34      |
| Five or More Years | 1                        | 1       | 1       | 1       | 6                          | 6       | 6       | 6       |
| Number             | 922,104                  | 922,716 | 914,972 | 883,789 | 923,813                    | 924,380 | 916,492 | 884,116 |
| Mean               | 1.77                     | 1.79    | 1.82    | 1.85    | 3.20                       | 3.22    | 3.23    | 3.23    |

\*From College-Bound Seniors, pages 23-28.

Table 7\*  
Self-Reported Class Rank

| Year                   | TOTAL GROUP |          |          |          |
|------------------------|-------------|----------|----------|----------|
|                        | '80<br>%    | '81<br>% | '82<br>% | '83<br>% |
| Top Tenth              | 22          | 21       | 22       | 22       |
| Second Tenth           | 22          | 22       | 22       | 22       |
| Second Fifth           | 27          | 27       | 27       | 26       |
| Third Fifth            | 26          | 26       | 26       | 26       |
| Fourth Fifth           | 3           | 3        | 3        | 3        |
| Lowest Fifth           | 1           | 1        | 1        | 1        |
| Number Responding      | 888,835     | 889,347  | 881,333  | 851,370  |
| Median Percentile Rank | 75.3        | 74.9     | 74.9     | 75.0     |

\*From College Bound Seniors, page 29.

Table 7\* (Cont.)  
Self-Reported Class Rank  
Verbal and Math Mean

| Year              | '80     |         | '81     |         | '82     |         | '83     |         |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|                   | V       | M       | V       | M       | V       | M       | V       | M       |
| Top Tenth         | 510     | 568     | 511     | 567     | 511     | 568     | 508     | 570     |
| Second Tenth      | 446     | 494     | 447     | 496     | 449     | 497     | 447     | 498     |
| Second Fifth      | 411     | 451     | 412     | 453     | 415     | 454     | 414     | 455     |
| Third Fifth       | 370     | 401     | 371     | 402     | 374     | 404     | 374     | 403     |
| Fourth Fifth      | 346     | 373     | 348     | 374     | 349     | 375     | 351     | 375     |
| Lowest Fifth      | 339     | 366     | 339     | 368     | 343     | 368     | 343     | 369     |
| Number Responding | 849,622 | 849,526 | 849,756 | 849,567 | 844,607 | 844,409 | 816,692 | 816,459 |

\*From College-Bound Seniors, page 31.



Table 8\*  
Estimated High School Grade Point Average

| Year          | '80     | '81     | '82     | '83     |
|---------------|---------|---------|---------|---------|
| HGPA          | %       | %       | %       | %       |
| <b>Male</b>   |         |         |         |         |
| 3.50 - 4.00   | 25      | 24      | 24      | 24      |
| 3.00 - 3.59   | 29      | 29      | 29      | 29      |
| 2.50 - 2.99   | 25      | 26      | 25      | 26      |
| 2.00 - 2.49   | 16      | 16      | 16      | 16      |
| 1.50 - 1.99   | 5       | 5       | 5       | 5       |
| Under 1.50    | 0       | 0       |         |         |
| Number        | 435,801 | 435,995 | 432,811 | 417,488 |
| Mean          | 3.00    | 3.00    | 3.00    | 3.00    |
| S. D.         | .62     | .62     | .62     | .62     |
| <b>Female</b> |         |         |         |         |
| 3.50 - 4.00   | 31      | 30      | 30      | 30      |
| 3.00 - 3.49   | 31      | 31      | 31      | 31      |
| 2.50 - 2.99   | 23      | 24      | 24      | 24      |
| 2.00 - 2.49   | 12      | 12      | 12      | 12      |
| 1.50 - 1.99   | 3       | 3       | 3       | 3       |
| Under 1.50    | 0       | 0       | 0       | 0       |
| Number        | 488,650 | 489,356 | 484,530 | 466,790 |
| Mean          | 3.12    | 3.11    | 3.11    | 3.11    |
| S. D.         | .58     | .59     | .59     | .59     |
| <b>Total</b>  |         |         |         |         |
| 3.50 - 4.00   | 28      | 27      | 27      | 27      |
| 3.00 - 3.49   | 31      | 30      | 30      | 30      |
| 2.50 - 2.99   | 24      | 25      | 25      | 25      |
| 2.00 - 2.49   | 14      | 14      | 14      | 14      |
| 1.50 - 1.99   | 4       | 4       | 4       | 4       |
| Under 1.50    | 0       | 0       |         |         |
| Number        | 924,451 | 925,351 | 917,341 | 884,278 |
| Mean          | 3.06    | 3.06    | 3.06    | 3.06    |
| S. D.         | .60     | .60     | .60     | .60     |

\*From College-Bound Seniors, page 30.

Table 9\*

| Year                | Ethnic Background |          |          |          |
|---------------------|-------------------|----------|----------|----------|
|                     | '80<br>%          | '81<br>% | '82<br>% | '83<br>% |
| American Indian     | 0.5               | 0.6      | 0.5      | 0.5      |
| Black               | 9.1               | 9.0      | 8.9      | 8.8      |
| Mexican-American    | 1.7               | 1.7      | 1.8      | 1.9      |
| Oriental            | 3.2               | 3.4      | 3.8      | 4.2      |
| Puerto Rican        | 1.1               | 1.1      | 1.2      | 1.2      |
| White               | 82.1              | 81.9     | 81.7     | 81.1     |
| Other               | 2.3               | 2.2      | 2.2      | 2.2      |
| Number Responding   | 911,397           | 912,683  | 902,830  | 875,475  |
| % Minority Students | 17.9              | 18.1     | 18.3     | 18.9     |

\*From College-Bound Seniors, page 34.

Table 10\*

## Median Parental Income, by Ethnic Group

| Year         | '80    | '81    | '82    | '83    |
|--------------|--------|--------|--------|--------|
| All Students | 22,200 | 24,100 | 26,800 | 29,000 |
| Black        | 11,600 | 12,100 | 14,000 | 15,000 |
| White        | 23,900 | 26,000 | 28,900 | 31,200 |

## Income (All Students)

| Year                | '80<br>% | '81<br>% | '82<br>% | '83<br>% |
|---------------------|----------|----------|----------|----------|
| Below \$12,000      | 18.1     | 16.2     | 13.7     | 12.8     |
| \$12,000 - \$23,999 | 37.1     | 33.3     | 29.2     | 26.0     |
| \$24,000 - \$29,999 | 14.6     | 14.8     | 14.3     | 13.5     |
| Above \$30,000      | 30.1     | 35.6     | 42.6     | 47.7     |

\*From College-Bound Seniors, Pages 35 and 36.

