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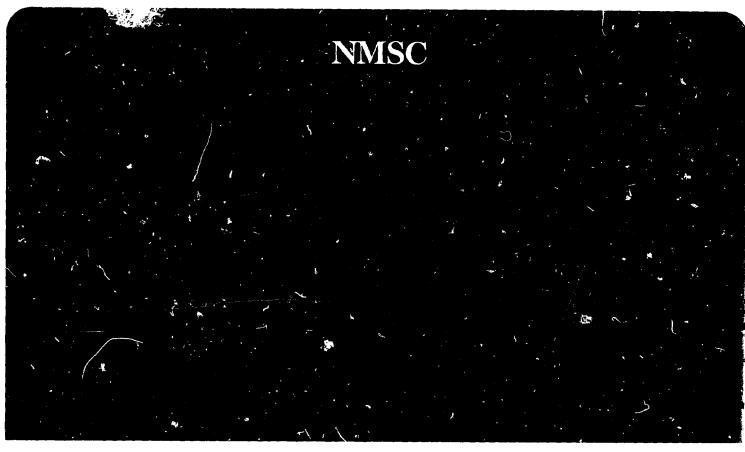
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Students

ABSTRACT

Despite the fact that the cost of a college education can be high, over 60% of high school graduates now enter some type of formal post-high school academic program. To find out what financial sources students use to pay for their college education, 28,800 National Merit Scholar Qualifying Test participants were administered a questionnaire. The sample was divided into 72 subgroups formed on the basis of race (black or nonblack), sex, ability level, and geographic region of residence. Although the response rate was low, it justified these tentative conclusions: a substantially higher percentage of blacks were supported by scholarships, federal government aid, and college loans; more blacks had bank loans and worked during the academic year; women received scholarships and federal aid as often as did males; a considerably higher percentage of blacks attended 4-year private institutions: sources of support were related to type of college attended. Regardless of sex or level of parental income, blacks who did not attend college were much more likely than nonblacks to cite lack of funds as the reason; males more often than females and Southerners more often than inhabitants of other regions were more likely to cite lack of funds as the reason they did not pursue a higher education. (JS)

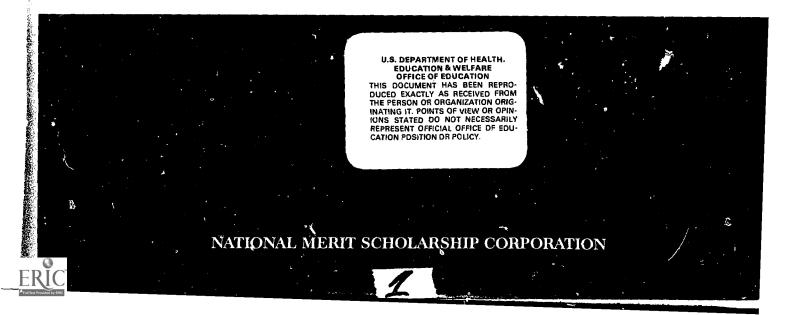




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Black and Nonblack Youth: Finances and College Attendance

Donivan J. Watley



NATIONAL MERIT SCHOLARSHIP CORPORATION

Edward C. Smith, President

Donivan J. Watley, Director of Research

The National Merit Scholarship Corporation was founded in 1955 for the purpose of annually identifying and honoring the nation's most talented youth. Merit Scholarships, which are awarded on a competitive basis, provide financial assistance that Scholars use to attend the colleges of their choice.

The NMSC research program was established in 1957 to conduct scholarly research related to the source, identification and development of intellectual talent. NMSC Research Reports are one means of communicating the research program's results to interested individuals.

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ABSTRACT

A college education has become quite costly for the student. The cost of attending a public college or university can be substantial even though much lower than the typical private ones. Yet over 60% of the high school graduates now enter some type of formal post high school academic program. What financial sources do students use to pay for their college education? To investigate this question, 28,800 NMSQT participants were selected to compose 72 subgroups formed on the basis of race (black or nonblack), sex, ability level, and geographical region of residence. Although a higher rate of return of the 1-page questionnaire would have been preferable, a number of tentative conclusions appeared to be justified. Particularly relevant is that clear differences were found between blacks and nonblacks regarding the types of primary sources used to finance their education.



BLACK AND NONBLACK YOUTH: FINANCES AND COLLEGE ATTENDANCE

Donivan J. Watley

The current financial plight of institutions of higher learning has received wide public attention as costs comtinue to soar. It is estimated that since the mid-1950's the annual expenditures per student has risen two or three times faster than the general cost of living rate. Tuition increases have frequently not been able to keep pace. Squeezed by the money crisis, some colleges have been forced to close their doors and others, even many prestigious private institutions, have seen red ink for the first time in their history. Many states are becoming increasingly unable or unwilling to foot the ballooning bill for public higher education, and private institutions are finding that, in addition to tuition, income from endowment funds and from annual alumni giving are not enough to meet current expenditures.

Yet students are now entering colleges and universities in unprecedented numbers. Approximately 8,200,000 students enrolled at institutions of higher learning for the fall term of 1970, nearly three times as many as in 1955. By 1970 about 78% of this country's 18 year olds were graduating from high school, up 17 percentage points since 1955, and 63% of the graduates were entering some type of formal academic degree program.

But the demands for higher education are costly both to the institution and to the student. The total fees for tuition, room and board at some prestigious colleges and universities now exceed \$4,000 a year, and this amount does not nearly cover the full cost shouldered by the institution. Even the cost of attending a tax-supported public campus can be substantial.

A very pertinent question becomes apparent: How are so many students able to pay the bills for an education that is becoming increasingly expensive? While family incomes have risen sharply on the average over the past twenty years, the median income per family in 1967--\$8,274 for whites and just \$5,151 for nonwhites (U. S. Bureau of the Census, 1969)--was still relatively low in terms of the money needed for a college education. Bayer and Boruch (1969) reported that 55% of the black freshmen who entered all types of institutions in the fall of 1968 had parental incomes under \$6,000. Yet, interestingly enough, Watley (1971a) found that a higher percentage of 1967 black participants in the National Merit Scholarship programs entered four-year private institutions than did their nonblack counterparts.

