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TITLE
INSTITUTION
PUB DATE
NOTE
PUB TYPE
EDRS PRICE
DESCRIPTORS
IDENTIFIERS
    ACT Assessment 1997 Results. Summary Report. National.
    American Coll. Testing Program, Iowa City, IA.
    1997-00-00
    12p.
    Reports - Evaluative (142)
    MFO1/PCO1 Plus Postage.
    College Bound Students; *College Entrance Examinations; Core
    Curriculum; Ethnic Groups; *High School Seniors; High
    Schools; *Minority Groups; *Scores; *Test Results; Test Use
    *ACT Assessment; Composite Scores
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ABSTRACT
This report provides information about the performance of 1997 graduating seniors nationwide who took the American College Testing Program (ACT) Assessment as sophomores, juniors, or seniors. These students may not be representative of the total population of graduating seniors at a given school, depending on patterns of students taking the ACT. Average scores are reported for graduating seniors who completed a core high school program (typical college preparatory program) and for those who did not. The core program is defined as 4 or more years of English, 3 of more years of mathematics, 3 or more years of social studies, and 3 or more years of natural sciences. In general, those who complete a core program tend to earn higher average scores than students who do not. This association holds true without regard to ethnic group. In addition, the percentage of ACT-tested students who would be likely to receive at least a "B" in identified college courses is higher for those who completed the core curriculum. Over the last 5 years, the national average composite score for all graduates has increased from 20.7 to 21.0. African-American and Asian-American scores have remained stable while American Indian/Alaskan native scores have increased from 18.4 to 19.0. (Contains seven tables.) (SLD)

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Summary
Report


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\section*{ACT ASSESSMENT RESULTS}

National 1997

This report provides information about the performance of 1997 graduating seniors nationwide who took the ACT Assessment as sophomores, juniors or seniors. As you review and interpret the information provided, please keep the following in mind:
- ACT-tested seniors may not be representative of the total population of graduating seniors.
- This report provides selected information about the nation's ACT-tested graduating seniors. For more details, please refer to the 1997 national High School Profile Report.

\section*{Average ACT Scores}

\section*{National} 1997

To help policy-makers gain a better perspective on the association between coursework taken in high school and performance on the ACT Assessment, this report provides information about the graduating class according to type of high school program completed. Average scores are reported for 1997 graduating seniors who reported completing a core high school program (a core or more program is defined as a typical college preparatory program) and for those who reported not completing a high school core program. (Refer to following page).

The academic preparation a student receives in high school correlates with success in college. ACT research indicates that students who prepare academically by taking a core high school program consistently score higher on the ACT Assessment than those who do not. These same students also earn better grades in college. These facts underscore the value of a strong basic program of study in high school.

\section*{Types of High School Program}

\section*{Core or More}

A core or more program is defined as a typical college preparatory program including:
- English (four years or more)

One year credit each for English 9, English 10. English 11, English 12
- Mathematics (three years or more)

One year credit each for Algebra 1. Algebra II, Geometry One-half year credit each for Trigonometry. Calculus (not Pre-Calculus), other Math courses beyond Algebra II, Computer Math/Computer Science
- Social Studies (three years or more)

One year credit each for American History, World History, American Government One-half year credit each for Economics, Geography, Psychology, other History (European, State, etc.)

\section*{- Natural Sciences (three years or more)}

One year credit each for General/Physical/Earth Science, Biology, Chemistry, Physics

\section*{Less Than Core}

A less than core program refers to any high school program consisting of fewer courses than those included in core or more.

Average ACT test scores in English, Mathematics, Reading, Science Reasoning, and Composite for 1997 seniors who completed a core curriculum and those who did not are shown in Tables 1 and 2. In general, students who complete core coursework tend to earn higher average scores than students who do not complete core coursework. As Table 2 indicates, this association holds true across racial-ethnic groups. Table 3 shows that regardless of ethnic background, the average Composite score for students who completed core coursework has been consistently higher over the past five years than the average Composite scores of those who did not.