Table 11\*

Annual Parental Income, by SAT Average  
Mean Income

| Year               | '80    | '81    | '82    | '83    |
|--------------------|--------|--------|--------|--------|
| <b>SAT Average</b> |        |        |        |        |
| 350 - 399          | 26,300 | 27,700 | 30,500 | 33,000 |
| 400 - 449          | 28,400 | 30,300 | 33,300 | 35,900 |
| 450 - 499          | 30,200 | 32,400 | 35,600 | 38,300 |
| 500 - 549          | 31,700 | 34,400 | 37,700 | 40,800 |
| 550 - 599          | 33,200 | 36,300 | 40,000 | 43,600 |
| 600 - 649          | 34,800 | 38,400 | 42,400 | 45,700 |

From College-Bound Seniors, page 37.

Table 12\*

## Degree-Level Goals

| Year                                 | '80     | '81     | '82     | '83     |
|--------------------------------------|---------|---------|---------|---------|
|                                      | %       | %       | %       | %       |
| Two-Year Training Program            | 3       | 3       | 3       | 3       |
| Associate of Arts Degree             | 3       | 2       | 2       | 2       |
| BA or BS Degree                      | 32      | 32      | 32      | 33      |
| MA or MS Degree                      | 25      | 25      | 26      | 26      |
| MD, Ph.D., Other Professional Degree | 18      | 17      | 18      | 18      |
| Undecided                            | 20      | 20      | 19      | 18      |
| Number Responding                    | 923,507 | 923,608 | 915,441 | 883,976 |
| Two-Year Program or Degree           | 6       | 6       | 5       | 5       |
| Graduate Study                       | 42      | 43      | 43      | 44      |

\*From College-Bound Seniors, page 38.

Table 13\*  
Plans to Ask College for Special Assistance  
by Areas of Need

| Year                       | '80  | '81  | '82  | '83  |
|----------------------------|------|------|------|------|
|                            | %    | %    | %    | %    |
| Education Counseling       | 34.3 | 33.1 | 33.6 | 33.6 |
| Voc./Career Counseling     | 26.2 | 25.7 | 26.1 | 26.1 |
| Mathematical Skills        | 16.5 | 16.5 | 17.1 | 17.6 |
| Reading Skills             | 11.7 | 11.0 | 10.7 | 10.4 |
| Writing Skills             | 13.8 | 13.6 | 14.0 | 14.3 |
| Study Skills               | 22.6 | 22.4 | 22.9 | 23.1 |
| Part-time Work             | 38.9 | 39.3 | 40.3 | 41.5 |
| Personal Counseling        | 3.7  | 3.4  | 3.5  | 3.5  |
| Percent Seeking Assistance | 80.4 | 80.4 | 81.3 | 82.0 |

\*From College-Bound Seniors, page 39.

Table 14\*

## Intended Field of Study - First Choice

## MALE

| Year                  | '80  | '81  | '82  | '83  |
|-----------------------|------|------|------|------|
|                       | %    | %    | %    | %    |
| Agriculture           | 2.1  | 2.0  | 1.9  | 1.7  |
| Arch./Envir. Design   | 3.3  | 3.2  | 3.0  | 2.7  |
| Art                   | 2.3  | 2.3  | 2.2  | 2.1  |
| Biological Sciences   | 3.6  | 3.4  | 3.3  | 3.1  |
| Business & Commerce   | 18.5 | 17.6 | 17.5 | 17.0 |
| Communications        | 3.4  | 3.5  | 3.4  | 3.3  |
| Computer Science/Sys. |      |      |      |      |
| Analysis              | 4.9  | 6.5  | 8.8  | 11.8 |
| Education             | 2.8  | 2.6  | 2.2  | 2.0  |
| Engineering           | 20.4 | 21.5 | 22.5 | 22.2 |
| English/Literature    | 0.9  | 0.9  | 0.9  | 0.9  |
| Ethnic Studies        | 0.0  | 0.0  | 0.0  | 0.0  |
| Foreign Languages     | 0.3  | 0.3  | 0.3  | 0.3  |
| Forestry/Conservation | 1.6  | 1.4  | 1.1  | 0.9  |
| Geography             | 0.0  | 0.1  | 0.1  | 0.1  |
| Health & Medical      | 9.2  | 9.0  | 8.5  | 8.6  |
| History & Culture     | 0.8  | 0.7  | 0.7  | 0.7  |
| Home Economics        | 0.1  | 0.1  | 0.1  | 0.1  |
| Library Science       | 0.0  | 0.0  | 0.0  | 0.0  |
| Mathematics           | 1.2  | 1.2  | 1.1  | 1.1  |
| Military Science      | 1.4  | 1.4  | 1.4  | 1.4  |
| Music                 | 1.9  | 1.8  | 1.6  | 1.5  |
| Philosophy & Religion | 0.6  | 0.6  | 0.5  | 0.5  |
| Physical Sciences     | 3.3  | 3.1  | 2.9  | 2.7  |
| Psychology            | 1.5  | 1.4  | 1.3  | 1.4  |
| Social Sciences       | 7.7  | 7.4  | 7.2  | 7.2  |
| Theater Arts          | 0.9  | 0.8  | 0.7  | 0.6  |
| Trade & Vocational    | 1.3  | 1.2  | 1.1  | 0.9  |
| Other                 | 1.2  | 1.2  | 1.1  | 1.0  |
| Undecided             | 4.7  | 4.8  | 4.5  | 4.2  |

\*From College-Bound Seniors, page 42.