The purpose of this study is to attempt to determine how black and nonblack participants in the National Merit competition finance their college education. In



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investigating sources of financial support for college, a number of student characteristics are considered: race, sex, measured academic ability, parental income, geographic region of residence, high school grade average, size of school system, and type of college entered.

METHOD

Samples

Approximately 750,000 high school juniors from about 17,500 high schools voluntarily participate in the annual nationwide scholarship competition conducted by the National Merit Scholarship Corporation (NMSC). About 35,000 of this number are blacks who, in addition to competing for Merit Scholarships, compete also for awards in the National Achievement Scholarship Program for outstanding Negro students. High school officials indicate that virtually all of their test-bright academic achievers take the National Merit Scholarship Qualifying Test (NMSQT).

Samples were chosen from among the 796,650 students who took the NMSQT in 1967 for this study. A total of 28,800 were selected to compose 72 subsamples formed on the basis of race (black or nonblack), sex, ability level, and geographic region of residence; 400 were selected for each sample in order to provide stable results. Each of the 796,650 students was initially classified into a single subgroup based on his particular attributes. The students selected for this study were chosen randomly within each subgroup.

The states included in the four geographic regions (East, Midwest, South, and West) are shown in Figure 1. A large number of states in the Western region were necessary in order to have a sufficient number of blacks to fill the various subsamples.

| East | Midwest | South | West |
|---|---|--|--|
| Connecticut Delaware District of Columbía Maine Maryland Massachusetts New Hampshire New Jersey New York Pennsylvania Rhode Island Vermont Virginia West Virginia | Illinois Indiana Iowa Michigan Minnesota Missouri Ohio Wisconsin | Alabama Florida Georgia Kentucky Louisiana Mississippi North Carolina South Carolina Tennessee | Alaska Arizona Arkansas California Colorado Hawaii Idaho Kansas Montana Nebraska Nevada New Mexico North Dakota Oregon South Dakota Texas Utah |
| | Fig. 1 | Regions | Washington Wyoming |



Using NMSQT selection scores, three levels of academic ability (or educational development) were used for blacks and six levels for nonblacks. The three levels for blacks corresponded to the top three quarters of the NMSQT selection score distribution for the 1967 black participants; the first level corresponded to the 75-99 quartile, the second level to the 50-74 quartile, and the third to the 25-49 quartile.

Samples of nonblacks were chosen to match those falling in the 25-49 and 50-74 quartiles. However, nonblacks tend to score higher on the NMSQT than the blacks do; about 70% of the nonblacks scored above the 75th percentile of the black selection score distribution. Therefore, while the top quartile of the black distribution included selection scores from 91-170, four levels of scores were used for the nonblacks within this range in order to provide a more adequate picture of the college attendance patterns for them. The top level for the nonblacks included those scoring in the top 10% on the NMSQT selection score distribution for the nonblacks; the second level included the next 10% (80-89); the third level consisted of those whose scores fell in the next 25% on the nonblack distribution (55-79): and the fourth level included nonblacks in the next 25% (30-54). Altogether, then, there were six levels for the nonblacks.

The 72 subsamples that were formed are shown in Figure 2. These samples were representative of the NMSQT participants who had the various attributes under consideration. Although some are requested by their schools to take the NMSQT, the fact that students take the test voluntarily restricts the generalizability of these results in the sense that the testees are self-selected. While almost all of the high ability students in America take the NMSQT, those with lower academic ability are less likely to take it. Students who scored in the bottom quartile of the NMSQT distribution for blacks were not included in this study because of the increasing difficulty in generalizing about the college attendance patterns as one moves down the NMSQT selection score distribution.

Followup Questionnaire

These students took the NMSQT in the spring of 1967 as high school juniors, so the college attenders normally entered in the fall of 1968. About one year later, in late 1969, each person was asked to complete a 1-page questionnaire that requested information about his post high school experiences. Among the questions asked were: Did you attend college during the 1968-1969 school year? If you attended, to what extent did each of the following sources help finance your first year of college: Employment during college, summer employment, scholarship, personal savings, loans from the college, parental aid, federal government, bank loan. Students were asked

£.

| GEOGRAPHICAL AREA SOUTH , WEST | Black Nonblack Nonblack Nonblack | Males Females Males Females Females Females Females Females Females Maies Females | 004 004 004 004 004 | 004 004 004 004 004 | 007 007 007 007 | 004 004 004 004 | 400 400 1,600 1,600 400 1,600 1,600 1,600 1,600 1,600 | 400 400 400 400 400 400 400 400 400 400 | 004 004 004 004 004 004 004 004 004 004 | 200 1,200 2,400 2,400 1,200 1,200 2,400 2,400 1,200 1,200 2,400 2,400 | |
|--------------------------------|---------------------------------------|---|-------------------------|---------------------|-----------------|-----------------|---|---|---|---|--|
| ООТН | No | | 004 | 004 | 004 | 700 | | | | 2,400 | |
| | lack | Female | | | | | Ì | , [| | | |
| ICAL ARI | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Males | | | | <u> </u> | ♀ |) 00 1 | 004 | 1,200 | |
| EOGRAPHI | Jack Jack | Females | 004 | 400 | 400 | 400 | 1,600 | 004 | 400 | 2,400 | |
| 1. | Nonb | | 400 | 400 | 400 | 400 | 1,600 | 004 | 400 | 2,400 | |
| MID | ack ack | Females | | | | | 004 | 004 | 400 | 1,200 | |
| | B B | Males | | | | | 004 | 004 | 400 | 1,200 | |
| - 1 | ack | erales | 400 | 400 | 004 | 400 | 1,600 | 004 | 400 | 2,400 | |
| | | es | 400 | 400 | 400 | 400 | 400 1,600 1,600 | - 00 1 | 400 | 2,400 | |
| T: | Nonblack | æ. | | | | | l 8 | - - | 400 | 200 | |
| EAST | | emales Mal | | | | | 1 4 | 1 | | 1 | |
| EAST | Black Nonb | Males Females Males Females | | ÷ | | | 4 004 | 004 | 004 | 1,200 1,200 2,400 2,400 | |

Fig. 2 Design of the College Attendance Study



to mark whether each was a "major source," 'minor source," or "not a source." Another question was: If you attended, which college did you enter?

