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ABSTRACT

In 1990, the National Assessment of Educational Progress (NAEP) included a Trial State Assessment (TSA); for the first time in NAEP's history, voluntary state-by-state assessments were made. In 1994, TSA was expanded to include non-public school students. The 1994 reading assessment considered students' proficiency in situations that involved reading different kinds of materials for different purposes. The fourth-grade assessment measured two global purposes for reading--reading for literary experience and reading to gain information. In Colorado, 2,730 students in 108 public schools and 130 students in 8 non-public schools were assessed. This report describes the reading proficiency of Colorado fourth-graders and compares their overall performance to students in the West region of the United States and the nation (using data from the NAEP national assessments). The distribution of reading results and reading achievement level results are provided for subpopulations of students (race/ethnicity, type of location, parents, educational level, and gender). Reading proficiency and achievement of non-public school students are separately reported and compared to public school students. To provide a context for the assessment data, participating public school students, their reading teachers, and principals completed questionnaires which focused on: policies and practices related to reading (time for instructional activities and instructional resources for reading); delivery of reading instruction (instructional materials and activities, workbooks/ worksheets/writing, discussion and group activities, time to read, reading and use of libraries, assessing progress in reading); reading instructors (preparation, experience and professional development); students' home support for literacy (reading outside of school and in the home and hours of television watched per day). The average reading proficiency of public school students in Colorado on the NAEP reading scale was 213 compared to 212 nationwide. (CR)



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Assistant Secretary Office of Educational Research and Improvement U.S. Department of Education Washington, DC

Roy Truby

3

Executive Director, NAGB Washington, DC



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NAEP 1994 READING STATE REPORT

for

COLORADO

December 1995

Office of Educational Research and Improvement U.S. Department of Education

Prepared by Educational Testing Service under contract with the National Center for Education Statistics

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EXECUTIVE SUMMARY

In 1988, Congress passed legislation for the National Assessment of Educational Progress (NAEP) that continued its primary mission of providing dependable and comprehensive information about educational progress in the United States. In addition, for the first time in the project's history, the legislation also included a provision authorizing voluntary state-by-state assessments on a trial basis.

As a result of the legislation, the 1990 NAEP program included a Trial State Assessment Program in which public-school students in 37 states, the District of Columbia, and two territories were assessed in eighth-grade mathematics.¹ The 1992 NAEP program included an expanded Trial State Assessment Program in fourth-grade reading and fourth- and eighth-grade mathematics, with public-school students assessed in 41 states, the District of Columbia, and two territories.²

The continuation of NAEP's Trial State Assessment Program in 1994 was authorized by additional legislation that enlarged the state-by-state assessment to include non-public school students. In addition to the state assessment program in reading at grade 4, the 1994 NAEP involved national assessments of reading, world geography, and U.S. history at grades 4, 8, and 12. The 1994 Trial State Assessment Program was conducted in February 1994 with 44 participants (41 states, the District of Columbia, Guam, and the Department of Defense Education Activity [DoDEA] Overseas Schools).

This computer-generated report describes the reading proficiency of fourth-grade students in Colorado, the West region, and the nation. The distribution of reading proficiency results and reading achievement level results are provided for groups of students defined by shared characteristics: race/ethnicity, type of location, parents' education level, and gender. Contextual information about reading policies, instruction, and home support for reading is presented for public school students. State results are based on the representative sample of students who participated in the 1994 Trial State Reading Assessment Program. Results for the region and the nation are based on the regional and national representative samples of students who participated in the national NAEP assessment.

For a summary of the 1992 assessment of reading, see Ina V.S. Mullis, Jay R. Campbell, and Alan E. Farstrup. The NAEP 1992 Reading Report Card for the Nation and the States. (Washington, DC: National Center for Education Statistics, 1993). For a summary of the 1992 assessment of mathematics, see Ina V.S. Mullis, John A. Dossey, Eugene H. Owen, and Gary W. Phillips. NAEP 1992 Mathematics Report Card for the Nation and the States. (Washington, DC: National Center for Education Statistics, 1993).



For a summary of the 1990 program, see Ina V.S. Mullis, John A. Dossey, Eugene H. Owen, and Gary W. Phillips. The State of Mathematics Achievement: NAEP's 1990 Assessment of the Nation and the Trial Assessment of the States. (Washington, DC: National Center for Education Statistics, 1991).

School and Student Participation in the Reading Assessment

In Colorado, 108 public schools and 8 non-public schools participated in the 1994 fourth-grade reading assessment. These numbers include participating substitute schools that were selected to replace some of the nonparticipating schools from the original sample. The weighted school participation rate after substitution in 1994 was 100 percent for public schools and 85 percent for non-public schools, which means that the fourth-grade students in this sample were directly representative of 100 percent and 85 percent of all the fourth-grade public and non-public school students in Colorado, respectively.

In Colorado, 2,730 public school and 130 non-public school fourth-grade students were assessed in 1994. The weighted student participation rate was 94 percent for public schools and 94 percent for non-public schools. This means that the sample of fourth-grade students who took part in the assessment was directly representative of 94 percent of the eligible public school student population and 94 percent of the eligible non-public school student population in participating schools in Colorado (that is, all students from the population represented by the participating schools, minus those students excluded from the assessment).

The **overall** weighted response rate (school rate times student rate) was 94 percent and 80 percent for public and non-public schools, respectively. This means that the sample of students who participated in the assessment was **directly** representative of 94 percent of the eligible fourth-grade public school population and 80 percent of the eligible fourth-grade non-public school population in Colorado.

Following standard practice in survey research, the results presented in this report were produced using calculations which incorporate adjustments for the nonparticipating schools and students. Hence, the final results derived from the sample provide estimates of the reading proficiency and achievement for the **full** population of eligible public and non-public school fourth-grade students in Colorado. However, these nonparticipation adjustments may not adequately compensate for the missing sample schools and students in instances where nonparticipation rates are large.

In order to guard against potential nonparticipation bias in published results, NCES has established minimum participation levels necessary for the publication of 1994 Trial State Assessment results. NCES also established additional guidelines that address four ways in which nonparticipation bias could be introduced into a jurisdiction's published results (see Appendix A). In 1994, Colorado met minimum participation levels for public and non-public schools. Hence, results for both types of schools are included in this report. Colorado met all other established NCES participation guidelines for public schools but failed to meet one or more of these guidelines for non-public schools. Colorado's weighted participation rate for the initial samples of non-public schools was below 85 percent and the weighted school participation rate after substitution was below 90 percent (see Appendix A).



Students' Reading Performance

The table below shows the distribution of reading proficiency of fourth-grade students attending public schools in Colorado, the West region, and the nation.

1994, Public School Students

The average reading proficiency of fourth-grade public school students in Colorado on the NAEP reading scale was 213. This average was not significantly different from that of students across the nation (212).³ The lowest performing 10 percent of public school fourth graders in Colorado had proficiencies at or below 162 while the top 10 percent had proficiencies at or above 260. In public schools across the nation, the lowest performing 10 percent of fourth graders had proficiencies at or below 156; the top performing 10 percent of students had proficiencies at or above 261.

1992 vs 1994, Public School Students

There was no significant change in the average performance of fourth-grade public school students in Colorado from 1992 to 1994 (217 in 1992 and 213 in 1994). During the same period, there was no significant change in the average performance of fourth-grade public school students across the nation (215 in 1992 and 212 in 1994).



Distribution of Reading Proficiency for Fourth-Grade Public School Students

1994 Trial State Assessment	Average	10th	25th	50th	75th	90th
	Proficiency	Percentile	Percentile	Percentile	Percentile	Percentile
1992						
Colorado	217 (1.1)	175 (2.1)	197 (1.6)	219 (1.2)	238 (1.3)	255 (1.0)
West	212 (1.8)	163 (3.4)	189 (2.2)	214 (1.9)	237 (1.8)	257 (1.7)
Nation	215 (1.0)	168 (1.9)	192 (1.0)	217 (1.7)	240 (1.3)	259 (2.3)
1994 Colorado	213 (1.3)	162 (3.2) <	190 (1.5) <	217 (1.4)	241 (1.5)	260 (1.3) >
West	212 (2.2)	153 (4.0)	185 (3.0)	217 (2.8)	242 (1.8)	262 (2.5)
Nation	212 (1.1)	156 (2.1) <	187 (1.5) <	217 (12)	241 (1.2)	261 (1.5)

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.

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Differences reported as significant are statistically different at the 95 percent confidence level. This means that with 95 percent confidence there is a real difference in the average reading proficiency between the two populations of interest.



Performance According to Purpose for Reading

The 1994 Trial State Assessment Program considered students' performance in situations that involved reading different kinds of materials for different purposes. The fourth-grade reading assessment measured two global purposes for reading — reading for literary experience and reading to gain information. The table below provides results for Colorado, the West region, and the nation according to each reading purpose.

1994, Public School Students

The proficiency of public school students in Colorado in reading for literary experience (217) was not significantly different from that of students across the nation (214). Similarly, in reading to gain information, the proficiency of public school students in Colorado (209) did not differ significantly from that of students across the nation (210).

1992 vs 1994, Public School Students

Colorado's public school fourth graders showed no significant change from 1992 to 1994 in reading for literary experience. Similarly, in reading to gain information, public school fourth graders in Colorado exhibited no significant change from 1992 to 1994.



Distribution of Reading Proficiency for Fourth-Grade Public School Students According to Purpose for Reading

1994 Trial State Assessment	Average Proficiency	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Reading for Literary Experience 1992 Public						
Colorado West Nation	220 (1.2) 216 (1.7) 217 (1.0)	178 (2.1) 168 (2.8) 169 (1.7)	200 (1.4) 192 (3.2) 194 (1.2)	222 (1.6) 217 (2.0) 219 (1.1)	241 (1.9) 241 (3.2) 242 (1.3)	259 (1.3) 261 (1.9) 262 (1.5)
1994 Public Colorado West Nation	217 (1.3) 213 (2.4) 214 (1.2)	163 (2.9) < 153 (3.9) < 157 (2.2) <	192 (1.7) < 187 (3.7) 189 (1.6)	221 (1.5) 218 (2.0) 219 (1.1)	246 (1.1) 243 (2.4) 244 (1.2)	266 (1.2) = 264 (2.5) 264 (1.3)
Reading to Gain Information 1992 Public Colorado West Nation	212 (1.4) 207 (2.0) 212 (1.2)	167 (3.6) 156 (3.6) 162 (1.8)	191 (2.2) 182 (2.9)	215 (1:0) 209 (2:8)	236 (1.5) 234 (2.0)	253 (2.2) 256 (3.7)
1994 Public Colorado West Nation	209 (1.6) 210 (2.2) 210 (1.2)	155 (2.6) 150 (4.7) 151 (2.0) <	187 (1.4) 185 (1.5) 183 (3.0) 183 (1.4)	214 (1.2) 213 (1.9) 215 (2.5) 214 (1.5)	238 (1.3) 237 (1.4) 242 (2.3) 240 (1.5)	259 (1.9) 257 (1.7) 263 (2.3) 262 (1.4)

The NAEP "purpose for reading" scales range from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Levels of Reading Achievement

The most recent reauthorization of the National Assessment Governing Board (NAGB) continues the Board's responsibilities to set policy for NAEP and to "develop appropriate student achievement levels for each age and grade in subject areas tested" (Pub. L. 103-382).

NAGB developed three achievement levels for each grade — Basic, Proficient, and Advanced. Performance at the Basic level denotes partial mastery of the knowledge and skills that are fundamental for proficient work at each grade level. The central level, called Proficient, represents solid academic performance at each grade level tested. Students reaching this level demonstrate competency over challenging subject matter and are well prepared for the next level of schooling. Performance at the Advanced level signifies superior performance at the grade tested. Definitions of the three levels of reading achievement are given below. Chapter 3 provides further elaboration of these levels and presents examples of types of questions that students at each of the three achievement levels can respond to effectively.



Description of Fourth-Grade Reading Achievement Levels

1994 Trial State Assessment		
Achievement Level	Scale Cutpoint	Description
ADVANCED	268	Fourth-grade students performing at the Advanced level should be able to generalize about topics in the reading selection and demonstrate an awareness of how authors compose and use literary devices. When reading text appropriate to fourth grade, they should be able to judge texts critically and, in general, give thorough answers that indicate careful thought.
PROFICIENT	238	Fourth-grade students performing at the <i>Proficient level</i> should be able to demonstrate an overall understanding of the text, providing inferential as well as literal information. When reading text appropriate to fourth grade, they should be able to extend the ideas in the text by making inferences, drawing conclusions, and making connections to their own experiences. The connection between the text and what the student infers should be clear.
BASIC	208	Fourth-grade students performing at the Basic level should demonstrate an understanding of the overall meaning of what they read. When reading texts appropriate for fourth graders, they should be able to make relatively obvious connections between the text and their own experiences.



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The table below provides the percentage of fourth-grade students at or above each achievement level, as well as the percentage of students below the Basic level.

1994, Public School Students

The percentage of public school students in Colorado who were at or above the Proficient level (28 percent) did not differ significantly from that of students across the nation (28 percent).

1992 vs 1994, Public School Students

From 1992 to 1994, there was no significant change in the percentage of public school students in Colorado who attained the Proficient level (25 percent in 1992 and 28 percent in 1994). Similarly, there was no significant change in the percentage of public school students across the nation who attained the Proficient level (27 percent in 1992 and 28 percent in 1994).



1992 Public Colorado West Nation 1994 Public Colorado West Nation

Levels of Fourth-Grade Public School Students' Reading Achievement

At or Above Advanced	At or Above Proficient	At or Above Basic	Below Basic
	Perce	entage	
4 (0.6)	25 (1.4)	64 (1,6)	36 (1,6)
5 (0.7) 6 (0.6)	24 (1.8) 27 (1.3)	56 (1 9) 60 (1 1)	44 (1.9) 40 (1:1)
6 (0.7) 7 (0.8)	28 (1.5) 28 (2.0)	59 (1.4) 59 (2.2)	41 (1:4)

59 (1.1)

The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.

28 (1.2)

7 (0.7)

Subpopulation Performance

Assessment results repeatedly show differences in performance for subpopulations of students.⁴ The 1994 Trial State Assessment provides additional information about the performance of important subpopulations by reporting on the reading proficiencies of various subgroups of the public school student population defined by race/ethnicity, type of location, parents' education level, and gender. These results are summarized in the table on page 8.



Ina V.S. Mullis, John A. Dossey, Jay R. Campbell, Claudia A. Gentile, Christine O'Sullivan, and Andrew S. Latham. NAEP 1992 Trends in Academic Progress. (Washington, DC: National Center for Education Statistics, 1994).

Race/Ethnicity

1994, Public School Students. The average reading proficiency of White students in Colorado public schools was higher than that of Black, Hispanic, and American Indian students.

1992 vs 1994, Public School Students. There was a decrease in the average reading proficiency of Hispanic public school students in Colorado from 1992 to 1994. There was no significant change in the average reading proficiency of White, Black, or American Indian public school students in Colorado from 1992 to 1994.

Type of Location

1994, Public School Students. The average reading proficiency of Colorado students attending public schools in central cities was not significantly different from that of students in urban fringe/large towns and rural areas/small towns.

1992 vs 1994, Public School Students. From 1992 to 1994, there was no significant change in the average reading proficiency of students attending public schools in central cities, urban fringe/large towns, or rural areas/small towns in Colorado.

Parents' Education Level

1994, Public School Students. Public school students in Colorado reporting that at least one parent graduated from college demonstrated an average reading proficiency which did not differ significantly from that of students who reported that at least one parent had some education after high school but was higher than that of students who reported that at least one parent graduated from high school, neither parent graduated from high school, or they did not know their parents' education level.

1992 vs 1994, Public School Students. The average proficiency of public school students in Colorado who reported that at least one parent graduated from college, at least one parent had some education after high school, at least one parent graduated from high school, neither parent graduated from high school, or they did not know their parents' education level did not change significantly between 1992 and 1994.

Gender

1994, Public School Students. In public schools in Colorado, girls exhibited an average reading proficiency which was higher than that of boys.

1992 vs 1994, Public School Students. In Colorado public schools, the average reading proficiency for boys did not change significantly from 1992 to 1994. Similarly, the average proficiency for girls did not change significantly from 1992 to 1994.





Fourth-Grade Public School Students' Average Reading Proficiency by Subpopulation

1992 1994 1994 Trial State Assessment **Proficiency** RACE/ETHNICITY White Colorado 222 (1.1) 222 (1.3) West 220 (1.7) 223 (1.3) 222 (2.0) Nation 223 (1.3) Black Colorado 202 (3.4)! 191 (4.7) West 185 (4.4) 186 (4.8) Nation 192 (1.6) 186 (1.7) a Hispanic Colorado 202 (1.9) 193 (2.1) < West 196 (2.7) Nation 199 (2.2) 188 (2.7) American Indian Colorado 203 (4.7) 204 (5.2) West Nation 205 (4.9) 200 (3.6) TYPE OF LOCATION **Central City** Colorado 211 (2.0) Nation 207 (1.5) 203 (2.4) Urb Fringe/Lrg Town Colorado 220 (1.7) 216 (2.3) Nation 219 (2.2) 219 (1.9) Rural/Small Town Colorado 218 (2.7) 217 (2.5) Nation 217 (2.5) 213 (1.8) PARENTS' EDUCATION College graduate Colorado 225 (1.2) 222 (1.4) West 219 (2.8) Nation 223 (1.6) 222 (1.4) Some educ after HS Colorado 224 (2.2) 220 (2.7) West 223 (3.6) 221 (5.1) Nation 221 (2.4) 222 (2.2) HS graduate Colorado 210 (2.3) 213 (3.0) West 210 (4.1 201 (3.9) Nation 211 (1.8) 206 (1.9) HS non-graduate Colorado 202 (3.2) 192 (5.9) West 195 (5.4) Nation 197 (2.7) 188 (3.5) 209 (1.6) 207 (1.6) I don't know Colorado 204 (1.7) West 203 (2.4) Nation 209 (1.3) 204 (1.3) GENDER Male Colorado 209 (1,8) 214 (1.3) West 207 (2.6) 207 (2.5) Nation 211 (1.3) 207 (1.3) Female Colorado 219 (1.4) 218 (1.5) 216 (1.3) West 217 (25) Nation 219 (1.1) 218 (1.2)

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



^{*} School sample size is insufficient to permit reliable regional results for type of location.

Reading Performance of Non-Public School Students

The 1994 Trial State Assessment marks the first time that non-public school students were assessed at the state level. Therefore, separate non-public school results can be reported for Colorado. Also, results based on a combined sample of public and non-public school students can be presented. The following table shows the distribution of overall reading proficiency for the non-public school and combined populations. The corresponding public school student results can be found in the table on page 3.

Non-Public School Students

The average reading proficiency of fourth-grade students in non-public schools in Colorado was 239. This average was not significantly different from that of non-public school students across the nation (231).

Public and Non-Public School Student Comparison

The average reading proficiency of fourth-grade students in non-public schools in Colorado was higher than the average for public school students (239 for non-public and 213 for public). For the nation, the average reading proficiency for non-public school students was higher than that of their public school counterparts (231 for non-public and 212 for public).

1994, Public and Non-Public School Students Combined

The average reading proficiency of grade 4 students from Colorado was 215. This average did not differ significantly from that of students across the nation (214). The lowest performing 10 percent of fourth graders from Colorado had proficiencies at or below 163 while the top 10 percent had proficiencies at or above 261. The lowest performing 10 percent of students across the nation had proficiencies at or below 159 while the top 10 percent had proficiencies at or above 263.



Distribution of Reading Proficiency for Fourth-Grade Students, Non-Public and Combined Schools

1994 Trial State Assessment	Average Proficiency	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
1994 Non-Public						
Colorado	239 (3.7)!	201 (13.2)!	222 (5.6)]	241 (2.9)	258 (5,6)!	275 (5.9)!
West	223 (6.2)	175 (11.0)!	201 (7.4)!	224 (6.1)!	249 (5.9)	269 (5.0)!
Nation	231 (2.5)	186 (4.2)	211 (2.5)	233 (2.3)	254 (1.9)	272 (2.7)
1994 Combined						
Colorado	215 (1.3)	163 (2.8)	192 (1.3)	219 (1.1)	242 (1.1)	261 (1.1)
West	212 (1.9)	154 (4.7)	187 (2.7)	217 (2.6)	242 (1.8)	262 (2.4)
Nation	214 (1.0)	159 (1.6)	189 (1.2)	219 (1.1)	243 (1.1)	263 (1.5)

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic.



A Context for Understanding Students' Reading Proficiency in Public Schools

Information on the reading performance of students in Colorado can be better understood and used for improving instruction and setting policy when supplemented with contextual information about schools, teachers, and students.

To gather contextual information, the fourth-grade students participating in the 1994 Trial State Assessment, their reading teachers, and the principals or other administrators in their schools were asked to complete questionnaires on policies, instruction, and programs. The student, teacher, and school data help to describe some of the current practices and emphases in reading education, illuminate some of the factors that appear to be related to fourth-grade public-school students' reading proficiency, and provide an educational context for understanding information on student achievement. Highlights of the results for the public-school students in Colorado are as follows:

CURRICULUM COVERAGE AND INSTRUCTIONAL EMPHASIS

- In Colorado in 1994, average reading proficiency was similar for students regardless of how much time their reading teachers spent on reading instruction on a typical day.
- According to the public school administrators in Colorado, in 1994, 82 percent of the fourth-grade students were in schools where reading was identified as receiving special emphasis. This percentage was not significantly different from that of students across the country (85 percent).
- In 1994, according to their reading teachers, 11 percent of the students in public schools in Colorado were typically taught reading in a class that was grouped by reading ability. The prevalence of ability grouping was higher across the nation (22 percent).

DELIVERY OF READING INSTRUCTION

- Students in Colorado whose teachers used both basal and trade books demonstrated an average reading proficiency (214) which did not differ significantly from* that of students whose teachers primarily used basal readers (203).
- The proficiency of Colorado students whose teachers used both basal and trade books (214) was not significantly different from that of students whose teachers primarily used trade books (214).
- The proficiency of Colorado students whose teachers primarily used trade books (214) was not significantly different from* that of students whose teachers primarily used basal readers (203).



¹⁹

^{*} Although the difference may appear large, recall that "significance" here refers to "statistical significance." (See Appendix A for further discussion.)

- In Colorado, 29 percent of the fourth-grade students had reading teachers who used children's newspapers and/or magazines at least once a week; 16 percent of the students had reading teachers who used reading kits at least once a week; 22 percent had reading teachers who used computer software for reading instruction at least once a week; 90 percent of the students had reading teachers who used a variety of books at least once a week; and, finally, 74 percent of the students had reading teachers who used materials from other subject areas at least once a week.
- According to the Colorado reading teachers, 54 percent of the students were asked to discuss new or difficult vocabulary almost every day. This percentage was smaller than that of students across the nation (62 percent).
- According to their reading teachers, the percentage of students in Colorado who were asked to talk with each other almost every day about what they have read (37 percent) was not significantly different from that of students across the nation, where 34 percent of the students were asked to do this activity almost every day.
- According to the reading teachers in Colorado, 5 percent of the students were asked to do a group activity or project about what they have read almost every day. This figure was not significantly different from that of students across the nation (5 percent).

EDUCATIONAL BACKGROUND OF TEACHERS

- The percentage of students who were being taught by reading teachers who reported having at least a master's or education specialist's degree in Colorado (43 percent) was not significantly different from that for the nation (41 percent).
- About half of the students (52 percent) had reading teachers who had
 the highest level of teaching certification that is recognized by Colorado.
 This was smaller than the figure for the nation, where 65 percent of the
 students were taught by reading teachers who were certified at the
 highest level available in their states.
- In Colorado, 23 percent of the students were being taught reading by teachers who had an undergraduate major in English, reading, and/or language arts. This was not significantly different from the percentage of students across the nation who were being taught by reading teachers with the same major (20 percent).



HOME FACTORS

- In Colorado, 37 percent of the students reported having four types of reading materials (a newspaper, an encyclopedia, 25 or more books, and magazines) in the home. This figure was not significantly different from that for the nation (36 percent). Students in Colorado who had all four of these types of materials in the home showed an average reading proficiency (224) which was higher than that of students with zero to two types of materials (200).
- In 1994 in Colorado, 31 percent of the students discussed with friends or family what they read almost every day. This percentage did not differ significantly from that of students across the nation (28 percent). The proficiency of students in Colorado who discussed what they read with friends or family almost every day (213) did not differ significantly from that of students who had discussions with friends or family less than weekly (209).
- Relatively few of the fourth-grade students (13 percent) watched six hours or more of television each day. This was smaller than the figure for the nation, where 22 percent of the students watched this much television. Average reading proficiency in Colorado was lowest for students who spent six hours or more watching television each day.

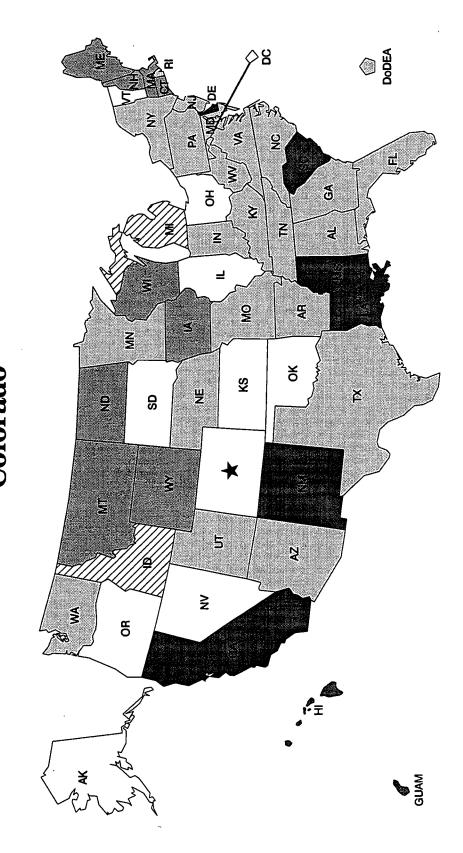
Comparisons of Overall Reading Proficiency in Colorado with Other States

The map on the following page provides a method for making appropriate comparisons of the overall public school reading proficiency in Colorado with that in other states (including Guam and the Department of Defense Education Activity [DoDEA] Overseas Schools) that participated in the NAEP 1994 Trial State Assessment Program. The different shadings of the states on the map show whether the average overall proficiency of public school students in the other states was statistically different from or not statistically different from that of public school students in Colorado ("Target State"). States in black have a significantly lower average public school proficiency than does Colorado. States with a dark-gray shading have a significantly higher average public school proficiency than does Colorado. States with a light-gray shading have an average public school proficiency that does not differ significantly from that of Colorado. The significance tests are based on a Bonferroni procedure for multiple comparisons that holds the probability of erroneously declaring the means of any two states to be different, when they are not, to no more than five percent. Two states - Idaho and Michigan - did not meet minimum school participation guidelines for public schools. Another jurisdiction — Washington, DC — withdrew from the Trial State Assessment after the data collection phase. Therefore, these three jurisdictions are not included in the comparisons depicted on the map on the following page.



The 1994 Trial State Assessment

Comparisons of Overall Reading Proficiency Grade 4 Public Schools Colorado





State has statistically significantly higher average proficiency than target state

No statistically significant difference from target state

State has statistically significantly lower average proficiency than target state

State did not participate (Washington DC declined to release 1994 results) State did not meet minimum participation rate guidelines



23

Trial State Assessment

1994

THE NATION'S

CARD

REPORT

OVERVIEW

For over 25 years, the National Assessment of Educational Progress (NAEP) has been the nation's primary indicator of student achievement, reporting on what students know and can do in various school subject areas at grades 4, 8, and 12. With legislation passed by Congress in 1988, NAEP's mission of providing dependable and comprehensive information about educational progress in the United States was expanded to involve a voluntary state-by-state assessment on a trial basis.

Consequently, the 1990 NAEP program included a Trial State Assessment Program in which public school students in 37 states, the District of Columbia, and two territories were assessed in eighth-grade mathematics.⁵ Building on this initial effort, the 1992 NAEP program included a Trial State Assessment Program in fourth-grade reading and fourth- and eighth-grade mathematics, with public school students assessed in 41 states, the District of Columbia, and two territories.⁶

The continuation of NAEP's Trial State Assessment Program in 1994 was authorized by additional legislation that enlarged the state-by-state assessment to include non-public school students:

The National Assessment shall conduct in 1994... a trial reading assessment for the 4th grade, in states that wish to participate, with the purpose of determining whether such assessments yield valid and reliable State representative data. (Section 406(i)(2)(C)(i) of the General Education Provisions Act, as amended by Pub. L. 103-33 (U.S.C. 1221e-1(a)(2)(B)(iii)))

The National Assessment shall include in each sample assessment. . . students in public and private schools in a manner that ensures comparability with the national sample. (Section 406(i)(2)(C)(i) of the General Education Provisions Act, as amended by Pub. L. 103-33 (U.S.C. 1221e-1(a)(2)(B)(iii)))

⁶ For a summary of the 1992 assessment of reading, see Ina V.S. Mullis, Jay R. Campbell, and Alan E. Farstrup. The NAEP 1992 Reading Report Card for the Nation and the States. (Washington, DC: National Center for Education Statistics, 1993). For a summary of the 1992 assessment of mathematics, see Ina V.S. Mullis, John A. Dossey, Eugene H. Owen, and Gary W. Phillips. NAEP 1992 Mathematics Report Card for the Nation and the States. (Washington, DC: National Center for Education Statistics, 1993).



For a summary of the 1990 program, see Ina V.S. Mullis, John A. Dossey, Eugene H. Owen, and Gary W. Phillips. The State of Mathematics Achievement: NAEP's 1990 Assessment of the Nation and the Trial Assessment of the States. (Washington, DC: National Center for Education Statistics, 1991).

In addition to the state assessment program in reading at grade 4, the 1994 NAEP involved national assessments of reading, geography, and history at grades 4, 8, and 12.

The 1994 Trial State Assessment Program was conducted in February 1994 with the following 44 participants:

Alabama. Louisiana North Dakota Arizona Maine **Pennsylvania Arkansas** Maryland Rhode Island California Massachusetts South Carolina Colorado Michigan Tennessee Connecticut Minnesota Texas Delaware : Mississippi Utah District of Columbia Missouri Virginia Florida Montana Washington Georgia Nebraska West Virginia Hawaii New Hampshire Wisconsin Idaho New Jersey Wyoming Indiana **New Mexico** lowa New York Guam Kentucky North Carolina DoDEA

Jurisdictions in italics — Montana, Washington, and the Department of Defense Education Activity (DoDEA) Overseas Schools — did not participate in the 1992 Trial State Assessment Program. Two states — Idaho and Michigan — did not meet minimum school participation guidelines for public schools. Another jurisdiction — Washington, DC — withdrew from the Trial State Assessment Program after the data collection phase. Therefore, public school results for these three jurisdictions are not reported. Three jurisdictions — Ohio, Oklahoma, and the Virgin Islands — participated in the 1992 Trial State Assessment but not in the 1994 program.

For the 1994 Trial State Assessment in reading, a combined sample of approximately 2,800 public and non-public school students was assessed in most jurisdictions. The samples were carefully designed to represent the fourth-grade populations in the states or jurisdictions. Participating jurisdictions were responsible for the administration of the assessment. For jurisdictions that participated in the 1992 Trial State Assessment Program, contractor staff monitored 25 percent of public school sessions and 50 percent of non-public school sessions. For jurisdictions that did not participate in 1992, contractor staff monitored 50 percent of both public and non-public school sessions. Monitoring efforts were part of a quality assurance program designed to ensure that sessions were conducted uniformly.

The 1992 Trial State and National Assessment programs in reading were based on a framework developed through a national consensus process that was set forth by law and called for "active participation of teachers, curriculum specialists, subject matter specialists, local school administrators, parents, and members of the general public" (Pub. L. 100-297, Part C, 1988). This same framework served as the basis of the 1994 Trial State and National Assessment programs.



NAEP Reading Consensus Project. Reading Framework for the 1992 and 1994 National Assessment of Educational Progress. (Washington, DC: National Assessment Governing Board, U.S. Department of Education, 1994).

The process of developing the framework was carried out in late 1989 and early 1990 by the Council of Chief State School Officers (CCSSO) under contract from the National Assessment Governing Board (NAGB) which is responsible for formulating policy for NAEP, including developing assessment objectives and test specifications. The framework development process included gathering input from a wide range of people in the fields of reading and assessment, such as school teachers, administrators, and state coordinators of reading and reading assessment. After thorough discussion and some amendment, the framework was adopted by NAGB in March 1990. An overview of the reading framework is provided in Appendix A.