Table 14 (Cont.)\*

## Intended Field of Study - First Choice

## FEMALE

| Year                              | '80  | '81  | '82  | '83  |
|-----------------------------------|------|------|------|------|
|                                   | %    | %    | %    | %    |
| Agriculture                       | 1.1  | 1.0  | 0.9  | 0.8  |
| Arch./Envir. Design               | 0.9  | 0.8  | 0.8  | 0.7  |
| Art                               | 5.8  | 5.4  | 5.0  | 4.6  |
| Biological Sciences               | 3.3  | 3.2  | 3.1  | 3.1  |
| Business & Commerce               | 18.8 | 19.4 | 19.8 | 19.8 |
| Communications                    | 3.8  | 4.0  | 3.9  | 4.0  |
| Computer Science/Sys.<br>Analysis | 3.5  | 4.8  | 6.7  | 8.5  |
| Education                         | 9.0  | 8.6  | 7.4  | 6.7  |
| Engineering                       | 2.9  | 3.2  | 3.8  | 3.9  |
| English/Literature                | 2.0  | 1.9  | 1.9  | 1.8  |
| Ethnic Studies                    | 0.0  | 0.0  | 0.0  | 0.0  |
| Foreign Languages                 | 1.4  | 1.4  | 1.3  | 1.3  |
| Forestry/Conservation             | 0.6  | 0.4  | 0.3  | 0.2  |
| Geography                         | 0.0  | 0.0  | 0.0  | 0.0  |
| Health & Medical                  | 19.5 | 19.3 | 19.3 | 20.1 |
| History & Culture                 | 0.4  | 0.4  | 0.4  | 0.4  |
| Home Economics                    | 1.1  | 1.0  | 0.9  | 0.8  |
| Library Science                   | 0.1  | 0.1  | 0.0  | 0.0  |
| Mathematics                       | 1.0  | 1.0  | 1.0  | 1.0  |
| Military Science                  | 0.1  | 0.1  | 0.1  | 0.1  |
| Music                             | 1.8  | 1.7  | 1.5  | 1.4  |
| Philosophy & Religion             | 0.3  | 0.3  | 0.3  | 0.2  |
| Physical Sciences                 | 1.1  | 1.0  | 1.0  | 1.0  |
| Psychology                        | 5.2  | 5.2  | 5.2  | 5.1  |
| Social Sciences                   | 7.8  | 7.4  | 7.3  | 7.1  |
| Theater Arts                      | 2.0  | 1.9  | 1.7  | 1.5  |
| Trade & Vocational                | 0.9  | 0.9  | 0.8  | 0.7  |
| Other                             | 1.0  | 0.9  | 0.9  | 0.8  |
| Undecided                         | 4.5  | 4.8  | 4.5  | 4.3  |

\*From College-Bound Seniors, page 43.

Table 14 (Cont.)\*

## Intended Field of Study - First Choice

## TOTAL

| Year                              | '80  | '81  | '82  | '83  |
|-----------------------------------|------|------|------|------|
|                                   | %    | %    | %    | %    |
| Agriculture                       | 1.6  | 1.5  | 1.3  | 1.2  |
| Arch./Envir. Design               | 2.0  | 2.0  | 1.8  | 1.6  |
| Art                               | 4.1  | 3.9  | 3.7  | 3.4  |
| Biological Sciences               | 3.4  | 3.3  | 3.2  | 3.1  |
| Business & Commerce               | 18.6 | 18.5 | 18.7 | 18.5 |
| Communications                    | 3.6  | 3.7  | 3.6  | 3.7  |
| Computer Science/Sys.<br>Analysis | 4.2  | 5.6  | 7.7  | 10.1 |
| Education                         | 6.1  | 5.7  | 5.0  | 4.5  |
| Engineering                       | 11.1 | 11.8 | 12.6 | 12.5 |
| English/Literature                | 1.5  | 1.4  | 1.4  | 1.4  |
| Ethnic Studies                    | 0.0  | 0.0  | 0.0  | 0.0  |
| Foreign Languages                 | 0.9  | 0.9  | 0.8  | 0.8  |
| Forestry/Conservation             | 1.0  | 0.9  | 0.7  | 0.5  |
| Geography                         | 0.0  | 0.0  | 0.0  | 0.0  |
| Health & Medical                  | 14.7 | 14.4 | 14.2 | 14.7 |
| History & Culture                 | 0.6  | 0.5  | 0.5  | 0.5  |
| Home Economics                    | 0.6  | 0.6  | 0.5  | 0.5  |
| Library Science                   | 0.0  | 0.0  | 0.0  | 0.0  |
| Mathematics                       | 1.1  | 1.1  | 1.1  | 1.1  |
| Military Science                  | 0.7  | 0.7  | 0.7  | 0.7  |
| Music                             | 1.8  | 1.7  | 1.6  | 1.4  |
| Philosophy & Religion             | 0.4  | 0.4  | 0.4  | 0.4  |
| Physical Sciences                 | 2.1  | 2.0  | 1.9  | 1.8  |
| Psychology                        | 3.5  | 3.4  | 3.4  | 3.3  |
| Social Sciences                   | 7.8  | 7.4  | 7.2  | 7.2  |
| Theater Arts                      | 1.5  | 1.4  | 1.3  | 1.1  |
| Trade & Vocational                | 1.1  | 1.1  | 0.9  | 0.8  |
| Other                             | 1.1  | 1.1  | 1.0  | 0.9  |
| Undecided                         | 4.6  | 4.8  | 4.5  | 4.2  |

\*From College-Bound Seniors, page 44.