Nonattenders were asked: Did you not attend college because of lack of funds? Those who answered "yes" were asked to indicate how much assistance they need: Enough to pay all expenses; enough to pay about 75% of the expenses; enough to pay about 50% of the expenses; or enough to pay 25% or less of the expenses.

The colleges entered were classified by type: (1) public 2-year, (2) public 4-year, (3) private 2-year, and (4) private 4-year.

Each person was asked to estimate his or her parents' income (before taxes) for the previous year: (1) \$4,000 or less; (2) \$4,001-\$6,000; (3) \$6,00!-\$8,000; (4) \$8,001-\$10,000; (5) \$10,001-\$12,000; (6) \$12,001-\$15,000; (7) \$15,001-\$20,000; (8) \$20,001 or more. This variable was used to represent students socioeconomic status (SES): (a) low--\$6,000 or less; (b) moderate--\$6,001-\$12,000; (c) high--\$12,001 or more.

The initial identification of blacks was determined on the basis of whether a student checked on the NMSQT answer sheet that he wished to be considered for an Achievement scholarship. Students were not asked to indicate their race as such on the NMSQT answer sheet. To verify whether students selected for this study had been accurately classified "black" or "nonblack," they were asked to indicate their race on the followup questionnaire. Those who were originally classified incorrectly were changed accordingly to the race they indicated on the questionnaire.

The student addresses used to mail the questionnaires were about two and one-half years old. The addresses available were those on the NMSQT answer sheets obtained in the spring of 1967. Two additional mailings were sent to the nonresponders after the initial mailing of the questionnaire. It is estimated that 2,592 of the participants were not located and did not receive the questionnaire.

Additional Information

Other information was obtained during the NMSQT testing that was used in this study. This included: intention of entering college (yes or no), high school grade average, location of the high school attended, and the population of the area served by the local school system (10,000 or less; 10,000-50,000; 50,000-250,000; 250,000 or more).

RESULTS

Response to Questionnaire

It is estimated that about 9% of the 28,800 mailed questionnaires were not delivered, doubtless due primarily to the fact that current addresses were not available for many of the participants. Of the 17,472 questionnaires presumably received by



nonblacks, 11,207 were returned that contained some usable information. This is a return rate of 64%. A higher percentage of women (68%) than men (59%) provided questionnaire data. With both sexes combined, the return rate was slightly higher in the Midwest (66%) than in the West (64%), East (63%), or South (61%).

Questionnaire response rate was related to students NMSQT selection scores. It was highest for those scoring in the 131-170 range and lowest for those scoring in the 62-74 range. For example, the response rate for all nonblack women in the 131-170 range was 84% but only 43% for those in the 62-74 range. The corresponding percentages for nonblack men were 75 and 40. Major attention in this analysis, therefore, will be given to those who obtained relatively nigher NMSQT selection scores. The results for students at the lower end of the NMSQT distribution will necessarily be interpreted very cautiously.

Only 52% of the blacks returned usable data. Thus these results too will require careful interpretation. As was found for nonblacks, the return rate was higher for women than for men--57% to 46%; but unlike the nonblacks, the rate of return was higher for both sexes combined in the South (57%) than in the other geographic areas (West 52%; East 50%; Midwest 47%). The return rate for blacks was related to NMSQT scores, the rate being best for those who obtained relatively higher NMSQT scores. For example, 62% of all black women in the 91-170 range returned questionnaires, while only 50% of those in the 62-74 range did so. The corresponding rates for the men were 52% and 41%.

Information obtained from relatives revealed that 14 of the participants selected for this study were deceased. Other information received indicated that 337 of the participants were high school sophomores rather than juniors when they took the NMSQT. These subjects were removed from the investigation since the study was restricted to eleventh graders who normally entered college for the first time in the fall of 1968.

Questionnaire information about race was needed to verify the initial placement of students into black and nonblack categories. Of those initially thought to be black on the basis of the NMSQT answer sheet, 128 men and 62 women indicated on the followup questionnaire that they were not black. They were transferred from the "black" to the "nonblack" category. On the other hand, 23 men and 57 women initially selected as nonblack participants indicated on the questionnaire that they were black so the appropriate transfer was made.

College Attenders: Sources of Financial Support

An earlier report (Watley, 1971a) suggested that the black and nonblack college attenders in this study differed considerably in the financing of their college eduations. It appeared that intensive recruiting was conducted to enroll the blacks

who scored highest on the NMSQT. Interestingly, while blacks did not enter their eleventh grade top college choices as frequently as nonblacks did, they nevertheless entered 4-year private institutions much more frequently than their nonblack counterparts. Private colleges and universities are generally more costly to attend.

Tables 1 and 2 provide data about these students major sources of financial support for their first year of college. Minor sources were not considered in this analysis. Overall, the totals in these two tables indicate that the blacks and non-blacks, both males and females, differed significantly on each source. In general, a substantially higher percentage of blacks than nonblacks had scholarships, federal government aid, and college loans. Although the differences are not as great, a higher percentage of them also had bank loans and more worked during the academic year. On the other hand, nonblacks much more frequently than blacks relied on parental aid to pay their bills; summer employment and savings were also more frequent sources of support for them than for black students. As would be expected, parental income is highly related to the proportions of students of each race who relied heavily on the various other means of financial support.

Overall, the women of each race received scholarship aid just about as frequently as their male counterparts did. They also got aid from the federal government about as often as the men. However, women more often than men reported aid from their parents as a major source, while the men more frequently used summer earnings as a major course for supporting their education.

Even a brief look at Tables 1 and 2 reveals clues to the reason for the racial differences observed previously (Watley, 1971a) in the proportions who entered private and public institutions. Over half (52%) of the black men who scored in the top quartile of their own NMSQT selection score distribution (in the 91-170 range) had scholarships to pay a major portion of their expenses, and a third in the second quartile (75-94 range) reported having this source of support. The comparable percentages for nonblack men were only 27 and 9. Only 39% of the nonblacks scoring in the top 10% of the NMSQT score distribution (131-170 range) for nonblacks had major scholarship aid--students who would generally be recognized as among the very cream of the crop of test-bright academic achievers.

Sources of Support and Type of College Entered

Let us now turn more specifically to the question of how students in the various types of institutions supported themselves financially.