The 1994 fourth-grade Trial State and National Assessments in reading consisted of eight sections or blocks, each 25 minutes in length. All fourth-grade students in the assessment were required to complete two blocks. Each block contained a passage or set of passages and a combination of constructed-response and multiple-choice questions. Passages selected for the assessment were drawn from authentic texts used by students in typical reading situations. Complete stories, articles, or sections of textbooks were used, rather than excerpts or abridgements. The type of question constructed-response or multiple-choice — was determined by the objective being measured. In addition, the constructed-response questions were of two types: short constructed-response questions which required students to respond to a question in a few words or a few sentences and extended constructed-response questions which required students to respond to a question in a paragraph or more.

This Report

This is a computer-generated report that describes the reading performance of fourth-grade students in Colorado, in the West region, and across the nation. A separate report describes additional fourth-grade reading assessment results for the nation and the states, as well as the national results for grades 8 and 12.8 This report consists of four sections:

- This Overview provides background information about the 1994 Trial State Assessment Program and a profile of the fourth-grade students in Colorado.
- Part One shows the distribution of reading proficiency results for fourth-grade students in Colorado, the West region, and the nation.
- Part Two presents reading achievement level results for fourth graders in Colorado, the West region, and the nation.
- Part Three relates fourth-grade public school students' reading proficiency to contextual information about the reading policies, instruction, and home support for reading in Colorado, the West region, and the nation.

⁸ See NAEP 1994 Reading Report Card for the Nation and the States. (Washington, DC: National Center for Education Statistics, 1995). 26 THE 1994 NAEP TRIAL STATE ASSESSMENT



In this report, results are provided for groups of students defined by shared characteristics — race/ethnicity, type of location, parents' education level, and gender. Based on criteria described in Appendix A, data are reported for subpopulations only where sufficient numbers of students and adequate school representation are present. For public school students, there must be at least 62 students in a particular subgroup from at least 10 different schools. For non-public school students, the minimum requirement is 62 students representing at least 6 different schools. However, the data for all students, regardless of whether their subgroup was reported separately, were included in computing overall results for Colorado. Definitions of the subpopulations referred to in this report are presented below.

The results for Colorado are based on the representative sample of students who participated in the 1994 Trial State Assessment Program. The results for the nation and the region of the country are based on the nationally and regionally representative samples of students who were assessed in January through March as part of the national NAEP program. Using the national and regional results from the 1994 national NAEP program is necessary because of the voluntary nature of the Trial State Assessment Program. Since not every state participated in the program, the aggregated data across states did not necessarily provide representative national or regional results. Specific details on the samples and analysis procedures used can be found in the Technical Report of the 1994 NAEP Trial State Assessment Program in Reading.

Race/Ethnicity

Results are presented for students of different racial/ethnic groups based on the students' self-identification of their race/ethnicity according to the following mutually exclusive categories: White, Black, Hispanic, Asian, Pacific Islander, and American Indian (including Alaskan Native). In 1992, the question posed to students regarding their racial/ethnic background had one Asian/Pacific Islander category. In 1994, these were two distinct response options for the question. Consequently, data and trend results for the separate categories are not available for the 1992 sample.

Type of Location

Results are provided for students attending public schools in three mutually exclusive location types — central city, urban fringe/large town, and rural/small town — as defined below. The type of location variable is defined in such a way as to indicate the *geographical* location of a student's school. The intention is not to indicate, or imply, social or economic meanings for these location types. The type of location variable, given the current NAEP sampling, does not support the reporting of regional results. Therefore, only state and national results will be presented.

Central City: The Central City category includes central cities of all Standard Metropolitan Statistical Areas (SMSA's).¹⁰ Central City is a geographic term and is not synonymous with "inner city."

Standard Metropolitan Statistical Area (SMSA) as defined by the Office of Management and Budget.



⁹ Technical Report of the NAEP 1994 Trial State Assessment Program in Reading. (Washington, DC: National Center for Education Statistics, 1995).

Urban Fringe/Large Town: An Urban Fringe includes all densely settled places and areas within SMSA's that are classified as urban by the Bureau of the Census. A Large Town is defined as places outside SMSA's with a population greater than or equal to 25,000.

Rural/Small Town: Rural includes all places and areas with a population of less than 2,500 that are classified as rural by the Bureau of the Census. A Small Town is defined as places outside SMSA's with a population of less than 25,000 but greater than or equal to 2,500.

Parents' Education Level

Students were asked to indicate the extent of schooling for each of their parents—did not finish high school, graduated from high school, had some education after high school, graduated from college, or did not know. The response indicating the higher level of education was selected for reporting. Note that a substantial percentage of fourth-grade students did not know their parents' education level.

Gender

Results are reported separately for males and females.

Region

The United States has been divided into four regions for purposes of this report: Northeast, Southeast, Central, and West. States included in each region are shown in Figure O.1. All 50 states and the District of Columbia are listed, with the participants in the 1994 Trial State Assessment Program highlighted in boldface type. Guam and the Department of Defense Education Activity (DoDEA) Overseas Schools were not assigned to a region. Further, students attending schools in the part of Virginia that is included in the Washington, DC, metropolitan statistical area are included in the Northeast regional results; students attending schools in the remainder of the state are included in the Southeast regional results. Because most of the Virginia students are in the Southeast region, regional comparisons for Virginia are to the Southeast.

Regional results are based on national assessment samples, not on aggregated Trial State Assessment samples, as explained on the previous page. Thus, the regional results are based on a *different* and *separate* sample from that used to report the state results.



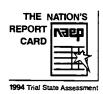


FIGURE 0.1

Regions of the Country

NORTHEAST	SOUTHEAST	CENTRAL	WEST
Connecticut	Álábama	Illinois	Alaska
Delaware	Arkansas	Indiana	Arizona
District of Columbia	Florida	lowa	California
Maine	Georgia	Kansas	Colorado
Maryland	Kentucky	Michigan	Hawaii
Massachusetts	Louisiana	Minnesota	Idaho
New Hampshire	Mississippi	Missouri	Montana
New Jersey	North Carolina	Nebraska	Nevada
New York	South Carolina	North Dakota	New Mexico
Pennsylvania	Tennessee	Ohio	Oklahoma
Rhode Island	Virginia	South Dakota	Oregon
Vermont	West Virginia	Wisconsin	Texas
Virginia			Utah
			Washington
			Wyoming

Note: Part of Virginia (near metropolitan Washington, DC) is included in the Northeast region, and the rest of Virginia is in the Southeast region.

Non-Public Schools

Samples for the 1994 Trial State Assessment Program were expanded to include students attending non-public schools (Catholic schools and other religious and private schools) in addition to the public school students. The expanded coverage was instituted for the first time in 1994. Samples for the 1990 and 1992 Trial State Assessment Programs had been restricted to public school students only. For those jurisdictions meeting pre-established participation rate standards (see Appendix A), separate results are reported for non-public schools and for the combined public and non-public school samples. The combined sample also contains students attending Bureau of Indian Affairs (BIA) schools and domestic Department of Defense schools. These two categories of schools are not included in either the public or non-public school samples. The DoDEA Overseas Schools are considered public schools and are reported as a separate jurisdiction for the first time in 1994.



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Guidelines for Analysis and Reporting

This report describes reading performance for fourth graders and compares the results for various groups of students within that population — for example, those who have certain demographic characteristics or who responded to a specific background question in a particular way. The report examines the results for individual demographic groups and individual background questions. It does not include an analysis of the relationships among combinations of these subpopulations or background questions.

Because the percentages of students in these subpopulations and their average proficiencies are based on samples — rather than on the entire population of fourth graders in a jurisdiction — the numbers reported are necessarily estimates. As such, they are subject to a measure of uncertainty, reflected in the standard error of the estimate. When the percentages or average proficiencies of certain groups are compared, it is essential to take the standard error into account, rather than to rely solely on observed similarities or differences. Therefore, the comparisons discussed in this report are based on statistical tests that consider both the magnitude of the difference between the means or percentages and the standard errors of those statistics.

The statistical tests determine whether the evidence — based on the data from the groups in the sample — is strong enough to conclude that the means or percentages are really different for those groups in the population. If the evidence is strong (i.e., the difference is statistically significant), the report describes the group means or percentages as being different (e.g., one group performed higher than or lower than another group) — regardless of whether the sample means or sample percentages appear to be about the same or not. If the evidence is not sufficiently strong (i.e., the difference is not statistically significant), the means or percentages are described as being not significantly different — again, regardless of whether the sample means or sample percentages appear to be about the same or widely discrepant. The reader is cautioned to rely on the results of the statistical tests — rather than on the apparent magnitude of the difference between sample means or percentages — to determine whether those sample differences are likely to represent actual differences between the groups in the population. The statistical tests and Bonferroni procedure, which is used when more than two groups are being compared, are discussed in greater detail in Appendix A.

In addition, some of the percentages reported in the text of the report are given quantitative descriptions (e.g., relatively few, about half, almost all, etc.). The descriptive phrases used and the rules used to select them are also described in Appendix A.



Finally, in several places in this report, results (mean proficiencies and percentages) are reported in the text for combined groups of students. For example, in the text, the proficiency of students in the combined group who reported reading for fun once or twice a month or never or hardly ever is given and compared to the group who reported reading for fun almost every day. However, the table that accompanies that text reports percentages and proficiencies separately for the four groups (almost every day, once or twice a week, once or twice a month, and never or hardly ever). The combined group proficiencies reported in the text and used in all statistical tests are based on unrounded estimates (i.e., estimates calculated to several decimal places) of the proficiencies for each group. The percentages shown in the tables are rounded to integers. Thus, percentages may not always add up to 100 percent due to rounding. Also, the percentage for a combined group (reported in the text) may differ slightly from the sum of the separate percentages (presented in the tables) for each of the groups that were combined. Therefore, if statistical tests were to be conducted based on the rounded numbers in the tables, the results might not be consonant with the results of the statistical tests that are reported in the text (based on unrounded numbers).

Profile of Colorado

Fourth-Grade School and Student Characteristics

Table O.1 provides a profile of the demographic characteristics of the fourth-grade students in Colorado, the West region, and the nation. This profile is based on data collected from the students and schools participating in the 1992 and 1994 Trial State and National Assessments. As described earlier, the state data and the regional and national data are drawn from separate samples.

Schools and Students Assessed

Table O.2 summarizes participation data for schools and students sampled in Colorado for both the 1992 and 1994 Trial State Assessments. In Colorado, 108 public schools and 8 non-public schools participated in the 1994 fourth-grade reading assessment. These numbers include participating substitute schools that were selected to replace some of the nonparticipating schools from the original sample. The weighted school participation rate after substitution in 1994 was 100 percent for public schools and 85 percent for non-public schools, which means that the fourth-grade students in this sample were directly representative of 100 percent and 85 percent of all the fourth-grade public and non-public school students in Colorado, respectively.



For a detailed discussion of the NCES guidelines for sample participation, see School and Student Participation Rates for the Reading Assessment and Guidelines for Participation. (Washington, DC: National Center for Education Statistics, 1994); or see Appendix B of the Technical Report of the NAEP 1994 Trial State Assessment Program in Reading. (Washington, DC: National Center for Education Statistics, 1995).

In each school, a random sample of students was selected to participate in the assessment. In 1994, as estimated by the sample, 4 percent of the fourth-grade public school population and 0 percent of the non-public school population were classified as Limited English Proficient (LEP), while 12 percent in public schools and 1 percent in non-public schools had an Individualized Education Plan (IEP). An IEP is a plan, written for a student who has been determined to be eligible for special education, that typically sets forth goals and objectives for the student and describes a program of activities and/or related services necessary to achieve the goals and objectives. Students with disabilities may be categorized as IEP.

Schools were permitted to exclude certain students from the assessment, provided that certain criteria were met. To be excluded, a student had to be categorized as Limited English Proficient or had to have an Individualized Education Plan and (in either case) be judged incapable of participating in the assessment. The intent was to assess all selected students; therefore, all selected students who were capable of participating in the assessment should have been assessed. However, schools were allowed to exclude those students who, in the judgment of school staff, could not meaningfully participate. The NAEP guidelines for exclusion are intended to assure uniformity of exclusion criteria from school to school. Note that some LEP and IEP students were deemed eligible to participate and not excluded from the assessment. The students in Colorado who were excluded from the assessment because they were categorized as LEP or had an IEP represented 8 percent of the public school population and 0 percent of the non-public school population in grade 4.

In Colorado, 2,730 public school and 130 non-public school fourth-grade students were assessed in 1994. The weighted **student** participation rate was 94 percent for public schools and 94 percent for non-public schools. This means that the sample of fourth-grade students who took part in the assessment was **directly** representative of 94 percent of the **eligible** public school student population and 94 percent of the **eligible** non-public school student population in **participating** schools in Colorado (that is, all students from the population represented by the participating schools, minus those students excluded from the assessment).

The **overall** weighted response rate (school rate times student rate) was 94 percent and 80 percent for public and non-public schools, respectively. This means that the sample of students who participated in the assessment was **directly** representative of 94 percent of the eligible fourth-grade public school population and 80 percent of the eligible fourth-grade non-public school population in Colorado.





TABLE 0.1

Profile of Fourth-Grade Students in Colorado, the West Region, and the Nation

1992	1994			
Public	Public	Non-Public	Combined	

		Public	Public	Non-Public	Combined
D		55.55	Do		S 7 8 10 10 10 10
Demo	ographic Subgroups		ren	entage	
RACE/ETHNICITY					
Colorado	White	70 (1.3)	67 (1.4)	89 (5.2)	69 (1.4)
	Black	4 (0.9)	5 (0.7)	(0.0) 0	5 (0.7)
	Hispanic	21 (0.9)	21 (1.1)	7 (4.8)	21 (1.1)
	Asian	— ()	2 (0.3)	1 (0.8)	2 (0.3)
	Pacific Islander	— ()	1 (0.2)	0 (0.0)	1 (0.2)
	American Indian	2 (0.3)	4 (0.4)	3 (1.8)	3 (0.4)
West	White	65 (2.1)	66 (2.0)	61 (8.2)	65 (1.7)
	Black .	11 (1.6)	7 (1.4)	3 (1:5)	7 (1.3)
	Hispanic	16 (1.9)	20 (1.5)	26 (6.3)	20 (1.3)
	Asian	— () — ()	3 (0.6)	3 (0.8)	3 (0.6)
	Pacific Islander		1 (0.3)	3 (1.5)	1 (0.4)
	American Indian	2 (0.6)	2 (0.3)	3 (2.3)	2 (0.4)
Nation	White	69 (.0.5)	68 (0.5)	76 (3.8)	69 (0.2)
	Black	17 (0.4)	16 (0.4)	8 (29)	15 (0.2)
	Hispanic	10 (0.3)	12 (0.3) :		12 (0.2)
	Asian	()	2 (0.2)	2 (0.5)	2 (0.2)
	Pacific Islander	— ()	1.(0.1)	1 (0.4)	1 (0.1)
TYPE OF LOCATION	American Indian	2 (0.3)	2 (0.1)	1 (0.6)	2 (0.2)
Colorado					
Colorado	Central City	33 (3.1)	35 (2.5)	22 (14.4)	34 (2.5)
	Urban Fringe/Large Town Rural/Small Town	47 (3.8)	45 (2.6)	73 (16.2)	47 (2.7)
Maties		20 (2.3)	20 (2.4)	5 (.5.2)	19 (2.3)
Nation	Central City	32 (2.8)	34 (2.1)	46 (4.6)	35 (2.0)
	Urban Fringe/Large Town Rural/Small Town	41 (3.5)	43 (2.5)	47 (4.6)	43 (2.3)
PARENTS' EDUCAT		27 (2.6)	23 (2.3)	7 (27)	21 (2.1)
Colorado	Graduated college	40 (4.4)			
00.01200	Some education after high school	40 (1.1)	44 (1.5)	57 (7.3)	45 (1.5)
	Graduated high school	11 (0.6) 12 (0.7)	8 (0.6) - 10 (0.7)		8 (0.5)
	Did not finish high school	4 (0.3)	3 (0.4)	4 (2.2)	9 (0.6)
	I don't know	34 (1.2)	35 (1.3)	1 (0.4) 32 (6.4)	3 (0.4)
West	Graduated college	35 (19)			34 (1.3)
West	Some education after high school	7 (1.0)	40 (2.1)	53 (6.5)	41 (2.0)
	Graduated high school	10 (1.1)	7 (0.8) 10 (0.5)	3 (1.1)	7 (0.8)
	Did not finish high school	6 (1.0)	5 (0.6)	9 (22)	10 (0.5)
	I don't know	41 (1.8)	38 (1.8)	32 (3.8)	5 (0.6) 37 (1.7)
Nation	Graduated college	37 (1.1)	41 (1.0)		
	Some education after high school	9 (0.6)	8 (0.5)	55 (2.5) 7 (0.8)	42 (0.9)
	Graduated high school	13 (0.6)	13 (0.5)		8 (0.5)
	Did not finish high school	4 (0.4)	4 (0.4)	9 (1.0) 2 (0.6)	13 (0.5)
	l don't know	37 (1.1)	34 (0.9)	28 (1.8)	4 (0.3) 34 (0.8)
GENDER				(s)	UT (U.0)
Colorado	Male	51 (1.0)	50 (0.9)	57 (3.4)	50 (0.9)
	Female	49 (1.0)	50 (0.9)	43 (3.4)	50 (0.9)
West	Male	52 (1.4)	51 (1.5)	55 (5.5)	51 (1.7)
	Female	48 (1.4)	49 (1.5)		
Nation	Male	51 (0.7)		45 (5.5)	49 (1.7)
	Female	49 (0.7)	51 (0.7)	50 (1.7)	51 (0.7)
_	i oriale	-10 (V.I)	49 (0.7)	50 (1.7)	49 (0.7)

⁻⁻⁻ Separate statistics for Asian and Pacific Islander students were not available in 1992. * School sample size is insufficient to permit reliable regional results for type of location. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. The percentages for Race/Ethnicity may not add to 100 percent because some students categorized themselves as "Other."



Following standard practice in survey research, the results presented in this report were produced using calculations which incorporate adjustments for the nonparticipating schools and students. Hence, the final results derived from the sample provide estimates of the reading proficiency and achievement for the **full** population of eligible public and non-public school fourth-grade students in Colorado. However, these nonparticipation adjustments may not adequately compensate for the missing sample schools and students in instances where nonparticipation rates are large.

In order to guard against potential nonparticipation bias in published results, NCES has established minimum participation levels necessary for the publication of 1994 Trial State Assessment results. NCES also established additional guidelines that address four ways in which nonparticipation bias could be introduced into a jurisdiction's published results (see Appendix A). In 1994, Colorado met minimum participation levels for public and non-public schools. Hence, results for both types of schools are included in this report. Colorado met all other established NCES participation guidelines for public schools but failed to meet one or more of these guidelines for non-public schools. Colorado's weighted participation rate for the initial samples of non-public schools was below 85 percent and the weighted school participation rate after substitution was below 90 percent (see Appendix A).

In the analysis of student data and reporting of results, nonresponse weighting adjustments have been made at both the school and student level, with the aim of making the sample of participating students as representative as possible of the entire eligible fourth-grade population. For details of the nonresponse weighting adjustment procedures, see the *Technical Report of the NAEP 1994 Trial State Assessment Program in Reading*.



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TABLE 0.2

Profile of the Fourth-Grade Population Assessed in Colorado

	1992	1994	
	Public	Public	Non-Public
SCHOOL PARTICIPATION			
Weighted school participation rate before substitution	100%	100%	71%
Weighted school participation rate after substitution	100%	100%	85%
Number of schools originally sampled	124	108	11
Number of schools not eligible	2	0	1
Number of schools in original sample participating	122	108	7
Number of substitute schools provided	0	0	3
Number of substitute schools participating	D	0	1
Total number of participating schools	122	108	8
STUDENT PARTICIPATION			
Weighted student participation rate after makeups	95%	94%	94%
Number of students selected to participate in the assessment	3,404	3,260	142
Number of students withdrawn from the assessment	160	140	3
Percentage of students who were of Limited English Proficiency	2%	4%	0%
Percentage of students excluded from the assessment due to Limited English Proficiency	2%	2%	0%
Percentage of students who had an Individualized Education Plan	9%	12%	1%
Percentage of students excluded from the assessment due to Individualized Education Plan Status	5%	6%	0%
Number of students to be assessed	3,040	2,899	139
Number of students assessed	2,897	2,730	130
Overall weighted response rate	95%	94%	80%

Colorado failed to meet established NCES participation guidelines for non-public schools. Colorado's 1994 non-public school weighted participation rate for the initial sample of schools was below 85% AND the weighted school participation rate after substitution was below 90%.



PART ONF

The Reading Proficiency of Fourth-Grade Students in Colorado

Reading involves the interaction between and among a reader, a text, and a situation.¹² Thus, students' reading comprehension is influenced by the type of material read and the specific purposes for reading. The 1994 Trial State Assessment Program considered students' proficiency in situations that involved reading different kinds of materials for different purposes. The fourth-grade reading assessment measured two global purposes for reading — reading for literary experience and reading to gain information.¹³ Students' proficiency on each of the two purposes for reading was summarized on separate NAEP reading scales (one for each purpose), which range from 0 to 500. In addition, results for an overall reading scale reflecting average proficiency across the two purposes for reading are also presented. The overall reading scale also ranges from 0 to 500.

This part of the report contains two chapters that describe the reading proficiency of fourth-grade students in Colorado. Chapter 1 compares the overall reading proficiency of public school students in Colorado to the West region and the nation. It also presents the students' average proficiency for the two purposes for reading. Chapter 2 summarizes reading proficiency for subpopulations of public school students defined by race/ethnicity, type of location, parents' education level, and gender. The second chapter also provides the combined results for public and non-public school students, as well as the results for only non-public school students.¹⁴

¹⁴ Due to the relatively small sample size for the non-public school students, results are not reported by subpopulation.



J.A. Dole, G.G. Duffy, L.R. Roehler, and P.D. Pearson. "Moving from the Old to the New: Research on Reading Comprehension Instruction," in *Review of Educational Research*, 61. (1991). pp. 239-264.

¹³ The eighth- and twelfth-grade national NAEP reading assessments also measured a third purpose for reading — reading to perform a task.

CHAPTER 1

Students' Reading Proficiency

In 1994, renewed emphasis was placed on national education goals when Congress reauthorized the Elementary and Secondary Education Act (ESEA) and enacted the Goals 2000: Educate America Act. A concern for higher academic standards is evident in the ESEA's efforts to provide programs to improve America's schools. Goals 2000 reasserts the importance of establishing and meeting rigorous goals in the education of our nation's students — All students will leave grades 4, 8, and 12 having demonstrated competency over challenging subject matter including English, mathematics, science, foreign languages, civics and government, economics, arts, history, and geography, and every school in America will ensure that all students learn to use their minds well, so they may be prepared for responsible citizenship, further learning, and productive employment in our nation's modern economy. Reading ability can be viewed as an enabling skill for reaching these goals. Therefore, concern about attaining these goals and, more specifically, about the reading abilities of our nation's students has increased because recent NAEP results appear to indicate that many students of all ages have difficulty reading thoughtfully.¹⁵

The NAEP Reading Framework underlying both the 1992 and 1994 assessments views reading as a dynamic, complex interaction between and among the reader, the text, and the context of the reading experience. Readers, for example, bring to the reading process their prior knowledge about a topic, their reasons for reading, their individual reading skills and strategies, and their understanding of differences in text structures.¹⁶

The texts used in the NAEP reading assessment are representative of common reading demands. Because reading performance varies in response to texts and contexts, the NAEP assessment measured students' abilities to read different types of materials for different purposes. The texts were selected from naturally-occurring sources that are typically available to children in and out of school. Students in grade 4 were asked to respond to literary and informational texts, corresponding with the two purposes for reading assessed at grade 4 — reading for literary experience and reading to gain information.

¹⁶ J.A. Langer. "The Process of Understanding: Reading for Literary and Informational Purposes," in Research in the Teaching of English, 24. (1990). pp. 229-260; NAEP Reading Consensus Project. Reading Framework for the 1992 and 1994 National Assessment of Educational Progress. (Washington, DC: National Assessment Governing Board, U.S. Department of Education, 1994).



¹⁵ Ina V.S. Mullis, Jay R. Campbell, and Alan E. Farstrup. The NAEP 1992 Reading Report Card for the Nation and the States. (Washington, DC: National Center for Education Statistics, 1993); Ina V.S. Mullis, John A. Dossey, Jay R. Campbell, Claudia A. Gentile, Christine O'Sullivan, and Andrew S. Latham. NAEP 1992 Trends in Academic Progress. (Washington, DC: National Center for Education Statistics, 1994).

Reading for literary experience typically involves the reader in vicarious experiences through the story's characters or considerations of how the author explores human events. Literary texts include short stories, poems, and folktales that engage the reader in a variety of ways, not the least of which is reading for fun. Reading to gain information may involve seeking to learn about a topic or to search for specific information. Informational texts include selections from textbooks, magazines, encyclopedias, and other written sources whose purpose is to increase the reader's knowledge. Differences between narrative and informational text typically require students to use different skills and strategies.

In addition to having fourth graders demonstrate their ability to read for two different purposes, the assessment asked students to build, extend, and examine meaning from four stances or types of interactions with the text.

Initial Understanding

Students are asked to provide the overall or general meaning of the selection. This includes first impressions, main points, or themes.

Developing an Interpretation

Students are asked to extend the ideas in the text by making inferences and connections. This includes making connections between cause and effect, analyzing the motives of characters, and drawing conclusions.

Personal Response

Students are asked to make explicit connections between the ideas in the text and their own background knowledge and experiences. This includes comparing story characters with themselves or people they know, or indicating whether they found a passage useful or interesting.

Critical Stance

Students are asked to consider the text objectively. This includes identifying how the author crafted a text with stylistic devices such as mood and tone.

These stances are not considered hierarchical or completely independent of each other. Rather, they are viewed as recursive processes that take place throughout reading and represent different dimensions of the reader's understanding. They provide a frame for generating assessment questions and considering student performance at all levels. All students at all levels should be able to respond to reading selections from all of these stances. What varies with students' developmental and proficiency levels is the amount of prompting or support needed to elicit their responses, the complexity of the texts to which they can respond, and the sophistication of their answers.

This chapter describes the reading proficiency of Colorado's public school fourth graders in 1994 and the comparative results of their regional and national counterparts. In addition, this chapter provides a comparison of reading performance in 1992 and 1994 for Colorado's fourth graders attending public schools.



Table 1.1 shows the distribution of reading proficiency of fourth-grade students attending public schools in Colorado, the West region, and the nation.

1994, Public School Students

The average reading proficiency of fourth-grade public school students in Colorado on the NAEP reading scale was 213. This average was not significantly different from that of students across the nation (212).¹⁷ The lowest performing 10 percent of public school fourth graders in Colorado had proficiencies at or below 162 while the top 10 percent had proficiencies at or above 260. In public schools across the nation, the lowest performing 10 percent of fourth graders had proficiencies at or below 156; the top performing 10 percent of students had proficiencies at or above 261.

1992 vs 1994, Public School Students

There was no significant change in the average proficiency of fourth-grade public school students in Colorado from 1992 to 1994 (217 in 1992 and 213 in 1994). During the same period, there was no significant change in the average proficiency of fourth-grade public school students across the nation (215 in 1992 and 212 in 1994).



TABLE 1.1

Distribution of Reading Proficiency for Fourth-Grade Public School Students

Proficiency	Percentile	Percentile	Percentile	75th Percentile	90th Percentile
217 (111)	175 (2 1)	197 (1.6)	219 (1 2)	238 (1.3)	255 (1.0)
	and the contract of the contra	and the second s	STANKER OF THE STANKER STANKER OF THE STANKER STANKER		257 (1.7)
215 (1.0)	168 (1.9)	192 (1.0)	217 (1.7)	240 (1.3)	259 (2.3)
213 (1.3)	162 (3.2) <	190 (1.5) c	217 (1.4)	241 (1.5)	260 (1.3) >
212 (2.2)	153 (4.0)	185 (3.0)	217 (2.8)	242 (1.8)	262 (2.5)
212 (-1.1)	156 (2.1) <	187 (1.5) <	217 (1.2)	241 (1.2)	261 (1.5)
	213 (1.3) 212 (2.2)	212 (1.6) 163 (3.4) 215 (1.0) 168 (1.9) 213 (1.3) 162 (3.2) < 212 (2.2) 153 (4.0)	212 (1.6) 163 (3.4) 169 (2.2) 215 (1.0) 168 (1.9) 192 (1.0) 213 (1.3) 162 (3.2) < 190 (1.5) < 212 (2.2) 153 (4.0) 185 (3.0)	212 (1.6) 163 (3.4) 169 (2.2) 214 (1.9) 215 (1.0) 168 (1.9) 192 (1.0) 217 (1.7) 213 (1.3) 162 (3.2) < 190 (1.5) < 217 (1.4) 212 (2.2) 153 (4.0) 185 (3.0) 217 (2.6)	212 (1.6) 163 (3.4) 169 (2.2) 214 (1.9) 237 (1.6) 215 (1.0) 168 (1.9) 192 (1.0) 217 (1.7) 240 (1.3) 213 (1.3) 162 (3.2) < 190 (1.5) < 217 (1.4) 241 (1.5) 212 (2.2) 153 (4.0) 185 (3.0) 217 (2.8) 242 (1.8)

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.

¹⁷ Differences reported as significant are statistically different at the 95 percent confidence level. This means that with 95 percent confidence there is a real difference in the average reading proficiency between the two populations of interest.



Proficiency According to Purpose for Reading

As previously indicated, the questions in the 1994 Trial State Assessment Program covered two purposes for reading at grade 4 — reading for literary experience and reading to gain information. Table 1.2 provides results for Colorado, the West region, and the nation according to each reading purpose.

1994, Public School Students

The proficiency of public school students in Colorado in reading for literary experience (217) was not significantly different from that of students across the nation (214). Similarly, in reading to gain information, the proficiency of public school students in Colorado (209) did not differ significantly from that of students across the nation (210).

1992 vs 1994, Public School Students

Colorado's public school fourth graders showed no significant change from 1992 to 1994 in reading for literary experience. Similarly, in reading to gain information, they exhibited no significant change from 1992 to 1994.



TABLE 1.2

Distribution of Reading Proficiency for Fourth-Grade Public School Students According to Purpose for Reading

	Average Proficiency	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Reading for Literary Experience 1992 Public						
Colorado West Nation	220 (1.2) 216 (1.7) 217 (1.0)	178 (2.1) 168 (2.8) 169 (1.7)	200 (1.4) 192 (3.2) 194 (1.2)	222 (1.6) 217 (2.0) 219 (1.1)	241 (1.9) 241 (3.2) 242 (1.3)	259 (1.3) 261 (1.9) 262 (1.6)
1994 Public Colorado West Nation	217 (1.3) 213 (2.4) 214 (1.2)	163 (2.9) < 153 (3.9) < 157 (2.2) <	187 (3.7)	221 (1.5)	245 (1.1) 243 (2.4) 244 (1.2)	266 (1.2) > 264 (2.5) 264 (1.3)
Reading to Gain Information 1992 Public Colorado West Nation	212 (1.4) 207 (2.0) 212 (1.2)	167 (3.6) 156 (3.6) 162 (1.8)	191 (2.2) 182 (2.9) 187 (1.4)	215 (1.0) 209 (2.8) 214 (1.2)	236 (1.5) 234 (2.0) 238 (1.3)	253 (22) 256 (3.7) 259 (1.9)
1994 Public Colorado West Nation	209 (1.6) 210 (2.2) 210 (1.2)	155 (2.6) 150 (4.7) 151 (2.0) <	185 (1.5) 183 (3.0)	213 (1.9) 215 (2.5) 214 (1.5)	237 (1.4) 242 (2.3) 240 (1.5)	257 (1.7) 263 (2.3) 262 (1.4)

The NAEP "purpose for reading" scales range from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



CHAPTER 2

Reading Proficiency of Fourth-Grade Students by Subpopulations

The overall reading proficiency of students across the country presented in the previous chapter provides a global view of the state of reading performance. However, it is also important to look more closely at the performance of subgroups and to consider how different groups of children are progressing in reading. This information can provide educators, policy makers, and concerned citizens with important knowledge about how well students from different backgrounds and with different experiences are developing as readers.

The 1994 Trial State Assessment Program provides additional information about the reading proficiency of important subpopulations by reporting on the performance of various subgroups of the public school student population defined by race/ethnicity, type of location, parents' education level, and gender. In addition, because non-public school students were sampled in the 1994 Trial State Assessment Program, the results for non-public school students as well as those for the combined public and non-public school populations are reported.

Race/Ethnicity

The 1994 Trial State Assessment Program results for different racial/ethnic groups can be compared when the number of schools and students in a racial/ethnic group is of sufficient size to be reliably reported. (See Appendix A for details.) Table 2.1 presents reading proficiency results for White, Black, Hispanic, and American Indian fourth-grade public school students from Colorado.