Table 14 (Cont.)\*

## Intended Field of Study - First Choice

## SAT Mean Scores

| Year                               | TOTAL |     |     |     |     |     |     |     |
|------------------------------------|-------|-----|-----|-----|-----|-----|-----|-----|
|                                    | '80   |     | '81 |     | '82 |     | '83 |     |
|                                    | V     | M   | V   | M   | V   | M   | V   | M   |
| Agriculture                        | 403   | 437 | 404 | 440 | 402 | 436 | 400 | 435 |
| Arch./Envir. Design                | 415   | 491 | 414 | 489 | 412 | 486 | 412 | 485 |
| Art                                | 402   | 419 | 403 | 421 | 403 | 419 | 405 | 420 |
| Biological Sciences                | 469   | 506 | 471 | 504 | 472 | 504 | 473 | 508 |
| Business & Commerce                | 399   | 446 | 398 | 446 | 401 | 446 | 402 | 445 |
| Communications                     | 444   | 446 | 443 | 446 | 446 | 446 | 445 | 445 |
| Computer Science/<br>Sys. Analysis | 417   | 496 | 416 | 492 | 417 | 489 | 413 | 484 |
| Education                          | 389   | 418 | 391 | 418 | 394 | 419 | 394 | 418 |
| Engineering                        | 444   | 535 | 446 | 534 | 449 | 537 | 448 | 539 |
| English/Literature                 | 507   | 481 | 507 | 482 | 512 | 483 | 515 | 490 |
| Ethnic Studies                     | 378   | 381 | 381 | 395 | 367 | 377 | 384 | 388 |
| Foreign Languages                  | 472   | 475 | 474 | 477 | 477 | 478 | 480 | 481 |
| Forestry/Conservation              | 416   | 451 | 418 | 452 | 421 | 455 | 417 | 448 |
| Geography                          | 424   | 471 | 422 | 474 | 416 | 452 | 420 | 457 |
| Health & Medical                   | 429   | 470 | 428 | 469 | 429 | 467 | 427 | 465 |
| History & Cultures                 | 481   | 474 | 482 | 472 | 485 | 475 | 490 | 478 |
| Home Economics                     | 385   | 414 | 383 | 411 | 385 | 407 | 384 | 408 |
| Library Science                    | 474   | 444 | 464 | 431 | 483 | 449 | 462 | 435 |
| Mathematics                        | 455   | 577 | 456 | 572 | 455 | 569 | 453 | 572 |
| Military Science                   | 434   | 478 | 433 | 474 | 434 | 474 | 433 | 473 |
| Music                              | 436   | 455 | 435 | 454 | 437 | 453 | 438 | 456 |
| Philosophy & Religion              | 460   | 477 | 463 | 481 | 464 | 481 | 462 | 487 |
| Physical Sciences                  | 495   | 560 | 498 | 558 | 496 | 558 | 496 | 560 |
| Psychology                         | 434   | 447 | 433 | 447 | 436 | 446 | 437 | 449 |
| Social Sciences                    | 456   | 473 | 456 | 474 | 461 | 475 | 461 | 476 |
| Theater Arts                       | 438   | 436 | 439 | 436 | 441 | 437 | 443 | 440 |
| Trade & Vocational                 | 352   | 394 | 350 | 391 | 350 | 389 | 348 | 385 |
| Other                              | 397   | 431 | 395 | 431 | 399 | 433 | 396 | 428 |
| Undecided                          | 440   | 481 | 440 | 480 | 444 | 481 | 440 | 480 |

\*From College-Bound Seniors, page 45.



Table 15\*

## Plans to Apply for Advanced Placement or Course Credit

| Year                | '80<br>% | '81<br>% | '82<br>% | '83<br>% |
|---------------------|----------|----------|----------|----------|
| English             | 23.1     | 24.2     | 25.1     | 25.8     |
| Mathematics         | 20.5     | 21.5     | 22.5     | 23.2     |
| Foreign Languages   | 10.6     | 11.0     | 11.4     | 11.9     |
| Biological Sciences | 8.9      | 9.2      | 9.3      | 9.3      |
| Physical Sciences   | 9.5      | 10.0     | 10.4     | 10.6     |
| Social Studies      | 12.7     | 13.3     | 13.6     | 13.7     |
| Art and Music       | 6.6      | 6.7      | 6.4      | 6.0      |
| Any Subject         | 50.6     | 51.6     | 53.1     | 54.6     |

\*From College-Bound Seniors, page 48.

Table 16\*

## Housing Preferences

| Year                   | '80<br>% | '81<br>% | '82<br>% | '83<br>% |
|------------------------|----------|----------|----------|----------|
| At Home                | 25       | 24       | 24       | 24       |
| Dormitory              | 56       | 57       | 58       | 58       |
| Single Sex             | 22       | 22       | 22       | 22       |
| Coed                   | 34       | 35       | 36       | 36       |
| Fraternity or Sorority | 4        | 4        | 4        | 4        |
| Own Apartment          | 14       | 14       | 14       | 14       |
| On Campus              | 8        | 8        | 8        | 8        |
| Off Campus             | 6        | 6        | 6        | 6        |
| Number Responding      | 907,959  | 908,938  | 901,941  | 871,444  |

\*From College-Bound Seniors, page 50.

Table 17\*

**Extracurricular Activities in High School  
and Plans for College**

| Year  | '80     | '81     | '82     | '83     |
|---|---------|---------|---------|---------|
|   | %       | %       | %       | %       |
| <b>Active in High School</b>                  |         |         |         |         |
| Athletics, incl. Intramural and<br>Community  | 69      | 69      | 70      | 70      |
| Ethnic Organizations                          | 7       | 7       | 7       | 7       |
| Journalism, Debating, Dramatics               | 29      | 29      | 28      | 28      |
| Art, Music, or Dance                          | 43      | 43      | 43      | 42      |
| Department or Preprofessional<br>Clubs        | 13      | 13      | 13      | 13      |
| Religious Organizations                       | 33      | 33      | 34      | 34      |
| Social or Community Clubs                     | 42      | 42      | 42      | 43      |
| Student Government                            | 24      | 23      | 23      | 24      |
| Number Responding to at<br>least one activity | 906,344 | 906,703 | 898,474 | 867,869 |
| <b>Will be Active in College</b>              |         |         |         |         |
| Athletics, incl. Intramural and<br>Community  | 56      | 55      | 56      | 56      |
| Ethnic Organizations                          | 6       | 6       | 6       | 6       |
| Journalism, Debating, Dramatics               | 26      | 26      | 26      | 25      |
| Art, Music, or Dance                          | 37      | 36      | 36      | 36      |
| Departmental or Preprofessional<br>Clubs      | 18      | 18      | 19      | 19      |
| Religious Organizations                       | 23      | 23      | 23      | 23      |
| Social or Community Clubs                     | 45      | 44      | 46      | 47      |
| Student Government                            | 21      | 20      | 21      | 21      |
| Number Responding to at<br>least one activity | 906,344 | 906,703 | 898,474 | 867,869 |

\*From College-Bound Seniors, pages 53 and 55.