Tables 3 and 4 immediately indicate that scholarships and federal government aid were two major reasons why such a high percentage of blacks were able to attend 4-3 rivate colleges. Altogether, 53% of the black men and 48% of the black women

Table 1

The Number of Male Attenders With Different Characteristics and the Percent Who Used Each of These Sources to Finance Their College Education

| | | | | | | | | | | | Financial Sources | Sour | ses | | | | | | |
|------------------|-----------------------------|-------------------------------------|---------------------------------|------------------------------|------------------------|----------------------------|-------------------------------|----------------------|----------------------------------|------------------|-------------------------------|---------------------|-------------------------------|---|---------------------------------|----------------------|--|-----------------|---|
| | | Z | ≱ | Work during College | | Summe | Summer Work | Schol | Scholarship | Sav | Savíngs | Colle Loan | College Loan | Parental Aìd | ntal d | Federa | Federal Aid | Bank Loan | Loan |
| Ability Level | SES | Non Black bla | Non- black Bl | lg k | Non- black | Black | Non- black | Black | Nori- k black | Black | Non- k black | Black | Non- black | Black | Non- black | Black | Non- black | Black | Non- black |
| 131-170 | Low Mod Hígh Total | | 79 375 572 ,026 | 1111 | 15 4 7 | 1 1 1 1 | 41 38 20 28 | 1 1 1 1 | 67 26 39 | 1 1 1 1 | 12 0 21 | 1 1 1 1 | 5 7 8 2 | 1111 | 28 52 80 66 | 1111 | 32 17 5 12 | 1111 | 4 11 5 7 |
| 122-130 | Low Mod High Total | 1111 | 102 383 433 918 | , , , , | e = 7.8 | 1 1 1 1 | 32 33 31 | 1 1 1 1 | 48 37 15 28 | 1 1 1 1 | 15 12 15 | 1 1 1 1 | 5 - 5 5 - 5 | 1 1 1 1 | 29 48 77 60 | 1 1 1 1 | 38 17 5 14 | 1 1 1 1 | V 6 V 8 |
| 166-121 | Low Mod Hìgh Total | 1111 | 100 411 344 855 | 1111 | 81 01 7 01 | 1 1 1 1 | 42 40 27 35 | 1 1 1 1 | 40 27 13 23 | 1 1 1 1 | 555 <u>4</u> | 1 1 1 1 | 12 4 - 4 4 | 1 1 1 1 | 29 74 57 | 1 1 1 1 | 24 11 6 10 | 1 1 1 1 | 10 7 7 |
| 91-105 | Low Mod High Total | 1111 | 106 396 261 763 | 1111 | 8114 010 13 | i i i i | 38 38 38 | 1 1 1 1 | 31 17 6 15 | 1 1 1 1 | 17 18 15 | 1 1 1 1 | ∞ m । m | 1 1 1 1 | 37 44 69 51 | 1 1 1 1 | 25 12 11 | 1 1 1 1 | 88877 |
| 91-170 | Low Mod High Total | 225 275 1, 131 1, 631 3, | 387 1,565 1,610 3,562 | 16 1 11 1 6 12 | 5 2 2 5 9 % | 21 19 19 20 | 38*** 40*** 24 32*** | 55 34 52 | 45*** 33*** 17*** 27*** | 4 9 8 9 | 17*** 16*** 11 | 61 52 53 | 11** 5*** 1** 4*** | 7 7 7 7 7 7 7 7 7 7 7 | 31*** 48* 76*** 59*** | 39 24 11 27 | 30 4 14*** 5** 12*** | 9 12 10 | 7 6 7 7 |
| 75-90 | Low Mod High Total | 240 181 55 476 | 73 318 185 576 | 18 112 111 15 | 75 28 13 13 | 24 33 25 28 | 38; 43; 27 38;*; | 39 22 33 | 14.2.2 10.2.2.2 52.2.2.2 | 01 6 01 | 21* 17 9 15* | 28 11 4 18 | 15. 2 3 | 43 60 33 | 34** 47 68 52*** | 32 23 26 26 | 22 7*** 7 9*** | 9 = 18 9 = 8 | 15# 9 4### 8 |
| 62-74 | Low Mod Hìgh Total | 243 184 34 461 | 87 1 221 1 113 2 421 1 | 17 2 19 1 12 1 16 1 | 24 19 18 | 25 23 38 28 | 49*** 43** 32 41*** | 26 16 3 21 | 14* 11 4 10*** | დ 4 ් ර ් | 22*** 20 12 18*** | 21 13 16 | 7** 3*** 1 3*** | 21 42 62 33 | 30 43 66 47*** | 28 18 6 | 15* 8** 1 7*** | 12 18 12 12 | 10 10 4** 8 |
| Total | Low Mod Hìgh Total | 708 640 2, 220 1, 1,568 4, | 547 2,104 1,908 1,559 | 17 1 10 10 15 1 | 16 13 6 11*** | 24 25 24 24 24 | 40*** 41*** 25 34*** | 41 36 26 37 | 36 27*** 15*** 23*** | 7088 | 18*** 17*** 11 14*** | 23 11 5 16 | 11**** 4*** 1** 4*** | 18 42 62 34 | 31*** 47** 75*** 57*** | 33 22 10 25 | 26* 12*** 5** 11*** | 8 - 1 2 0 | 6 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 |
| 7717 | | | | | dec. | 111 | 1 1 1 1 1 | 1 | 4 4 4 4 4 4 4 | | | - | | | | 4.1.1 | · · | 7.1 | |

Note.--Comparisons were made in each cell between the percentages reported for blacks and nonblacks (Tables 1-7); the differences that are statistically significant have this designation: * = p .05 level; *** = p .01 level; **** = p .001 level.