1994, Public School Students

As shown in Table 2.1, the average reading proficiency of White students in Colorado public schools was higher than that of Black, Hispanic, and American Indian students.



1992 vs 1994, Public School Students

There was a decrease in the average reading proficiency of Hispanic public school students in Colorado from 1992 to 1994. There was no significant change in the average reading proficiency of White, Black, or American Indian public school students in Colorado from 1992 to 1994.



TABLE 2.1

Distribution of Reading Proficiency for Fourth-Grade Public School Students by Race/Ethnicity

1994 Trial St	ate Assessment						
	and rassessment	Average Proficiency	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
White							
1992	Colorado West Nation	222 (1.1) 220 (1.7) 223 (1.3)	184 (2.2) 175 (3.0) 180 (2.3)	204 (1.4) 199 (2.0) 202 (1.4)	223 (1.3) 223 (1.9) 225 (1.6)	242 (1.4) 244 (1.2) 246 (1.3)	258 (1.1) 262 (2.0) 264 (1.6)
1994	Colorado West Nation	222 (1.3) 222 (2.0) 223 (1.3)	177 (3.4) 170 (4.6) 175 (2.3)	201 (1:1) 200 (1:9) 201 (1:7)	225 (1.3) 226 (2.0) 226 (1.4)	247 (1.8) 247 (1.9) 247 (1.1)	264 (1.6) > 266 (2.5) 266 (2.4)
Black							\ ,
1992	Colorado West Nation	202 (3.4) 185 (4.4) 192 (1.6)	161 (10.5) 138 (17.6) 148 (3.5)	178 (4.9) 160 (6.5) 169 (3.0)	207 (6.7) 189 (5.5) 193 (2.0)	226 (2.5)! 209 (10.8) 215 (2.6)	240 (5.4) 231 (6.2) 235 (2.2)
1994	Colorado West Nation	191 (4.7) 186 (4.8) 186 (1.7) <	135 (12.9) 130 (7.8) 135 (3.1)	163 (7.6) 159 (4.8) 160 (1.9)	193 (7.3) 191 (6.3) 187 (1.9)	219 (7.9) 215 (3.6) 213 (2.2)	240 (5.1) 236 (11.8) 234 (2.3)
Hispani	C	, , , , , , , , , , , , , , , , , , , ,	100 (0.1)	100 (1.5)	107 (123)	E13 (EE)	204 (2.3)
1992	Colorado West Nation	202 (1.9) 196 (2.7) 189 (2.2)	162 (4.5) 152 (7.2) 151 (4.2)	182 (2.4) 174 (3.4) 175 (2.4)	204 (1.8) 197 (2.0) 200 (3.7)	225 (2.3) 220 (3.5) 225 (3.9)	241 (1.6) 240 (2.3) 245 (2.4)
1994	Colorado West Nation	193 (2 1) < 186 (4.4) 188 (2.7) <	140 (3.0) < 129 (8.6) 134 (4.7)	168 (3.4) < 158 (4.6) 160 (3.5) <	196 (2.0) < 188 (5.3) 189 (4.2)	220 (2.2) 215 (3.0) 217 (3.5)	242 (2.9) 239 (5.2) 242 (3.6)
America	n Indian				,	(0.0)	2-2 (0.0)
1992	Colorado West Nation	203 (4.7) (***) 205 (4.9)	158 (6.6) *** (***) 155 (9.2)	177 (6.5) 5 (7.7) 183 (9.1)	206 (8.7) () 209 (8.8)	227 (2.6) - () 230 (4.0)	247 (7.3) (*) 248 (6.7)
1994	Colorado West Nation	204 (5.2)	148 (8.1)	174 (12.6) (***)	208 (15.8)	234 (2.6)	257 (18.7)
		200 (3.6)	145 (5.6)	174 (8.2)	205 (2.6)	230 (5.2)	250 (4.0)

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



Type of Location

Table 2.2 presents the reading proficiency results for fourth-grade students attending public schools in central cities, urban fringe/large towns, and rural areas/small towns.

1994, Public School Students

The results indicate that the average reading proficiency of Colorado students attending public schools in central cities was not significantly different from that of students in urban fringe/large towns and rural areas/small towns.

1992 vs 1994, Public School Students

From 1992 to 1994, there was no significant change in the average reading proficiency of students attending public schools in central cities, urban fringe/large towns, or rural areas/small towns in Colorado.



Distribution of Reading Proficiency for Fourth-Grade Public School Students by Type of Location

994 Trial St	ate Assessment	Average Proficiency	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Central	City						
1992	Colorado	211 (2.0)	168 (2.4)	191 (3.7)	213 (1.8)	232 (2.7)	250 (1.9)
	Nation	207 (1.5)	159 (2.6)	183 (2.6)	209 (1.9)	232 (1.9)	253 (2.6)
1994	Colorado	209 (2.5)	153 (6.9)	184 (3.2)	213 (2.6)	239 (1:6)	258 (1.7) >
	Nation	203 (2.4)	145 (2.6) <	174 (3.1)	208 (3.0)	235 (2:7)	256 (2.0)
Urban F	ringe/Large Town						
1992	Colorado	220 (1.7)	179 (1.7)	201 (2.1)	222 (2.0)	241 (1.6)	258 (2.0)
	Nation	219 (2.2)	173 (4.4)	196 (2.0)	222 (2.6)	245 (1.9)	263 (4.5)
1994	Colorado	216 (2.3)	166 (3.2) <	193 (3.5)	219 (1.7)	242 (2.0)	261 (1.7)
	Nation	219 (1.9)	166 (4.1)	196 (3.0)	223 (1.1)	246 (1.7)	265 (3.0)
Rural/S	mall Town						
1992	Colorado	218 (2.7)	178 (4.7)	199 (3.3)	220 (2.1)	239 (3.7)	255 (4.4)
	Nation	217 (2.5)	173 (2.8)	196 (4.4)	220 (2.7)	240 (2.4)	258 (3.9)
1994	Colorado	217 (2.5)	167 (4.8)	194 (2.4)	219 (3.8)	242 (2.3)	262 (3.9)
	Nation	213 (1.8)	162 (3.0)	189 (2.6)	217 (1.8)	240 (2.1)	260 (2.1)

School sample size is insufficient to permit reliable regional results for type of location.

TABLE 2.2

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Parents' Education Level

Previous NAEP findings have shown that students who report their parents are better educated tend to have higher reading proficiency.¹⁸ Table 2.3 shows the results for fourth-grade public school students reporting that at least one parent graduated from college, at least one parent had some education after high school, at least one parent graduated from high school, neither parent graduated from high school, or they did not know their parents' education level. Note that a substantial percentage of fourth graders indicated that they did not know their parents' education level. Furthermore, research suggests that some fourth graders' reports on parents' education level are almost certainly not accurate descriptions of their parents' actual education levels.¹⁹ Such considerations should be kept in mind when interpreting fourth grade proficiency results for different parental education levels.

1994, Public School Students

As shown in Table 2.3, public school students in Colorado reporting that at least one parent graduated from college demonstrated an average reading proficiency which did not differ significantly from that of students who reported that at least one parent had some education after high school but was higher than that of students who reported that at least one parent graduated from high school, neither parent graduated from high school, or they did not know their parents' education level.

1992 vs 1994, Public School Students

The average proficiency of public school students in Colorado who reported that at least one parent graduated from college, at least one parent had some education after high school, at least one parent graduated from high school, neither parent graduated from high school, or they did not know their parents' education level did not change significantly between 1992 and 1994.



¹⁸ Ina V.S. Mullis, Jay R. Campbell, and Alan E. Farstrup. The NAEP 1992 Reading Report Card for the Nation and the States. (Washington, DC: National Center for Education Statistics, 1993.)

¹⁹ E. Dianne Looker. "Accuracy of Proxy Reports of Parental Status Characteristics," in Sociology of Education, 62(4). (1989). pp. 257-276.



TABLE 2.3

Distribution of Reading Proficiency for Fourth-Grade Public School Students by Parents' Level of Education

1994 Trial St	ate Assessment	Average Proficiency	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
College 1992	graduate Colorado West Nation	225 (1.2) 219 (2.8) 223 (1.6)	186 (1.6) 171 (3.4) 175 (3.5)	207 (1.2) 196 (5.0) 200 (2.1)	226 (1.2) 222 (3.4) 226 (2.1)	245 (1.9) 245 (4.1) 249 (1.4)	261 (1.8) 264 (3.4) 267 (2.4)
1994	Colorado West Nation	222 (1.4) 223 (2.4) 222 (1.4)	171 (4.1) < 168 (4.0) 168 (1.9)	200 (1.8) 201 (3.2) 199 (1.4)	227 (2.0) 229 (2.3) 227 (1.7)	248 (2.0) 251 (2.1) 249 (1.8)	265 (1.5) 270 (2.4) 269 (1.6)
Some e 1992	ducation after HS Colorado West Nation	224 (2.2) 223 (3.6) 221 (2.4)	185 (3.0) 177 (5.4) 177 (9.0)	206 (2.8) 201 (12.6) 201 (3.3)	226 (1.9) 224 (2.9) 223 (2.9)	244 (3.1) 247 (3.1) 245 (3.6)	259 (2.9) 264 (7.5) 264 (7.5)
1994	Colorado West Nation	220 (2.7) 221 (5.1) 222 (2.2)	176 (6.0) 173 (17.7) 171 (9.6)	198 (3.0) 199 (6.1) 199 (4.3)	221 (11,4) 224 (7,9) 226 (3.9)	246 (3.2) 248 (6.1) 246 (3.1)	264 (8.0) 264 (3.0) 266 (3.9)
High so 1992	chool graduate Colorado West Nation	210 (2.3) 210 (4.1) 211 (1.8)	170 (2.8) 163 (4.9) 165 (1.6)	191 (3.9) 189 (3.2) 190 (2.8)	213 (1.7) 211 (6.4) 214 (2.6)	231 (7.7) 237 (6.7) 234 (2.6)	249 (9.5) 253 (8.7) 252 (2.8)
1994	Colorado West Nation	213 (3.0) 201 (3.9) 206 (1.9)	165 (4.8) 140 (7.0) 149 (3.0) <	192 (3.0) 173 (14.4) 181 (2.6)	216 (5.1) 210 (4.0) 212 (0.8)	238 (8.5) 233 (4.7) 235 (2.4)	258 (1.9) 250 (6.7) 255 (4.0)
High so 1992	chool non-graduate Colorado West Nation	202 (3.2) 195 (5.4) 197 (2.7)	157 (6.8) 146 (9.1) 154 (5.7)	178 (3.2) 168 (3.3) 175 (7.2)	203 (7.7) 196 (5.3) 199 (3.1)	226 (2.1) 225 (6.2) 221 (7.9)	245 (10.7) 245 (6.9) 241 (5.1)
1994	Colorado West Nation	192 (5.9) 188 (6.6) 188 (3.5)	136 (16.9) 135 (12.8) 137 (7.3)	163 (7.4) 155 (14.8) 162 (6.8)	195 (14.3) 189 (10.1) 188 (2.9)	223 (13.6) 224 (12.2) 216 (4.3)	244 (11.6) 239 (6.8) 236 (4.3)
l don't 1992		209 (1.6) 207 (1.6) 209 (1.3)	167 (2.4) 160 (4.8) 163 (1.9)	189 (3.0) 186 (1.7) 187 (1.8)	211 (1.4) 210 (1.6) 212 (1.5)	230 (2.4) 230 (2.3) 232 (1.7)	247 (2.1) 249 (4.9) 251 (2.2)
1994	Colorado West Nation	204 (1.7) 203 (2.4) 204 (1.3)	154 (5.2) 147 (4.1) 150 (3.1) <	181 (3.9) 177 (5.2) 179 (2.2)	207 (1.5) 207 (4.7) 208 (1.1)	231 (2.1) 233 (2.4) 234 (1.6)	251 ((2.6) 253 ((3.0) 253 ((1.9)

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Gender

In general, NAEP reading assessment results for males and females support numerous studies that have revealed gender differences favoring females in reading.²⁰ As shown in Table 2.4, the 1994 Trial State Assessment Program results for Colorado are consistent with those general findings.

1994, Public School Students

In public schools in Colorado, girls exhibited an average reading proficiency which was higher than that of boys.

1992 vs 1994, Public School Students

In Colorado public schools, the average reading proficiency for boys did not change significantly from 1992 to 1994. Similarly, the average proficiency for girls did not change significantly from 1992 to 1994.



TABLE 2.4

Distribution of Reading Proficiency for Fourth-Grade Public School Students by Gender

994 Trial Sta	ate Assessment	Average Proficiency	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Male							
1992	Colorado	214 (1.3)	171 (1.3)	194 (1.5)	216 (1.1)	236 (1.7)	252 (17)
	West	207 (2.6)	159 (7.0)	185 (6.0)	209 (3.0)	233 (3.0)	254 (2.1)
	Nation	211 (1.3)	163 (2.1)	188 (1.9)	213 (1.4)	237 (2.0)	256 (2.4)
1994	Colorado	209 (1.8)	155 (3.1) <	184 (2.2) <	213 (2.9)	238 (1.5)	256 (3.1)
	West	207 (2.5)	146 (5.9)	179 (5.3)	212 (3.3)	238 (3.2)	258 (1.5)
	Nation	207 (1.3)	149 (1.8) <	181 (1.0) <	211 (1.8)	237 (1.2)	257 (1.9)
Female 1992	Colorado West Nation	219 (1.4) 216 (1.3) 219 (1.1)	178 (2.5) 168 (2.2) 173 (2.1)	200 (2.0) 194 (2.9) 197 (2.0)	221 (1.8) 219 (2.2) 221 (1.1)	241 (1.1) 242 (2.5) 243 (1.6)	257 (1.4) 261 (2.6) 262 (1.7)
1994	Colorado	218 (1.5)	169 (3.5)	195 (2.7)	220 (1.5)	244 (2.1)	263 (2.4)
	West	217 (2.5)	162 (5.0)	192 (5.0)	221 (3.7)	245 (2.2)	265 (3.9)
	Nation	218 (1.2)	165 (1.6) <	194 (2.0)	222 (2.3)	245 (1.4)	264 (2.1)

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.

Proficiency According to Purpose for Reading

Table 2.5 provides a summary of results according to each of the two purposes for reading by race/ethnicity, type of location, parents' education level, and gender for public school students.



²⁰ Ian Plewis. "Pupils' Progress in Reading and Mathematics During Primary School: Associations with Ethnic Group and Sex," in Educational Researcher, 33. (1991). pp. 133-140; Gita Z. Wilder and Kristin Powell, Sex Differences in Test Performance: A Survey of the Literature. (New York: College Entrance Examination Board, 1989).



TABLE 2.5

Fourth-Grade Public School Students' Average Reading Proficiency According to Purpose for Reading by Subpopulation

Reading for Lite	rary Experience	Reading to Ga	in Information
1992	1994	1992	1994

			Brofi	ciency	
RACE/ETHNICITY			FIOR	ciency [
White	Colorado	225 (1.2)	226 (1.4)	218 (1.4)	219 (15)
wille	West	223 (1.9)	223 (2.4)	216 (1.9)	218 (1.5) 220 (2.0)
	Nation	225 (1.3)	224 (1.4)	221 (1.6)	220 (2.0)
Black	Colorado	207 (3.3)]	193 (4.6)	197 (4.8)!	189 (5.2)
	West	189 (4.1)	189 (5.0)!	179 (5.1)	183 (5.3)
	Nation	195 (1.6)	190 (2.1)	188 (1.9)	181 (1.6) <
Hispanic	Colorado	207 (2.0)	197 (2.1) <	197 (2.3)	189 (2.7)
•	West	203 (2.9)	187 (4.5) <	188 (3.1)	184 (4.4)
	Nation	204 (2.5)	191 (2.8) <	193 (2.2)	185 (2.7)
American Indian	Colorado	209 (4.4)	209 (.5.5)	. 197 (.5.4)	199 (5.3)
	West	*** (****)	*** (****)	*** (****)	(***)
TYPE OF LOCATION	Nation	208 (4.8)	202 (3.5)	201 (5.2)	198 (-4.2)
Central City	Colorado	046 (4.70	040 (0.4)	405 (0.6)	005 (0.4)
Central City	Nation	215 (1.7) 210 (1.5)	212 (2.4) 206 (2.6)	205 (2.6) 203 (1.8)	205 (3.1) 201 (2.3)
Urb Fringe/Lrg Town		223 (1.7)	220 (2.5)		
OID FIRINGERLING TOWN	Nation	221 (2.1)	220 (2.0)	216 (2.1) 217 (2.4)	211 (2.4) 217 (2.1)
Rural/Small Town	Colorado	222 (2.7)	220 (2.2)	214 (2.8)	212 (3.2)
MUIADOINAII TOWN	Nation	220 (2.2)	216 (2.0)	214 (2.6)	210 (2.1)
PARENTS' EDUCATION		122 (2.2.)	210 (220)	217(0.0)	2.0 (2.1)
College graduate	Colorado	228 (1.3)	225 (1.4)	221 (1.7)	218 (1.7)
oomogo graceato	West	223 (2.9)	224 (2.7)	216 (2.8)	222 (2.3)
	Nation	225 (1.6)	224 (1.5)	221 (1.7)	220 (1.4)
Some educ after HS	Colorado	226 (2.6)	225 (3.7)	220 (2.8)	215 (3.5)
	West	227 (3.7)	223 (5.3)	217 (4.2)	219 (5.4)
	Nation	224 (2.8)	224 (2.4)	218 (2.2)	218 (2.5)
HS graduate	Colorado	213 (2.3)	219 (2.8)	208 (2.7)	206 (3.5)
	West	215 (3.9)	202 (4.2)	205 (4.9)	201 (4.1)
	Nation	214 (2.0)	208 (2.1)	207 (2.0)	205 (2.0)
HS non-graduate	Colorado	207 (3.6)	202 (6.1)	196 (3:2)	180 (6.5)
	West	201 (6.0)	188 (6.9)	188 (5.0)	187 (7.1)
	Nation	202 (3.0)	189 (3.4) <	192 (2.7)	186 (4.4)
l don't know	Colorado West	214 (1.5)	207 (2.0) <	202 (1.9)	201 (1.9)
	vvest Nation	211 (1.6) 212 (1.3)	205 ((2.8) 207 (1.3)	202 (2.2)	201 (2.5)
GENDER	NauUII	1616 (1.3)	zu (i.o)	206 (1.5)	201 (1.6)
Male	Colorado	217 (1.4)	212 (1.7)	210 (1.7)	205 (2.0)
	West	211 (2.6)	206 (2.7)	203 (3.0)	207 (2.4)
	Nation	213 (1.5)	208 (1.4) <	209 (1.5)	206 (1.5)
Female	Colorado	224 (1.4)	222 (1.5)	214 (1.7)	213 (1.7)
	West	221 (1.4)	220 (2.8)	211 (1.6)	214 (2.5)
	Nation	222 (1.0)	221 (1,3)	215 (1.4)	214 (1.2)

^{*} School sample size is insufficient to permit reliable regional results for type of location.

The NAEP "purpose for reading" scales range from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



Reading Proficiency of Non-Public School Students

The 1994 Trial State Assessment Program marks the first time that non-public school students were assessed at the state level. Therefore, separate non-public school results can be reported for Colorado. Also, results based on a combined sample of public and non-public school students can be presented. Trend results are not presented for non-public school students because they were not included in the 1992 samples. Table 2.6 shows the distribution of overall reading proficiency for non-public school and combined populations in Colorado, the West region, and the nation. The corresponding results for public school students are presented in Table 1.1.

1994, Non-Public School Students

The average reading proficiency of fourth-grade students in non-public schools in Colorado was 239. This average was not significantly different from that of non-public school students across the nation (231).

Public and Non-Public School Student Comparison

The average reading proficiency of fourth-grade students in non-public schools in Colorado was higher than the average for public school students (239 for non-public and 213 for public). For the nation, the average reading proficiency for non-public school students was higher than that of their public school counterparts (231 for non-public and 212 for public).

1994, Public and Non-Public School Students Combined

The average reading proficiency of grade 4 students from Colorado was 215. This average did not differ significantly from that of students across the nation (214). The lowest performing 10 percent of fourth graders from Colorado had proficiencies at or below 163 while the top 10 percent had proficiencies at or above 261. The lowest performing 10 percent of students across the nation had proficiencies at or below 159 while the top 10 percent had proficiencies at or above 263.



TABLE 2.6

Distribution of Reading Proficiency for Fourth-Grade Students, Non-Public and Combined Schools

994 Trial State Assessment	Average Proficiency	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
1994 Non-Public						
Colorado	239 (3.7)	201 (13.2)!	.222 (5.6)!	241 (2.9)!	. 258 (5.6)	275 (5.9)1
West Nation	223 (6.2) 231 (2.5)	175 (11.0) 188 (4.2)	201 (7.4) 211 (2.5)	224 (6.1)] 233 (2.3)	249 (5.9)! 254 (1.9)	269 (5.0) 272 (2.7)
1994 Combined						
Colorado	215 (1.3)	163 (2.8)	192 (1.3)	219 (1,1)	242 (1.1)	261 (1.1)
West	212 (1.9)	154 (4.7)	187 (2.7)	217 (2.6)	242 (1.8)	262 (2.4)
Nation	214 (1.0)	159 (1.6)	189 (1.2)	219 (1.1)	243 (1.1)	263 (1.5)

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic.



Table 2.7 presents proficiency by purpose for reading for both the non-public school and combined populations. The corresponding public school student results can be found in Table 1.2.

1994, Non-Public School Students

The proficiency of non-public school students in Colorado in reading for literary experience (241) was not significantly different from* that of students across the nation (233). Similarly, in reading to gain information, the proficiency of Colorado's non-public school students (236) did not differ significantly from* that of students across the nation (229).

1994, Public and Non-Public School Students Combined

The proficiency of Colorado students in reading for literary experience (218) was not significantly different from that of students across the nation (216). Similarly, in reading to gain information, the proficiency of students in Colorado (211) did not differ significantly from that of students across the nation (212).



TABLE 2.7

Distribution of Reading Proficiency for Fourth-Grade Students According to Purpose for Reading, Non-Public and Combined Schools

	Average Proficiency	10th Percentile	25th Percentile	50th Percentile	75th Percentile	90th Percentile
Reading for Literary Experience	9					
Colorado West Nation	241 (4.4) 225 (6.2) 233 (2.5)	198 (7.3) 177 (14.6) 189 (4.7)	220 (7.2) 203 (5.6) 212 (3.1)	242 (6.3) 226 (4.6) 234 (2.1)	262 (6.8) 251 (6.1) 256 (2.9)	280 (6.3) 272 (5.1) 275 (1.8)
1994 Combined Colorado West Nation	218 (1.3) 214 (2.2) 216 (1.1)	164 (3.0) 154 (3.3) 160 (1.6)	194 (1.7) 188 (2.8) 191 (1.2)	222 (1.4) 218 (2.3) 221 (1.2)	247 (1.4) 244 (1.9) 245 (1.4)	267 (1.2) 264 (2.4) 265 (1.2)
Reading to Gain Information 1994 Non-Public Colorado West	236 (7.0) 221 (6.3)	198 (4.0) 172 (6.8)	218 (8.5) 197 (8.5)	236 (12.1) 222 (7.0)	257 (10.6) 247 (4.2)	273 (8.5)! 269 (4.2)!
Nation 1994 Combined Colorado	229 (2.6) 211 (1.6)	183 (7.3) 157 (2.5)	207 (3.0) 186 (2.4)	230 (3.1) 215 (2.0)	253 (2.6) 239 (1.6)	273 (2.8) 258 (1.8)
West Nation	211 (2.0) 212 (1.0)	151 (2.8) 154 (2.3)	184 (2.9) 185 (1.8)	215 (1.8) 216 (1.1)	242 (12.1) 242 (1.0)	263 (2.1) 263 (1.4)

The NAEP "purpose for reading" scales range from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic.



^{*} Although the difference may appear large, recall that "significance" here refers to "statistical significance." (See Appendix A for further discussion.)

PART TWO

Reading Achievement Levels

While providing information about what students can do in reading is essential for understanding the current state of reading performance, it is also important to determine whether students' present performance is adequate. Knowing what students can do is made even more relevant by also looking at what students should be able to do. For that reason, the National Assessment Governing Board (NAGB) has provided NAEP with achievement levels in reading that set standards for performance in reading at grades 4, 8, and 12.

This report presents data using the student achievement levels as authorized by the NAEP legislation and adopted by the National Assessment Governing Board (NAGB).²¹ The achievement levels are based on collective judgments, gathered from a broadly representative panel of teachers, education specialists, and members of the general public, about what students should know and be able to do relative to a body of content reflected in the NAEP assessment frameworks. For reporting purposes, the achievement level cut scores are placed on the traditional NAEP scale. For each grade, the results divide the scale into four ranges — Basic, Proficient, and Advanced, as well as the region below Basic.

Initiated in 1990, the levels have been used to report the national and state results in mathematics in 1990 and 1992, as well as in reading in 1992 and 1994. The reading achievement levels were developed by American College Testing (ACT) under contract with NAGB. While setting student achievement levels on the National Assessment is relatively new and developing, the achievement levels are consistent with recent education reform efforts. Some state and local jurisdictions are also developing standards and reporting their test results using them.²²

²² States such as Kentucky, Maryland, Colorado, Connecticut, and North Carolina all have standard-setting initiatives resulting in student achievement levels.



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²¹ P.L. 103-382. Improving America's Schools Act of 1994.

Despite the commitment to standards-based reporting of NAEP data, the transition is incomplete. There have been some critical reviews and congressionally mandated evaluations that cast doubt on the interpretability of achievement levels and also on the applicability of the underlying technical methodology used to develop them. These studies were conducted by the General Accounting Office (GAO)²³ and the National Academy of Education (NAE).²⁴ Their findings question, for example, the application of the Angoff method for large scale assessments like NAEP, given the significant modifications required to accommodate the complexity of the NAEP item structure and the multiple cutpoints. They conclude that discretion should be used in making particular inferences about what students at each level actually know and can do. In addition, there were concerns that the proportion of students at certain levels, but particularly at the advanced levels, may be underestimated.

On the other hand, the Angoff procedure is the most widely documented, researched, and frequently used method in the standard-setting field. Many well-known experts support the use of a modified-Angoff method on NAEP. Several critics of the NAE studies, for example, have reaffirmed the integrity of the process employed by the Board and have concluded that the weight of the empirical evidence presented does not support the NAE's conclusions about achievement levels or the use of the modified-Angoff process. In addition, the Council of Chief State School Officers' advisory panel of state assessment directors, fully aware of the NAE's conclusions, supported the use of the achievement levels to report the 1994 reading results.²⁶

Taken together, the results of the various studies suggest the need for further research and development. To that end, ACT, the NAGB contractor, recently conducted a study in anticipation of the 1994 NAEP reading reports. The study sought to examine the congruence between the reading assessment framework and the descriptions of reading performance embodied in the levels.²⁷ Two different methodologies were used: (1) evaluation of the achievement level descriptions via statistical item mapping, and (2) evaluation of the achievement level descriptions via judgmental item mapping. It was the consensus of the participants that the reading achievement level descriptions were, in general, consistent with the framework and the 1994 NAEP reading assessment results. However, minor modifications were suggested by the study panelists. These modifications were incorporated into the 1994 achievement level descriptions.



²³ General Accounting Office. Educational Achievement Standards: NAGB's Approach Yields Misleading Interpretations. (Washington, DC, 1993).

²⁴ National Academy of Education. Setting Performance Standards for Student Achievement. (Stanford, CA: National Academy of Education, 1993).

American College Testing. Technical Report on Setting Achievement Levels on the 1992 National Assessment of Educational Progress in Mathematics, Reading, and Writing. (Washington, DC: National Assessment Governing Board, 1993); G. Cizak. Reactions to the National Academy of Education Report. (Washington, DC: National Assessment Governing Board, 1993); M. Kane. Comments on the NAE Evaluation of the NAGB Achievement Levels. (Washington, DC: National Assessment Governing Board, 1993).

Education Information Advisory Committee of the Council of Chief State School Officers. A Resolution of the Education Information Advisory Committee. (Alexandria, VA, 1994).

American College Testing. Technical Report on the 1992 NAEP Reading Re-visit Study. (Iowa City, IA: American College Testing, 1995).

It should be noted that the ACT study did not address the applicability of the modified-Angoff procedure for the 1994 reading assessment. Nor did it focus on the reasonableness of actual achievement level cut scores. However, NAGB continues to explore new and innovative methodologies for standard setting for NAEP. In addition, proceedings from a standard-setting conference held in the fall of 1994, jointly sponsored by NCES and NAGB, are due to be released in the fall of 1995. Given the array of nationally known experts in attendance, the findings will undoubtedly provide additional insight into this issue.

In sum, the student achievement levels in this report have been developed carefully and responsibly, and have been subject to refinements and revisions in procedures as new technologies have become available. However, standards-based reporting for NAEP data is still in transition. The NAEP legislation states that the student achievement levels shall be "... developed through a national consensus approach ... used on a developmental basis, ... and updated as appropriate." It requires that their developmental status be clearly stated in NAEP reports. Upon review of the available information, the Commissioner of NCES has judged that the achievement levels are in a developmental status. However, the Commissioner and the Governing Board also believe that the achievement levels are useful and valuable in reporting on the educational achievement of American students.

Part Two of this report focuses on results of the 1994 Trial State Assessment Program in terms of the NAGB achievement levels. Chapter 3 provides an overview of the achievement level descriptors. In addition, the percentages of public school students in Colorado, the West region, and across the nation who performed at or above each of the achievement levels in 1994 and 1992 are presented. Chapter 4 expands on these results by presenting achievement level data for subgroups — race/ethnicity, type of location, level of parents' education, and gender. Chapter 4 also presents results for students in non-public schools and combined results for both public and non-public school students.



CHAPTER 3

Students' Reading Achievement

The most recent reauthorization of the National Assessment Governing Board (NAGB) continues the Board's responsibilities to set policy for NAEP and to "develop appropriate student achievement levels for each age and grade in subject areas tested" (Pub. L. 103-382). As a result, students' reading proficiencies presented in the previous section can be viewed in the context of established goals for performance. This report next presents results based on the National Assessment Governing Board's goals for students' achievement on the NAEP reading scale.²⁸

Achievement goals are determined through collective judgments about how students should perform. These judgments are associated with specific points on the NAEP scale that serve to identify boundaries between levels of achievement for each grade — Basic, Proficient, and Advanced. Performance at the Basic level denotes partial mastery of the knowledge and skills that are fundamental for proficient work. The central level, called Proficient, represents solid academic performance. Students reaching this level demonstrate competency over challenging subject matter. Performance at the Advanced level signifies superior performance beyond proficient grade-level mastery. In this report, the proportion of students attaining the three achievement levels is presented for both the 1994 and 1992 assessments.

Definitions of the three levels of reading achievement are given in Figure 3.1. Examples of questions at the achievement levels are also provided. The reading passages that accompany these questions can be found in Appendix B. It should be noted that constructed-response questions occur at all levels of reading achievement.

Appendix C briefly describes the process of gathering expert judgments about Basic, Proficient, and Advanced performance — as defined by NAGB policy — on each reading item, combining the various judgments on the various items and mapping them onto the scale, and setting the scale score cutpoints for reporting purposes based on these levels.

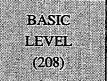




FIGURE 3.1

Levels of Reading Achievement at Grade 4

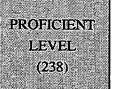
The following achievement level descriptions focus on the interaction of the reader, the text, and the context. They provide some specific examples of reading behaviors that should be familiar to most readers of this document. The specific examples are not inclusive; their purpose is to help clarify and differentiate what readers performing at each achievement level should be able to do. While a number of other reading achievement indicators exist at every level, space and efficiency preclude an exhaustive listing. The achievement levels are cumulative from Basic to Proficient to Advanced. One level builds on the previous levels such that knowledge at the Proficient level presumes mastery of the Basic level, and knowledge at the Advanced level presumes mastery of both the Basic and Proficient levels.



Fourth-grade students performing at the **Basic level** should demonstrate an understanding of the overall meaning of what they read. When reading texts appropriate for fourth graders, they should be able to make relatively obvious connections between the text and their own experiences and extend the ideas in the text by making simple inferences.

For example, when reading literary text, Basic-level students should be able to tell what the story is generally about — providing details to support their understanding — and be able to connect aspects of the stories to their own experiences.

When reading informational text, Basic-level fourth graders should be able to tell what the selection is generally about or identify the purpose for reading it; provide details to support their understanding; and connect ideas from the text to their background knowledge and experiences.