Table 18\*

|         | Type of High School |      |      |      |
|---------|---------------------|------|------|------|
|         | '80                 | '81  | '82  | '83  |
|         | %                   | %    | %    | %    |
| Public  | 81.8                | 81.5 | 81.0 | 80.3 |
| Private | 18.2                | 18.5 | 19.0 | 19.7 |

\*From College-Bound Seniors, page 56.

Table 19\*

## Self-Reported Skills and Abilities

| Year                                | '80 | '81 | '82 | '83 |
|-------------------------------------|-----|-----|-----|-----|
|                                     | %   | %   | %   | %   |
| <b>TOP 10%</b>                      |     |     |     |     |
| Ability to get along<br>with others | 61  | 61  | 62  | 63  |
| Acting                              | 15  | 15  | 15  | 15  |
| Art                                 | 16  | 16  | 16  | 16  |
| Athletics                           | 31  | 31  | 31  | 32  |
| Creative Writing                    | 24  | 24  | 25  | 25  |
| Leadership                          | 41  | 41  | 41  | 42  |
| Mathematics                         | 30  | 30  | 31  | 32  |
| Mechanics                           | 16  | 17  | 17  | 17  |
| Music                               | 21  | 20  | 21  | 20  |
| Organizing for Work                 | 34  | 34  | 34  | 34  |
| Sales                               | 23  | 23  | 23  | 23  |
| Science                             | 22  | 23  | 23  | 23  |
| Spoken Expression                   | 29  | 29  | 30  | 31  |
| Written Expression                  | 30  | 30  | 31  | 32  |
| <b>ABOVE AVERAGE</b>                |     |     |     |     |
| Ability to get along<br>with others | 89  | 90  | 90  | 91  |
| Acting                              | 39  | 39  | 40  | 39  |
| Art                                 | 40  | 41  | 41  | 41  |
| Athletics                           | 61  | 61  | 62  | 62  |
| Creative Writing                    | 57  | 57  | 59  | 59  |
| Leadership                          | 71  | 71  | 72  | 72  |
| Mathematics                         | 59  | 59  | 60  | 61  |
| Mechanics                           | 40  | 41  | 41  | 41  |
| Music                               | 43  | 43  | 44  | 44  |
| Organizing for Work                 | 70  | 71  | 71  | 71  |
| Sales                               | 53  | 54  | 54  | 53  |
| Science                             | 51  | 52  | 52  | 52  |
| Spoken Expression                   | 63  | 64  | 65  | 65  |
| Written Expression                  | 64  | 65  | 66  | 66  |

\*From College-Bound Seniors, page 59.

### Appendix B

These tables appeared originally in Hunter Breland's 1985 Research Report (RR-85-3) An Examination of State University and College Admissions Policies published by Educational Testing Service, Princeton, NJ 08541.

Table 1. Percentage of Seniors Eligible if  
Single Index Minimums Used

| Single Index<br>Minimum | Percentage Eligible by Group |                |                 | Differential Impact (%) |           |
|-------------------------|------------------------------|----------------|-----------------|-------------------------|-----------|
|                         | Blacks                       | Hispanics      | Whites          | Blacks                  | Hispanics |
| <b>High School Rank</b> | <b>N=7,251</b>               | <b>N=2,558</b> | <b>N=72,436</b> |                         |           |
| HS Rank in Top 1/5      | 32 (32)                      | 38 (37)        | 45 (45)         | (13)                    | (8)       |
| HS Rank in Top 2/5's    | 59 (59)                      | 66 (64)        | 72 (71)         | (12)                    | (7)       |
| HS Rank in Top 3/5's    | 94 (93)                      | 95 (95)        | 97 (96)         | (3)                     | (1)       |
| HS Rank in Top 4/5's    | 99 (99)                      | 99 (99)        | 100 (99)        | (0)                     | (0)       |
| <b>High School GPA</b>  | <b>N=7,623</b>               | <b>N=2,679</b> | <b>N=75,167</b> |                         |           |
| HSGPA > 3.50            | 12 (12)                      | 24 (21)        | 29 (29)         | (17)                    | (8)       |
| HSGPA > 3.25            | 21 (22)                      | 36 (34)        | 42 (42)         | (20)                    | (8)       |
| HSGPA > 3.00            | 38 (38)                      | 55 (52)        | 60 (60)         | (22)                    | (8)       |
| HSGPA > 2.75            | 52 (52)                      | 68 (65)        | 72 (72)         | (20)                    | (7)       |
| HSGPA > 2.50            | 68 (69)                      | 80 (79)        | 84 (84)         | (15)                    | (5)       |
| HSGPA > 2.25            | 81 (82)                      | 89 (89)        | 92 (92)         | (10)                    | (3)       |
| HSGPA > 2.00            | 93 (93)                      | 96 (95)        | 97 (97)         | (4)                     | (2)       |
| <b>SAT Total Score</b>  | <b>N=7,756</b>               | <b>N=2,726</b> | <b>N=75,708</b> |                         |           |
| SAT > 1100              | 3                            | 7              | 20              | 17                      | 13        |
| SAT > 1000              | 7                            | 16             | 36              | 29                      | 20        |
| SAT > 900               | 15                           | 28             | 55              | 40                      | 27        |
| SAT > 800               | 27                           | 43             | 73              | 46                      | 30        |
| SAT > 700               | 47                           | 63             | 88              | 41                      | 25        |
| SAT > 600               | 70                           | 83             | 96              | 26                      | 13        |
| SAT > 500               | 92                           | 96             | 99              | 7                       | 3         |

Note: Figures in parentheses based on total 1983 sample of College-Bound Seniors reported in "Profiles: College-Bound Seniors, 1983" (Ramist and Arbeiter, 1984)