The Number of Female Attenders With Different Characteristics and the Percent Who Used Each of These Sources to Finance Their College Education

| | | | | | | | | | | L | Financial | Sources | es. | ļ | ! | ļ | | | |
|------------------|-----------------------------|----------------------------------|--------------------------------|---------------------------------------|------------------------|----------------------|-------------------------------|----------------------|----------------------------------|---------------|------------------------------|----------------------|-------------------------------|----------------------|--------------------------------|----------------------|------------------------------|--------------|---------------------------------------|
| | | Z | ł | Work Col | Work during College | Summe | Summer Work | Schol | Scholarship | Sav | Savings | Collec Loan | College Loan | Parental Aid | | Federal Aid | l Aid | Bank Loan | oan |
| Ability Level | SES | Black b | Non- black | Black | Non- black | Black | Non- black | Biack | Non- k black | Black | Non- black | Black | Non- black | Black | Non- black | Black | Non- black | Black | Non- black |
| 131-170 | Low Mod High Total | | 97 422 634 1,153 | | 8 L W 12 | 1 1 1 1 | 14 20 10 14 | | 75 50 20 36 | , , , , , | 11 7 9 | 111 | 19 5 5 | | 20 59 88 72 | | 43 13 10 | 1 1 1 1 | 9 / 9 9 |
| 122-130 | Low Mod High Total | | 96 470 473 1,039 | 1 1 1 1 | 11 10 7 | \$ \$ T T | 25 22 10 17 | 3 1 3 1 | 51 14 29 | 1 1 3 1 | e 2. 8 0 | 1 1 1 1 | 04 - 6 | 1 1 1 1 | 31 54 85 66 | 1 1 1 1 | 42 16 6 | 1 1 1 1 | 7 4 8 8 5 |
| 106-121 | Low Mod High Total | 1 1 1 1 | 133 445 369 947 |) I) I | 17 8 3 | 1 1 1 1 | 26 20 12 17 | 1 1 1 1 | 41 31 8 23 | 1 1 1 1 | 13 0 9 9 | 1 1 1 1 | 5255 | 1 1 1 1 | 26 63 86 67 | 1 1 1 1 | 35 15 14 14 | 1 1 1 1 | တထထထ |
| 91-105 | Low Mod High Total | 1] | 366 268 780 | ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; | 47 0 9 6 | 1111 | 24 22 11 19 | | 32 17 16 | 1111 | 11 6 11 | | 5 - 5 | 1 1 1 1 | 32 60 63 63 | · · · · · | 30 12 7 13 | | ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ |
| 91-170 | Low Mod High Total | 296 347 1 130 1 773 3 | 472 1,703 1,744 3,919 | 55 20 | 13 9 7 | £ 2 8 2 7 | 23*** 21*** 11 17*** | 60 46 49 | 47*** 35*** 14*** 27*** | | 11* 12*** 7 10*** | 20 14 3 15 | 13# 5### 2 5### | 20 43 80 13 | 28* 59** 86* 67*** | 2000 | 37 14*** 5* 13*** | 6 11 7 | |
| 75-90 | Low Mod High Total | 307 270 75 652 | 111 276 191 578 | 11 13 13 | 21 13 7 | 13 13 15 | 28*** 27* 10 21** | 34 28 17 29 | 23* 16*** 6** 14*** | ~~~~ | 16*** 16** 5 12*** | 27 15 19 | 13** 5** 1*** 5*** | 297.9 | 33 55 88*** 62*** | 36 16 12 25 | 24* 14 2*** 12*** | ® 72 22 52 | ၂၀၈ီတီ |
| 62-74 | Low Mod High Total | 293 209 40 542 | 75 193 90 358 | 25 10 8 18 | 16 13 13* | 20 16 15 18 | 19 26* 11 21 | 23 22 8 21 | 16 11** 4 11*** | <u>დ ნ ოდ</u> | 12 16 8 13* | 30 12 3 21 | 13** 6* - 6*** | £78.55 | 39 64 80 63*** | 29 21 8 24 | 21 12* 3 12*** | 8 £ 5 5 | 66 & W |
| Total | Low Mod High Total | 896 826 2 245 2 1,967 4 | 658 2,172 2,025 4,855 | 71 01 8 13 | 15 10 4 8*** | 25=2 | 23*** 22*** 11 17** | 34 34 35 35 | 39 31 12*** 24*** | 7 4 7 | 12*** 13*** 7 10*** | 26 13 18 18 | 13*** 5*** 2*** 5*** | 25 51 78 43 | 30* 59*** 86*** 66*** | 35 22 10 27 | 33 14*** 4*** 12*** | 7 11 9 | 7 8** 7** |

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Table 3

| | | Loan | Non- black | 7 7 4*** 6* | 8 57 % 1 | 27568 | £ 2 0 0 | 0 0 0 % **** **** |
|--|-------------------|------------------------|---------------------|-------------------------------|--|-----------------------------|-----------------------------|---------------------------------|
| | | Bank Loan | Black | 7 8 8 | 1 8 5 5 5 5 T | 4014 | 1 1 1 1 | 10 14 10 |
| | | Federal Aid | Non- Black black | 27 111*** 6* 12*** | 34 18* 5* 12*** | 04 - * | 33 19 - 15* | 27* 12*** 5** 11*** |
| | | Feder | Black | 32 22 12 25 | 42 25 10 29 | σω ι ω | 46 6 | 33 22 10 25 |
| olleges on | | Parental Aid | Non- k black | 27 47 71 53*** | 34*** 56*** 84*** 69*** | 42* 37 52** 42** | 25 41 86 52* | 31*** 48** 75*** 57*** |
| of Co ucatio | | Paren | Black | 20 44 62 35 | 13 41 69 35 | 25 35 14 28 | 22 - 15 15 | 18 42 63 34 |
| ıs Types Their Ed | :es | Col lege Loan | Non- Black black | 11*** 3*** 1*** | 15 94 2 6444 | 2 - + | 3*** 1*** | 11*** 4*** 1** 4*** |
| Variou ance I | Source | [5 3] | Black | 26 11 7 18 | 24 13 3 | V 8 1 20 | 11 75 . | 23 |
| in the to Fin | Financial Sources | Savings | Non- black | 21*** 16* 12 15*** | 14** 16*** 9 12*** | 16 19 17 | 11 7 | 18*** 17*** 11 14*** |
| stics ources | FI | Sav | Black | 7112 | ଦ୍ୟ ଦ୍ୱ | 14 15 13 | = 1 1 8 | ~ 0.∞ ∞ |
| The Number of Males With Different Characteristics in the Various Types of Colleges and the Percent Who Used Each of These Sources to Finance Their Education | | Scholarship | Non- k black | 37 22 12* 20*** | 50 49* 21*** 34*** | 16 11 8 11 | -## 14 5 8## | 37 27*** 15*** 23*** |
| nt Cha ch of | | Schol | Black | 34 26 29 | 33.5.57 23.5.52 | 20 8 7 14 | 38 | 41 36 37 37 |
| umber of Males With Different and the Percent Who Used Each | | Summer Work | Non- black | 41*** 41*** 29 37*** | 35*** 35*** 18 26*** | 43 47 44 | 50 43 34 | 40*** 41*** 25 34*** |
| With t Who | | Summe | Black | 25 30 24 27 | 15 17 17 | 79 36 49 79 | = ' ' & | 24 23 24 24 |
| of Males Percen | i | Work during College | Non- Black black | 41 7 01 | 13 8 5 5 4 4 4 4 5 | 29 28 24 27*** | 8 I 8 | 16 13 6 10*** |
| mber on | | Work Co | Black | 14 11 8 12 | Σ ₈ 2.0 | 43 43 41 | 11 25 - | 7.4 6.2 |
| The Nur | | | Non- black | 306 1,155 896 2,357 | 143 552 815 1,510 | 77 332 161 570 | 12 37 22 71 | 538 2,076 1,894 4,508 |
| • | | z | Black | 353 298 95 746 | 254 252 110 616 | 81 75 14 170 | e4 o € | 697 629 219 1,545 |
| | | | SES | Low Mod High Total | Low Mod High Total | Low Mod High Total | Low Mod High Tota} | Low Mod High Total |
| | | | College Type | 4-Yr Public | 4-Yr Private | 2-Yr Public | 2-Yr Private | Total |