Fourth-grade students performing at the **Proficient level** should be able to demonstrate an overall understanding of the text, providing inferential as well as literal information. When reading text appropriate to fourth grade, they should be able to extend the ideas in the text by making inferences, drawing conclusions, and making connections to their own experiences. The connection between the text and what the student infers should be clear.

Specifically, when reading literary text, Proficient-level fourth graders should be able to summarize the story, draw conclusions about the characters or plot, and recognize relationships such as cause and effect.

When reading informational text, Proficient-level students should be able to summarize the information and identify the author's intent or purpose. They should be able to draw reasonable conclusions from the text, recognize relationships such as cause and effect or similarities and differences, and identify the meaning of the selection's key concepts.

ADVANCED LEVEL (268) Fourth-grade students performing at the **Advanced level** should be able to generalize about topics in the reading selection and demonstrate an awareness of how authors compose and use literary devices. When reading text appropriate to fourth grade, they should be able to judge texts critically and, in general, give thorough answers that indicate careful thought.

Specifically, when reading literary text, Advanced-level students should be able to make generalizations about the point of the story and extend its meaning by integrating personal and other reading experiences with the ideas suggested by the text. They should be able to identify literary devices such as figurative language.

When reading informational text, Advanced-level fourth graders should be able to explain the author's intent by using supporting material from the text. They should be able to make critical judgments of the text (including its form and content) and explain their judgments clearly.





Levels of Reading Achievement at Grade 4

The following questions were selected as examples of the types of questions that students at each of the three achievement levels can respond to effectively. The example questions were selected from the 1992 or 1994 NAEP reading assessments. These questions are based on the stories "Sybil Sounds the Alarm" and "Hungry Spider and the Turtle," which are shown in their entirety in Appendix B. "Sybil Sounds the Alarm" is a fictional account of a historical event that describes the courage of a young colonial girl in riding her horse to warn of the approaching British army. "Hungry Spider and the Turtle" is a fable that presents a humorous portrayal of two characters and the jokes they play on each other. Both stories were used to assess reading for literary experience.

For the multiple-choice questions, the correct answer is marked with an asterisk. For the constructed-response questions, a description of acceptable answers is provided. Also shown are the national overall percent correct and the percent correct for the students performing within the interval of the indicated level. For example, students with an average reading proficiency in the range 208-237 are in the Basic *interval*: at or above the cutpoint for the Basic level and below the cutpoint for the Proficient level.

Samples of student responses to these and other constructed-response questions in the NAEP reading assessment appear in the Reading Assessment Redesigned²⁹ report which provides an in-depth look at the assessment materials and tasks. Also, a presentation of sample student responses can be found in the 1994 NAEP Reading Report Card.

BASIC I Example		Sybil Sound	ls the Alarm
Sybil's	father thought that	she	
	_	ous and a good rider toops against the E	British
1992 Overall Per	centage Correct		Percentage Correct:
Nation	71 (1.4)	Nation	75 (2.4)



²⁹ J.A. Langer, J.R. Campbell, S.B. Neuman, I.V.S. Mullis, H.R. Persky, and P.L. Donahue. Reading Assessment Redesigned. (Washington, DC: National Center for Education Statistics, 1995).



Levels of Reading Achievement at Grade 4

	IC LEVEL ple Question	Hungry Spide	r and the Turtle
	Who do you think wo Spider or Turtle? Exp		nd,
			_ _ _ _
Acceptable	responses indicated which	a character would make	—
and provide selection.	d appropriate evidence fr	om the story in support	ort of the ercentage Acceptable
and provide selection.	d appropriate evidence fi	om the story in support	ort of the
and provide selection. 1994 Overall I Nation PROFICE	d appropriate evidence fr	1994 Conditional Partition Nation	ercentage Acceptab

* A. people today recognize and respect Sybil's bravery

B. people were surprised that George Washington honored her

C. the author included minor details

D. heroes are honored more now than they were then





Levels of Reading Achievement at Grade 4

PROFICIE. Example	NT LEVEL Question	Hungry Spider	and the Turtle		
	What do Turtle's actio	ns at Spider's house to	:11		
- - -					
	-	cription of Turtle that coter in a specific part			
1994 Overall Perc	entage Acceptable	1994 Conditional Pe for Proficie			
Nation	41 (1.4)	Nation	64 (3.0)		
	ADVANCED LEVEL Example Question Sybil Sounds the Alarm				
	How does the author s langer of Sybil's ride?	how the excitement ar	nd		
- - -			- - -		
• •	-	cific element of the au			
1992 Overall Perc	entage Acceptable	1992 Conditional Pe			
Nation	44 (1.7)	Nation	83 (4.9)		



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Levels of Reading Achievement at Grade 4

	ED LEVEL Question	Hungry Spider	and the Turtle
]	Think about Spider and Pick someone you know that pand explain how that pander or Turtle.	w, have read about, ovies or on television	- - - -
understanding of story-supported world person of 1994 Overall Per or B	were rated as Essential of the character of Spid character trait and rel r character. centage Essential setter	der or Turtle by providating or linking that to 1994 Conditional P	ding any
Nation	29 (1.3)	Nation	73 (8.6)



Table 3.1 provides the percentage of fourth-grade public school students at or above each achievement level, as well as the percentage of students below the Basic level.

1994, Public School Students

The percentage of public school students in Colorado who were at or above the Proficient level (28 percent) did not differ significantly from that of students across the nation (28 percent).

1992 vs 1994, Public School Students

From 1992 to 1994, there was no significant change in the percentage of public school students in Colorado who attained the Proficient level (25 percent in 1992 and 28 percent in 1994). Similarly, there was no significant change in the percentage of public school students across the nation who attained the Proficient level (27 percent in 1992 and 28 percent in 1994).



TABLE 3.1

Levels of Fourth-Grade Public School Students' Reading Achievement

At or Above	At or Above	At or Above	Below
Advanced	Proficient	Basic	Basic

1992 Public	edicinent project	Perce	entage	
Colorado West Nation	4·(0.6) 5 (0.7) 6 (0.6)	25 (1.4) 24 (1.8) 27 (1.3)	64 (1.6) 56 (1.9) 60 (1.1)	36 (1.6) 44 (1.9) 40 (1.1)
1994 Public Colorado West	6 (0.7) 7 (0.8)	28 (1.5) 28 (2.0)	59 (1.4) 59 (2.2)	41 (1(4) 41 (2:2)
Nation	7 (9.7)	28 (1.2)	59 (1.1)	41 (1.1)

The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Many students in Colorado were unable to meet the Proficient achievement level that represents solid academic performance in reading. Educators and policy makers will need to look to many sources of information and opinion for explanations of these levels of achievement. Among the possible explanations, several factors should not be overlooked. First, students may not be learning enough in school to reach the achievement levels. In 1983, the National Commission on Excellence in Education warned that "the educational foundations of our society are being eroded by a rising tide of mediocrity that threatens our very future." In 1990, the president and the governors committed the nation to six goals for education, the third of which called for American students to "leave grades four, eight and twelve having demonstrated competency in challenging subject matter." Many political leaders of this nation continue to express dissatisfaction with the performance of American students. These NAEP findings confirm that a great many American students are not yet performing at high levels.

Second, some students may not be reaching the higher achievement levels because schools may not be teaching the elements of reading that are included on the NAEP assessment, and because the assessment may not be covering some elements of reading included in the school curriculum. No assessment or test can cover all the different areas of reading that are taught in school. The content coverage of the NAEP reading assessment was set by a consensus approach. Teachers, curriculum specialists, subject matter specialists, local school administrators, parents, and members of the general public actively participated in deciding what are the most important elements of reading to be included in the assessment and for students to learn.³²

Third, the Basic, Proficient, and Advanced achievement levels reflect high standards for the 1994 NAEP reading scale. The establishment of achievement levels depends on securing a set of informed judgments of expectations for student educational achievement and on summarizing the individual ratings into collective judgments. These expectations reflect the Board's policy definitions, which require that students at the central, Proficient level demonstrate "competency over challenging subject matter." The resulting standards are rigorous.

As measures of performance, both average proficiency scores and percentages of students who score at or above the critical achievement levels on the NAEP scale provide a valuable overall depiction of students' reading ability.



National Commission on Excellence in Education. A Nation at Risk. (Washington, DC: U.S. Department of Education, 1983). In 1988, then-Secretary Bennett reported that the "precipitous downward slide of previous decades has been arrested, and we have begun the long climb back to reasonable standards." (p. 1 in American Education: Making it Work. (Washington, DC: U.S. Department of Education, 1988).).

³¹ U.S. Department of Education. America 2000: An Education Strategy. (Washington, DC: U.S. Department of Education, 1991).

NAEP Reading Consensus Project. Reading Framework for the 1992 and 1994 National Assessment of Educational Progress. (Washington, DC: National Assessment Governing Board, U.S. Department of Education, 1994).

CHAPTER 4

Reading Achievement of Fourth-Grade Students by Subpopulations

Assessment results repeatedly show differences in performance for subpopulations of students.³³ This chapter presents achievement level results for subgroups of public school students from Colorado defined by race/ethnicity, type of location, level of parents' education, and gender. Also, results are presented for non-public school students and for the combined public and non-public school populations.

Race/Ethnicity

Table 4.1 provides the percentage of public school students at or above each of the three achievement levels and also the percentage below the Basic level for White, Black, Hispanic, and American Indian students.

1994, Public School Students

In 1994, the percentage of White students in Colorado who attained the Proficient level was greater than that of Black, Hispanic, and American Indian students.

1992 vs 1994, Public School Students

There was no significant change between 1992 and 1994 in the percentage of White, Black, Hispanic, and American Indian public school students in Colorado who performed at or above the Proficient level.



³³ Ina V.S. Mullis, John A. Dossey, Jay R. Campbell, Claudia A. Gentile, Christine O'Sullivan, and Andrew S. Latham. NAEP 1992 Trends in Academic Progress. (Washington, DC: National Center for Education Statistics, 1994).



TABLE 4.1

Levels of Fourth-Grade Public School Students' Reading Achievement by Race/Ethnicity

At or Above	At or Above	At or Above	Below
Advanced	Proficient	Basic	Basic
MEST CONTRACTOR AND CONTRACTOR OF THE CONTRACTOR	and secondary and responding the secondary sec	You it. 1, 1, 1, 100 to broken a revenue dealer of the	on to the minor to the second of

		L			<u> </u>
			Perce	entage	
White					
1992	Colorado West	5 (0:8) 7 (1,0)	30 (1.6) 32 (2.7)	70 (1.6) 66 (2.3)	30 (1.6)
	Nation	8 (1.0)	33 (1.9)	70 (1.5)	34 (2.3) 30 (1.5)
1994	Colorado West	8 (1.0)	35 (1.8)	69 (1.6)	31 (1.6)
	Nation	9 (1:1) 9 (0:9)	36 (2.5) 35 (1.5)	69 (2.1) 69 (1.3)	31 (2.1) 31 (1.3)
Black					
1992	Colorado West	1 (0.9)l 0 (0.2)	12 (3.0)	48 (6.2)	52 (6.2)!
	Nation	1 (0.5)	6 (2.2) 6 (1.4)	26 (4.2) 32 (2.1)	74 (4.2) 68 (2.1)
1994	Colorado	2 (1.8)	11 (5.7)	36 (7.2)	64 (7.2)
	West Nation	1 (1.3)I 1 (0.4)	9 (3.8)1 8 (0.9)	31 (4.1) 30 (2.5)	69 (4.1)! 70 (2.5)
Hispanie	C	` '		00 (23)	.0(2.0)
1992	Colorado	1 (0.5)	13 (1.7)	46 (2.9)	54 (2.9)
	West Nation	2 (1.1) 2 (1.0)	11 (1.5) 14 (1.8)	37 (2.7) 42 (2.1)	63 (2.7) 58 (2.1)
1994	Colorado	1 (0.6)	12 (1.8)	37 (2.7)	63 (2.7)
	West Nation	2 (1.1) 2 (0.7)	10 (2.1) 12 (1.6)	32 (3.8)	68 (3.8)
America	n Indian	E (G.7)	12 (1.0)	33 (2.6)	67 (2.6)
1992	Colorado	3 (2.2)	16 (5.6)	47 (7.1)	53 (7.1)
	West Nation	3(1.9)	16 (4.5)	52 (6.7)	48 (6.7)
1994	Colorado	5 (3.0)	22 (50)	49 (6.0)	51 (6.0)
	West	()	*** (**.*)	()	31 (0.0)
	Nation	3 (2.5)	18 (4.2)	47 (4.7)	53 (4.7)

The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



Type of Location

Table 4.2 presents reading performance by achievement levels for fourth-grade students attending public schools in central cities, urban fringe/large towns, and rural areas/small towns.

1994, Public School Students

In Colorado, the percentage of students attending public schools in central cities who attained the Proficient level was not significantly different from that of students in urban fringe/large towns or rural areas/small towns.

1992 vs 1994, Public School Students

From 1992 to 1994, there was no significant change in the percentage of students attending public schools in central cities, urban fringe/large towns, or rural areas/small towns in Colorado who attained the Proficient level.



TABLE 4.2

Levels of Fourth-Grade Public School Students' Reading Achievement by Type of Location

At or Above

Below

At or Above

		Advanced	Proficient	Basic	Basic
			Perce	ntage	
Central	City				
1992	Colorado	2 (0.7)	19 (1.9)	56 (2.6)	44 (2.6)
	Nation	4 (0.7)	20 (1.4)	51 (2.0)	49 (2.0)
1994	Colorado	5 (1.0)	26 (2.4)	55 (2.8)	45 (2.8)
	Nation	5 (0.9)	22 (2.0)	50 (2.7)	50 (2.7)
Urban F 1992	Fringe/Large Town Colorado Nation	5 (1:1) 7 (12)	29 (2.2) 31 (2.6)	68 (2.1) 65 (2.5)	32 (2.1) 35 (2.5)
1994	Colorado	6 (1.3)	29 (2.5)	61 (2.2)	39 (2.2)
	Nation	8 (1.1)	33 (2.0)	65 (1.8)	35 (1.8)
Rural/Si	mall Town				
1992	Colorado	4 (1.2)	26 (3.2)	66 (3.7)	34 (3.7)
	Nation	5 (1.5)	27 (2.7)	64 (2.5)	36 (2.5)
1994	Colorado	7 (1.8)	29 (2.9)	62 (2.9)	38 (2.9)
	Nation	6 (0.7)	27 (2.0)	59 (2.6)	41 (2.6)

School sample size is insufficient to permit reliable regional results for type of location.

At or Above

The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Parents' Education Level

Table 4.3 shows the reading achievement level results for fourth-grade public school students who reported that at least one parent graduated from college, at least one parent had some education after high school, at least one parent graduated from high school, neither parent graduated from high school, or they did not know their parents' education level.

1994, Public School Students

In Colorado, the percentage of students reporting that at least one parent graduated from college who performed at or above the Proficient level was not significantly different from that of students who reported that at least one parent had some education after high school or at least one parent graduated from high school but was larger than that of students who reported that neither parent graduated from high school or they did not know their parents' education level.

1992 vs 1994, Public School Students

The percentage of public school students in Colorado who reported that at least one parent graduated from college, at least one parent had some education after high school, at least one parent graduated from high school, neither parent graduated from high school, or they did not know their parents' education level who attained the Proficient level did not change significantly between 1992 and 1994.





TABLE 4.3

Levels of Fourth-Grade Public School Students' Reading Achievement by Parents' Level of Education

At or Above	At or Above	At or Above	Below
Advanced	Proficient	Basic	Basic

			Perce	entage	
College 1992	e graduate Colorado West Nation	6 (1.0) 8 (2.2) 10 (1.2)	33 (1.9) 32 (3.4) 36 (2.0)	74 (1.8) 64 (3.3) 68 (1.9)	26 (1.8) 36 (3.3) 32 (1.9)
1994	Colorado West Nation	8 (1.3) 11 (1.7) 11 (1.3)	36 (1.7) 39 (2.8) 37-(1.9)	68 (1.5) 71 (2.3) 68 (1.5)	32 (1.5) 29 (2.3) 32 (1.5)
Some e 1992	ducation after HS Colorado West Nation	5 (17) 9 (32) 6 (23)	33 (4.0) 33 (4.4) 32 (3.6)	73 (3.3) 70 (6.7) 68 (3.3)	27 (3.3) 30 (6.7) 32 (3.3)
1994	Colorado West Nation	7 (22) 9 (26) 9 (21)	33 (4.5) 34 (6.6) 36 (2.9)	65 (3.9) 66 (7.4) 68 (3.2)	35 (3.9) 34 (7.4) 32 (3.2)
High so 1992	chool graduate Colorado West Nation	2 (10) 3 (24) 3 (11)	18 (2.7) 24 (6.5) 21 (2.3)	56 (3.4) 52 (4.8) 56 (2.3)	44 (3.4) 48 (4.8) 44 (2.3)
1994	Colorado West Nation	5 (2.1) 2 (14) 4 (13)	25 (4.2) 20 (5.2) 22 (2.7)	60 (3.4) 52 (5.0) 54 (2.2)	40 (3.4) 48 (5.0) 46 (2.2)
High so 1992	chool non-graduate Colorado West Nation	1 (1.7) 2 (1.8) 1 (1.4)	14 (2.8) 14 (4.0) 11 (2.4)	45 (4.9) 36 (5.1) 38 (3.9)	55 (4.9) 64 (5.1) 62 (3.9)
1994	Colorado West Nation	2 (1.8) 1 (2.0) 1 (1.3)	13 (5.0) - 11 (6.6) - 9 (2.4)	37 (-5.5) 37 (-6.1) 32 (-4.1)	63 (5.5) 63 (6.1) 68 (4.1)
l don't 1992	know Colorado West Nation	2 (0.7) 3 (1.5) 3 (0.8)	17 (1.7) 18 (1.8) 20 (1.6)	54 (2.4) 52 (1.8) 54 (1.7)	46 (2.4) 48 (1.9) 46 (1.7)
1994	Colorado West Nation	3 (0.8) 5 (1.3) 4 (0.7)	19 (2.0) 21 (2.2) 21 (1.7)	49 (2:2) 49 (2:7) 51 (1:4)	51 (2.2) 51 (2.7) 49 (1.4)

The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



, , ,

Gender

Table 4.4 provides the achievement level results by gender for fourth-grade public school students.

1994, Public School Students

The percentage of males in Colorado public schools who attained the Proficient level was smaller than that of females.

1992 vs 1994, Public School Students

There was no significant change in the percentage of males who performed at or above the Proficient level from 1992 to 1994. Similarly, there was no significant change in the percentage of females who were at or above the Proficient level from 1992 to 1994.



TABLE 4.4

Levels of Fourth-Grade Public School Students' Reading Achievement by Gender

At or Above	At or Above	At or Above	Below
Advanced	Proficient	Basic	Basic

	_		Perce	ntage	
Male					
1992	Colorado	3 (0.6)	22 (1.6)	61 (2.1)	39 (2.1)
	West	3 (0.9)	21 (2.3)	51 (2.8)	49 (2.8)
	Nation	5 (0.7)	24 (1.5)	56 (1.7)	44 (1.7)
1994	Colorado	5 (0.8)	25 (2.0)	55 (2.1)	45 (2.1)
	West	6 (1.1)	25 (1.9)	54 (3.0)	46 (3.0)
	Nation	6 (0.8)	24 (1.3)	53 (1.5)	47 (1.5)
Female 1992	Colorado West Nation	5 (0.7) 6 (1.7) 7 (0.9)	29 (1.9) 29 (2.3) 30 (1.5)	67 (2.1) 62 (2.0) 65 (1.5)	33 (2.1) 38 (2.0) 35 (1.5)
1994	Colorado	*7-(1:0)	31 (2.0)	84 (1/8)	36 (1.8)
	West	*9-(1:2)	32 (2.8)	64 (2.6)	36 (2.6)
	Nation	8 (0:9)	32 (1.6)	64 (1/3)	36 (1.3)

The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Reading Achievement of Non-Public School Students

Table 4.5 provides the percentage of fourth-grade students at or above each achievement level for the non-public school and combined populations. Trend results are not presented for non-public school students because they were not included in the 1992 samples.

1994. Non-Public School Students

The percentage of non-public school students in Colorado who were at or above the Proficient level (54 percent) did not differ significantly from* that of students across the nation (43 percent).

Public and Non-Public School Student Comparison

The percentage of non-public school students in Colorado who were at or above the Proficient level (54 percent) was higher than that of public school students (28 percent). For the nation, the percentage of non-public school students who attained the Proficient level (43 percent) was higher than that of their public school counterparts (28 percent).

1994, Public and Non-Public School Students Combined

The percentage of students in Colorado who were at or above the Proficient level (30 percent) did not differ significantly from that of students across the nation (30 percent).



TABLE 4.5

Levels of Fourth-Grade Students' Reading Achievement, Non-Public and Combined Schools

At or Above At or Above Advanced Proficient	At or Above Basic	Below Basic
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,		Perce	ntage	
1994 Non-Public				
Colorado	15 (4:3)	54 (5.2)!	87 (3.1)	13 (3.1)
West Nation	11 (3.2) 13 (1.8)	36 (6.2)! 43 (3.0)	69 (7.7) 77 (2.4)	31 (7.7)i 23 (2.4)
1994 Combined				
Colorado	6 (0.8)	30 (1.5)	61 (1.4)	39 (1.4)
West	7 (0.8)	29 (1.8)	59 (2.1)	41 (2.1)
Nation	7 (0.7)	30 (1.1)	60 (1.0)	40 (1.0)

The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic.



^{*} Although the difference may appear large, recall that "significance" here refers to "statistical significance." (See Appendix A for further discussion.)

PART THREE

Finding a Context for Understanding Students' Reading Proficiency in Public Schools

Information on the reading proficiency of students in Colorado can be better understood and used for improving instruction and setting policy when supplemented with contextual information about schools, teachers, and students.

To gather contextual information, the fourth-grade students participating in the 1994 Trial State Assessment Program, their reading teachers, and the principals or other administrators in their schools were asked to complete questionnaires on instruction, programs, and policies. The student, teacher, and school data help to describe some of the current practices in reading education, to illuminate some of the factors that appear to be related to fourth-grade public school students' reading proficiency, and to provide an educational context for understanding information on student achievement.

It is important to note that the NAEP data cannot establish cause-and-effect links between various contextual factors and students' reading proficiency. However, the results do provide information about important relationships between the contextual factors and proficiency. Through the questionnaires administered to students, teachers, and principals, NAEP is able to provide a broad picture of educational practices prevalent in American schools and classrooms.



In order to improve and refine the NAEP questionnaires, some questions are revised and/or reformatted between assessments. Although this allows for more precise and relevant data collection, it makes the reporting of trend results on those particular questions at best difficult to interpret and at worst, impossible to accomplish. Some of the questions reported on in Chapters 5 through 7 were revised and/or reformatted for the 1994 assessment. In some cases the revisions, though relatively minor, were of sufficient magnitude to make comparisons with 1992 results difficult to interpret. For these questions, the results for both 1992 and 1994 are reported; however, no statistical comparisons were made, and changes from 1992 to 1994 are not discussed. Questions thus affected are indicated in the tables and the reader is cautioned to keep these question changes in mind when comparing 1992 and 1994 results. For other questions, substantial revisions make comparison to 1992 results unwise or impossible. For these questions, no 1992 data are reported.

Part Three consists of four chapters. Chapter 5 discusses policies and practices related to reading. Chapter 6 focuses on instructional approaches — how instruction is delivered. Chapter 7 provides information about teachers, and Chapter 8 examines students' home support for literacy.



CHAPTER 5

Policies and Practices Related to Reading

This chapter focuses on curricular and instructional content issues in Colorado public schools and their relationship to students' reading proficiency. Table 5.1 provides a profile of the reading policies and practices in the public schools with fourth grades in Colorado. Some of the selected results obtained from teacher and school questionnaires reveal:

- According to the public school administrators in Colorado in 1994, 82 percent of the fourth-grade students were in schools where reading was identified as receiving special emphasis. This percentage was not significantly different from that of students across the country (85 percent).
- In 1994, according to their reading teachers, 11 percent of the students in public schools in Colorado were typically taught reading in a class that was grouped by reading ability. The prevalence of ability grouping was higher across the nation (22 percent).





TABLE 5.1 Reading Policies and Practices in Fourth-Grade Public Schools

394 Trial State Assessment			
	Colorado	West	Nation
		Percentage	
Percentage of students in public schools that identified reading as a priority in schoolwide goals and objectives, instruction, workshops, etc.* 1992 1994	75 (4.6)	81 (5.9)	86 (2.8)
	82 (4.1)	76 (7.0)	65 (2.7)
Percentage of students in public schools who are assigned to a reading class by their ability* 1992 1994	17 (3.4)	33 (7.2)	34 (4.1)
	11 (2.1)	14 (5.8)	22 (2.9)
Percentage of students in public schools who stay with the same teacher for all academic subjects 1992 1994	47 (4.9)	61 (8.1)	48 (3.6)
	35 (5.2)	62 (6.2)	57 (4.1)
Percentage of students in public schools who remain with one teacher for most subjects but may have a different teacher for one or two subjects 1992 1994	51 (5.1)	29 (8.7)	42 (3.9)
	62 (5.3)	35 (6.5)	37 (4.0)
Percentage of students in public schools in which a reading curriculum specialist is available to help or advise 1992 1994	48 (3.7)	59 (5.5)	64 (3.2)
	47 (4.1)	57 (6.5)	67 (2.9)
Percentage of students in public schools that use parents as aides in classrooms 1992 1994	98 (1.1)	88 (3.9)	89 (2.6)
	99 (1.1)	93 (3.5)	88 (2.3)

^{*} The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Time for Instructional Activities

To begin to place students' reading proficiency in context, it is useful to examine the extent to which fourth-grade students' reading teachers in Colorado are spending their time on instructional activities. Teachers of the assessed students were asked to report on the amount of time they spent with each class for reading instruction on a typical day. Table 5.2 shows the results for public school students.³⁴

- In 1994, the percentage of students in Colorado who had reading teachers who spent 60 minutes providing reading instruction each day (47 percent) did not differ significantly from that across the nation (44 percent).
- In Colorado in 1994, average reading proficiency was similar for students regardless of how much time their reading teachers spent on reading instruction on a typical day.

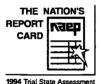


TABLE 5.2

Public School Teachers' Reports on Time Spent Teaching Reading

	Colorado	West	Nation
About how much time do you spend for reading instruction on a typical day?*	Percentage and Proficiency		
45 minutes or less			
1992	27 (2.7)	35 (7.8)	29 (3.2)
	218 (2.2)	215 (4.9)	216 (2.2)
1994	40 (3.4)	38 (4.0)	37 (2.5)
	215 (2.2)	216 (3.6)	215 (2.1)
60 minutes			
1992	49 (2.9)	47 (7.2)	52 (3.4)
	218 (1.7)	213 (3.3)	217 (1.8)
1994	47 (2.9)	43 (4.5)	44 (2.7)
	215 (1.8)	214 (3.0)	217 (1.8)
90 minutes or more			
1992	24 (3.0)	18 (-4.3)	19 (1.8)
	215 (2.2)	209 (3.9)!	213 (2.5)
1994	13 (2.3)	19 (3.0)	19 (1.9)
	207 (4.0)	207 (8.8)	200 (4.0)

* The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic.

For every table in the body of the report that includes estimates of average proficiency, the Data Appendix provides a corresponding table presenting the results for the four subpopulations — race/ethnicity, type of location, parents' education level, and gender — as well as by school type.



Instructional Resources for Reading

Teachers' use of resources is obviously constrained by the availability of those resources. Thus, the assessed students' teachers were asked about the extent to which they were able to obtain all of the instructional materials and other resources they needed. From Table 5.3:

- In 1994, the percentage of fourth-grade students in public schools in Colorado who were being taught by teachers who reported getting all of the resources they needed (13 percent) did not differ significantly from the corresponding percentage of students across the nation (9 percent).
- Furthermore, in 1994, the percentage of public school students in Colorado whose teachers got only some or none of the resources they needed (29 percent) did not differ significantly from* that of students across the nation (35 percent).
- In 1994, public school students in Colorado whose teachers got all of the resources they needed had an average reading proficiency (220) which was not significantly different from* that of students whose teachers got only some or none of the resources they needed (212).
- From 1992 to 1994, there was no significant change in the percentage of students in Colorado whose teachers reported getting all of the resources they needed. There was no significant change in the percentage of students whose teachers got only some or none of the resources they needed during this same time.



^{*} Although the difference may appear large, recall that "significance" here refers to "statistical significance." (See Appendix A for further discussion.)



TABLE 5.3

Public School Teachers' Reports on the Availability of Resources

That State Assessment	Colorado	West	Nation
Which of the following statements is true about how well your school system provides you with the instructional materials and other resources you need to teach your class?	Perc	entage and Profic	iency
get all the resources I need.			
1992	13 (2.1)	9 (2.3)	11 (1.7)
	222 (2.3)	218 (6.7)!	220 (3.1)
1994	13 (2.8)	9 (3.3)	9 (1.7)
	220 (3.2)i	226 (4.7)	225 (3.7)
get most of the resources I need.			
1992	52 (2.9)	51 (5.7)	51 (2.9)
	218 (1.8)	214 (2.4)	218 (1.7)
1994	57 (3.8)	55 (4.4)	55 (2.7)
	214 (1.8)	215 (1.9)	215 (1.6)
get some or none of the resources I need.			
1992	35 (3.2)	40 (5.8)	39 (3.5)
	213 (1.5)	210 (2.6)	213 (1.6)
1994	29 (3.0)	36 (3.6)	35 (2.7)
	212 (2.3)	208 (3.8)	208 (1.6)

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic.



CHAPTER 6

How Is Reading Instruction Delivered?

Effective classroom instruction can help students become thoughtful readers.³⁵ The instructional activities that students complete can also lead them to view reading in particular ways³⁶ and to focus their efforts on developing certain skills and strategies. To provide information about how instruction is delivered in Colorado, fourth-grade students participating in the Trial State Assessment Program and their reading teachers were asked to report on the use of various teaching and learning activities in their reading classrooms.

Instructional Materials for Reading

Basal reading programs are a traditional part of reading instruction in this country. They typically include a compilation of reading passages and exercises, as well as ancillary materials, such as workbooks and tests. These types of programs account for at least two-thirds of all expenditures for reading instruction and are used in more than 95 percent of all school districts through grade 6.³⁷ However, other types of reading programs may utilize trade books, such as story or informational books, that are not necessarily published for the sole purpose of reading instruction. When students encounter a variety of texts, they expand their general understanding of language, as well as their understanding of text and its underlying structures.³⁸ To provide information about instructional materials used for fourth-grade classes, students' reading teachers were asked to report about the type of materials that formed the core of their reading program. Table 6.1 provides the results.

³⁸ V. J. Harris. "Literature-Based Approaches to Reading Instruction," in *Review of Research in Education*. (Washington, DC: American Educational Research Association, 1993).



³⁵ A.P. Sweet. Transforming Ideas for Teaching and Learning to Read. (Washington, DC: Office of Educational Research and Improvement, 1993).

³⁶ J.A. Dole, G.G. Duffy, L.R. Roehler, and P.D. Pearson. "Moving from the Old to the New: Research on Reading Comprehension Instruction," in *Review of Educational Research*, 61. (1991). pp. 239-264.

³⁷ Jeanne S. Chall and James R. Squire. "The Publishing Industry and Textbooks," in R. Barr, M. Kamil, P. Mosenthal, and P.D. Pearson, Eds., Handbook of Reading Research, Volume II. (New York, NY: Longman, 1991).

According to Colorado public school reading teachers, in 1994:

- Students in Colorado whose teachers used both basal and trade books demonstrated an average reading proficiency (214) which did not differ significantly from* that of students whose teachers primarily used basal readers (203).
- The proficiency of Colorado students whose teachers used both basal and trade books (214) was not significantly different from that of students whose teachers primarily used trade books (214).
- The proficiency of Colorado students whose teachers primarily used trade books (214) was not significantly different from* that of students whose teachers primarily used basal readers (203).

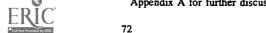


TABLE 6.1

Public School Teachers' Reports on Instructional Materials for Reading

4 Trial State Assessment	Colorado	West	Nation
What type of materials form the core of your reading program?*	Pe	rcentage and Proficie	ncy
Primarily basal 1992	11 (1.8) 215 (3.4)	28 (4.5)	33 (2.6)
1994	4 (1/4) 203 (5:9)	209 (3.8) 5 (1.7) 208 (5.5)	213 (2.2) 18 (2.4) 208 (2.4)
Primarily trade books 1992	37 (3.0) 218 (2.2)	13 (2.9) 204 (11 3)!	13 (2.3)
1994	43 (4.0) 214 (2.0)	29 (6.9) 212 (3.2)i	222 (4.4) 20 (2.8) 218 (2.9)
Both basal and trade books			
1992	45 (3.5) 216 (1.7)	56 (4.7) 219 (2.7)	51 (3.6) 217 (1.4)
1994	49 (4.1) 214 (2.2)	61 (6.2) 215 (2.9)	59 (3.0) 214 (1.7)
Other			
1992	'8 (1.8) 219 (3.2)	3 (1.8)	3 (1.1) 208 (6.3)
1994	4 (1/3) 217 (6.6)	5 (1.7) 205 (7.6)	3 (0.7) 197 (6.1)

* The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



^{*} Although the difference may appear large, recall that "significance" here refers to "statistical significance." (See Appendix A for further discussion.)