Table 1
Average ACT Scores
By Type of High School Program
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Reference Group} & \multicolumn{5}{|c|}{Core or More} & \multicolumn{5}{|c|}{Less Than Core} \\
\hline & E & M & R & SR & C & E & M & R & SR & C \\
\hline National & 21.5 & 21.8 & 22.5 & 22.1 & 22.1 & 18.6 & 18.7 & 19.7 & 19.6 & 19.3 \\
\hline
\end{tabular}

Table 2
Average ACT Scores
By Type of High School Program and Racial-Ethnic Group
\begin{tabular}{|c|c|c|c|c|c|c|c|c|c|c|}
\hline \multicolumn{6}{|c|}{Core or More} & \multicolumn{5}{|c|}{Less Than Core} \\
\hline \begin{tabular}{l}
National \\
Reference Group
\end{tabular} & E & M & R & SR & C & E & M & R & SR & C \\
\hline African-Amer/Black & 17.4 & 17.8 & 18.0 & 18.0 & 17.9 & 15.1 & 15.8 & 16.0 & 16.5 & 16.0 \\
\hline Amer Ind/Alas. Nat. & 19.5 & 20.0 & 20.9 & 20.7 & 20.4 & 16.6 & 17.1 & 18.1 & 18.3 & 17.6 \\
\hline Caucasian & 22.2 & 22.3 & 23.2 & 22.8 & 22.8 & 19.4 & 19.2 & 20.5 & 20.3 & 20.0 \\
\hline Mex Amer/Chi. & 18.9 & 20.1 & 20.0 & 20.0 & 19.9 & 16.3 & 17.3 & 17.5 & 17.8 & 17.4 \\
\hline Asian Amer/Pac. & 21.2 & 24.1 & 22.0 & 22.2 & 22.5 & 18.4 & 21.2 & 19.2 & 19.9 & 19.8 \\
\hline P.R./Cuban/Oth. & 19.2 & 20.3 & 20.2 & 20.1 & 20.1 & 16.4 & 17.4 & 17.4 & 17.9 & 17.4 \\
\hline
\end{tabular}

Table 3
Trends in Average ACT Composite Scores Across Five Years By Type of High School Program and Racial-Ethnic Group
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{\begin{tabular}{l}
National \\
Reference Group
\end{tabular}} & \multicolumn{2}{|r|}{Core or More} & \multicolumn{2}{|r|}{Less Than Core} \\
\hline & N & Composite & N & Composite \\
\hline \multicolumn{5}{|l|}{All Graduates} \\
\hline 1993 & 453064 & 22.0 & 374256 & 19.1 \\
\hline 1994 & 478885 & 22.0 & 359974 & 19.1 \\
\hline 1995 & 529146 & 22.0 & 360925 & 19.1 \\
\hline 1996 & 542136 & 22.0 & 354733 & 19.2 \\
\hline 1997 & 566141 & 22.1 & 361947 & 19.3 \\
\hline \multicolumn{5}{|l|}{African-American/Black} \\
\hline 1993 & 38893 & 18.1 & 40620 & 16.1 \\
\hline 1994 & 41533 & 18.0 & 39275 & 16.0 \\
\hline 1995 & 48097 & 18.0 & 40099 & 15.9 \\
\hline 1996 & 48321 & 17.9 & 38546 & 15.9 \\
\hline 1997 & 50100 & 17.9 & 39696 & 16.0 \\
\hline \multicolumn{5}{|l|}{American Indian/Alaskan Native} \\
\hline 1993 & 4537 & 20.0 & 5390 & 17.3 \\
\hline 1994 & 4995 & 20.0 & 5533 & 17.3 \\
\hline 1995 & 5398 & 20.1 & 5509 & 17.4 \\
\hline 1996 & 5655 & 20.2 & 5419 & 17.7 \\
\hline 1997 & 5685 & 20.4 & 5414 & 17.6 \\
\hline \multicolumn{5}{|l|}{Caucasian} \\
\hline 1993 & 342884 & 22.6 & 275294 & 19.8 \\
\hline 1994 & 356512 & 22.6 & 260155 & 19.8 \\
\hline 1995 & 388508 & 22.6 & 257159 & 19.8 \\
\hline 1996 & 398962 & 22.7 & 251375 & 19.9 \\
\hline 1997 & 408851 & 22.8 & 250763 & 20.0 \\
\hline \multicolumn{5}{|l|}{Mexican American/Chicano} \\
\hline 1993 & 13764 & 19.8 & 13753 & 17.2 \\
\hline 1994 & 15411 & 19.6 & 13918 & 17.1 \\
\hline 1995 & 13435 & 19.8 & 10801 & 17.2 \\
\hline 1996 & 11753 & 19.8 & 9438 & 17.4 \\
\hline 1997 & 11875 & 19.9 & 9475 & 17.4 \\
\hline \multicolumn{5}{|l|}{Asian American/Paclic Islander} \\
\hline 1993 & 16600 & 22.5 & 7649 & 19.8 \\
\hline 1994 & 17686 & 22.5 & 7952 & 19.9 \\
\hline 1995 & 19237 & 22.4 & 7989 & 19.5 \\
\hline 1996 & 19685 & 22.4 & 7676 & 19.7 \\
\hline 1997 & 20201 & 22.5 & 7834 & 19.8 \\
\hline \multicolumn{5}{|l|}{Puerto Rican/Cuban/Other Hispanic} \\
\hline 1993 & 7693 & 20.5 & 5799 & 17.6 \\
\hline 1994 & 8685 & 20.5 & 5950 & 17.6 \\
\hline 1995 & 13585 & 19.9 & 9812 & 17.2 \\
\hline 1996 & 14838 & 20.0 & 10462 & 17.4 \\
\hline 1997 & 15693 & 20.1 & 10615 & 17.4 \\
\hline
\end{tabular}