Table 2a. Percentage of Seniors Eligible if Multiple Index Minimums Used: High School Rank and SAT Score Minimums

| High School Rank/<br>SAT Total Minimums | Percentage Eligible by Group |           |          | Differential Impact (%) |           |
|---|------------------------------|-----------|----------|-------------------------|-----------|
|   | Blacks                       | Hispanics | Whites   | Blacks                  | Hispanics |
|   | N=7,227                      | N=2,548   | N=72,155 |                         |           |
| <b>Upper Fifth</b>                      |                              |           |          |                         |           |
| SAT > 1100                              | 2                            | 6         | 17       | 15                      | 11        |
| SAT > 1000                              | 5                            | 12        | 27       | 22                      | 15        |
| SAT > 900                               | 9                            | 19        | 35       | 26                      | 16        |
| SAT > 800                               | 14                           | 25        | 41       | 27                      | 16        |
| SAT > 700                               | 21                           | 31        | 44       | 23                      | 13        |
| SAT > 600                               | 26                           | 35        | 45       | 19                      | 10        |
| SAT > 500                               | 31                           | 38        | 45       | 14                      | 7         |
| <b>Upper Two Fifths</b>                 |                              |           |          |                         |           |
| SAT > 1100                              | 3                            | 7         | 20       | 17                      | 13        |
| SAT > 1000                              | 6                            | 15        | 34       | 28                      | 19        |
| SAT > 900                               | 13                           | 25        | 48       | 35                      | 23        |
| SAT > 800                               | 21                           | 36        | 60       | 39                      | 24        |
| SAT > 700                               | 33                           | 49        | 68       | 35                      | 19        |
| SAT > 600                               | 46                           | 59        | 71       | 25                      | 12        |
| SAT > 500                               | 56                           | 65        | 72       | 16                      | 7         |
| <b>Upper Three Fifths</b>               |                              |           |          |                         |           |
| SAT > 1100                              | 3                            | 7         | 21       | 18                      | 14        |
| SAT > 1000                              | 7                            | 16        | 36       | 29                      | 20        |
| SAT > 900                               | 15                           | 28        | 55       | 40                      | 27        |
| SAT > 800                               | 27                           | 43        | 72       | 45                      | 29        |
| SAT > 700                               | 46                           | 62        | 86       | 40                      | 24        |
| SAT > 600                               | 67                           | 80        | 94       | 27                      | 14        |
| SAT > 500                               | 87                           | 92        | 96       | 9                       | 4         |

B-2

Table 2b. Percentage of Seniors Eligible if Multiple Index Minimums  
Used: High School GPA and SAT Score Minimums

| High School GPA/<br>SAT Total Minimums | Percentage Eligible by Group |           |          | Differential Impact (%) |           |
|--|------------------------------|-----------|----------|-------------------------|-----------|
|  | Blacks                       | Hispanics | Whites   | Blacks                  | Hispanics |
|  | N=7,598                      | N=2,669   | N=74,869 |                         |           |
| <u>HSGPA <math>\geq</math> 3.00</u>    |                              |           |          |                         |           |
| SAT $>$ 1100                           | 2                            | 6         | 18       | 16                      | 12        |
| SAT $>$ 1000                           | 5                            | 13        | 30       | 25                      | 17        |
| SAT $>$ 900                            | 10                           | 21        | 42       | 32                      | 21        |
| SAT $>$ 800                            | 16                           | 30        | 51       | 35                      | 21        |
| SAT $>$ 700                            | 24                           | 41        | 57       | 33                      | 16        |
| SAT $>$ 600                            | 31                           | 49        | 59       | 28                      | 10        |
| SAT $>$ 500                            | 37                           | 54        | 60       | 23                      | 6         |
| <u>HSGPA <math>\geq</math> 2.50</u>    |                              |           |          |                         |           |
| SAT $>$ 1100                           | 3                            | 7         | 20       | 17                      | 13        |
| SAT $>$ 1000                           | 6                            | 15        | 34       | 28                      | 19        |
| SAT $>$ 900                            | 13                           | 26        | 51       | 38                      | 25        |
| SAT $>$ 800                            | 23                           | 39        | 66       | 43                      | 27        |
| SAT $>$ 700                            | 37                           | 55        | 77       | 40                      | 22        |
| SAT $>$ 600                            | 52                           | 70        | 82       | 30                      | 12        |
| SAT $>$ 500                            | 64                           | 78        | 84       | 20                      | 6         |
| <u>HSGPA <math>\geq</math> 2.00</u>    |                              |           |          |                         |           |
| SAT $>$ 1100                           | 3                            | 7         | 20       | 17                      | 13        |
| SAT $>$ 1000                           | 7                            | 16        | 36       | 29                      | 20        |
| SAT $>$ 900                            | 14                           | 27        | 54       | 40                      | 27        |
| SAT $>$ 800                            | 26                           | 42        | 72       | 46                      | 30        |
| SAT $>$ 700                            | 44                           | 61        | 86       | 42                      | 25        |
| SAT $>$ 600                            | 66                           | 80        | 94       | 28                      | 14        |
| SAT $>$ 500                            | 86                           | 92        | 96       | 10                      | 4         |

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Table 3a. Percentage of Seniors Eligible if High School Rank  
or SAT Total Score Minimums Used

| High School Rank/<br>SAT Total Minimums | Percentage Eligible by Group |           |          | Differential Impact (%) |           |
|---|------------------------------|-----------|----------|-------------------------|-----------|
|   | Blacks                       | Hispanics | Whites   | Blacks                  | Hispanics |
|   | N=7,224                      | N=2,548   | N=74,845 |                         |           |
| <u>Upper Fifth</u>                      |                              |           |          |                         |           |
| or SAT > 1100                           | 33                           | 39        | 51       | 18                      | 12        |
| or SAT > 1000                           | 34                           | 42        | 56       | 22                      | 14        |
| or SAT > 900                            | 38                           | 48        | 66       | 28                      | 18        |
| or SAT > 800                            | 46                           | 57        | 79       | 33                      | 22        |
| or SAT > 700                            | 59                           | 71        | 90       | 31                      | 19        |
| <u>Upper Two Fifths</u>                 |                              |           |          |                         |           |
| or SAT > 1100                           | 59                           | 67        | 74       | 15                      | 7         |
| or SAT > 1000                           | 60                           | 68        | 76       | 16                      | 8         |
| or SAT > 900                            | 61                           | 70        | 80       | 19                      | 10        |
| or SAT > 800                            | 65                           | 74        | 86       | 21                      | 12        |
| or SAT > 700                            | 72                           | 81        | 92       | 20                      | 11        |
| <u>Upper Three Fifths</u>               |                              |           |          |                         |           |
| or SAT > 1100                           | 94                           | 95        | 97       | 3                       | 2         |
| or SAT > 1000                           | 94                           | 95        | 97       | 3                       | 2         |
| or SAT > 900                            | 94                           | 95        | 97       | 3                       | 2         |
| or SAT > 800                            | 95                           | 95        | 98       | 3                       | 3         |
| or SAT > 700                            | 95                           | 96        | 98       | 3                       | 2         |