THE 1994 NAEP TRIAL STATE ASSESSMENT

Teachers were also asked about their use of specific types of resources that can add depth and variety to the reading program (Table 6.2). Some selected results for public school students reveal that, in 1994:

- In Colorado, 29 percent of the fourth-grade students had reading teachers who used children's newspapers and/or magazines at least once a week. This percentage was not significantly different from that for the nation (30 percent).
- The percentage of Colorado students who had reading teachers who used reading kits at least once a week (16 percent) did not differ significantly from that for students in the nation (21 percent).
- The percentage of students in Colorado who had reading teachers who used computer software for reading instruction at least once a week (22 percent) was not significantly different from that for the nation (24 percent).
- In Colorado, 90 percent of the students had reading teachers who used a variety of books at least once a week. This figure was greater than that for students across the nation (75 percent).
- The percentage of students in Colorado who had reading teachers who used materials from other subject areas at least once a week (74 percent) did not differ significantly from that for the nation (69 percent).





TABLE 6.2

Public School Teachers' Reports on Resources for Reading Instruction

94 Trial State Assessment		Colorado	West	Nation		
How often do you u resources to teach re		Percentage and Proficiency				
Children's newspapers and	d/or magazines					
At least once a week	1992	27 (3.2)	29 (5.3)	32 (3.2)		
	1994	217 (2.5)	214 (5.9)	218 (2.2)		
	1334	29 (3.1) 212 (2.2)	26 (5.4) 214 (4.8)	30 (3.0) 213 (2.3)		
Once or twice a month	1992	42 (2.7)	34 (3.5)	32 (2.4)		
		216 (1.9)	215 (3.6)	213 (2.0)		
	1994	43 (2.9)	41 (4.6)	36 (2.2)		
Never or hardly ever	1992	216 (1.8)	212 (2.5)	212 (1.7)		
Never of figidity ever	1932	32 (3.4) 220 (1.8)	37 (5.8) 211 (3.5)	36 (2.6) 218 (2.1)		
	1994	28 (2.7)	33 (4.6)	35 (2.8)		
Reading kits		214 (2.5)	214 (3.8)	214 (2.2)		
At least once a week	1992	17 (2.8)	20 (4.8)	22 (2.6)		
		215 (2.4)	205 (5.8)	210 (2.5)		
	1994	16 (2.3)	17 (5.2)	21 (2.5)		
0	4000	209 (1.7)	205 (4.9)	206 (2.6)		
Once or twice a month	1992	17 (2.4) 215 (3.3)	17 (3.9) 218 (5.1)	20 (2.4) 218 (2.2)		
	1994	20 (2.8)	14 (4.4)	21 (2.0)		
		215 (2.7)	211 (3.6)	214 (1.9)		
Never or hardly ever	1992	67 (3.2)	63 (5.4)	58 (3.2)		
	1994	218 (1.4)	215 (4.0)	218 (2.2)		
	1994	64 (3.3) 215 (1.9)	69 (7.5) 217 (2.7)	58 (3.0) 216 (1.5)		
Computer software for rea	ding instruction			-10(12)		
At least once a week	1992	15 (2.6)	20 (6.0)	25 (3.0)		
	1994	212 (3.2) 22 (2.7)	213 (7.2) 25 (4.6)	212 (2.4)		
	. 1001	211 (2.3)	214 (42)	211 (2.4)		
Once or twice a month	1992	26 (2.6)	24 (5.1)	23 (2.7)		
		216 (1.6)	208 (3.5)!	216 (2.6)		
	1994	.24 (2.5) 213 (2.6)	31 (4.4)	22 (2.4)		
Never or hardly ever	1992	59 (3.5)	216 (4.1) 56 (7.8)	219 (2.5) 52 (3.8)		
, , , , , , , , , , , , , , , , , , ,		219 (1:7)	216 (2.9)	218 (1.9)		
	1994	55 (3.1)	44 (48)	55 (2.7)		
A variety of books (e.g., no	vels, collections	216 (1.7)	213 (3.3)	213 (1.5)		
of poetry, nonfiction)	70.0, 00000.01.0					
At least once a week	1992	84 (2.7)	66 (5.1)	65 (3.1)		
	1994	218 (1.3)	214 (3.4)	217 (1.8)		
	1334	.90 (1.9) 215 (1.3)	82 (4.5) 215 (2.1)	75 (2.2) 214 (1.4)		
Once or twice a month	1992	12 ('22)	22 (5.9)	26 (3.0)		
		211 (3.7)	217 (31)	216 (2.3)		
	1994	9 (1.9)	16 (4.4)	21 (1.9)		
Never or hardly over	1002	202 (5.1)	209 (4.5)	214 (2.4)		
Never or hardly ever	1992	4 (1.3) 216 (5.2)	12 (3.8) 201 (5.4)!	9 (1:5) 210 (3:3)		
	1994	1 (0.6)	1 (0.7)	5 (1.0)		
		*** (**.*)	()	208 (.3.5)1		

(continued on next page)





TABLE 6.2 (continued)

Public School Teachers' Reports on Resources for Reading Instruction

		Colorado	West	Nation
How often do you u resources to teach re	•	Perc	entage and Profici	ency
Materials from other subject	ct areas			
At least once a week	1992	72 (3.1) 218 (1.5)	55 (4.9) 215 (3.6)	56 (2.5) 218 (1.9)
	1994	74 (2.5) 214 (1.6)	72 (5.2) 213 (2.2)	69 (2.3) 213 (1.3)
Once or twice a month	1992	21 (2.6) 215 (2.2)	28 (4.6) 213 (5.5)	30 (2.5) .213 (2.0)
	1994	23 (2.3) 215 (2.5)	21 (4.7) 215 (4.4)	22 (2.0) 214 (2.1)
Never or hardly ever	1992	7 (1.7) 211 (5.2)!	17 (4.2) 210 (.4.1)!	14 (2.3) 217 (3.2)
	1994	3 (1.1) 208 (10.2)!	6 (2.0) 215 (7.9)I	9 (1.6) 212 (3.9)

^{*} The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.

Instructional Activities

Teachers can nurture students' developing reading ability by providing instructional activities that prepare students for a wide variety of specific reading tasks.³⁹ Effective activities support students' understanding of the text being read and model the ways in which students can control the process of building meaning when reading on their own.⁴⁰ To provide information about the instructional activities in which fourth-grade students are engaged, the students participating in the Trial State Assessment Program and their reading teachers were asked to report on the frequency with which the teachers asked the students to do a variety of activities. The students' and teachers' responses are presented in the three following sections — workbooks, worksheets, and writing; discussions and group activities; and time to read. The students' and teachers' responses sometimes reflect different perceptions of the frequency of some activities.

A.P. Sweet. Transforming Ideas for Teaching and Learning to Read. (Washington, DC: Office of Educational Research and Improvement, 1993).



³⁹ S.G. Paris. "Teaching Children to Guide Their Reading and Learning," in Taffy E. Raphael, Ed., The Contexts of School-Based Literacy. (New York, NY: Random House, 1984). pp. 115-130.

Workbooks, Worksheets, and Writing

Some educators and researchers have suggested that children spend a disproportionate amount of time completing workbook tasks rather than receiving reading instruction or actively constructing their own understandings.⁴¹ Analyses of workbook and worksheet activities reveal that many of these tasks require only a perfunctory level of reading.⁴² Although we do not know what specific activities constitute time spent on workbooks and worksheets, such tasks rarely require students to engage in any extended writing. Writing activities have been found to incite children's interest and involvement in learning about language and to enhance their reading comprehension.⁴³ To examine the use of workbooks, worksheets, and the reading/writing connection, students and their reading teachers were asked about the frequency with which teachers asked students to work in a reading workbook or on a worksheet or to write about something they had read. Table 6.3 provides these results.

In 1994, according to the fourth-grade public school students in Colorado:

- The percentage of students who were asked to work in a reading workbook or on a worksheet almost every day (42 percent) was greater than the percentage of students who were asked to write about something they have read almost every day (26 percent).
- Students who were asked to work in a reading workbook or on a worksheet almost every day demonstrated an average reading proficiency (216) which was not significantly different from that of students who did this activity less than weekly (214).
- The average reading proficiency of students who were asked to write about something they have read almost every day (212) was not significantly different from that of students who were asked to do this less than weekly (214).

And, according to their reading teachers:

• The percentage of students who were asked to work in a reading workbook or on a worksheet almost every day (9 percent) was smaller than the percentage of students who were asked to write about something they have read almost every day (39 percent).



⁴¹ P.D. Pearson, L.R. Roehler, J.A. Dole, and G.G. Duffy. "Developing Expertise in Reading Comprehension," in S.J. Samuels and A.E. Farstrup, Eds., What Research Has to Say About Reading Instruction. (Newark, DE: International Reading Association, 1992); R.C. Anderson, E.H. Hiebert, J.A. Scott, and I.A.G. Wilkinson. Becoming a Nation of Readers: The Report of the Commission on Reading. (U.S. Department of Education: The National Institute of Education, 1985).

⁴² J.R. Campbell, B.A. Kapinus, and A.S. Beatty. *Interviewing Children About Their Literacy Experiences*. (Washington, DC: National Center for Education Statistics, Government Printing Office, 1995); J. Osborn. "Workbooks: Counting, Matching, and Judging," in J. Osborn, P.T. Wilson, and R.C. Anderson Eds., *Reading Education: Foundations for a Literate America*. (Lexington, MA: Lexington Books, 1985).

⁴³ S.D. Miller, T. Adkins, and M.L. Hooper. "Why Teachers Select Specific Literacy Assignments and Students' Reactions to Them," in *Journal of Reading Behavior*, 25(1), 69-93. 1993; D.C. Simmons, E.J. Kameeuni, S. Dickson, D. Chard, B. Gunn, and S. Baker. "Integrating Narrative Reading Comprehension and Writing Instruction for All Learners," in *Multidimensional Aspects of Literacy Research, Theory, and Practice*. (Chicago, IL: National Reading Conference, 1994).

- Students who were asked to work in a reading workbook or on a worksheet almost every day demonstrated an average reading proficiency (203) which was lower than that of students who did this activity less than weekly (217).
- The reading proficiency of students who were asked to write about something they have read almost every day (214) was not significantly different from that of students who were asked to do this less than weekly (215).



TABLE 6.3

Public School Teachers' and Students' Reports on Workbooks, Worksheets, and Writing

54 maj state Assessment	Colo	Colorado		West		ion
	Teacher	Student	Teacher	Student	Teacher	Student
How often do you (does your teacher) do each of the following as a part of reading instruction?		Pe	rcentage a	nd Proficien	ıcy	
Ask students to work in a reading workbook or on a worksheet* Almost every day 1992	10 (2.1)	43 (1.4)	28 (4.1)	45 (1.9)	31 (2.7)	50 (1.6)

the following as a reading instruction	part of	Percentage and Proficiency					
Ask students to work in a workbook or on a worksh	_						
Almost every day	1992	10 (2.1) 218 (3:0)	43 (1.4) 218 (1.4)	28 (4.1) 205 (4.2)	45 (1.9) 215 (1.8)	31 (2.7) 213 (1.8)	50 (1.6) 217 (1.1)
	1994	9 (1.6) 203 (4.7)	42 (1.1) 216 (1.7)	20 (4.4) 207 (5.5)!	46 (1.9) 219 (2.7)	26 (2.6) 207 (2.5)	51 (1.3) 218 (1.3)
At least once a week	1992	42 (3.6) 216 (2.0)	29 (1.1) 218 (1.6)	50 (4.0) 216 (3.5)	31 (1.7) 214 (3.0)	48 (3.4) 216 (1.7)	29 (1.0) 218 (1.7)
	1994	39 (3.5) 213 (2.0)	30 (1.0) 214 (2.1)	47 (5.2) 219 (2.4)	26 (1.1) < 214 (2.5)	48 (2.5) 214 (1.4)	25 (0.9) < 215 (1.4)
Less than weekly	1992	48 (3.6) 218 (1.8)	28 (1.3) 214 (1.7)	22 (4.1) 216 (6.7)	24 (1.1) 207 (2.5)	22 (2.8) 221 (3.3)	21 (1.1) 210 (1.7)
	1994	52 (3.4) 217 (2. 0)	28 (1.2) 214 (1.9)	32 (6.0) 211 (2.9)	28 (1.7) 205 (2.9)	26 (2.9) 217 (1.9)	24 (1.0) 203 (1.9) <
Ask students to write abo something they have read							
Almost every day	1992	39 (2.9) 218 (1.8)	25 (13) 217 (1.6)	29 (2.8) 215 (5.1)	23 (1.7) 205 (2.4)	25 (1.8) 220 (2.7)	23 (0.8) 210 (1.6)
	1994	39 (3.2) 214 (2.1)	26 (1.2) 212 (2.1)	26 (4.1) 212 (4.9)	21 (1.4) 204 (3.3)	30 (24) 212 (25)	
At least once a week	1992	.51 (2.9) 217 (1.5)	35 (1.1) 217 (1.5)	45 (4.0) 212 (3.4)	34 (1.7) 214 (2.2)	49 (2.6) 216 (1.9)	34 (1.0) 217 (1.2)
	1994	51 (3.0) 214 (1.7)	34 (1.1) 217 (1.7)	62 (4.4) 213 (2.1)	33 (1.3) 214 (2.5)	56 (2:3) 213 (1:5)	33 (0.7) 215 (1.4)
Less than weekly	1992	9 (1.9) 213 (4.4)	40 (1.5) 217 (1.5)	26 (3.8) 213 (4.3)	43 (2.4) 216 (2.3)	26 (2.5) 213 (2.4)	43 (1.2) 217 (1.2)
	1994	10 (2.0) 215 (3.4)!	39 (1.2) 214 (1.6)	11 (3.5) 222 (4.4)	46 (1.9) 217 (2.3)	14 (2.0) 215 (2.5)	44 (0.9) 216 (1.3)

^{*} The question associated with this variable that was posed to teachers was reformatted in 1994. No trend comparison tests were conducted on the teacher data.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic.



Discussion and Group Activities

Discussion-related activities are an important part of classroom learning, because they provide opportunities for students to ask questions about things they do not understand or want to know more about. A lack of emphasis on group work or the sharing of different interpretations limits opportunities students have for discovering that their reactions or interpretations may not be the only ones justified by the text.⁴⁴ Furthermore, working in groups and discussing reading provide opportunities for students to develop language and communication skills that are necessary for literacy learning.

To examine the prevalence of discussion-related activities, students and their reading teachers were asked about how frequently the students discussed new or difficult vocabulary, talked with each other about what they have read, or did a group activity or project about what they have read (Table 6.4).

In 1994, according to the fourth-grade students in public schools:

- Less than one third of the students in Colorado (28 percent) were asked to discuss new or difficult vocabulary almost every day. This percentage was smaller than that of students across the nation (32 percent).
- The percentage of students in Colorado who were asked to talk with each other almost every day about what they have read (17 percent) was not significantly different from that of students across the nation (17 percent).
- Less than one fifth of the students in Colorado (14 percent) were asked to do a group activity or project about what they have read almost every day. This figure was not significantly different from that of students across the nation, where 15 percent of the students were asked to do this.

And, according to their reading teachers:

- In Colorado, 54 percent of the students were asked to discuss new or difficult vocabulary almost every day. This percentage was smaller than that of students across the nation (62 percent).
- The percentage of students in Colorado who were asked to talk with each other almost every day about what they have read (37 percent) was not significantly different from that of students across the nation, where 34 percent of the students were asked to do this activity almost every day.
- A small percentage of the students in Colorado (5 percent) were asked to do a group activity or project about what they have read almost every day. This figure was not significantly different from that of students across the nation (5 percent).



⁴⁴ J. Moffett and B. Wagner. "Student Centered Reading Activities," in English Journal, 80. 1991.



TABLE 6.4

Public School Teachers' and Students' Reports on the Frequency of Discussion and Group Activities

Colo	rado	West		Nation		
Teacher	Student	Teacher	Student	Teacher	Student	

		readile	Ctadent	redone	Otagent	reactier	Student
How often do you your teacher) do the following as a reading instruction	each of part of		Pe	rcentage a	nd Proficier	псу	
Discuss new or difficult v	ocabulary*						
Almost every day	1992	57 (2.8)	27 (1.2)	51 (4.3)	30 (1.9)	49 (2.4)	31 (0.9)
		217 (1.7)	218 (1.5)	210 (3.2)	212 (1.8)	214 (1.8)	215 (1.4)
	1994	54 (2.8)	28 (1.1)	64 (4.5)	30 (1.7)	62 (2.5)	32 (0.8)
		213 (1.6)	217 (1.9)	210 (2.7)	214 (2.9)	211 (1.4)	214 (1.6)
At least once a week	1992	39 (2.7)	40 (1.1)	47 (3.7)	38 (1.7)	49 (2.3)	39 (1.0)
		217 (1.7)	219 (1.3)	217 (4.4)	218 (2.3)	218 (1.9)	220 (1.3)
	1994	42 (2.7)	40 (1.0)	34 (5.3)	37 (1.4)	37 (2.6)	36 (0.8)
		214 (1.9)	216 (1.7)	220 (2.4)	217 (2.7)	218 (1.5)	218 (1.4)
Less than weekly	1992	4 (1.2)	33 (1.1)	2 (1.2)	32 (1.2)	2 (0.8)	30 (0.8)
		223 (3.6)	213 (1.5)	()	206 (2.4)	218 (7.6)	
	1994	4 (1.2)	32 (1.1)	2 (1.3)	33 (1.2)	1 (0.5)	31 (0.8)
Ask students to talk with	acab athar	223 (6.7)	209 (2.2)	(:-)	208 (2.1)	*** (***)	207 (1.4)
about what they have rea							
Almost every day	1992	39 (3.2)	(,-)	35 (5.6)	()	32 (2.6)	-(-)
Alliost every day	1332	218 (2.1)	-()	211 (4.2)	-()	215 (2.2)	— ()
	1994	37 (2.8)	17 (0.9)	34 (5.1)	18 (1.6)	34 (2.5)	17 (0.7)
	1334	212 (2.1)	205 (2.3)	213 (3.6)	204 (4.4)	211 (2.2)	202 (2.0)
At least once a week	1992	49 (3.3)	-()	48 (5.9)	-()	49 (3.0)	— (·)
THE ISSUE OF ISSUE A WOOK	.002	216 (1.4)	-(-:)	214 (3.2)	-()	218 (1.7)	-()
	1994	50 (2.9)	32 (1.1)	55 (4.1)	30 (1.3)	48 (2.5)	30 (0.6)
		216 (1.7)	214 (1.8)	213 (2.1)	211 (2.0)	215 (1.5)	213 (1.4)
Less than weekly	1992	11 (16)	-(-3	17 (3.6)	- (-,-)	19 (2.7)	-()
2000 012.1 1100.0,		219 (2.9)	()	214 (5.8)	-()	213 (2.9)	()
	1994	12 (1.9)	50 (1.1)	11 (3.5)	53 (2.0)	18 (1.8)	53 (0.9)
		212 (3.7)	217 (1.6)	216 (7.0)	218 (2.3)	215 (2.9)	218 (1.3)
Ask students to do a grou	up activity						
or project about what the	y have read**						
Almost every day	1992	8 (1.5)	— (·)	4 (1.4)	()	3 (0.8)	— ()
		219 (9.3)	()	(-::)	()	220 (4.5)!	(:)
	1994	5 (1.2)	14 (1.0)	7 (2.5)	15 (0.8)	5 (1.1)	15 (0.6)
		209 (5.4)	201 (2.8)	199 (7.7)	195 (3.2)	207 (5.5)	198 (1.9)
At least once a week	1992	27 (2.8)	()	17 (4.3)	()	21 (2.4)	- ()
		218 (1.8)	— ()	215 (5.7)	- ()	218 (2.3)	()
	1994	28 (2.6)	28 (1.0)	31 (4.2)	23 (1.1)	28 (2.4)	24 (0.7)
		216 (2.1)	212 (1.6)	216 (2.9)	208 (2.8)	214 (2.0)	209 (1.4)
Less than weekly	1992	67 (3.0)	— (-)	80 (4.4)	-()	76 (2.5)	()
		217 (1.4)	— ()	212 (2.5)	()	215 (1.5)	()
	1994	67 (3.1)	58 (1.4)	62 (3.5)	62 (1.2)	67 (2.3)	61 (0.9)
		214 (1.7)	221 (1.5)	214 (2.5)	220 (2.0)	214 (1.3)	220 (1.2)

^{*} The question associated with this variable that was posed to teachers was reformatted in 1994. No trend comparison tests were conducted on the teacher data. ** The questions associated with these variables that were posed to teachers were reformatted in 1994 and the comparable questions posed to students were changed substantially. 1992 data are presented only for teacher responses and no trend comparison tests were conducted. The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



Time to Read

Independent reading continues to be a major contributor to reading fluency.⁴⁵ In contrast to completing workbook pages or computer drills, the reading of books provides practice in the whole act of reading. However, some studies have suggested that students may not be asked to read in school as frequently as is necessary to support literacy development.⁴⁶

Both the fourth-grade students and their reading teachers were questioned about the frequency with which the teachers asked the students to read aloud or read silently, or gave the students time to read books of their own choosing. Table 6.5 provides this information.

According to the fourth-grade public school students in 1994:

- The percentage of students in Colorado who were asked to read aloud almost every day (33 percent) was smaller than that of students across the nation who were asked to read aloud almost every day (45 percent).
- About three quarters of the students (76 percent) were asked to read silently almost every day. This figure was larger than that for the nation (64 percent).
- In Colorado, 61 percent of the students were given time to read books of their own choosing almost every day. This percentage was larger than that of students nationwide (53 percent).

And, according to their reading teachers:

- Less than half of the students in Colorado (44 percent) were asked to read aloud almost every day. This figure was smaller than that of students across the nation, where 57 percent of the students were asked to read aloud almost every day.
- The percentage of students in Colorado who were asked to read silently almost every day (88 percent) was greater than that of students across the nation (74 percent).
- A large majority of the students in Colorado (84 percent) were given time to read books of their own choosing almost every day. This was greater than the percentage of students across the nation (69 percent).



⁴⁵ I. Wilkinson, J.L. Wardrop, and R.C. Anderson. "Silent Reading Reconsidered: Reinterpreting Reading Instruction and Its Effects," in *American Educational Research Journal*, 25(1). (1988). pp. 127-144; C.S. Huck. "Literacy and Literature," in *Language Arts*, 69. (1992). pp. 520-526.

Anderson, E.H. Hiebert, J.A. Scott, and I.A.G. Wilkinson. Becoming a Nation of Readers: The Report of the Commission on Reading. (U.S. Department of Education: The National Institute of Education, 1985); M.A. Foertsch. Reading In and Out of School. (Washington, DC: National Center for Education Statistics, 1992).



TABLE 6.5

Public School Teachers' and Students' Reports on the Frequency of Reading in Class

Colo	rado	West		Nation	
Teacher	Student	Teacher	Student	Teacher	Student
	Pe	rcentage ai	nd Proficien	ю	

		reactier	Student	reactier	Student	reacher	Student
How often do you your teacher) do e the following as a reading instruction	ach of part of		Pe	ercentage a	nd Proficier	ıcy	
Ask students to read alou	ıd**						
Almost every day	1992	38 (2.8)	— ()	47 (5.6)	— ()	47 (2.9)	()
		215 (1.7)	()	207 (4.3)	()	212 (1.6)	()
	1994	44 (3.1)	33 (1.5)	54 (4.5)	43 (2.3)	57 (2.4)	45 (1.2)
		209 (1.9)	212 (1.6)	209 (3.0)	217 (3.2)	210 (1.5)	215 (1.3)
At least once a week	1992	48 (3.0)	- ()	42 (4.7)	— ()	45 (2.5)	- ()
		217 (1.6)	- ()	217 (3.7)	- ()	220 (1.8)	— ()
	1994	40 (3.3)	31 (1.1)	41 (3.8)	28 (1.5)	38 (2.3)	30 (0.8)
1 M	1000	216 (2.0)	215 (1.8)	218 (2.8)	219 (2.8)	217 (1.6)	218 (1.4)
Less than weekly	1992	14 (2.1)	-(-:)	11 (4.4)	- ()	8 (1.7)	()
	1994	224 (-3.0)	— (·)	221 (5.5)	— ()	222 (4.1)	()
	1994	16 (2.4) 223 (2.9)	36 (1.5) 219 (2.0)	5 (1.4) 225 (9.2)	29 (1.8) 206 (3.5)	5 (1.1) 228 (5.0)	25 (1.0) 209 (1.9)
Ask students to read sile	ntlv*	220 (2.8)	213 (12.0)	223 (32)	200 (0.3)	220 (0.0):	200 (1.0)
Almost every day	1992	82 (2.6)	73 (1:2)	73 (5.9)	69 (1.7)	75 (2.3)	67 (1.1)
		218 (1.3)	221 (1.1)	215 (2.9)	220 (1.6)	218 (1.8)	221 (1.3)
	1994	88 (1.7)	76 (1.0)	77 (4.7)	65 (1.6)	74 (2.3)	64 (1.1)
		215 (1.4)	221 (1:2)	213 (2.4)	220 (2.4)	214 (1.3)	220 (1.3)
At least once a week	1992	16 (2.4)	18 (1.1)	24 (5.1)	20 (1.5)	23 (2.1)	22 (0.9)
		213 (3.5)	214 (2.0)	209 (5.3)	209 (3.2)	212 (2.2)	213 (1.5)
	1994	11 (-1.6)	15 (0.7)	21 (-4.9)	21 (1.5)	23 (2.3)	23 (0.9)
		210 (2.7)	206 (2.7)	212 (4.9)!	215 (3.1)	210 (2.5)	213 (1.6)
Less than weekly	1992	2 (0.8)	10 (0.5)	4 (1.8)	12 (0.7)	2 (0.5)	11 (0.6)
		*** (**.*)	193 (2.8)	(**.*)	186 (3.6)	207 (5.5)!	193 (2.1)
	1994	0 (0.3)	9 (0.7)	2 (1:1)	14 (0.8)	3 (0.7)	13 (0.5)
		*** (**.*)	185 (4:4)	()	185 (3.5)	209 (7.9)!	188 (1.9)
Give students time to rea							
they have chosen themse	1992		F7 (4 E)		FF (1 W		FF (1 F)
Almost every day	1992	— () — ()	57 (1.5) 222 (1.1)	—() —()	55 (1.8) 221 (1.5)	— () — ()	55 (1.5) 222 (1.3)
	1994	84 (.2.2)	61 (1.3)	81 (4,4)	54 (2.6)	69 (2.5)	53 (1.1)
	.554	214 (1.4)	221 (1.5)	214 (2.3)	220 (2.3)	215 (1.4)	220 (1:1)
At least once a week	1992	— (=·)	27 (1.2)	-()	28 (1.3)	-()	27 (1:1)
THE TOUGHT OFFICE OF THE TOUR	.002	-()	215 (1.6)	_()	210 (3.6)	- ()	214 (1.7)
•	1994	15 (-2.0)	25 (1.0)	16 (3.8)	29 (1.9)	25 (2.4)	29 (0.9)
		218 (2.8)	210 (1.7)	3 (A)	212 (3.3)	210 (2.5)	212 (1.6)
Less than weekly	1992	()	16 (1.0)	-(-)	18 (1.1)	-()	18 (-0.8)
		— (·)	204 (2.2)	-()	197 (3.0)	-()	202 (1.4)
	1994	1 (0.6)	14 (0.8)	3 (1.3)	17 (1.2)	6 (12)	18 (0.7)
		*** (**.*)	203 (3.0)	216 (11.0)	200 W. Co. Co. Co. Co. Co. Co. Co. Co. Co. Co	207 (4.9)	204 (2.3)

^{*} The question associated with this variable that was posed to teachers was reformatted in 1994. No trend comparison tests were conducted on the teacher data. ** The questions associated with these variables that were posed to teachers were reformatted in 1994 and the comparable questions posed to students were changed substantially. 1992 data are presented only for teacher responses and no trend comparison tests were conducted. **** The question associated with this variable that was posed to teachers was changed substantially in 1994. No 1992 data are presented for teacher responses. The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution -- the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



Reading and Use of Libraries

Analysis of schools that have been successful in promoting independent reading suggests that one of the keys is ready access to books.⁴⁷ Libraries can be a major resource in developing students' reading abilities because students can use them as quiet places to read as well as to check out books and to obtain reference information.⁴⁸ Thus, to examine library use, students' reading teachers were asked about the frequency with which they sent or took their reading classes to the library and assigned students to read a book from the library. Table 6.6 provides the results from public school teachers' reports about the frequency of sending fourth-grade students to the library.

• In 1994, almost all of the students in Colorado (92 percent) had reading teachers who sent or took the class to the library at least once a week. This percentage was larger than that of students in the nation whose teachers sent or took the class to the library with the same frequency (86 percent).



TABLE 6.6

Public School Teachers' Reports on Sending Students to the Library

994 Trial State Assessment	Colorado	West	Nation			
How often do you send or take the class to the library?*	Percentage and Proficiency					
At least once a week	92 (2.1)	86 (5.2)	85 (2.7)			
1992	218 (1.3)	215 (2.7)	218 (1.5)			
1994	92 (1.8)	96 (1.1)	86 (1:8)			
	214 (1.4)	215 (1.8)	214 (1:1)			
Once or twice a month	7 (1.8)	12 (4.9)	9 (1.9)			
1992	214 (5.1)!	202 (6.3)!	208 (4.1)			
1994	7 (1.8) 226 (4.3)!	3 (0.8)	9 (1.8) 209 (4.7)			
Never or hardly ever	2 (0.7)	2 (1.3)	5 (1.6)			
1992	(** *)	()	208 (4.3)			
1994	1 (0.4)	2 (0.8)	3 (0.8)			
	(+.7)	(-:-)	202 (7.3)!			

* The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). Percentages may not add to 100 because a very small percentage of teachers reported that there was no library at their school. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



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⁴⁷ R.C. Anderson, E.H. Hiebert, J.A. Scott, and I.A.G. Wilkinson. Becoming a Nation of Readers: The Report of the Commission on Reading. (U.S. Department of Education: The National Institute of Education, 1985).

⁴⁸ K.C. Länce, L. Welborn, and C. Hamilton-Pennel. The Impact of School Library Media Centers on Academic Achievement. (Castle Rock, CO: Hi Willow Research and Publishing, 1993).

Table 6.7 provides the results about public school teachers' reports on the frequency of assigning students to read a book from the library.

• In 1994, about half of the fourth graders in Colorado (53 percent) had reading teachers who assigned reading a book from the library at least once a week. The percentage of students whose teachers assigned reading library books this often was not significantly different* across the nation (47 percent).



TABLE 6.7

Public School Teachers' Reports on Assigning Books from the Library

1957 III di Giale Assessitetti	Colorado -	West	Nation
How often do you assign students to read a book from the library?*	Per	centage and Proficie	ncy
At least once a week	46 (3.1)	52 (6.6)	50 (2.8)
1992	216 (1.5)	212 (2.5)	216 (1.6)
1994	53 (3.5)	53 (6.1)	47 (3.1)
	212 (1.5)	210 (3.1)	212 (1.5)
Once or twice a month	2.2(12)	£,0 (0.1)	2(2,12)
1992	32 (3.3)	30 (4.4)	31 (2.7)
	220 (2.0)	220 (5.9)	219 (2.2)
1994	24 (2.8)	30 (4.5)	37 (2.8)
	217 (3.1)	220 (3.2)	215 (2.0)
Never or hardly ever			
1992	22 (2.9)	18 (4.7)	19 (2.3)
	216 (3.0)	206 (5.1)I	213 (2.6)
1994	23 (2.6)	16 (3.0)	17 (1.5)
	215 (2.9)	213 (6.5)	213 (3.2)

* The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). Percentages may not add to 100 because a very small percentage of teachers reported that there was no library at their school. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic.



^{*} Although the difference may appear large, recall that "significance" here refers to "statistical significance." (See Appendix A for further discussion.)