The data in Table 4 present the relationship between average ACT Composite scores and patterns of high school coursework across racial-ethnic groups and annual family income levels within each group.

Table 4
Average ACT Composite Scores
By Type of High School Program, Racial-Ethnic Group
And Annual Family Income
\begin{tabular}{|c|c|c|c|c|c|c|}
\hline 1997 & & & ily Incom & & & \\
\hline National & Less tha & an \$18,000 & \$18,000 & 35,999 & \$36,000 & more \\
\hline Reference Group & N & Composite & N Co & posite & N Com & posite \\
\hline All Graduates & & & & & & \\
\hline Total Group & 95891 & 18.5 & 221117 & 20.0 & 497371 & 22.0 \\
\hline Core & 48246 & 19.6 & 124120 & 21.1 & 322899 & 22.9 \\
\hline Less than Core & 46315 & 17.3 & 94944 & 18.6 & 171060 & 20.2 \\
\hline African-American/ & & & & & & \\
\hline Total Group & 25776 & 16.1 & 31744 & 16.8 & 24378 & 18.3 \\
\hline Core & 12941 & 16.9 & 17599 & 17.6 & 14998 & 19.1 \\
\hline Less than Core & 12598 & 15.3 & 13878 & 15.8 & 9208 & 17.0 \\
\hline American Indian/A & & & & & & \\
\hline Total Group & 2159 & 17.4 & 3829 & 18.6 & 4463 & 20.1 \\
\hline Core & 851 & 19.0 & 1858 & 20.0 & 2490 & 21.3 \\
\hline Less than Core & 1185 & 16.5 & 1852 & 17.3 & 1871 & 18.6 \\
\hline Caucasian & & & & & & \\
\hline Total Group & 43992 & 20.1 & 146236 & 20.9 & 407626 & 22.2 \\
\hline Core & 21815 & 21.6 & 81964 & 22.0 & 265217 & 23.1 \\
\hline Less than Core & 21837 & 18.7 & 63287 & 19.4 & 140171 & 20.5 \\
\hline Mexican American & & & & & & \\
\hline Total Group & 4999 & 17.4 & 7504 & 18.4 & 7402 & 20.1 \\
\hline Core & 2535 & 18.6 & 4010 & 19.4 & 4504 & 21.0 \\
\hline Less than Core & 2427 & 16.2 & 3444 & 17.2 & 2844 & 18.6 \\
\hline Asian American/Pa & & & & & & \\
\hline Total Group & 4586 & 18.8 & 7330 & 20.4 & 13968 & 23.3 \\
\hline Core & 2934 & 19.6 & 5006 & 21.2 & 10423 & 23.9 \\
\hline Less than Core & 1559 & 17.3 & 2177 & 18.8 & 3339 & 21.6 \\
\hline Puerto Rican/Cuba & spanic & & & & & \\
\hline Total Group & 5954 & 17.2 & 8632 & 18.4 & 9857 & 20.6 \\
\hline Core & 3048 & 18.2 & 4918 & 19.5 & 6400 & 21.5 \\
\hline Less than Core & 2753 & 16.1 & 3567 & 17.1 & 3323 & 18.9 \\
\hline
\end{tabular}

Each year ACT collects freshman course grades from hundreds of colleges and universities. Research has shown \(A C T\)-tested graduates typically have at least a 50 percent chance of receiving at least a "B" in the courses listed if they obtain the identified ACT score value or higher. The columns in the right side of the table present the percentages of ACT-tested graduates that earned a score at or above the typical cutoff score. For example, of those students who had core or more coursework, \(76 \%\) had an ACT English score at or above 18.