The Number of Females With Different Characteristics in the Various Types of Colleges and the Percent Who Used Each of These Sources to Finance Their Education Table 4

| | | | | | | | | | | Fina | Financial Sources | vurces | | | | | | | |
|-----------------|-----------------------------|-------------------------------------|--------------------------------|------------------------|------------------------|----------------------|------------------------------|----------------------|----------------------------|----------|------------------------------|----------------------|--|----------------------|--------------------------------|----------------------|------------------------------|---------------------|-------------------------|
| | | Z | | Work during College | during ege | Summe | Summer Work | Schol | Scholarship | Sav | Savings | Colle Loan | College Loan | Parental Aid | n ta l d | Feder | Federal Aid | Bank Loan | Loan |
| College Type | SES | Non- Black black | | Non~ Black black | Non~ black | Black | Non- Black black | Black | Non- c black | Black | Non- black | Black | Non- Black black | Black | Non- Black black | Black | Non- Black black | Black | Non- black |
| 4-yr Public | Low Mod High Total | 461 425 1, 105 991 2, | 339 1,270 990 2,599 | 13 7 11 | 13 9 4 7*** | 16 17 15 16 | 24** 23* 13 19* | 33 26 28 | 40* 27, 10 22*** | ထတလ | 12 14÷ 8 11** | 30 13 8 20 | 12*** 4*** 1*** 4*** | 28 55 76 45 | 33 60 85* 66*** | 31 20 6 23 | 30 11*** 4 11*** | 7 11 11 9 | 8 5** 7* |
| 4-Yr Private | Low Mod High Total | 300 296 116 712 1, | 174 551 836 561 | 13 6 8 | 7 2 5*** | 01 01 4 | 14 19** 7 12* | 55 34 51 | 58 45 17*** 32*** | 4406 | 10** 11*** 5 8*** | 25 16 18 | 21 7*** 3 7*** | 18 49 81 41 | 24 60** 90** 72*** | 48 30 14 35 | 49 23* 5*** 16*** | 9 1 2 2 2 1 2 2 | ნ გეგი დ |
| 2-Yr Public | Low Mod High Total | 113 93 20 226 | 122 280 153 555 | 38 25 33 | 33 20 16 22** | 28 22 20 25 | 33 28 16 26 | 22 15 18 | 16 19 7 15 | e = 7. e | 15 15 15 15 | 2 5 1 8 | 44 - 3** | 33 44 65 40 | 30 53 73 53*** | 91 0 - 21 | 20 9 - 9 | מ י ייט | MM PN |
| 2-Yr Private | Low Mod High Total | 15 4 23 | 18 58 34 110 | 40 - 25 30 | 3 ** 2 ** 2 ** * | 13 25 25 17 | 77 2 2 | 27 25 25 26 | 6 29 3 17 | 25 | 22 9 6 10 | 27 25 - | - 6 · 49 | 27 25 75 35 | 39 57 88 64* | 27 50 50 35 | 22 16 -*** | 7 25 50 17 | 1 <i>บ</i> พี ข |
| Total | Low Mod High Total | 889 818 2, 245 2, 1,952 4, | 653 2,159 2,013 4,825 | 71 01 81 | 15 10 4 8*** | 25 = 5 | 23*** 22*** 11 17** | 33 34 33 | 40 30 12*** 24*** | 9121 | 12*** 13*** 7 10*** | 26 13 18 18 | 13 *** 5 * * * * * * * * * * * * * * * * * | 25 51 78 43 | 30# 59*** 86*** 66*** | 35 22 10 27 | 33 14*** 4*** 13*** | Z== 6 | 7. 8** 7** 7** |

who obtained NMSQT selection scores in the top quarter of their own distribution (91-170 range) attended an institution of this type; the comparable figures for nonblacks were 37% and 36% for those scoring in this NMSQT range (Watley, 1971a). Over half of the blacks in 4-year private colleges and universities listed scholarships as a major source of support, and about a third received major aid from the federal government. The percentages for nonblacks were not nearly that high.

These tables show consistent difference among the races in each type of institution. Different patterns can also be seen for students who attended 4-year vs. 2-year colleges.

Differences can be noted in each type of institution regarding how the proportions of men and women of each race supported themselves. Thus, in addition to race, sex differences were also found, especially in connection with the percentages who received major aid from their parents.

Nonattenders and Lack of Funds

Taking into account parental income and region of residence, Table 5 shows the percentages of black and nonblack nonattenders who did not attend college because of a lack of funds. The results are somewhat different for the men and the women.