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Table 3b. Percentage of Seniors Eligible if High School GPA or SAT  
Total Score Minimums Used

| High School GPA/<br>SAT Total Minimums | Percentage Eligible by Group |           |          | Differential Impact (%) |           |
|--|------------------------------|-----------|----------|-------------------------|-----------|
|  | Blacks                       | Hispanics | Whites   | Blacks                  | Hispanics |
|  | N=7,598                      | N=2,669   | N=74,869 |                         |           |
| <u>HSGPA ≥ 3.00</u>                    |                              |           |          |                         |           |
| or SAT > 1100                          | 38                           | 55        | 62       | 24                      | 7         |
| or SAT > 1000                          | 40                           | 57        | 66       | 26                      | 9         |
| or SAT > 900                           | 43                           | 61        | 73       | 30                      | 12        |
| or SAT > 800                           | 49                           | 67        | 82       | 33                      | 15        |
| or SAT > 700                           | 61                           | 77        | 91       | 30                      | 14        |
| <u>HSGPA ≥ 2.50</u>                    |                              |           |          |                         |           |
| or SAT > 1100                          | 68                           | 80        | 85       | 17                      | 5         |
| or SAT > 1000                          | 69                           | 81        | 86       | 17                      | 5         |
| or SAT > 900                           | 70                           | 82        | 88       | 18                      | 6         |
| or SAT > 800                           | 73                           | 84        | 91       | 18                      | 7         |
| or SAT > 700                           | 78                           | 88        | 95       | 17                      | 7         |
| <u>HSGPA ≥ 2.00</u>                    |                              |           |          |                         |           |
| or SAT > 1100                          | 93                           | 96        | 97       | 4                       | 1         |
| or SAT > 1000                          | 93                           | 96        | 97       | 4                       | 1         |
| or SAT > 900                           | 93                           | 96        | 98       | 5                       | 2         |
| or SAT > 800                           | 94                           | 96        | 98       | 4                       | 2         |
| or SAT > 700                           | 95                           | 97        | 99       | 4                       | 2         |

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Table 4a. Percentage of Seniors Eligible if Sliding Scales Based on High School Rank and SAT Total Scores Used

| High School Rank/<br>SAT Total Minimums | Percentage Eligible by Group |           |           | Differential Impact (%) |           |
|---|------------------------------|-----------|-----------|-------------------------|-----------|
|   | Blacks                       | Hispanics | Whites    | Blacks                  | Hispanics |
|   | N=7,251                      | N=2,558   | N=72,436  |                         |           |
| <b>Sliding Scale A</b>                  |                              |           |           |                         |           |
| Upper Tenth, No SAT Minimum             | 12                           | 18        | 23        |                         |           |
| Second Tenth, SAT $\geq$ 600            | 15                           | 18        | 22        |                         |           |
| Second Fifth, SAT $\geq$ 800            | 7                            | 11        | 19        |                         |           |
| Third Fifth, SAT $\geq$ 1000            | 1                            | 1         | 3         |                         |           |
| Fourth Fifth, SAT $\geq$ 1200           | 0                            | 0         | 0         |                         |           |
| Last Fifth, SAT $\geq$ 1400             | 0                            | 0         | 0         |                         |           |
| <b>Total Percent</b>                    | <b>35</b>                    | <b>48</b> | <b>67</b> | <b>32</b>               | <b>19</b> |
| <b>Sliding Scale B</b>                  |                              |           |           |                         |           |
| Upper Tenth, No SAT Minimum             | 12                           | 18        | 23        |                         |           |
| Second Tenth, SAT $\geq$ 500            | 19                           | 20        | 22        |                         |           |
| Second Fifth, SAT $\geq$ 700            | 13                           | 18        | 24        |                         |           |
| Third Fifth, SAT $\geq$ 900             | 2                            | 3         | 6         |                         |           |
| Fourth Fifth, SAT $\geq$ 1100           | 0                            | 0         | 0         |                         |           |
| Last Fifth, SAT $\geq$ 1300             | 0                            | 0         | 0         |                         |           |
| <b>Total Percent</b>                    | <b>46</b>                    | <b>59</b> | <b>75</b> | <b>29</b>               | <b>16</b> |
| <b>Sliding Scale C</b>                  |                              |           |           |                         |           |
| Upper Tenth, No SAT Minimum             | 12                           | 18        | 23        |                         |           |
| Second Tenth, SAT $\geq$ 400            | 20                           | 20        | 22        |                         |           |
| Second Fifth, SAT $\geq$ 600            | 19                           | 23        | 26        |                         |           |
| Third Fifth, SAT $\geq$ 800             | 6                            | 7         | 12        |                         |           |
| Fourth Fifth, SAT $\geq$ 1000           | 0                            | 0         | 0         |                         |           |
| Last Fifth, SAT $\geq$ 1200             | 0                            | 0         | 0         |                         |           |
| <b>Total Percent</b>                    | <b>57</b>                    | <b>68</b> | <b>83</b> | <b>26</b>               | <b>15</b> |