\section*{Table 5 \\ Summary of Course Placement Cutoff Scores}
\begin{tabular}{|c|c|c|c|c|}
\hline \multirow[b]{2}{*}{Course Type} & \multirow[b]{2}{*}{ACT Assessment Test Variable} & \multirow[b]{2}{*}{Typical Cutoff Score} & \multicolumn{2}{|l|}{Percent At or Above The Typical Cutoff Score} \\
\hline & & & Those with Core Coursework & Those With Less than Core Coursework \\
\hline \multicolumn{5}{|l|}{English} \\
\hline Standard Composition & English & 18 & 76 & 55 \\
\hline Advanced Composition & English & 21 & 56 & 34 \\
\hline Literature & English & 21 & 56 & 34 \\
\hline \multicolumn{5}{|l|}{Mathematics} \\
\hline Elementary Algebra & Mathematics & 19 & 70 & 41 \\
\hline Intermediate Algebra & Mathematics & 22 & 49 & 24 \\
\hline College Algebra & Mathematics & 23 & 43 & 19 \\
\hline Calculus & Mathematics & 26 & 25 & 10 \\
\hline \multicolumn{5}{|l|}{Science} \\
\hline Chemistry & Science Reasoning & 23 & 44 & 24 \\
\hline Physics & Science Reasoning & 20 & 68 & 45 \\
\hline
\end{tabular}

Academic success at specific colleges/universities depends on many factors, including the selectivity of the institution and the institution's grading practices. Based on the information presented above, the percentage of \(A C T\)-tested students who would likely receive at least \(a\) " \(B\) " in the identified courses is higher for those who completed the recommended core coursework. Students who earn ACT scores below those listed may need additional academic preparation to be successful in these typical college entry level courses.

Table 6 compares percentages of students choosing selected academic majors in 1993, 1995, and 1997. Overall the interest in most majors has been consistent during this period.

Table 6
Percentages Choosing Selected Majors
By Graduation Year and Gender


Table 7 presents the average ACT Composite scores for various racial-ethnic groups from 1993 to 1997. Trend information is provided for each reference group represented by 500 or more ACT-tested graduates each year. Over the five-year period, the national average composite score for all graduates has increased from 20.7 to 21.0 . African-American and Asian-American scores have remained stable while American Indian/Alaskan Native scores have increased from 18.4 to 19.0.

\section*{Table 7 Trends in Average ACT Composite Scores*}
\begin{tabular}{lll}
\hline National & & \\
Reference Group & N & Composite \\
\hline All Graduates & & \\
1993 & 875603 & 20.7 \\
1994 & 891714 & 20.8 \\
1995 & 945369 & 20.8 \\
1996 & 924663 & 20.9 \\
1997 & 959301 & 21.0 \\
African-American/Black & & \\
1993 & 80401 & 17.1 \\
1994 & 81806 & 17.0 \\
1995 & 89155 & 17.1 \\
1996 & 87630 & 17.0 \\
1997 & 90617 & 17.1 \\
Amerlcan Indian/Alaskan Natlve & & \\
1993 & 10384 & 18.4 \\
1994 & 11026 & 18.5 \\
1995 & 11361 & 18.6 \\
1996 & 11580 & 18.8 \\
1997 & 11509 & 19.0 \\
Caucasian & & \\
1993 & 625242 & 21.4 \\
1994 & 623366 & 21.4 \\
1995 & 650664 & 21.5 \\
1996 & 654377 & 21.6 \\
1997 & 663878 & 21.7 \\
\hline
\end{tabular}

\section*{Continued...}

\section*{Table 7 Trends in Average ACT Composite Scores*}
\begin{tabular}{lll}
\begin{tabular}{l} 
National \\
Reference Group
\end{tabular} & N & Composite \\
\hline Mexican Amerlcan/Chicano & & \\
1993 & 27713 & 18.5 \\
1994 & 29558 & 18.4 \\
1995 & 24431 & 18.6 \\
1996 & 21345 & 18.7 \\
1997 & 21511 & 18.8 \\
Asian American/Pacific Islander & & \\
1993 & 24754 & 21.7 \\
1994 & 26168 & 21.7 \\
1995 & 27784 & 21.6 \\
1996 & 27847 & 21.6 \\
1997 & 28542 & 21.7 \\
Puerto Rican/Cuban/Other Hispanic & & \\
1993 & 13894 & 19.3 \\
1994 & 15119 & 19.3 \\
1995 & 24054 & 18.7 \\
1996 & 25857 & 18.9 \\
1997 & 26841 & 19.0 \\
\hline
\end{tabular}
*All average scores are on the scale for the Enhanced ACT Assessment. Annual national trends in ACT scores beginning with 1969-70 are available on request.
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