Assessing Progress in Reading

Ten years ago, the authors of *Becoming a Nation of Readers* argued that standardized tests do not always provide a deep assessment of reading comprehension and should be supplemented with observations of reading fluency, critical analysis of lengthy reading selections, and measures of the amount of independent reading and writing done by children.⁴⁹

Over the last decade, reforms in classroom assessment have been called for at numerous levels. Many educators have begun to utilize assessment methods that are more instructionally-relevant and performance based.⁵⁰ At the same time, policy makers and the interested public have called for educational assessments that measure the more integrative, complex abilities that are associated with advanced achievement.⁵¹

Fourth-grade students' reading teachers were asked a series of questions to report on how often they used different types of assessment measures — including multiple-choice tests, longer extended constructed-response questions, and reading portfolios — to assess student progress in reading. The use of reading portfolios⁵² is an emerging assessment technique that may not be widely used in many schools. From Table 6.8:

- In 1994, a small percentage of the fourth-grade public school students in Colorado (5 percent) were assessed with multiple-choice tests once or twice a week. This figure was smaller than that for the nation, where 12 percent of the students were similarly assessed.
- The percentage of students in Colorado public schools in 1994 who were asked to write paragraphs about what they had read once or twice a week (45 percent) was not significantly different from that of students across the nation (39 percent).
- In 1994, less than one fifth of the fourth graders in public schools in Colorado (17 percent) were assessed by using reading portfolios once or twice a week. This percentage was not significantly different from that of students across the nation (15 percent).



R.C. Anderson, E.H. Hiebert, J.A. Scott, and I.A.G. Wilkinson. Becoming a Nation of Readers: The Report of the Commission on Reading. (U.S. Department of Education: The National Institute of Education, 1985).

⁵⁰ S.W. Valencia, E.H. Hiebert, and P.P. Afflerbach, Eds.. Authentic Reading Assessment: Practices and Possibilities. (Newark, DE: International Reading Association, 1994).

⁵¹ G. Wiggins. "Assessment: Authenticity, Context, and Validity," in Phi Delta Kappan. (November, 1993). pp. 200-214.

⁵² S.W. Valencia, E.H. Hiebert, and P.P. Afflerbach, Eds.. Authentic Reading Assessment: Practices and Possibilities.



TABLE 6.8

Public School Teachers' Reports on Assessing Progress in Reading

Colorado West Nation How often do you use each of the Percentage and Proficiency following to assess student progress in reading? Multiple-choice tests* 1992 Once or twice a week 10 (2.7) 7 (2.1) 14 (2.1) 219 (3.5) 198 (3.8) 208 (3.1) 1994 11 (4.9) 5 (1.5) 12 (1.9) 209 (4.7)! 217 (9.3)! 211 (3.1) Once or twice a month 1992 26 (3.2) 39 (6.4) 49 (3.3) 215 (2.3) 214 (4.1) 217 (1.7) 1994 28 (3.0) 36 (4.2) 49 (2.1) 213 (2.3) 213 (2.9) 212 (1.7) Once or twice a year 1992 25 (2.6) 22 (6.2) 15 (2.2) 220 (2.5) 217 (1.7) 220 (5.8)! 1994 22 (2.7) 26 (3.5) 17 (1.5) 217 (3.0) 215 (4.9) 216 (3.2) Never or hardly ever 1992 42 (3.2) 28 (4.7) 21 (3.4) 218 (1.9) 212 (6.0)! 218 (3.5) 26 (4.6) 1994 45 (2.8) 22 (2.3) 214 (2.0) 212 (5.2) 215 (2.7) Paragraph length written responses about what students have read Once or twice a week 1992 — (--.-) — (---) - (-.-) — (-.-) --- (---) 1994 45 (2.9) 37 (6.1) 39 (3.0) 213 (2.0) 213 (.3.4) 215 (1.5) — (--) — (--) Once or twice a month 1992 51 (5.9) 1994 46 (3.0) 44 (2.9) 215 (2.1) 215 (2.4) 214 (1.5) -- (--) -- (--) — (-.) — (-.) Once or twice a year 1992 -- (--) 1994 10 (1.4) 6 (1.3) 11 (2.6) 212 (5.8) 213 (7.2)! 213 (3.4) Never or hardly ever 1992 - (---) - (-.-) (---) - (-.-) 7 (1.4) 1994 3 (0.9) 1 (0.5) 201 (3.8)! 208 (6.8)! Reading portfolios* Once or twice a week 1992 17 (2.1) 17 (3.5) 14 (1.8) 220 (3.1) 211 (5.3)! 217 (4.2) 15 (1.6) 1994 17 (2.3) 14 (3.2) 207 (4.1)! 213 (2.8) 209 (2.4) 1992 25 (3.3) 29 (4.2) Once or twice a month 25 (2.3) 217 (2.1) 221 (2.4) 223 (3.8) 1994 35 (3:0) 35 (4.5) 26 (2.6) 213 (4.4) 214 (1.9) 212 (2.8) Once or twice a year 1992 16 (2.4) 12 (4.3) 13 (2.3) 216 (3.7) 215 (2.4) 208 (17.0Y 1994 18 (2.4) 17 (4.4) 16 (2.0) 217 (2.8) 210 (3.8) 220 (5.4) Never or hardly ever 1992 41 (3.5) 42 (4.9) 47 (3.3) 217 (2.0) 210 (3.7) 214 (1.4) 1994 43 (2.5) 31 (3.1) 35 (4.7) 217 (2.3) 213 (.2.7) 214 (1.8)



^{*} The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted.

⁻⁻ The 1992 data are not reported for this variable due to a rewording of the question for the 1994 assessment. The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.

CHAPTER 7

Who Is Teaching Reading to Fourth Graders?

Preparation and Experience

Many states have begun to raise teacher certification standards and strengthen teacher training programs. In curriculum areas requiring special attention and improvement, such as reading, it is particularly important to have well-qualified teachers. To provide information about the staff who are teaching reading to fourth-grade students, the Trial State Assessment Program gathered details on the educational backgrounds of the teachers of the assessed students. Table 7.1 summarizes fourth-grade public school teachers' responses to questions concerning their academic preparation, certification, and their years of elementary or secondary teaching experience. In 1994:

- The percentage of students who were being taught by reading teachers who reported having at least a master's or education specialist's degree in Colorado (43 percent) was not significantly different from that for the nation (41 percent).
- About half of the students (52 percent) had reading teachers who had
 the highest level of teaching certification that is recognized by Colorado.
 This was smaller than the figure for the nation, where 65 percent of the
 students were taught by reading teachers who were certified at the
 highest level available in their states.
- In Colorado, 23 percent of the students were being taught reading by teachers who had an undergraduate major in English, reading, and/or language arts. This was not significantly different from the percentage of students across the nation who were being taught by reading teachers with the same major (20 percent).
- The percentage of students in Colorado who were taught reading by teachers who had a graduate major in English, reading, and/or language arts (19 percent) was greater than that of students across the nation (13 percent).
- The percentage of students who were being taught reading by teachers who have taught at either the elementary or secondary level for at least 11 years (including part-time teaching) in Colorado (58 percent) was lower than that for students across the nation (67 percent).





TABLE 7.1

Public School Teachers' Reports on Their Fields of Study and Teaching Experience

94 Trial State Assessment		Colorado	West	Nation
What is the highest academic (dearee vou hold?		Percentage	
Bachelor's degree	1992	()	— ()	-()
Master's or specialist's degree	1994 1992	57 (2.9) ()	69 (4.6)	59 (2.7) — ()
Dontomato an acceptancia and dance	1994	43 (2.9)	31 (4.6)	41 (2.7)
Doctorate or professional degree	1992 1994	() 0 (0.0)	— () 0 (0.4)	- () 0 (0.1)
What type of teaching certifica that is recognized by Colorado				
None, temporary, probational,				
provisional, or emergency	1992 1994	- () 5 (12)	- () 8 (2.7)	- () 6 (1.3)
Regular certification but less		3,12,	0(2.7)	0 (1.3)
than the highest available	1992 1994	— ()	-()	-()
Highest certification available	1992	42 (2.9) ()	19 (3.9)	30 (2.2) — (-,-)
	1994	52 (3.2)	76 (3.6)	65 (2.5)
What was your undergraduate	major?			
English, reading, and/or language arts		- ()	-()	()
Education	1994 1992	23 (2.6)	31 (3.1)	20 (1.8)
	1994	() 65 (3.2)	() 50 (6.7)	() 69 (2.8)
Other	1992	— ()	— (·)	()
	1994	13 (2.1)	19 (5.9)	12 (2.1)
What was your graduate major	-			
English, reading, and/or language arts	1992 1994	- () 19 (2.6)	-() 13 (2.7)	- () 13 (1.2)
Education	1992	()	-()	-()
_	1994	52 (3.0)	50 (5.9)	54 (2.7)
Other or no graduate level of study	1992 1994	-()	-()	()
How many years in total have either the elementary or secon	e you taught at	29 (2.2)	37 (5.6)	33 (2.5)
2 years or less	1992	8 (1.7)	8 (1.7)	7 (1.4)
	1994	9 (1.7)	4 (1:8)	7 (1.2)
3-5 years	1992 1994	11 (1.6)	17 (52)	13 (1.9)
5-10 years	1994	16 (2.5) 16 (2.0)	19 (5.5) 12 (2.8)	12 (1.9) 12 (1.4)
-	1994	17 (2.2)	13 (2.3)	14 (1.5)
11-24 years	1992	52 (3.0)	45 (3.6)	51 (2.4)
25 years or more	1994	49 (2.9)	46 (4.7)	48 (2.1)
Ly years or more	1992 1994	14 (2.1) 9 (1.9)	17 (3.8) 17 (3.5)	18 (1.7) 19 (1.9)

⁻⁻⁻ The 1992 data are not reported for this variable due to a rewording of the question for the 1994 assessment.

The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In

population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Professional Development

Teachers were also asked about the amount of time they spent in staff development workshops or seminars dedicated to reading or the teaching of reading during the year immediately preceding the Trial State Assessment Program. From Table 7.2, in 1994:

- In Colorado, 30 percent of the fourth-grade public school students had reading teachers who spent at least 16 hours in staff development workshops or seminars dedicated to reading or the teaching of reading. This figure did not differ significantly from that for the nation (36 percent).
- The percentage of students in Colorado public schools whose reading teachers spent no time on staff development workshops or seminars in reading or the teaching of reading (14 percent) was not significantly different from that of students across the nation (10 percent).

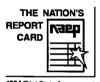


TABLE 7.2

Public School Teachers' Reports on Time Spent in Staff Development Workshops and Seminars

54 Inal State Assessment	Colorado	West	Nation
During the last year, how much time in total have you spent in staff development workshops or seminars in reading or the teaching of reading?*		Percentage	
None			
1992	11 (1.6)	7 (1.9)	9 (1.4)
1994	14 (19)	10 (2.6)	10 (1.3)
One to 15 hours			
1992	66 (2.6)	65 (3.1)	60 (2.9)
1994	56 (2.6)	43 (4.4)	54 (2.7)
16 hours or more			
1992	23 (2.4)	29 (3.0)	31 (2.6)
1994	30 (2.7)	47 (5.5)	35 (2.8)

^{*} The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details).



Finally, teachers were asked to report on whether they had training in specific aspects of reading during the past five years, either in college courses or through workshops. As indicated in Table 7.3, regarding fourth-grade public school students in 1994:

- In Colorado, 79 percent of the students had reading teachers who reported that they had training in teaching critical thinking skills. This was not significantly different from the figure for the nation, where 78 percent of the students had teachers who reported having such training.
- Almost all of the students in Colorado (91 percent) had reading teachers
 who reported that they had training in combining reading and writing.
 This percentage was not significantly different from that for students
 across the nation (89 percent).
- A large majority of the students in Colorado (88 percent) had teachers who reported having training in the whole language approach to teaching reading. This percentage did not differ significantly from that for the nation (85 percent).
- In Colorado, 69 percent of the students had teachers who reported that
 they had training in reading assessment. This figure was not
 significantly different from that for students across the nation, where
 67 percent of the students had teachers who had training in reading
 assessment.



TABLE 7.3 Public School Teachers' Reports on Training in Specific Reading Areas

	Colorado	West	Nation	
During the past five years, have you ever had training in any of the following?	Percentage			
Teaching critical thinking				
1992	85 (2.2)	84 (2.3)	83 (1.8)	
1994	79 (24) <	83 (4.1)	78 (2.4)	
Combining reading and writing				
1992	94 (1.3)	90 (3.0)	89 (1.7)	
1994	91 (1.8)	94 (1.3)	89 (1.7)	
The whole language approach				
to teaching reading				
1992	89 (1:8)	83 (3.5)	80 (2.0)	
1994	88 (.2.0)	92 (1.9) >	85 (2.1)	
Reading assessment				
1992	71 (3.0)	81 (2.7)	75 (1.8)	
1994	69 (2.9)	72 (3.7) <	67 (2.4) <	

The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



CHAPTER 8

Students' Home Support for Literacy

A multitude of home and attitudinal variables may affect students' reading achievement.⁵³ In addition, good readers usually interact with a wide variety of materials on their own, and share their experiences with family and friends.⁵⁴ Thus, it is important to understand students' attitudes toward reading, the extent to which students read on their own, and the degree of home support that is available for reading. To examine these factors, students participating in the Trial State Assessment Program were asked a series of questions about themselves, their parents or guardians, and home factors related to reading.

Reading Outside of School

Because of the increasing concern for students' independent reading habits,⁵⁵ students participating in the Trial State Assessment Program were asked to report on how often they read for fun on their own time (Table 8.1). They also were asked about the number of books they have read on their own outside of school during the month preceding the assessment (Table 8.2), and how often they have taken books out of the school library or public library for their own enjoyment (Table 8.3).

⁵⁵ L.G. Fielding, P.T. Wilson, and R.C. Anderson. "A New Focus on Free Reading: The Role of Trade Books in Reading and Instruction," in T. Raphael and R. Reynolds, Eds., Contexts of Literacy. (New York: Longman, 1990).



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⁵³ J.T. Guthrie and V. Greaney. "Literacy Acts," in R. Barr, M. Kamil, P. Mosenthal, and P.D. Pearson, Eds., Handbook of Reading Research: Volume II. (New York, NY: Longman, 1991).

⁵⁴ A.P. Sweet. Transforming Ideas for Teaching and Learning to Read. (Washington, DC: Office of Educational Research and Improvement, 1993).

The results are provided in Table 8.1 regarding how often fourth-grade public school students reported reading for fun on their own time.

- In 1994, 47 percent of the students in Colorado reported that they read for fun almost every day. This figure was somewhat higher than that for the nation (45 percent).
- In Colorado in 1994, the average reading proficiency of students who read for fun almost every day (221) was higher than that of students who reported that they read for fun once or twice a month or less (201).



TABLE 8.1

Public School Students' Reports on the Frequency of Reading for Fun

	Colorado	West	Nation	
How often do you read for fun on your own time?	Percentage and Proficiency			
Almost every day	44 (1.0)	48 (2.2)	43 (1.0)	
1992	223 (1.2)	218 (2.0)	221 (1.3)	
1994	47 (1.1) > 221 (1.6)	46 (15) 220 (24)	45 (0.7) 221 (1.3)	
Once or twice a week		E20(24)	221(13)	
1992	34 (0.9)	28 (2.0)	32 (0.9)	
	215 (1.4)	217 (2.2)	217 (1.3)	
1994	33 (1.0)	30 (1.8)	31 (0.7)	
	212 (1.6)	211 (2.9)	212 (1.3) <	
Once or twice a month		,,	LIL (1.0)	
1992	11 (0.6)	11 (1.0)	12 (0.5)	
	214 (2.1)	205 (2.8)	208 (1.8)	
1994	10 (0.7)	12 (0.9)	12 (0.5)	
	211 (2.9)	207 (4.1)	206 (2.3)	
Never or hardly ever				
1992	11 (0.6)	14 (1.0)	13 (0.6)	
	201 (1.9)	190 (3.9)	198 (2.0)	
1994	10 (0.7)	12 (0.6)	12 (0.4)	
	193 (2.7)	196 (3.4)	195 (2.0)	

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Concerning how many books were read by fourth-grade public school students in Colorado, Table 8.2 reveals that:

- Less than half of the Colorado students in 1994 (43 percent) read five or more books on their own outside of school in the month preceding the assessment. This figure was not significantly different from that of students across the nation, where 42 percent of the students reported reading the same number of books.
- In 1994 in Colorado, average reading proficiency was lowest for students who read no books on their own outside of school during the month prior to the assessment.



TABLE 8.2

Public School Students' Reports on the Number of Books Read Outside of School in the Past Month

94 Inal State Assessment	Colorado	West	Nation	
During the past month, how many books have you read on your own outside of school?	Percentage and Proficiency			
None				
1992	6 (0.5)	6 (0.8)	7 (0.4)	
	201 (3.5)	186 (5.5)	196 (2.6)	
1994	6 (0.4)	7 (0.7)	9 (0.6)	
	195 (3.9)	190 (5.8)	192 (2.5)	
One or two				
1992	28 (0:9)	26 (1.6)	25 (0.8)	
	215 (1:7)	209 (2.2)	214 (1.6)	
1994	28 (1.2)	.25 (1.4)	26 (0.8)	
	212 (1.6)	210 (3.5)	211 (1.5)	
Three or four				
1992	23 (0.8)	21 (1.0)	24 (0.7)	
	221 (1.5)	215 (2.9)	219 (1.6)	
1994	23 (0.9)	25 (0.8) >	23 (0.6)	
	218 (1.8)	213 (3.4)	216 (1.8)	
Five or more				
1992	43 (1.1)	47 (2.0)	44 (1.0)	
	218 (1.3)	215 (2.1)	217 (1.3)	
1994	43 (1.3)	43 (1.4)	42 (0.8)	
	215 (1.8)	216 (2.5)	215 (1.4)	

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Finally, regarding the frequency with which students took books out of the school library or public library for their own enjoyment, from Table 8.3:

- In Colorado in 1994, 62 percent of the fourth-grade public school students took books out of the library for their own enjoyment at least once a week. This percentage did not differ significantly from that for the nation (63 percent).
- In 1994, public school fourth graders in Colorado who took books out of the library at least once a week had an average reading proficiency (215) that was higher than that of students who never or hardly ever took books out of the library for their own enjoyment (202).



TABLE 8.3 Public School Students' Reports on the Frequency of Taking Books Out of the Library

4 Trial State Assessment	Colorado	West	Nation	
How often do you take books out of the school library or public library for your own enjoyment?	Per	Percentage and Proficiency		
Almost every day				
1992	15 (0.9)	15 (1.2)	15 (0.6)	
	214 (1.8)	211 (2.3)	211 (1.7)	
1994	15 (0.8)	16 (0.8)	16 (0.5)	
	208 (2.9)	205 (3.0)	207 (1.9)	
Once or twice a week				
1992	47 (1.1)	45 (1.6)	48 (0.9)	
	220 (1.4)	216 (2.1)	219 (1.2)	
1994	47 (1:1)	47 (1.3)	47 (0.8)	
	218 (1:4)	220 (1.8)	220 (1.2)	
Once or twice a month				
1992	24 (0.8)	24 (1.5)	22 (0.8)	
	219 (1.5)	216 (2.3)	219 (1.4)	
1994	24 (1.0)	21 (1.8)	21 (0.8)	
	219 (1.9)	216 (3.5)	215 (1.7)	
Never or hardly ever		,		
199 2	14 (0.8)	16 (1.1)	15 (0.7)	
	204 (1.9)	200 (2.4)	202 (1.8)	
1994	14 (0.8)	17 (1.6)	16 (0.7)	
	202 (2.3)	199 (4.3)	198 (2.1)	

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Reading in the Home

The presence of parents or siblings who model and share reading and the availability of reading materials in the home are critical factors in the development of students' appreciation of reading and, ultimately, their comprehension and fluency.⁵⁶ Students participating in the Trial State Assessment Program were asked about the availability of newspapers, magazines, books, and an encyclopedia at home. They were also asked about the frequency with which they discussed things they had read with friends and family.

Average reading proficiency associated with having zero to two, three, or four of these types of materials in the home is shown in Table 8.4. The data for public school fourth-grade students in 1994 reveal that:

- In Colorado, 37 percent of the students reported having all four of these types of materials in the home. This figure was not significantly different from that for the nation (36 percent).
- Students in Colorado who had all four of these types of materials in the home showed an average reading proficiency (224) that was higher than that of students with zero to two types of materials (200).



TABLE 8.4

Public School Students' Reports on Types of Reading Materials in the Home

	Colorado	West	Nati <i>o</i> n	
Does your family have, or receive on a regular basis, any of the following items: more than 25 books, an encyclopedia, newspapers, magazines?	Percentage and Proficiency			
Zero to two types				
1992	28 (1.0)	.33 (1.4)	33 (0.9)	
	206 (1.5)	198 (1.8)	203 (0.9)	
1994	30 (1.3)	33 (1.7)	30 (0.9)	
	200 (2.1) <	193 (2.7)	196 (1.5) <	
Three types		35,211,		
1992	36 (0.9)	32 (1:2)	32 (0.7)	
	217 (1.6)	216 (2:2)	217 (1.5)	
1994	33 (1.1)	33 (1.3)	34 (Q.7)	
	215 (1.6)	217 (2.8)	214 (1.3)	
Four types				
1992	36 (1.2)	35 (2.1)	36 (1.0)	
	224 (1.2)	222 (1.9)	224 (1.4)	
1994	37 (1.7)	34 (1.4)	36 (0.9)	
	224 (1.6)	226 (2.6)	225 (1.2)	
	224 (1.6)	226 (2.6)	225 (1:2	

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.

⁵⁶ L.C. Moll. "Literary Research in Community and Classrooms: A Sociocultural Approach," in B.D. Ruddell and H. Singer, Eds.. Theoretical Models of Reading. (Newark, DE: International Reading Association, 1994). pp. 179-207; B. Rogoff. Apprenticeship in Thinking. (New York, NY: Oxford University Press, 1990); D. Taylor. Family Literacy: Young Children Learning to Read and Write. (Exeter, NH: Heinemann Educational Books, 1983).



Regarding the frequency with which fourth-grade public school students discuss what they read with friends and family, Table 8.5 shows that:

- In 1994 in Colorado, 31 percent of the students discussed with friends or family what they read almost every day. This percentage did not differ significantly from that of students across the nation (28 percent).
- In 1994, the proficiency of students in Colorado who discussed what they read with friends or family almost every day (213) did not differ significantly from that of students that had discussions with friends or family less than weekly (209).



TABLE 8.5

Public School Students' Reports on Talking With Friends and Family About Reading

194 Trial State Assessment	Colorado	West	Nation	
How often do you talk with your friends or family about something you have read?	Percentage and Proficiency			
Almost every day				
1992	28 (-0.8)	26 (1.1)	27 (0.7)	
	215 (-1.7)	211 (2.0)	213 (1.5)	
1994	31 (1.0)	29 (1:3)	28 (0.7)	
	213 (1.7)	208 (2:6)	211 (1.4)	
Once or twice a week		200 (20)	211(114)	
1992	37 (0.9)	36 (1.4)	35 (1.0)	
	223 (1.3)	220 (2.0)	222 (1.2)	
1994	37 (1.0)	35 (1.1)	35 (0.7)	
	220 (1.7)	221 (2.7)	221 (1.4)	
Less than weekly				
1992	36 (0.9)	38 (1.3)	36 (12)	
	212 (1.4)	207 (2.3)	210 (13)	
1994	32 (1.1)	37 (1:2)	37 (0.8)	
	209 (1.9)	209 (2:5)	208 (1.5)	

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



Hours of Television Watched Per Day

Many avid student readers watch a lot of television, while other children neither watch much television nor read.⁵⁷ However, despite these findings, it is generally believed that television viewing has an effect on time given to reading — frequent television viewing limits the amount of time available for other activities such as reading.⁵⁸ Students participating in the Trial State Assessment Program were asked to report on the amount of television they watched each day. Table 8.6 shows that, in Colorado public schools in 1994:

- Relatively few of the fourth-grade students (13 percent) watched six, hours or more of television each day. This was smaller than the figure for the nation, where 22 percent of the students watched this much television.
- Average reading proficiency in Colorado was lowest for students who spent six hours or more watching television each day.

P. Heather. Young People's Reading: A Study of the Leisure Reading of 13-15 Year Olds. (Sheffield, England: University of Sheffield, Center for Research on User Studies, 1981).



⁵⁷ S. Neuman. "The Home Environment and Fifth-grade Students' Leisure Reading," in *Elementary School Journal*, 83. (1986). pp. 333-343.

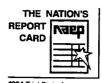


TABLE 8.6

Public School Students' Reports on the Amount of Time Spent Watching Television Each Day

94 Trial State Assessment			·	
	Colorado	West	Nation	
How much television do you usually watch each day?	Percentage and Proficiency			
One hour or less				
1992	24 (1.0)	20 (1,4)	18 (0.8)	
	219 (1.7)	213 (2.7)	219 (1.9)	
1994	26 (1.0)	22 (12)	19 (0.7)	
	218 (2.0)	212 (3.2)	217 (2.2)	
Two hours			- (/	
1992	23 (0.9)	21 (2.0)	21 (0.9)	
	222 (1.7)	220 (3.0)	222 (1.6)	
1994	24 (0.8)	23 (1.2)	21 (0.6)	
	220 (2.2)	218 (2.8)	220 (1.4)	
Three hours				
1992	17 (0.7)	18 (1.4)	19 (0.7)	
	219 (1.7)	217 (2.3)	222 (1.3)	
1994	18 (0.7)	15 (0.8)	18 (0.5) <	
Farm As Con A con	216 (1.8)	221 (3.1)	219 (1.6)	
Four to five hours				
1992	21 (1.0)	21 (2.2)	22 (0.9)	
1004	217 (1.5)	213 (1.7)	215 (1.5)	
1994	18 (0.9)	22 (1.7)	22 (0.8)	
Six hours or more	212 (2.1)	214 (3.9)	215 (1.8)	
1992				
1992	15 (1.0)	20 (1.3)	21 (0.8)	
1994	203 (2.4)	196 (3.3)	198 (1.7)	
1004	13 (1.0)	18 (1.3)	22 (0.7)	
	194 (.2.7)	193 (3.7)	193 (1.6)	

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level.



APPENDIX A

Procedural Appendix

his appendix provides an overview of the technical details of the 1994 Trial State Assessment Program in reading. It includes a discussion of the history of NAEP, the assessment design, the reading framework and objectives upon which the assessment was based, and the procedures used to analyze the results.

A Recent History of NAEP

The National Assessment of Educational Progress (NAEP) is a congressionally mandated project of the National Center for Education Statistics (NCES) that has collected and reported information since 1969 on what American students know and what they can do. It is the nation's only ongoing, comparable, and representative assessment of student achievement. Its assessments are given to representative samples of youths attending both public and non-public schools and enrolled in grades 4, 8, and 12.

In 1988, Congress authorized a new aspect of NAEP that allowed states and territories to participate voluntarily in a trial state assessment, using samples representative of their own students, to provide state-level data comparable to the nation and each of the other participating jurisdictions. Pursuant to that law, in 1990, the mathematics achievement of public school eighth graders was assessed in 40 jurisdictions (states, territories, and the District of Columbia). The results were reported in *The State of Mathematics Achievement: NAEP's 1990 Assessment of the Nation and the Trial Assessment of the States* (Washington, DC: National Center for Education Statistics, 1991). In 1992, the mathematics achievement of fourth- and eighth-grade public school students and the reading achievement of fourth-grade public school students were assessed in 44 jurisdictions. The results of these assessments were reported in *NAEP 1992 Mathematics Report Card for the Nation and the States* (Washington, DC: National Center for Education Statistics, 1993) and *NAEP 1992 Reading Report Card for the Nation and the States* (Washington, DC: National Center for Education Statistics, 1993).



For the 1994 Trial State Assessment Program, the reading achievement of fourth-grade students was again assessed in 44 jurisdictions. Forty jurisdictions involved in the 1992 assessment were also involved in the 1994 assessment. The results for Colorado are reported in this document.

A difference between the 1994 Trial State Assessment and previous Trial State Assessments is the addition of samples of non-public school students, in addition to the public school student samples. The purpose of this addition is to provide overall state-level data for each jurisdiction that is more easily comparable to overall state-level data for the other participating jurisdictions.

Over time there have been many changes in emphasis of NAEP assessment and reporting, both to take advantage of new technologies and to reflect changing trends in education. In 1984, a new technology called Item Response Theory (IRT) made it possible to create "scale scores" for NAEP similar to those the public was accustomed to seeing for the annual Scholastic Achievement Test (SAT). The 1992 reading reports marked NCES's continued attempt to shift to standards-based reporting. The transition was made to report NAEP results by "achievement levels." Achievement levels describe how students should perform relative to a body of content reflected in the NAEP frameworks (i.e., how *much* students should know). The impetus for this shift was grounded in the belief that NAEP data would take on more meaning for the public if they show what proportion of our youth are able to meet standards of performance necessary for a changing world. The 1994 report continues to use the achievement levels initially implemented in 1992.

Assessment Content

The objectives for the 1992 and 1994 assessments were developed through a consensus process managed by the Council of Chief State School Officers, and the items were developed through a similar process managed by Educational Testing Service. The development of the Trial State Assessment Program benefitted from the involvement of hundreds of representatives from State Education Agencies who attended numerous NETWORK meetings; served on committees; reviewed the framework, objectives, and questions; and, in general, provided important suggestions on all aspects of the program.

The reading assessment framework was a four-by-three matrix specifying four reading stances — Initial Understanding, Developing an Interpretation, Personal Reflection and Response, and Demonstrating a Critical Stance — and three reading purposes — reading for literary experience, reading to be informed, and reading to perform a task. However, the reading to perform a task category was not evaluated or reported for grade 4. Figures A.1 and A.2 describe the reading purposes and stances.



100



FIGURE A.1

Description of Reading Purposes

Reading involves an interaction between a specific type of text or written material and a reader who has a purpose for reading that is related to the type of text and the context of the reading situation. The 1992 and 1994 NAEP reading assessments presented three types of text to students representing each of three reading purposes: literary text for literary experience, informational text to gain information, and documents to perform a task. At grade 4, only the first two reading purposes were assessed. Each block in the assessment contains questions that assess only one reading purpose.

Reading for Literary Experience

Reading for literary experience involves reading literary text to explore the human condition, to relate narrative events with personal experience, and to consider the interplay in the selection among emotions, events, and possibilities. Students in the NAEP reading assessment were provided with a wide variety of literary texts such as short stories, poems, fables, historical fiction, science fiction, and mysteries.

Reading to Gain Information

Reading to gain information involves reading informative passages in order to obtain some general or specific information. This often requires a more utilitarian approach to reading that requires the use of certain reading/thinking strategies different from those used for other purposes. In addition, reading to gain information often involves reading and interpreting adjunct aids such as charts, graphs, maps, and tables that provide supplemental or tangential data. Informational passages in the NAEP reading assessment included biographies, science articles, encyclopedia entries, primary and secondary historical accounts, and newspaper editorials.

Reading to Perform a Task

Reading to perform a task involves reading various types of materials for the purpose of applying the information or directions in completing a specific task. The reader's purpose for gaining meaning extends beyond understanding the text to include the accomplishment of a certain activity. Documents requiring students in the NAEP reading assessment to perform a task included directions for creating a time capsule, instructions on how to write a letter to your Senator, a bus schedule, and a tax form. In 1992 and 1994, reading to perform a task was assessed only at grades 8 and 12.





FIGURE A.2

Description of Reading Stances

Readers interact with text in various ways as they use background knowledge and understanding of text to construct, extend, and examine meaning. The NAEP reading assessment framework specified four reading stances to be assessed that represent various interactions between readers and texts. These stances are not meant to describe a hierarchy of skills or abilities. Rather, they are intended to describe behaviors that readers at all developmental levels should exhibit.

Initial Understanding

Initial understanding requires a broad, preliminary construction of an understanding of the text. Questions testing this aspect ask the reader to provide an initial impression or unreflected understanding of what was read. In the 1992 and 1994 NAEP reading assessments, the first question following a passage was usually one testing initial understanding.

Developing an Interpretation

Developing an interpretation requires the reader to go beyond the initial impression to develop a more complete understanding of what was read. Questions testing this aspect require a more specific understanding of the text and involve linking information across parts of the text as well as focusing on specific information.

Personal Reflection and Response

Personal response requires the reader to connect knowledge from the text more extensively with his or her own personal background knowledge and experience. The focus is on how the text relates to personal experience, and questions on this aspect ask the readers to reflect and respond from a personal perspective. For the 1992 and 1994 NAEP reading assessments, personal response questions were typically formatted as constructed-response items to allow for individual possibilities and varied responses.

Demonstrating a Critical Stance

Demonstrating a critical stance requires the reader to stand apart from the text, consider it, and judge it objectively. Questions on this aspect require the reader to perform a variety of tasks such as critical evaluation, comparing and contrasting, applications to practical tasks, and understanding the impact of such text features as irony, humor, and organization. These questions focus on the reader as critic and require reflection on and judgments about how the text is written.