First, black nonattenders, regardless of sex or level of parental income, who supplied questionnaire information were much more likely than nonblacks to report that they were unable to go to college because of a shortage of funds. As would be expected, however, those whose parents earned less than \$6,000 were more likely to pinpoint this as the reason they did not go, but even a high percentage of those, particularly blacks, whose parents were in the \$6,001-\$12,000 bracket indicated that they did not have the money to attend. Moreover, although the number involved was relatively small (N=19), 63% of the black women whose parents made more than \$12,000 said they needed money in order to go.

Males in the various parental income brackets were more apt to state that they lacked sufficient money to attend than were their female counterparts. While virtually all of the National Merit participants indicate as eleventh graders that they want to attend college, women are apparently somewhat more likely than men to change their plans about going. One thing that appears to have a clear effect on the college attendance of women is marriage (Watley, 1971b); a higher percentage of them are married than is the case for men, and a married woman is even less likely to attend college than is a married man.

Of the different geographic regions, Southerners more often than the inhabitants of other areas said that they did not attend college because of a lack of funds.



Table 5

The Number of Participants with Different Characteristics who did not Attend College and the Percent who Could not Attend because of a Lack of Funds

| | | | | ĺ | | | | ĕ | Geographic Regions | Reg | ions | | | | - } | | } | | | | |
|---------|--|-----|--------|------|----------------|----------|--------|---------|--------------------|-------|------|-------|-------|-------|-----|----------|------------|------|----|-------------|----------------|
| | | | | East | | | Ξ | Midwest | ة_ <u>و</u> | | š | South | | | We | West | | | ř | Total | |
| | , | Bla | 支 | Non | Black Nonblack | Black | 농 | Non | Nonblack | Black | | Nonk | olack | Black | ابد | Nonblack | lack | Blac | 송 | Non | Black Nonblack |
| Sex | Parental Income | z | ≫ | z | % | z | 94 | z | 946 | z | 946 | z | 946 | z | 96 | z | ð-e | z | 96 | z | 96 |
| | | 1, | å | | | 13 | , , | 23 | 20 | 46 | 87 | 10 | 80 | 17 | 82 | | 02 | 103 | 8 | 11 | **99 |
| | r v | 21 | , ה | | 72 | <u>~</u> | 25 |) r. | 54 | 17 | 62 | 3: | 28 | . ∞ | 75 | 64 | 37* | 61 | 74 | 186 | 46*** |
| Males | DOE: | 7 | 2 1 | | בי | . ~ | 3 % | 2 | 36. | 1 | • | 12 | 53 | ~ | · | | 32 | Ξ | σ | 8 | 30 |
| | nign Total | 53 | 75 | 93 | 37*** | 34 | 72 | 100 | 51, | 90 | 85 | 56 | 61** | 28 | 7 | 46 | **†† | 175 | 11 | 343 | 47*** |
| | | 2,4 | 07 | | 7, | 36 | 7.2 | 2 | 30 [‡] | 98 | 87 | 40 | 55*** | 37 | 81 | | ф 9 | 193 | | 149 | 56*** |
| | 7 & 2 O 2 C | , , | | | 2 % | 3 % | 1,5 | 6 | 36. | 19 | 7. | 52 | 38** | = | 55 | 63 | 51 | 82 | 61 | 299 | 40*** 70*** |
| Females | 100 100 100 100 100 100 100 100 100 100 | λα | | | 10*** | ٥١ | 67 | 77 | . | 'n | 33. | 20 | 20, | 7 | 20 | | 8 | 19 | | 113 | 21*** |
| • | Total | 7 | 63.2 | 155 | 37*** | 65 | 68 | 159 | 35*** | 108 | 83 | 112 | 41*** | 2 | 74 | - 1 | 50** | 294 | | <u>5</u> 61 | 40*** |
| | | | | | | | | | | | | | | | | | | | | | |

Table 6

The Number of Participants with Different Characteristics who did not Attend College and the Percent who Could not Attend because of a Lack of Funds

| | | | | | High | jh Sch | امور | Grac | High School Grade Average | ge | | | | | | | |
|---------|--------------------|----------------|--------------------|---------|-------------|--------|---------|---------|---------------------------|--------|------|-------------|----------|-------|----------|-------|----------|
| | | | # | B+ to A | | | t | C+ to B | 8 | | e.nc | C and Below | MO | | ۲ | Total | |
| | | Black | ئ ۆ | N S | Jonblack | Black | * | Non | Nonblack | Black | ¥ | Nonb | Nonblack | Black | ا الح | Non | Nonblack |
| Sex | Parental Income | z | 946 | z | % | z | 340 | z | % | z | 9-6 | z | % | z | 96 | z | % |
| | | • | 2 | 4 | 100 | 79 | 88 | 39 | *69 | 28 | 98 | 29 | 62* | 101 | 87 | 74 | **69 |
| | Α. Ο . | 7 | 2 6 | 2 6 | 2 23 | 27. | 2 2 | 36 | *8 * | 26 | 11 | 63 | 38*** | 59 | 72 | 178 | 44*44 |
| Males | DO: | ۰ د | 3 1 | J 0 | ? = | 1 | 1 | 0 0 | : - | 7 | 52 | 28. | 36 | Ξ | മ | 9/ | 200 |
| | High Total | - 91 | 8 | 200 | 47 * | 97 | 11 | 12 | 49*** | 58 | 8 | 120 | 43*** | 171 | 78 | 328 | 47** |
| | 2 | | 1 | , - | . L1 | 9 | 78 | 72 | 1844 | 77 | 77 | 24 | 63 | 185 | 8 | 144 | 26*** |
| | L OW | ₹ . | 21 | 7 - | 7-17 | 7 | 7 4 | 165 | ¥04 | 2 5 | , 09 | : 5 | 35 | 8 | 9 | 293 | 40÷÷ |
| Females | D : | <u> </u> | ٠á | > 5 | # + | ς α | 2 2 | 2 | 2 2 | ı V | 9 | 17 | 29 | 18 | 9 | 109 | 21 *** |
| | High Total | , <u>r</u> | 8 5 | 144 | 42*** | 155 | 7.7 | 310 | 40*** | , & | 89 | 95 | 41** | 284 | 73 | 546 | 41*** |
| | 1070 | ; | 1 | | | | - | | | | | | | | ! | | |



In general, high school grade average was unrelated to nonattendance because of a shortage of funds (Table 6). Although the differences between blacks and nonblacks are clearly evident, a male student with a C or below average was just as apt to indicate that he did not attend because of the unavailability of funds as a B+ to A student was. This was true also for nonblack women. Only in the case of black women did there appear to be a relationship between a lack of funds and grade average, but even here it was not a strong one.