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Table 4b. Percentage of Seniors Eligible if Sliding Scales Based on High School GPA and SAT Total Scores Used

| High School GPA/<br>SAT Total Minimums | Percentage Eligible by Group |           |          | Differential Impact (%) |           |
|--|------------------------------|-----------|----------|-------------------------|-----------|
|  | Blacks                       | Hispanics | Whites   | Blacks                  | Hispanics |
|  | N=7,623                      | N=2,679   | N=75,167 |                         |           |
| <b>Sliding Scale D</b>                 |                              |           |          |                         |           |
| 3.40 GPA, No SAT Minimum               | 15                           | 28        | 34       |                         |           |
| 3.30 GPA, SAT > 400                    | 4                            | 5         | 5        |                         |           |
| 3.20 GPA, SAT > 500                    | 5                            | 6         | 7        |                         |           |
| 3.10 GPA, SAT > 600                    | 4                            | 5         | 5        |                         |           |
| 3.00 GPA, SAT > 700                    | 4                            | 6         | 8        |                         |           |
| 2.90 GPA, SAT > 800                    | 1                            | 2         | 2        |                         |           |
| 2.80 GPA, SAT > 900                    | 1                            | 1         | 3        |                         |           |
| 2.70 GPA, SAT > 1000                   | 0                            | 1         | 1        |                         |           |
| 2.60 GPA, SAT > 1100                   | 0                            | 0         | 0        |                         |           |
| 2.50 GPA, SAT > 1200                   | 0                            | 0         | 0        |                         |           |
| Total Percent                          | 34                           | 54        | 65       | 31                      | 11        |
| <b>Sliding Scale E</b>                 |                              |           |          |                         |           |
| 3.40 GPA, No SAT Minimum               | 15                           | 28        | 34       |                         |           |
| 3.20 GPA, SAT > 400                    | 9                            | 11        | 12       |                         |           |
| 3.00 GPA, SAT > 500                    | 13                           | 15        | 14       |                         |           |
| 2.80 GPA, SAT > 600                    | 7                            | 9         | 9        |                         |           |
| 2.60 GPA, SAT > 700                    | 5                            | 6         | 9        |                         |           |
| 2.40 GPA, SAT > 800                    | 2                            | 2         | 4        |                         |           |
| 2.20 GPA, SAT > 900                    | 1                            | 1         | 1        |                         |           |
| 2.00 GPA, SAT > 1000                   | 0                            | 0         | 0        |                         |           |
| 1.80 GPA, SAT > 1100                   | 0                            | 0         | 0        |                         |           |
| 1.60 GPA, SAT > 1200                   | 0                            | 0         | 0        |                         |           |
| 1.40 GPA, SAT > 1300                   | 0                            | 0         | 0        |                         |           |
| 1.20 GPA, SAT > 1400                   | 0                            | 0         | 0        |                         |           |
| 1.00 GPA, SAT > 1500                   | 0                            | 0         | 0        |                         |           |
| Total Percent                          | 52                           | 72        | 83       | 31                      | 11        |

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TABLE 5. Percentage of Seniors Eligible if a Predicted Freshman GPA of 2.50 is used (Predictions for 10 State Institutions)

| Institution Code | Location of Institution | HSGPA Mean Rank | SAT Total Mean Rank | Percentage Eligible by Group |           |          | Differential Impact (%) |           |
|------------------|-------------------------|-----------------|---------------------|------------------------------|-----------|----------|-------------------------|-----------|
|                  |                         |                 |                     | Blacks                       | Hispanics | Whites   | Blacks                  | Hispanics |
|                  |                         |                 |                     | N=7,598                      | N=2,669   | N=74,869 |                         |           |
| A                | Midwest                 | 2               | 2                   | 40                           | 60        | 72       | 32                      | 12        |
| B                | East                    | 8               | 5                   | 37                           | 58        | 72       | 35                      | 14        |
| C                | Midwest                 | 9               | 9                   | 35                           | 53        | 63       | 28                      | 10        |
| D                | East                    | 5               | 3                   | 27                           | 45        | 60       | 33                      | 15        |
| E                | West                    | 4               | 4                   | 21                           | 36        | 52       | 31                      | 16        |
| F                | South                   | 10              | 8                   | 17                           | 32        | 50       | 33                      | 18        |
| G                | West                    | 3               | 6                   | 17                           | 31        | 47       | 30                      | 16        |
| H                | East                    | 7               | 7                   | 15                           | 30        | 48       | 33                      | 18        |
| I                | West                    | 1               | 1                   | 14                           | 28        | 46       | 32                      | 18        |
| J                | South                   | 6               | 10                  | 13                           | 27        | 43       | 30                      | 16        |

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TABLE 6. Comparison of Models\*

| Model/Minimums                     | Percentage Eligible by Group |           |        | Differential Impact (%) |           |
|------------------------------------|------------------------------|-----------|--------|-------------------------|-----------|
|                                    | Blacks                       | Hispanics | Whites | Blacks                  | Hispanics |
| <b>Single Index</b>                |                              |           |        |                         |           |
| Rank in Top 2/5's                  | 59                           | 64        | 71     |                         |           |
| GPA > 2.75                         | 52                           | 65        | 72     | 12                      | 7         |
| SAT $\geq$ 800                     | 27                           | 43        | 73     | 20                      | 7         |
|                                    |                              |           |        | 46                      | 30        |
| <b>Multiple Index</b>              |                              |           |        |                         |           |
| Top 2/5's and SAT > 500            | 56                           | 65        | 72     |                         |           |
| Top 2/5's and SAT $\geq$ 600       | 46                           | 59        | 71     | 16                      | 7         |
| GPA $\geq$ 2.50 and SAT $\geq$ 700 | 37                           | 55        | 77     | 25                      | 12        |
| Top 3/5's and SAT > 800            | 27                           | 43        | 72     | 40                      | 22        |
| GPA $\geq$ 2.0 and SAT $\geq$ 800  | 26                           | 42        | 72     | 45                      | 29        |
|                                    |                              |           |        | 46                      | 30        |
| <b>Either-or</b>                   |                              |           |        |                         |           |
| Top 2/5's or SAT $\geq$ 1100       | 59                           | 67        | 74     |                         |           |
| Top 2/5's or SAT $\geq$ 1000       | 60                           | 68        | 76     | 15                      | 7         |
| GPA $\geq$ 3.0 or SAT $\geq$ 900   | 43                           | 61        | 73     | 14                      | 8         |
| Top 1/5 or SAT $\geq$ 800          | 46                           | 57        | 79     | 30                      | 12        |
|                                    |                              |           |        | 33                      | 22        |
| Sliding Scale B                    | 46                           | 59        | 75     | 29                      | 16        |
| <b>Predicted Performance</b>       |                              |           |        |                         |           |
| Institution A                      | 40                           | 60        | 72     |                         |           |
| Institution B                      | 37                           | 58        | 72     | 32                      | 12        |
|                                    |                              |           |        | 35                      | 14        |

\* These comparisons are limited to situations where about three-fourths of Whites are eligible.