Assessment Design

The 1994 reading assessment was based on a focused balanced incomplete block (BIB) spiral matrix design — a design that enables broad coverage of reading content while minimizing the burden for any one student. The 1994 NAEP reading assessment for grades 4, 8, and 12 contained a total of 153 discrete constructed-response questions — 126 of which were short constructed-response (78 scored using a two-point scoring rubric and 48 using a three-point scoring rubric), and 27 of which were extended constructed-response questions (scored using a four-point scoring rubric). Some of the questions in the assessment were administered at more than one grade. Therefore, the sum of the number of questions administered at each grade does not equal the total number of questions in the assessment.

At grade 4, 84 reading questions were developed for the national assessment, including 37 short constructed-response questions, eight extended constructed-response questions, and 39 multiple-choice questions. These same questions were administered to the Trial State Assessment samples of grade 4 students. A subset of the grade 4 exercise pool consisted of questions that were previously administered in 1992. These "trend" questions made it possible to report the 1992 and 1994 results on a common scale.

The first step in implementing the BIB design required selecting grade-appropriate passages and developing questions to assess the four reading stances specified in the framework. The questions were assembled into units called blocks, with each block designed to be completed in 25 or 50 minutes. At grade 4, eight blocks were designed; they required 25 minutes of student time for completion. The blocks were assembled into assessment booklets so that each booklet contained three background questionnaires—the first consisting of general background questions, the second comprising reading background questions, and the third containing questions about the students' motivation to do well in the assessment—and two blocks of cognitive reading questions. The questions in the first section were read aloud to the students, usually taking about 10 minutes to complete. Students were then given 50 minutes to complete two 25-minute blocks of reading questions, five minutes to complete the second background questionnaire, and three minutes to complete the third background questionnaire. Thus, the assessment required slightly over one hour of student time.

In accordance with the BIB design, the blocks were assigned to the assessment booklets so that there were a total of 16 booklets at grade 4. Blocks of cognitive reading questions were paired with blocks assessing the same purpose for reading as well as blocks assessing other purposes. (Readers should refer to the 1994 NAEP State Technical Report for a more complete discussion of the BIB design.) The booklets were spiraled or interleaved in a systematic sequence so that each booklet appeared an appropriate number of times in the sample. The students within an assessment session were assigned booklets in the order in which the booklets were spiraled. Thus, students in any given session received a variety of different booklets and only a small number of students in the session received the same booklet.



Participation Guidelines

Unless the overall participation rate is sufficiently high for a jurisdiction, there is a risk that the assessment results for that jurisdiction are subject to appreciable nonresponse bias. Moreover, even if the overall participation rate is high, there may be significant nonresponse bias if the nonparticipation that does occur is heavily concentrated among certain types of schools or students. The following guidelines concerning school and student participation rates in the Trial State Assessment Program were established to address four significant ways in which nonresponse bias could be introduced into the jurisdiction sample estimates. The conditions that will result in the publication of a jurisdiction's results are presented below. Also presented below are the conditions that will result in a jurisdiction receiving a notation in the 1994 reports. Note that in order for a jurisdiction's results to be published with no notations, that jurisdiction must satisfy all guidelines.

Guidelines on the Publication of NAEP Results

Guideline 1 — Publication of Public School Results

A jurisdiction will have its public school results published in the 1994 NAEP Reading Report Card if and only if its weighted participation rate for the initial sample of public schools is greater than or equal to 70 percent. Similarly, a jurisdiction will receive a separate NAEP State Report if and only if its weighted participation rate for the initial sample of public schools is greater than or equal to 70 percent.

Guideline 2 — Publication of Non-Public School Results

A jurisdiction will have its non-public school results published in the 1994 NAEP Reading Report Card if and only if its weighted participation rate for the initial sample of non-public schools is greater than or equal to 70 percent AND meets minimum sample size requirements. A jurisdiction eligible to receive a separate NAEP State Report under guideline 1 will have its non-public school results included in that report if and only if that jurisdiction's weighted participation rate for the initial sample of non-public schools is greater than or equal to 70 percent AND meets minimum sample size requirements. If a jurisdiction meets guideline 2 but fails to meet guideline 1, a separate NAEP State Report will be produced containing only non-public school results.

Guideline 3 — Publication of Combined Public and Non-Public School Results

A jurisdiction will have its combined results published in the 1994 NAEP Reading Report Card if and only if both guidelines 1 and 2 are satisfied. Similarly, a jurisdiction eligible to receive a separate NAEP State Report under guideline 1 will have its combined results included in that report if and only if guideline 2 is also met.



Minimum sample size requirements for reporting non-public school data consist of two components: (1) a school sample size of six or more participating schools and (2) an assessed student sample size of at least 62.

Discussion: If a jurisdiction's public or non-public school participation rate for the initial sample of schools is below 70 percent there is a substantial possibility that bias will be introduced into the assessment results. This possibility remains even after making statistical adjustments to compensate for school nonparticipation. There remains the likelihood that, in aggregate, the substitute schools are sufficiently dissimilar from the originals that they are replacing and represent too great a proportion of the population to discount such a difference. Similarly, the assumptions underlying the use of statistical adjustments to compensate for nonparticipation are likely to be significantly violated if the initial response rate falls below the 70 percent level. Guidelines 1, 2, and 3 take this into consideration. These guidelines are congruent with current NAGB policy, which requires that data for jurisdictions that do not have a 70 percent before-substitution participation rate be reported "in a different format" and with the Education Information Advisory Committee (EIAC) resolution, which calls for data from such jurisdictions not to be published.

Guidelines on Notations of NAEP Results

Guideline 4 — Notation for Overall Public School Participation Rate
A jurisdiction which meets guideline 1 will receive a notation if its
weighted participation rate for the initial sample of public schools was
below 85 percent AND the weighted public school participation rate
after substitution was below 90 percent.

Guideline 5 — Notation for Overall Non-Public School Participation Rate

A jurisdiction which meets guideline 2 will receive a notation if its weighted participation rate for the initial sample of non-public schools was below 85 percent **AND** the weighted non-public school participation rate after substitution was below 90 percent.

Discussion: For jurisdictions that did not use substitute schools, the participation rates are based on participating schools from the original sample. In these situations, the NCES standards specify weighted school participation rates of at least 85 percent to guard against potential bias due to school nonresponse. Thus, the first part of these guidelines, referring to the weighted school participation rate for the initial sample of schools, is in direct accordance with NCES standards.



To help ensure adequate sample representation for each jurisdiction participating in the 1994 Trial State Assessment Program, NAEP provided substitutes for nonparticipating public and non-public schools. When possible, a substitute school was provided for each initially selected school that declined participation before November 15, 1993. For jurisdictions that used substitute schools, the assessment results will be based on the student data from all schools participating from both the original sample and the list of substitutes (unless both an initial school and its substitute eventually participated, in which case only the data from the initial school will be used).

The NCES standards do not explicitly address the use of substitute schools to replace initially selected schools that decide not to participate in the assessment. However, considerable technical consideration was given to this issue. Even though the characteristics of the substitute schools were matched as closely as possible to the characteristics of the initially selected schools, substitution does not entirely eliminate bias due to the nonparticipation of initially selected schools. Thus, for the weighted school participation rates including substitute schools, the guidelines were set at 90 percent.

If a jurisdiction meets *either* standard (i.e., 85 percent or higher prior to substitution or 90 percent or higher after substitution) then there will be no notation for the relevant overall school participation rate.

Guideline 6 — Notation for Strata-Specific Public School Participation Rate

A jurisdiction which is not already receiving a notation under guideline 4 will receive a notation if the nonparticipating public schools included a class of schools with similar characteristics, which together accounted for more than five percent of the jurisdiction's total fourth-grade weighted sample of public schools. The classes of schools from each of which a jurisdiction needed minimum school participation levels were determined by degree of urbanization, minority enrollment, and median household income of the area in which the school is located.

Guideline 7 — Notation for Strata-Specific Non-Public School Participation Rate

A jurisdiction which is not already receiving a notation under guideline 5 will receive a notation if the nonparticipating non-public schools included a class of schools with similar characteristics, which together accounted for more than five percent of the jurisdiction's total fourth-grade weighted sample of non-public schools. The classes of schools from each of which a jurisdiction needed minimum school participation levels were determined by type of non-public school (Catholic versus non-Catholic) and location (metropolitan versus non-metropolitan).



Discussion: The NCES standards specify that attention should be given to the representativeness of the sample coverage. Thus, if some important segment of the jurisdiction's population is not adequately represented, it is of concern, regardless of the overall participation rate.

These guidelines address the fact that, if nonparticipating schools are concentrated within a particular class of schools, the potential for substantial bias remains, even if the overall level of school participation appears to be satisfactory. Nonresponse adjustment cells for public schools have been formed within each jurisdiction, and the schools within each cell are similar with respect to minority enrollment, degree of urbanization, and/or median household income, as appropriate for each jurisdiction. For non-public schools, nonresponse adjustment cells are determined by type and location of school.

If more than five percent (weighted) of the sampled schools (after substitution) are nonparticipants from a single adjustment cell, then the potential for nonresponse bias is too great. These guidelines are based on the NCES standard for strata-specific school nonresponse rates.

Guideline 8 — Notation for Overall Student Participation Rate in Public Schools

A jurisdiction which meets guideline 1 will receive a notation if the weighted student response rate within participating public schools was below 85 percent.

Guideline 9 — Notation for Overall Student Participation Rate in Non-Public Schools

A jurisdiction which meets guideline 2 will receive a notation if the weighted student response rate within participating non-public schools was below 85 percent.

Discussion: These guidelines follow the NCES standard of 85 percent for overall student participation rates. The weighted student participation rate is based on all eligible students from initially selected or substitute schools who participated in the assessment in either an initial session or a make-up session. If the rate falls below 85 percent, then the potential for bias due to students' nonresponse is too great.

Guideline 10 — Notation for Strata-Specific Student Participation Rate in Public Schools

A jurisdiction which is not already receiving a notation under guideline 8 will receive a notation if the nonresponding students within participating public schools included a class of students with similar characteristics, who together comprised more than five percent of the jurisdiction's weighted assessable public school student sample. Student groups from which a jurisdiction needed minimum levels of participation were determined by age of student and type of assessment session (unmonitored or monitored), as well as school level of urbanization, minority enrollment, and median household income of the area in which the school is located.



Guideline 11 — Notation for Strata-Specific Student Participation Rate in Non-Public Schools

A jurisdiction which is not already receiving a notation under guideline 9 will receive a notation if the nonresponding students within participating non-public schools included a class of students with similar characteristics, who together comprised more than five percent of the jurisdiction's weighted assessable non-public school student sample. Student groups from which a jurisdiction needed minimum levels of participation were determined by age of student and type of assessment session (unmonitored or monitored), as well as type and location of school.

Discussion: These guidelines address the fact that if nonparticipating students are concentrated within a particular class of students, the potential for substantial bias remains, even if the overall student participation level appears to be satisfactory. Student nonresponse adjustment cells have been formed using the school-level nonresponse adjustment cells, together with the student's age and the nature of the assessment session (unmonitored or monitored). If more than five percent (weighted) of the invited students who do not participate in the assessment are from a single adjustment cell, then the potential for nonresponse bias is too great. These guidelines are based on the NCES standard for strata-specific student nonresponse rates.

Data Analysis and Scales

Once the assessments were conducted and information from the assessment booklets had been compiled in a database, the assessment data were weighted to match known population proportions and adjusted for nonresponse. Analyses were then conducted to determine the percentages of students who gave various responses to each cognitive and background question.

For both the 1992 and 1994 assessments, item response theory (IRT) was used to estimate average reading proficiency for each jurisdiction and for various subpopulations, based on students' performance on the set of reading questions they received. IRT provides a common scale on which performance can be reported for the nation, each jurisdiction, and subpopulations, even when all students do not answer the same set of questions. Furthermore, these IRT scales provide a mechanism for comparing the reading results obtained in 1994 with those from 1992 even though there were some differences between the sets of questions that were administered in the two assessment years. This common scale makes it possible to report on relationships between students' characteristics (based on their responses to the background questions) and their overall performance on the assessment.



The results from the 1994 assessment are reported on scales ranging from 0 to 500 that were created to summarize performance for each of the two reading purposes at grade 4 (reading for literary experience and reading to gain information). The scales summarize examinee performance across all four question types used in the assessment (multiple-choice, dichotomously-scored constructed-response, regular constructed-response, and extended constructed-response). In producing the scales, three distinct IRT models were used. Multiple-choice questions were scaled using the three-parameter logistic model; dichotomously-scored constructed-response questions were scaled using the two-parameter logistic model; the regular and extended constructed-response questions were scaled using a generalized partial-credit model. Each reading purpose scale was based on the distribution of student performance across the grades assessed in the 1992 national assessment (grades 4, 8, and 12) and had a mean of 250 and a standard deviation of 50 for that reference population. A composite scale was created as an overall measure of students' reading proficiency. At grade 4, the composite scale was a weighted average of the two reading purpose scales, where the weight for each reading purpose was proportional to the relative importance assigned to that purpose in the specifications developed by the Reading Objectives Panel (55 percent for the literary experience scale and 45 percent for the gaining information scale).

Questionnaires for Teachers and Schools

As part of the Trial State Assessment Program, questionnaires were given to the reading teachers of assessed students and to the principal or other administrator in each participating school. A Background Panel drafted a set of issues and guidelines and made recommendations concerning the design of these questionnaires. For the 1992 and 1994 assessments, the teacher and school questionnaires focused on five educational areas: instructional content, instructional practices and experiences, teacher characteristics, school conditions and context, and conditions beyond school (i.e., home support, out-of-school activities, and attitudes). Similar to the development of the materials given to students, the guidelines and the teacher and school questionnaires were prepared through an iterative process that involved extensive development, field testing, and review by external advisory groups.

It is important to note that in this report, as in all NAEP reports, the student is always the unit of analysis, even when information from the teacher or school questionnaire is being reported. Having the student as the unit of analysis makes it possible to describe the instruction received by representative samples of fourth-grade students. Although this approach may provide a different perspective from that which would be obtained by simply collecting information from a sample of fourth-grade reading teachers or from a sample of schools, it is consistent with NAEP's goal of providing information about the educational context and performance of students.



The questionnaires for fourth-grade teachers consisted of two parts. The first requested information about the teacher, such as race/ethnicity and gender, as well as academic degrees held, teaching certification, training in reading, and the availability of instructional resources. In the second part, teachers were asked to provide information on each class they taught that included one or more students who participated in the Trial State Assessment Program. The information included, among other things, the extent to which worksheets or workbooks were used and the frequency with which various instructional approaches were employed. Because of the nature of the sampling for the Trial State Assessment Program, the responses to the reading teacher questionnaire do not necessarily represent all fourth-grade reading teachers in a jurisdiction. Rather, they represent the teachers of the particular students being assessed.

An extensive school questionnaire was completed by principals or other administrators in the schools participating in the Trial State Assessment Program. The school questionnaire contained questions about school policies, course offerings, and special priority areas, among other topics.

Estimating Variability

The statistics reported by NAEP (average proficiencies, percentages of students at or above particular achievement levels, and percentages of students responding in certain ways to background questions) are *estimates* of the corresponding information for the population of fourth-grade students in public or non-public schools in a jurisdiction. These estimates are based on the performance of carefully selected, representative *samples* of fourth-grade students from the jurisdiction.

If a different representative sample of students were selected and the assessment repeated, it is likely that the estimates might vary somewhat, and both of these sample estimates might differ somewhat from the value of the mean or percentage that would be obtained if every fourth-grade public or non-public school student in the jurisdiction were assessed. Virtually all statistics that are based on samples (including those in NAEP) are subject to a certain degree of uncertainty. The uncertainty attributable to using samples of students is referred to as sampling error.

Like almost all estimates based on assessment measures, NAEP's total group and subgroup performance estimates are subject to a second source of uncertainty, in addition to sampling error. As previously noted, each student who participated in the Trial State Assessment Program was administered a subset of questions from the total set of questions. If each student had been administered a different, but equally appropriate, set of the assessment questions — or the entire set of questions — somewhat different estimates of total group and subgroup performance might have been obtained. Thus, a second source of uncertainty arises because each student was administered a subset of the total pool of questions.



The measures of uncertainty of the estimates of reading performance statistics reflect both sources of uncertainty discussed above. These measures of the uncertainty are called *standard errors* and are given in parentheses in each of the tables in the report. Standard errors reflecting both sampling and measurement error are reported for estimates of average proficiency and percentage of students at or above particular achievement levels. The standard errors of the other statistics (such as the percentage of students answering a background question in a certain way or the percentage of students in certain racial/ethnic groups) reflect only sampling error. NAEP uses a methodology called the jackknife procedure to estimate-all of these standard errors.

The reader is reminded that, as in all surveys, NAEP results are also subject to other kinds of errors including the effects of necessarily imperfect adjustment for student and school nonresponse and other largely unknowable effects associated with the particular instrumentation and data collection methods used. Nonsampling errors can be attributed to a number of sources: inability to obtain complete information about all selected students in all selected schools in the sample (some students or schools refused to participate, or students participated but answered only certain questions); ambiguous definitions; differences in interpreting questions; inability or unwillingness to give correct information; mistakes in recording, coding, or scoring data; and other errors of collecting, processing, sampling, and estimating missing data. The extent of nonsampling errors is difficult to estimate. By their nature, the impact of such errors cannot be reflected in the data-based estimates of uncertainty provided in NAEP reports.

Drawing Inferences from the Results

One of the goals of the Trial State Assessment Program is to make inferences about the overall population of fourth-grade students in each participating jurisdiction based on the particular sample of students assessed. The results from the sample — taking into account the uncertainty associated with all samples — are used to make inferences about the population. The use of confidence intervals, based on the standard errors, provides a way to make inferences about the population means and percentages in a manner that reflects the uncertainty associated with the sample estimates. An estimated sample mean proficiency ± 2 standard errors approximates a 95 percent confidence interval for the corresponding population quantity. This means that with approximately 95 percent confidence, the average performance of the entire population of interest (e.g., all fourth-grade students in public schools in a jurisdiction) is within ± 2 standard errors of the sample mean.



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As an example, suppose that the average reading proficiency of the students in a particular jurisdiction's fourth-grade sample were 256 with a standard error of 1.2. A 95 percent confidence interval for the population quantity would be as follows:

Mean
$$\pm$$
 2 standard errors = 256 \pm 2 × (1.2) = 256 \pm 2.4 = 256 - 2.4 and 256 + 2.4 = (253.6, 258.4)

Thus, one can conclude with 95 percent confidence that the average proficiency for the entire population of fourth-grade students in public schools in that jurisdiction is between 253.6 and 258.4.

Similar confidence intervals can be constructed for percentages, provided that the percentages are not extremely large (greater than 90 percent) or extremely small (less than 10 percent). For extreme percentages, confidence intervals constructed in the above manner may not be appropriate and procedures for obtaining accurate confidence intervals are quite complicated.

Analyzing Subgroup Differences in Proficiencies and Percentages

In addition to the overall results, this report presents outcomes separately for a variety of important subgroups. Many of these subgroups are defined by shared characteristics of students, such as their gender or race/ethnicity, and the type of location in which their school is situated. Other subgroups are defined by students' responses to background questions. Still other subgroups are defined by the responses of the assessed students' reading teachers to questions in the reading teacher questionnaire.

In Chapter 1 of this report, differences between the jurisdiction and nation were tested for overall reading proficiency and for each of the purposes for reading. In Chapter 2, significance tests were conducted for the overall proficiency for each of the subpopulations. Chapter 3 reports differences between the jurisdiction and nation for the percentage of students at or above the Proficient level, and Chapter 4 contains significance tests for the percentage of students at or above the Proficient level for each of the subpopulations. In Chapters 5-8, comparisons were made across subgroups for responses made to various background questions.



As an example, consider the question: Do students who reported reading three or four books outside of school each month exhibit higher average reading proficiency than students who reported reading no books outside of school?

To answer the question posed above, begin by comparing the average reading proficiency for the two groups being analyzed. If the mean for the group that reported reading three or four books outside of school is higher, it may be tempting to conclude that that group does have higher reading proficiency than the group that reported reading no books outside of school. However, even though the means differ, there may be no real difference in performance between the two groups in the population because of the uncertainty associated with the estimated average proficiency of the groups in the sample. Remember that the intent is to make a statement about the entire population, not about the particular sample that was assessed. The data from the sample are used to make inferences about the population as a whole.

As discussed in the previous section, each estimated sample mean proficiency (or percentage) has a degree of uncertainty associated with it. It is therefore possible that if all students in the population had been assessed, rather than a sample of students, or if the assessment had been repeated with a different sample of students or a different, but equivalent, set of questions, the performances of various groups would have been different. Thus, to determine whether there is a *real* difference between the mean proficiency (or percentage of a certain attribute) for two groups in the population, an estimate of the degree of uncertainty associated with the difference between the proficiency means or percentages of those groups must be obtained for the sample. This estimate of the degree of uncertainty — called *the standard error of the difference* between the groups — is obtained by taking the square of each group's standard error, summing these squared standard errors, and then taking the square root of this sum.

Similar to the manner in which the standard error for an individual group mean or percentage is used, the standard error of the difference can be used to help determine whether differences between groups in the population are real. The difference between the mean proficiency or percentage of the two groups ± 2 standard errors of the difference represents an approximate 95 percent confidence interval. If the resulting interval includes zero, there is insufficient evidence to claim a real difference between groups in the population. If the interval does not contain zero, the difference between groups is statistically significant (different) at the .05 level.



As another example, to determine whether the average reading proficiency of fourth-grade females is higher than that of fourth-grade males in a particular jurisdiction's public schools, suppose that the sample estimates of the mean proficiencies and standard errors for females and males were as follows:

Group	Average Proficiency	Standard Error
Female	259	2.0
Male	255	2.1

The difference between the estimates of the mean proficiencies of females and males is four points (259 - 255). The standard error of this difference is

$$\sqrt{2.0^2 + 2.1^2} = 2.9$$

Thus, an approximate 95 percent confidence interval for this difference is

Mean difference ± 2 standard errors of the difference =

$$4 \pm 2 \times (2.9) = 4 \pm 5.8 = 4 - 5.8$$
 and $4 + 5.8 = (-1.8, 9.8)$

The value zero is within this confidence interval, which extends from -1.8 to 9.8 (i.e., zero is between -1.8 and 9.8). Thus, there is insufficient evidence to claim a difference in average reading proficiency between the populations of fourth-grade females and males in public schools in the jurisdiction.²

Throughout this report, when the mean proficiencies or percentages for two groups were compared, procedures like the one described above were used to draw the conclusions that are presented. If a statement appears in the report indicating that a particular group had higher (or lower) average proficiency than a second group, the 95 percent confidence interval for the difference between groups did not contain zero. When a statement indicates that the average proficiency or percentage of some attribute was not significantly different for two groups, the confidence interval included zero, and thus no difference could be assumed between the groups. The information described in this section also pertains to comparisons between 1992 and 1994. The reader is cautioned to avoid drawing conclusions solely on the basis of the magnitude of the differences. A difference between two groups in the sample that appears to be slight may represent a statistically significant difference in the population because of the magnitude of the standard errors. Conversely, a difference that appears to be large may not be statistically significant.



² The procedure described above (especially the estimation of the standard error of the difference) is, in a strict sense, only appropriate when the statistics being compared come from independent samples. For certain comparisons in the report, the groups were not independent. In those cases, a different (and more appropriate) estimate of the standard error of the difference was used.

The procedures described in this section, and the certainty ascribed to intervals (e.g., a 95 percent confidence interval), are based on statistical theory that assumes that only one confidence interval or test of statistical significance is being performed. However, in each chapter of this report, many different groups are being compared (i.e., multiple sets of confidence intervals are being analyzed). In sets of confidence intervals, statistical theory indicates that the certainty associated with the entire set of intervals is less than that attributable to each individual comparison from the set. To hold the certainty level for the set of comparisons at a particular level (e.g., .95), adjustments (called multiple comparison procedures) must be made to the methods described in the previous section. One such procedure — the *Bonferroni method* — was used in the analyses described in this report to form confidence intervals for the differences between groups whenever sets of comparisons were considered. Thus, the confidence intervals in the text that are based on sets of comparisons are more conservative than those described on the previous pages. A more detailed description of the use of the Bonferroni procedure appears in the 1994 NAEP State Technical Report.

Statistics with Poorly Estimated Standard Errors

The standard errors for means and proportions reported by NAEP are statistics and therefore are subject to a certain degree of uncertainty. In certain cases, typically when the standard error is based on a small number of students, or when the group of students is enrolled in a small number of schools, the amount of uncertainty associated with the standard errors may be quite large. Throughout this report, estimates of standard errors subject to a large degree of uncertainty are followed by the symbol "!". In such cases, the standard errors — and any confidence intervals or significance tests involving these standard errors — should be interpreted cautiously. Further details concerning procedures for identifying such standard errors are discussed in the 1994 NAEP State Technical Report.

Minimum Subgroup Sample Sizes

Results for reading performance and background variables were tabulated and reported for groups defined by race/ethnicity, type of location, parents' education level, and gender. NAEP collects data for six racial/ethnic subgroups (White, Black, Hispanic, Asian, Pacific Islander, and American Indian/Alaskan Native), three types of locations (Central City, Urban Fringe/Large Town, and Rural/Small Town), and five levels of parents' education (Graduated College, Some Education After High School, Graduated High School, Did Not Finish High School, and I Don't Know). In the past, NAEP collected information for only five racial/ethnic subgroups, with Asian and Pacific Islander students combined into one subgroup. In addition, previous NAEP reports reported data for four types of communities, rather than for the three types of location. These types of communities were Advantaged Urban, Disadvantaged Urban, Extreme Rural, and Other types of communities.



In many jurisdictions, and for some regions of the country, the number of students in some of these groups was not sufficiently high to permit accurate estimation of performance and/or background variable results. As a result, data are not provided for the subgroups with very small sample sizes or for the subgroups with students from very few schools. For results to be reported for any Trial State Assessment Program subgroup, at least ten public schools or six non-public schools must be represented in the subgroup. For results to be reported for any National Assessment subgroup, at least five primary sampling units (PSU's) must be represented in the subgroup. In addition, a minimum sample of 62 students per subgroup was required. For statistical tests pertaining to subgroups, the sample size for both groups had to meet the minimum sample size requirements.

The minimum sample size of 62 was determined by computing the sample size required to detect an effect size of .5 total-group standard deviation units with a probability of .8 or greater. The effect size of .5 pertains to the *true* difference between the average proficiency of the subgroup in question and the average proficiency for the total fourth-grade public school population in the jurisdiction, divided by the standard deviation of the proficiency in the total population. If the *true* difference between subgroup and total group mean is .5 total-group standard deviation units, then a sample size of at least 62 is required to detect such a difference with a probability of .8. Further details about the procedure for determining minimum sample size appear in the 1994 NAEP State Technical Report.

Describing the Size of Percentages

Some of the percentages reported in the text of the report are given qualitative descriptions. For example, the number of students being taught by teachers with master's degrees in education might be described as "relatively few" or "almost all," depending on the size of the percentage in question. Any convention for choosing descriptive terms for the magnitude of percentages is to some degree arbitrary. The descriptive phrases used in the report and the rules used to select them are shown on the following page.



Percentage	Description of Text in Report
p = 0	None
0 < p ≤ 8	A small percentage
8 < p ≤ 13	Relatively few
13 < p ≤ 18	Less than one fifth
18 < p ≤ 22	About one fifth
22 < p ≤ 27	About one quarter
27 < p ≤ 30	Less than one third
30 < p ≤ 36	 About one third
36 < p ≤ 47	Less than half
47 < p ≤ 53	About half
53 < p ≤ 64	More than half
64 < p ≤ 71	About two thirds
71 < p ≤ 79	About three quarters
79 < p ≤ 89	A large majority
89 < p < 100	Almost all
p = 100	All

<u>Changes to Student, Teacher, and School Questionnaire Items Between 1992 and 1994</u>

As described in Part Three of this report, some of the questions asked of students, teachers, and schools in 1992 about students' instructional experiences were either reformatted and/or reworded for the 1994 assessment. Although this allowed for more precise and relevant data collection, it was not possible to report trend results on those particular questions. Furthermore, some questions were reworded substantially so as to warrant the reporting of only 1994 results. This section describes the nature of the changes that precluded making trend comparisons, and in some cases precluded reporting the 1992 results. Also, the specific questionnaire items reported in this publication that were reformatted and/or reworded are identified.

Questions for which 1992 and 1994 results are reported, but trend comparisons are not made. One change between the 1992 and 1994 teacher questionnaires at grade 4 was the reformatting of questions from a five-column response format to a single question format. With the five-column format used in 1992, teachers were asked to identify in which period or periods (of up to 5 class periods) they taught students who participated in the NAEP reading assessment. They were then asked to describe the instructional approaches they used for each class period in which they had a student taking part in the assessment. This allowed teachers to describe different instructional approaches that may have been used for up to 5 different reading classes, if in fact their approach varied across groups of students. For 1994, the teacher questionnaire was revised so that teachers were only asked to respond once to each question in terms of their typical approach, or the one they use most often with all of their students. This change was made in the grade 4 teacher questionnaire out of recognition that most teachers at this level teach self-contained classes.



Although in most cases, the wording did not change or changed minimally, it was determined that the reformatting of the questionnaires and the refocusing of teachers' responses from specific approaches for individual class periods to typical approaches across classes, constituted enough change to preclude comparing responses between the two assessments. Because the wording changes were minimal, data are reported from both assessments — but trend comparisons were not conducted. Of the items reported in this publication, the following were either reformatted or were reworded minimally:

1992 Version

Has your school identified any of the following subjects as a priority in the last two years (i.e., does the subject receive special emphasis in schoolwide goals and objectives, instruction, in-service training, etc.)?

- Reading
- Writing
- Mathematics
- Integration of separate subjects

(five-column formatting)

Are students assigned to this class by ability?

- Yes
- No

(five-column formatting)

About how much time do you spend with this class for reading instruction on a typical day?

- 30 minutes
- 45 minutes
- 60 minutes
- 90 minutes or more

1994 Version

Has your school identified any of the following subjects as a priority in the last two years (i.e., does the subject receive special emphasis in schoolwide goals and objectives, instruction, workshops, etc.)?

- Reading
- Mathematics
- Science
- U.S. history
- World geography
- Integration of separate subjects

(single-column formatting)

Are students assigned to this class by ability?

- Yes
- No

(single-column formatting)

About how much time do you spend with this class for reading instruction on a typical day?

- 30 minutes
- 45 minutes
- 60 minutes
- 90 minutes or more



(five-column formatting)

What type of materials form the core of your reading program?

- · Primarily basal
- Primarily trade books
- Both basal and trade books
- Other

(five-column formatting)

How often do you [teacher] use the following resources to teach reading in this class?

- Children's newspapers and/or magazines
- Reading kits
- Computer software for reading instruction
 Computer software for reading instruction
- A variety of books (e.g., novels, collections of poetry, nonfiction)
- Materials from other subject areas

(five-column formatting)

How often do you [teacher] do the following things as a part of reading instruction with this class?

- Ask students to work in a reading workbook or on a worksheet
- Ask students to write about something they have read
- Discuss new or difficult vocabulary
- Ask students to talk with each other about what they have read
- Ask students to do a group activity or project about what they have read
- Ask students to read aloud
- Ask students to read silently

When you [student] read in school, how often does your teacher do each of the following?

- Ask you to read silently
- Give you time to read books you have chosen yourself

(single-column formatting)

What type of materials form the core of your reading program?

- · Primarily basal
- Primarily trade books
- Both basal and trade books
- Other

(single-column formatting)

How often do you [teacher] use the following resources to teach reading in this class?

- Children's newspapers and/or magazines
- · Reading kits
- A variety of books (e.g., novels, collections of poetry, nonfiction)
- Materials from other subject areas

(single-column formatting)

How often do you [teacher] do the following things as a part of reading instruction with this class?

- Ask students to work in a reading workbook or on a worksheet
- Ask students to write about something they have read
- Discuss new or difficult vocabulary
- Ask students to talk with each other about what they have read
- Ask students to do a group activity or project about what they have read
- · Ask students to read aloud
- Ask students to read silently

When you [student] have reading assignments in school, how often does your teacher do each of the following?

- Ask you to read silently
- Give you time to read books you have chosen yourself



(five-column formatting)

How often do you [teacher] do each of the following with the students in this class?

- Send or take the class to the library
- Assign students to read a book from the library

(five-column formatting)

How often do you use each of the following to assess student progress in reading?