Another analysis did not reveal consistent patterns between the population served by a school system and nonattendance due to a problem with not enough funds.

If students don't attend college because of a lack of funds, how much financial assistance do they need? Apparently most of the nonattenders in this study would need quite a lot, although the amount required depends, as would be expected, on the income of one's parents. Regardless of how much their parents earned, however, almost all of the nonattenders who responded to this questionnaire said they needed at least enough to pay for half of their expenses (Table 7). And some needed much more.

Table 7

The Number and Percent of Nonattenders with Different Characteristics Who Reported Needing Various Amounts of Financial Assistance to be Able to Attend

| | | | | | | Pa | rent | tal I | ncome | : | | | | | | | |
|-------------|-------------------------------|-----|------|---------------|------|-----------|--------------|---------------|-------|------------|-----|----------------|------|-----|-----|-----------|------|
| | | | | 6,000 Belo | | \$6 | ,0 01 | -\$1 <u>2</u> | ,000 | | - | 2,001 Highe | | | To | tal_ | |
| | Amount of Assistance | Bla | ack_ | Nonb | lack | <u>B1</u> | ack | Nonb | lack | <u>B</u> 1 | ack | Nonb | lack | Bla | ack | Nonb | lack |
| Sex | Needed | N | %_ | N | % | N | % | N | % | N | 8 | N | % | N_ | %_ | N | % |
| | 25% or less of expenses | 2 | 2 | 3 | 6 | - | | 2 | 2 | _ | | 3 | 13 | 2 | 1 | 8 | 5 |
| Males | 50% of expenses | 18 | 20 | 10 | 20 | 19 | 42 | 38 | 45 | _ | | 13 | 54 | 37 | 27 | 61 | 39* |
| naics | 75% of expenses | 35 | 39 | 22 | 45 | 16 | 36 | 28 | 33 | 1 | 100 | 7 | 29 | 52 | 39 | 57 | 36 |
| | All expenses | 34 | 38 | 14 | 29 | 10 | 22 | 17 | 20 | - | | 1 | 4 | 44 | 33 | 32 | 20* |
| | 25% or less of expenses | 5 | 3 | 2 | 2 | 1 | 2 | 2 | 2 | 1 | 9 | _ | | 7 | 3 | 4 | 2 |
| Females | 50% of expenses | 29 | 19 | 13 | 16 | 16 | 32 | 41 | 35 | 4 | 36 | 10 | 43 | 49 | 23 | 64 | 29 |
| i cila i es | 75% of expenses | 53 | 35 | 38 | 46 | 21 | 42 | 51 | 44 | 2 | 18 | 8 | 35 | 76 | 36 | 97 | 44 |
| . <u></u> | All expenses | 64 | 42 | 29 | 35 | 12 | 24 | 23 | 20 | 4 | 36 | 5 | 22_ | 80 | 38 | <u>57</u> | 26** |

SUMMARY

The objective of this study was to learn how participants in the programs of National Merit finance their college education, and to obtain information about those who are not able to go because of a lack of funds. The results require careful interpretation because many participants selected for the study did not complete the questionnaire. Nonblacks provided information about themselves more frequently than blacks did, and higher scorers on the NMSQT returned the questionnaire more often than the lower scorers did. The response rate was sufficiently high, however, to justify these tentative conclusions:

- 1. A substantially higher percentage of blacks than nonblacks supported their education through scholarships, federal government aid, and college loans, and, although the differences were not as great, more of them had bank loans and more worked during the academic year. Nonblacks much more frequently than blacks relied on parental aid; summer employment and savings were also more frequent major sources of support for them than for blacks.
- 2. Women received scholarships and aid from the federal government as often as their male counterparts did.
- A considerably higher percentage of blacks than nonblacks attended 4-year private institutions, apparently made possible because many more blacks received major financial support from scholarships and from federal government aid.
- 4. Sources of financial support are related to the type of college attended.
- Regardless of sex or level of parental income, blacks who did not attend college were much more likely than nonblacks to indicate that the reason for their nonattendance was lack of funds.
- 6. Males more often than females pinpointed a shortage of money as the reason they did not attend a college or university, and Southerners were more likely than the inhabitants of other geographic regions to say that they could not go because of money problems.

DISCUSSION

In addition to this investigation of students' sources of financial support, two other reports have been completed using this body of data. The first (Watley, 1971a) focused on students characteristics and college attendance patterns. The main conclusion was that there now appears to be very few test-bright, academically successful students who do not attend an institution of higher learning, suggesting that the situation has changed since the 1950's when relatively large numbers of academic "brains" were found not to be attending college (e.g., Wolfle, 1954). The second (Watley, 1971b) found that more women than men were married, and that a married woman was much less likely to have entered college during the year following high school graduation than her male counterpart.

These three studies have one common problem: many participants selected did not respond to the 1-page questionnaire they received. And it is difficult to say who

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the nonresponders are. Was nonresponse, for example, more likely to occur among those who could not report that they were enrolled in a college? Unfortunately, a further investigation of the nonresponders was not possible. While it is known that black nonwinners in the programs of National Merit are now less apt to provide followup information about themselves than are white nonwinners, Burgdorf (1969) found that black nonresponders to an Achievement questionnaire deviated from the original responders "only slightly and in the expected direction" (p. 19).

Some of the nonresponse problem has been avoided by concentrating in these studies on the higher scorers on the NMSQT, where the return rate was relatively high. And nonresponse may have had less affect on some analyses than on others--where a systematic response bias did not appear to be involved (e.g., returns from married college attenders versus single attenders).

Certainly the <u>direction</u> of the results obtained in the present study is pronounced and systematic regarding the different ways that black and nonblack students find to finance their collegiate programs. It is unlikely that the directions of these differences would be substantially affected by additional data from the non-responders, doubtless many of whom were not college attenders.



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