- Multiple-choice tests
- Reading portfolios

During the last year, how much time in total have you spent on in-service education in reading or the teaching of reading? Include attendance at professional meetings and conferences, workshops, and courses.

- None
- Less than 6 hours
- 6-15 hours
- 16-35 hours
- More than 35 hours

(single-column formatting)

How often do you [teacher] do each of the following with the students in this class?

- Send or take the class to the library
- Assign students to read a book from the library

(single-column formatting)

How often do you use each of the following to assess student progress in reading?

- Multiple-choice tests
- · Reading portfolios

During the last year, how much time in total have you spent in staff development workshops or seminars in reading or the teaching of reading? Include attendance at professional meetings and conferences, workshops, and college or university courses.

- None
- Less than 6 hours
- 6-15 hours
- 16-35 hours
- More than 35 hours

Questions for which only 1994 results are presented. In other cases, the actual wording of the item was changed sufficiently to preclude trend reporting. Because of the substantial wording changes, 1992 results for these questions are not presented in this report. Of the items reported in this publication, the following were reworded substantially between 1992 and 1994.



1992 Version

When you [student] read in school, how often When you [student] have reading does your teacher do each of the following? assignments in school, how often

- Ask students to talk to each other about what they have read
- Ask students to do a group activity or project about what they have read
- · Ask students to read aloud

(five-column formatting)

How often do you [teacher] do the following things as a part of reading instruction with this class?

• Provide time to have students read books of their own choosing

(five-column formatting)

How often do you [teacher] do each of the following to assess student progress in reading?

 Writing paragraphs about what they have read

What is the highest academic degree you [teacher] hold?

- Less than a bachelor's degree
- Bachelor's degree
- Master's degree
- Educational specialist's or professional diploma based on at least one year's work past master's degree
- Doctorate
- Professional degree (e.g., M.D., LL.B., J.D., D.D.S.)

1994 Version

assignments in school, how often does your teacher do each of the following?

- Ask you to talk to other students about what you have read
- Ask you to do a group activity or project about what you have read
- · Ask you to read aloud

(single-column formatting)

How often do you [teacher] do the following things as a part of reading instruction with this class?

 Give students time to read books they have chosen themselves

(single-column formatting)

How often do you [teacher] do each of the following to assess student progress in reading?

Paragraph length written responses about what students have read

What is the highest academic degree you [teacher] hold?

- High-school diploma
- Associate's degree/vocational certification
- Bachelor's degree
- Master's degree
- Education specialist's or professional diploma based on at least one year's work past master's degree
- Doctorate
- Professional degree (e.g., M.D., LL.B., J.D., D.D.S.)



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What type of teaching certification do you [teacher] have that is recognized by the state in which you teach?

- None, temporary, probational, provisional, or emergency certification
- Regular certification but lower than the highest available certification
- The highest certification available

What were your undergraduate major fields of study?

- Education
- English, reading, and/or language arts
- Mathematics
- Mathematics education
- Other

What were your graduate major fields of study?

- Education
- English, reading and/or language arts
- Mathematics
- Mathematics education
- Other
- No graduate-level study

What type of teaching certification do you [teacher] have that is recognized by the state in which you teach?

- None
- Temporary, probational, provisional, or emergency certification
- Regular certification but less than the highest available
- The highest certification available (permanent or long term)

What were your undergraduate major fields of study?

- Education
- English
- Reading and/or language arts
- Geography
- History
- Social Studies education
- Other

What were your graduate major fields of study?

- Education
- English
- Reading and/or language arts
- Geography
- History
- Social Studies education
- Other
- No graduate-level study

Revisions to the 1992 and 1994 Findings

In April 1995, results from the 1994 National and Trial State Assessment of reading were released as part of the report NAEP 1994 Reading: A First Look.

Subsequently, ETS/NAEP discovered an error in the documentation for the ETS program used to compute NAEP scale score results. The error affected how omitted responses were treated in the IRT scaling of the extended constructed-response questions that received partial-credit scoring. The error affected only those questions; omitted multiple-choice and omitted short constructed responses were treated appropriately.



The conventional treatment in NAEP subjects has been to treat omitted responses (blank responses to a question that are followed by valid responses to questions that appear later in the block) as the lowest possible score category in the production of NAEP scale scores. In contrast, not-reached responses (blank responses that are not followed by any further student responses) are treated as missing data. As a result of the documentation error, for a number of the polytomous constructed-response questions and across several subject areas, all blank responses (both omitted and not-reached responses) to affected questions were treated as missing — an acceptable treatment but not the conventional option of choice for NAEP.

The error affected a number of the NAEP scales constructed since 1992. Specifically, the 1992 and 1994 national and state reading results were affected by the error. Results from these two assessments have been released to the public in a number of NAEP publications. The 1992 data are also available to the public through NCES's secondary-use data files.

It should be noted that this processing error also impacted the location of the National Assessment Governing Board (NAGB) achievement levels in reading, which were set on the 1992 scales.

NCES and ETS felt that the most technically correct plan of action would be to recalculate all affected NAEP scales, no matter how slight the change, and to issue revised results. ETS was therefore instructed by NCES to recalculate all affected scales and to work with American College Testing (ACT) in the recomputation of the achievement level cutpoints.

In recomputing the cutpoints, an additional error was discovered in the procedures used by ACT in 1992 to "map" the achievement level cutpoints onto the NAEP scale. The procedures contained an incorrectly derived formula. ACT used revised procedures with the correct formula to map the achievement level cutpoints for the 1994 history and geography scales. However, the error in the earlier procedures did affect achievement level cutpoints for reading, which were established during the 1992 assessment. The 1992 national and state reading achievement level results were further impacted by this additional error.

A new version of the NAEP 1994 Reading: A First Look report, containing the revised reading results, was issued by NCES in the fall of 1995. The main release of NAEP reading results, including the Reading Report Card, Cross-state Data Compendium, individual state reports, almanacs, technical report, and data files, originally scheduled for the end of September, took place instead in late fall.



While some *small* changes in scale score results were found, the revised numbers for reading are quite similar to the results released in 1992 and to those published in the NCES April release of the reading *First Look* report. More specifically, the revised reading results are *substantively equivalent* to the originally published 1992 results and to the results released in the *First Look*. Regarding the 1992 and 1994 national assessment data, fourth-grade results are about 1 point lower than originally reported, while twelfth-grade results are about 1 point higher. These changes are small and not substantively meaningful. The eighth-grade numbers are essentially unchanged. The revised numbers indicate the same relative distances between reporting subgroups (*i.e.*, race/ethnicity subgroups, male, female, etc.). The significant national score decline at grade 12 is totally unaffected by the revision, as is the absence of significant changes at grades 4 and 8.

With regard to the state assessment data, all jurisdictions were affected to roughly the same degree. Thus, the revised rank ordering of state performance in both 1992 and 1994 is essentially identical to that originally published. Original and revised trend results (i.e., the change in scores between 1992 and 1994) are extremely close for all the jurisdictions. However, in four instances (for Massachusetts, New Jersey, Utah, and California), the small changes engendered by the revision are sufficient to affect the statistical significance of the change. For Massachusetts, New Jersey, and Utah, the revised decline in scores is between 0.3 and 0.5 points smaller than the originally released results — a magnitude of change that was typical across all participants. When rounded to an integer, the original and revised declines for Massachusetts and New Jersey are of identical size and the decline for Utah went from 4 points to 3 points. Despite this similarity, the revised results for these states are no longer statistically significant since the original results were right on the margin of statistical significance. In California, the revised decline in scores is 0.4 points larger than the originally released results and is now statistically significant.

In the results for state assessment achievement levels, there is little difference in the revised and original numbers from an interpretive standpoint. As expected, correction of the ACT error generally results in lower achievement level cutpoints and, hence, slightly higher percentages above the various cutpoints. The revised achievement level results in this technical report and in the reading reports reflect the change in the formula used in setting the achievement levels.

There is one notable aspect of the revised state assessment achievement level results. Prior to the revision, only one state, Arizona, had shown a statistically significant increase from 1992 to 1994 in the percentage of students at the *Advanced* level. Based on the revised results, six more states — Connecticut, Florida, Kentucky, Maine, Mississippi, and Maryland — also showed a statistically significant increase at that level.



APPENDIX B

Reading Stimuli

This appendix contains replications of two of the eight reading passages used as the stimuli at grade 4.



SYBIL SOUNDS THE ALARM

by Drollene P. Brown

A red sky at night does not usually cause wonder. But on the evening of April 26, 1777, the residents of Ludingtons' Mills were concerned. The crimson glow was in the east, not from the west where the sun was setting.

The Ludington family sat at supper, each one glancing now and again toward the eastern window. Sybil, at sixteen the oldest of eight children, could read the question in her mother's worried eyes. Would Henry Ludington have to go away again? As commander of the only colonial army regiment between Danbury, Connecticut, and Peekskill, New York, Sybil's father did not have much time to be with his family.

Thudding hooves in the yard abruptly ended their meal. The colonel pushed back his chair and strode to the door. Although Sybil followed him with her eyes, she dutifully began to help her sister Rebecca clear the table.

The girls were washing dishes when their father burst back into the room with a courier at his side.

"Here, Seth," said the colonel, "sit you down and have some supper. Rebecca, see to our weary friend."

Sybil, glancing over her shoulder, saw that the stranger was no older than she. A familiar flame of indignation burned her cheeks. Being a girl kept her from being a soldier!

Across the room, her parents were talking together in low tones. Her father's voice rose.

"Sybil, leave the dishes and come here," he said.

Obeying quickly, she overheard her father as he again spoke to her mother.





"Abigail, she is a skilled rider. It is Sybil who has trained Star, and the horse will obey her like no other."

"That red glow in the sky," Colonel Ludington said, turning now to his daughter, "is from Danbury. It's been burned by British raiders. There are about two thousand Redcoats, and they're heading for Ridgefield. Someone must tell our men that the lull in the fighting is over; they will have to leave their families and crops again."

"I'll go! Star and I can do it!" Sybil exclaimed. She faced her mother. "Star is sure of foot, and will carry me safely."

"There are dangers other than slip-

pery paths," her mother said, softly. "Outlaws or deserters or Tories or even British soldiers may be met. You must be wary in a way that Star cannot."

A lump rose in Sybil's throat. "I can do it," she declared.

Without another word, Abigail Ludington turned to fetch a woolen cape to protect her daughter from the wind and rain. One of the boys was sent to saddle Star, and Sybil was soon ready. When she had swung up on her sturdy horse, the colonel placed a stick in her hand.

As though reciting an oath, she repeated her father's directions: "Go south by the river, then along Horse



Pond Road to Mohopac Pond. From there, turn right to Red Mills, then go north to Stormville." The colonel stood back and saluted. She was off!

At the first few isolated houses, windows or doors flew open as she approached. She shouted her message and rode on. By the time she reached the first hamlet, all was dark. There were many small houses there at the edge of Shaw's Road, but everyone was in bed. Lights had not flared up at the sound of Star's hoofbeats. Sybil had not anticipated this. Biting her lower lip, she pulled Star to a halt. After considering for a moment, she nudged the horse forward, and riding up to one cottage after another, beat on each door with her stick.

"Look at the sky!" she shouted. "Danbury's burning! All men muster at Ludingtons'!"

At each village or cluster of houses, she repeated the cry. When lights began to shine and people were yelling and moving about, she would spur her horse onward. Before she and Star melted into the night, the village bells would be pealing out the alarm.

Paths were slippery with mud and wet stones, and the terrain was often hilly and wooded. Sybil's ears strained for sounds of other riders who might try to steal her horse or stop her mission. Twice she pulled Star off the path while unknown riders passed within a few feet. Both times, her fright dried her mouth and made her hands tremble.

By the time they reached Stormville, Star had stumbled several times, and Sybil's voice was almost gone. The town's call to arms was sounding as they turned homeward. Covered with mud, tired beyond belief, Sybil could barely stay on Star's back when they rode into their yard. She had ridden more than thirty miles that night.

In a daze, she saw the red sky in the east. It was the dawn. Several hundred men were milling about. She had roused them in time, and Ludington's regiment marched out to join the Connecticut militia in routing the British at Ridgefield, driving them back to their ships on Long Island Sound.

Afterward, General George Washington made a personal visit to Ludingtons' Mills to thank Sybil for her courageous deed. Statesman Alexander Hamilton wrote her a letter of praise.

Two centuries later visitors to the area of Patterson, New York, can still follow Sybil's route. A statue of Sybil on horseback stands at Lake Gleneida in Carmel, New York, and people in that area know well the heroism of Sybil Ludington. In 1978, a commemorative postage stamp was issued in her honor, bringing national attention to the heroic young girl who rode for independence.

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HUNGRY SPIDER AND THE TURTLE

by Harold Courlander and George Herzog

Spider was a hungry one, he always wanted to eat. Everybody in Ashanti knew about his appetite. He was greedy, too, and always wanted more than his share of things. So people steered clear of Spider.

But one day, a stranger came to Spider's habitation out in the back country. His name was Turtle. Turtle was a long way from his home. He had been walking all day in the hot sun, and he was tired and hungry. So Spider had to invite Turtle into his house and offer him something to eat. He hated to do it, but if he didn't extend hospitality to a tired traveler it would get back around the countryside and people would soon be talking about Spider behind his back.

So he said to Turtle:

"There is water at the spring for you to wash your feet in. Follow the trail and you'll get there. I'll get the dinner ready."

Turtle turned and waddled down to the spring with a gourd bowl as fast as he could. He dipped some water from the spring and carefully washed his feet in it. Then he waddled back up the trail to the house. But the trail was dusty. By the time Turtle got back to the house his feet were covered with dirt again.

Spider had the food all set out. It was steaming, and the smell of it made Turtle's mouth water. He hadn't eaten since sunrise. Spider looked disapprovingly at Turtle's feet.

"Your feet are awfully dirty," he said. "Don't you think you ought to wash them before you start to eat?"

Turtle looked at his feet. He was ashamed, they were so dirty. So he turned around and waddled as fast as he could down to the spring again. He dipped some water out of the spring with the gourd bowl and carefully washed himself. Then he scurried as fast as he could back to the house. But it takes a turtle a while to get anywhere. When he came into the house Spider was already eating.

"Excellent meal, isn't it?" Spider said. He looked at Turtle's feet with disapproval. "Hm, aren't you going to wash yourself?"

Turtle looked down at his feet. In his hurry to get back he had stirred up a lot of dust, and his feet were covered with it again.

"I washed them," he said. "I washed them twice. It's your dusty trail that does it."

"Oh," Spider said, "so you are abusing my house now!" He took a big mouthful of food and chewed it up, looking very hurt.

"No," Turtle said, sniffing the food. "I was just explaining."

"Well, run along and wash up so we can get on with the eating," Spider said.

Turtle looked. The food was already half gone and Spider was eating as fast as he could.



Turtle spun around and hurried down to the spring. He dipped up some water in the gourd bowl and splashed it over his feet. Then he scrambled back to the house. This time he didn't go on the trail, though, but on the grass and through the bushes. It took him a little longer, but he didn't get dust all over his feet. When he got to the house he found Spider licking his lips.

"Ah, what a fine meal we had!" Spider said.

Turtle looked in the dish. Everything was gone. Even the smell was gone. Turtle was very hungry. But he said nothing. He smiled.

"Yes, it was very good," he said. "You are certainly good to travelers in your village. If you are ever in my country you may be assured of a welcome."

"It's nothing," Spider said. "Nothing at all."

Turtle went away. He didn't tell other people about the affair at Spider's house. He was quiet about his experience there.

But one day many months later Spider was a long distance from home and he found himself in Turtle's country. He found Turtle at the shore of the lake getting a sunbath.

"Ah, friend Spider, you are far from your village," Turtle said. "Will you have something to eat with me?"

"Yes, that is the way it is when a person is far from home — generosity merits generosity," Spider said hungrily.

"Wait here on the shore and I'll go below and prepare the food," Turtle said. He slipped into the water and went down to the bottom of the lake. When he got there he set out the food to eat. Then he came to the top of the water and said to Spider, who was sitting impatiently on the shore, "All right, everything is ready. Let's go down and eat." He put his head under water and swam down.

Spider was famished. He jumped into the water to follow Turtle. But Spider was very light. He floated. He splashed and splashed, kicked and kicked, but he stayed right there on top of the water. For a long time he tried to get down where Turtle was eating, but nothing happened.

After a while Turtle came up, licking his lips.

What's the matter, aren't you hungry?" he said. "The food is very good. Better hurry." And he went down again.

Spider made one more desperate try, but he just floated. Then he had an idea. He went back to the shore, picked up pebbles and put them in his pockets of his jacket. He put so many pebbles in his pockets that he became very heavy. He was so heavy he could hardly walk. Then he jumped into the water again, and this time he sank to the bottom, where Turtle was eating. The food was half gone. Spider was very hungry. He was just reaching for the food when Turtle said politely:



"Excuse me, my friend. In my country we never eat with our jackets on. Take off your jacket so that we can get down to business."

Turtle took a great mouthful of food and started chewing. In a few minutes there wouldn't be anything left. Spider was aching all over with hunger. Turtle took another mouthful. So Spider wriggled out of his coat and grabbed at the food. But without the pebbles he was so light again that he popped right up to the top of the water.

People always say that one good meal deserves another.

Harold Courlander: "Hungry Spider and the Turtle", from *The Cow-Tail Switch and Other West African Stories*. Copyright © 1987 by Henry Holt and Company, Inc. Reprinted by permission of the publisher.



APPENDIX C

Setting the Achievement Levels

Setting achievement levels is a test-centered method for setting standards on the NAEP assessment that identifies what students should know and should be able to do. The method depends on securing and summarizing a set of judgmental ratings of expectations for student educational performance on the items comprising the NAEP reading assessment. The NAEP proficiency scale is a numerical index of students' performance in reading ranging from 0 to 500. The three achievement levels — Basic, Proficient, and Advanced — are mapped onto the scale for each grade level assessed.

In developing the threshold values for the levels, a broadly constituted panel of judges — including teachers (55 percent), non-teacher educators (15 percent), and the general public (non-educators)¹ (30 percent) — rated a grade-specific item pool using the Board's policy definitions for Basic, Proficient, and Advanced. The policy definitions were operationalized by the judges in terms of specific reading skills, knowledge, and behaviors that were judged to be appropriate expectations for students in each grade, and were in accordance with the current reading assessment framework. The policy definitions are as follows:

Basic

This level denotes partial mastery of the prerequisite knowledge and skills that are fundamental for proficient work at each grade.

Proficient

This level represents solid academic performance for each grade assessed. Students reaching this level have demonstrated competency over challenging subject matter including subject-matter knowledge, application of such knowledge to real world situations, and analytical skills appropriate to the subject matter.

Advanced

This higher level signifies superior performance beyond proficient grade-level mastery at grades 4, 8, and 12.

The judges' operationalized definitions were incorporated into lists of descriptors that represented what borderline students should be able to do at each of the policy levels. The purpose of having panelists develop their own operational definitions of the achievement levels was to ensure that all panelists would have a common understanding of borderline performances and a common set of content-based referents to use during the item-rating process.



Non-educators represented business, labor, government service, parents, and the general public.

For the multiple-choice (MC) and short constructed-response (SCR) items that were scored correct/incorrect, the judges (22 at grade 4) each rated half of the items in the NAEP pool. These items were rated in terms of the expected probability that a student at a borderline achievement level would answer the item correctly, based on the judges' operationalization of the policy definitions and the factors that influence item difficulty. To assist the judges in generating consistently-scaled ratings, the rating process was repeated twice, with feedback. Information on consistency among different judges and on the difficulty of each item² was included in the first repetition (round 2), while information on consistency within each judge's set of ratings was included in the second repetition (round 3). The third round of ratings permitted the judges to discuss their ratings among themselves to resolve problematic ratings. The mean final rating of the judges aggregated across MC and SCR items yielded the threshold values for these items in the percent correct metric. These cut scores were then mapped onto the NAEP scale (which is defined and scored using item response theory, rather than percent correct). For extended constructed-response (ECR) items, judges were asked to select student papers that exemplified performance at the cutpoint of each achievement level. Then for each achievement level, the mean of the scores assigned to the selected papers was mapped onto the NAEP scale in a manner similar to that used for the items scored correct/incorrect. The final cut score for each achievement level was a weighted average of the cut score for the MC and SCR items and the cut score for the ECR items, with the weights being proportional to the information supplied by the two classes of items. The judges' ratings, in both metrics, and their associated errors of measurement are shown below.



TABLE C.1

Cutpoints for Achievement Levels at Grade 4

Level	Mean Percent Correct – MC & SCR (Round 3)		Scale Score*	Standard Error of Scale Score**
Basic	38	2.72	208	3.6
Proficient	62	3.14	238	1.4
Advanced	80	3.48	268	6.1

^{*} Scale score is derived from a weighted average of the mean percent correct (for MC and SCR items) and the mean paper rating for the ECR items after both were mapped onto the NAEP scale.



^{**} The standard error of the scale score is estimated from the difference in mean scale scores for the two equivalent subgroups of judges.

² Item difficulty estimates were based on a preliminary, partial set of responses to the national assessment.

Revised Achievement Levels Cut Scores and Student Performance Estimates

The revised achievement levels cut scores and the revised percentage of students at or above each level for both 1992 and 1994 are presented in Chapter 3. These new estimates were required when it was discovered that there was an error in the program used to develop the levels. In deriving the final levels, panelists' ratings for the multiple-choice and constructed-response items were combined to obtain an overall rating for the items. This combination was weighted according to the amount of information provided by each type of item, that is, some items "count more" toward the overall cut scores than others. The weighting was carried out incorrectly, thus resulting in the erroneous estimates in the NAEP 1992 Reading Report Card, the NAEP 1992 state reading reports, and the NAEP 1994 Reading: A First Look report.

The process for developing the levels in 1992 remains unchanged and is accurately described in this Appendix, except for the step for deriving the final cut scores using a weighted average of the mean percent correct (for MC and SCR items) and the mean paper rating for the ECR items. The data in Chapter 3 have been corrected to reflect the correct weighting procedure, as has Table C.1, which displays the new cut scores.

Achievement Level Exemplar Items

The purpose of providing exemplar exercises is to provide readers with a sample of the kind of skills and knowledge that students reaching the achievement levels are likely to be able to respond to successfully. They are meant also to represent the kind of knowledge and skills embodied in the reading framework.

The selection of exemplar items for the 1994 reading assessment augment the 1992 exemplars by providing three additional passages (one for each grade level) and 13 additional exercises associated with the passages. The choice was made on the basis of criteria similar to those used in 1992,³ with one additional selection criterion, namely, item format. Since the percent of constructed-response items increased by approximately 10% over the 1992 assessment, the choice of 1994 exemplars reflects this focus.

It should be noted that although some exemplars are associated with performance data from the 1992 and 1994 assessments (overall and conditional p-values), others have only 1992 performance estimates since they were released items in 1992 and not readministered in 1994. However, they are all reflective of the assessment framework.

In Chapter 3, Figure 3.1 provides the final description of the three achievement levels for grade 4. Exemplar items, illustrating what students at each level should know and be able to do, are included in Chapter 3 as well. The descriptions of the levels apply to the framework that underlies the 1992 and 1994 NAEP reading assessments. The exemplar items reflective of the levels have been updated to reflect both the 1992 and 1994 item pools. Table 3.1 in Chapter 3 provides the percentage of students at or above each of the three levels and the percentage of students below the Basic level.

In 1992, both statistical and content criteria were used by the panelists in selecting the best exemplars from the released item pool. A description of this process can be found in Appendix C of the 1992 state reports and in the Technical Report of the 1992 NAEP Trial State Assessment Program.



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Reading "Revisit" Study

American College Testing, the NAEP standard-setting contractor, conducted a study to examine the congruence between the reading performance and the descriptions of reading performance embodied in the levels, within the context of the reading assessment framework. The purpose of the study was *not* to set new levels, nor was it to develop new achievement level descriptions. Rather, the "revisit" was designed to evaluate the descriptions of the 1992 achievement levels with respect to their appropriateness vis-a-vis student performance on the NAEP. Two methodologies were used: (1) evaluation of the achievement level descriptions via statistical item mappings; and (2) evaluation of the descriptions via judgmental item mappings.

In the first procedure the NAEP exercises were classified according to the probability of a correct response at selected points on the NAEP scale. One half of the panelists then examined the items falling into each category to judge whether the exercise content corresponded to the descriptions of those levels. In the second procedure, the other half of the panelists were asked to classify each exercise as *Basic*, *Proficient*, or *Advanced* according to whether the item matched the description for the level. Once all the items were classified by all panelists, they were asked to evaluate the extent to which the descriptors represented the skills and knowledge covered by the assessment.

After both an independent and a joint evaluation of the descriptors by panelists in both groups to determine whether the 1992 descriptors were appropriate for reporting performance on the 1994 NAEP reading assessment, the panelists were asked to recommend specific changes in the descriptors. Based on the findings of this study, it was the consensus of the participants that the descriptors used in 1992 were, in general, appropriate and consistent with the NAEP Reading Framework and the 1994 NAEP reading assessment results. However, the panelists recommended minor modifications in the descriptors. Their recommendations are reflected in the 1994 Student Performance Level descriptors.



APPENDIX D

Data Appendix

For each of the tables in Part Three that presents reading proficiency results, this appendix contains corresponding data for each level of the four reporting subpopulations — race/ethnicity, type of location, parents' education level, and gender — as well as for each school type — public, non-public, and combined.





TABLE D5.2

Public School Teachers' Reports on Time Spent Teaching Reading

 45 Minutes or Less
 60 Minutes
 90 Minutes or More

 1992
 1994
 1992
 1994
 1992
 1994

			т			
			Percentage a	nd Proficiency		
TOTAL						
State	27 (2.7)	40 (3.4)	49 (2.9)	47 (.2.9)	24 (3.0)	13 (2.3)
	218 (2.2)	215 (2.2)	218 (1.7)	215 (1.8)	215 (2.2)	207 (4.0)
Nation	29 (3.2)	37 (2.5)	52 (3.4)	44 (2.7)	19 (1.8)	19 (1.9)
RACE/ ETHNICITY	216 (2.2)	215 (2.1)	217 (1.8)	217 (1.8)	213 (2.5)	200 (4.0)
White						
State	28 (3.0)	41 (3.9)	49 (3.1)	47 (3.3)	24 (3.1)	12 (2.5)
	223 (1.9)	224 (2.3)	223 (1.8)	223 (2.0)	219 (2.0)	216 (4.3)!
Nation	29 (3.6)	39 (3.0)	55 (3.7)	49 (3.2)	16 (1.9)	12 (2.1)
Black	222 (2.6)	223 (2.6)	223 (1.9)	223 (1.9)	224 (2.8)	221 (3.3)
State	25 (7.7)	27 (5.4)	40 (6.3)	55 (6.9)	25 (7.0)	10/65
Julio	= 1	27 (3.4)	40 (0.3)	192 (6.6)	35 (7.8)	18 (6.5)
Nation	30 (4.0)	34 (3.4)	41 (42)	25 (4.5)	29 (4.3)	40 (4.5)
	195 (3.2)	191 (3.1)	194 (2.7)	191 (2.6)	193 (3.2)	180 (2.9)
Hispanic						
State	24 (3.3)	40 (4.3)	52 (5.1)	48 (3.5)	24 (4.9)	13 (2.9)
Nation	203 (4.5)	191 (3.0)	204 (3.1)	196 (3.1)	199 (3.9)	187 (4.5)!
Nauon	28 (4.0) 202 (5.6)	30 (4.2) 191 (4.5)	49 (5.3) 202 (2.9)	42 (4:8) 193 (2:7)	24 (4.0)	28 (2.6)
American Indian	202 (3.0)	131 (42)	202 (23)	180 (2.1)	199 (3.5)	184 (4.8)
State	23 (6.8)	39 (7.0)	47 (7.4)	51 (7.9)	30 (7.5)	10 (3.5)
	()	· · · · · (** *)	*** (**.*)	*** (****)	*** (***)	()
Nation	14 (4.8)	42 (5.0)	69 (8.2)	40 (5.5)	17 (5.6)	18 (4.2)
	()	()	(7)	()	*** (**.*)	***(***)
TYPE OF LOCATION						
Central City State	23 (5.1)	34 (4.4)	50.15.0	54 (0.0)		
State	215 (5.9)	210 (4.5)	50 (5.9) 214 (2.6)	51 (3.8) 208 (2.9)	27 (5.3)	15 (3.3)
Nation	19 (3.0)	29 (3.7)	50 (4.8)	44 (4.0)	209 (3.9) 31 (3.6)	206 (5.0)i 27 (3.2)
	208 (5.5)	211 (4.6)	209 (2.5)	208 (2.3)	206 (3.3)	191 (6.4)
Urb Frng/Lrg Town			, ,		,	
State	27 (4.0)	41 (5.4)	47 (4.8)	48 (4.8)	26 (4.5)	12 (3.8)
Netter	221 (2.5)	220 (3.3)	221 (3.2)	218 (3.0)	216 (2.8)	202 (5.8)1
Nation	31 (5.6)	40 (3.8)	50 (5.1)	42 (4.9)	18 (3.2)	17 (3.6)
Rural/Small Town	220 (3.2)1	219 (3.2)	221 (3.3)	224 (2.3)	223 (3.9)	212 (4.4)1
State	31 (6,2)	50 (-8,2)	50 (6.1)	39 (7.2)	19 (4.6)	11 (3.9)
	215 (3.9)!	213 (3.3)	218 (2.6)	219 (4.2)	221 (4.9)	()
Nation	34 (5.4)	43 (6.0)	57 (5.5)	48 (6.2)	9 (3.1)	9 (3.7)
	216 (4.1)	212 (3.8)	220 (2.8)	218 (2.8)	213 (9.3)1	197 (7.1)1
<u> </u>						

(continued on next page)





TABLE D5.2 (continued)

Public School Teachers' Reports on Time Spent Teaching Reading

1994 Trial State Assessmen

45 Minute	s or Less	60 Mi	Minutes 90 Minutes or I		s or More
1992	1994	1992	1994	1992	1994

			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate State	29 (3.2)	44 (4.4)	48 (-3.2)	44 (3.9)	23 (3.1)	12 (2.5)
Nation	225 (2.2) 29 (3.0)	224 (2.5) 37 (2.7)	226 (1.8) 52 (3.5)	223 (2.0) 44 (2.8)	223 (2.4) 19 (2.1)	19 (2.7)
Some ed after HS State	222 (3.3) 25 (3.5)	226 (2.1) 34 (3.7)	226 (2:6) 48 (3:8)	226 (2.4) 50 (4.0)	223 (3.3) 27 (4.5)	16 (3.3)
Nation	225 (5.4) 27 (4.6)	222 (4.7) 45 (4.4)	222 (3.5) 54 (5.2)	224 (3.9) 42 (4.1)	224 (4.5) 19 (2.8)	13 (2.0)
HS graduate State	220 (6.7) 24 (3.4) 207 (4.9)	225 (3.7) 41 (4.6)	222 (3.1) 50 (4.2)	223 (3.2) 47 (4.2)	222 (5.4) 26 (4.3)	(*:) 13 (2.7)
Nation	30 (4.5) 213 (4.2)	216 (4.6) 36 (3.4) 208 (3.4)	212 (3.5) 53 (5.6) 215 (3.6)	216 (4.0) 44 (3.8) 213 (3.0)	210 (3.5) 18 (2.6) 202 (4.8)	20 (2.3) 190 (5.0)
HS non-graduate State	22 (4.2)	36 (6.5)	50 (6.4)	47 (6.0)	27 (5.9)	17 (5.4)
Nation	29 (5.9)	42 (4.8) 182 (6.3)	42 (5.8) 200 (5.4)	43 (4.4) 197 (5.4)	29 (4.6) 198 (4.2)	14 (3.0)
I don't know State	26 (3.0) 210 (3.2)	.37 (3.6) 205 (2.8)	50 (3.6) 212 (2.0)	51 (3.3) 206 (2.6)	24 (3.2) 205 (3.2)	12 (2.5) 199 (6.8)i
Nation	28 (3.7) 212 (2.3)	35 (2.5) 205 (2.9)	53 (3.8) 210 (2.0)	45 (2.9) 211 (2.1)	18 (2.2) 208 (3.1)	20 (2.0)
GENDER Male State	27 (2.9)	41 (3.3)	49 (3.1)	47 (2.9)	24 (3.1)	13 (2.4)
Nation	213 (2.6) 28 (3.2)	210 (2.5) 36 (2.5)	215 (2.0) 53 (3.5)	211 (2.1) 45 (2.6)	214 (2.6) 19 (2.0)	205 (5:1) 19 (2:1)
Female State	211 (2.5) 26 (2.7)	209 (2.6) 40 (3.8)	214 (2.0) 50 (3.0)	213 (2.0) 48 (3.1)	211 (3.2) 25 (3.2)	194 (4.0) 13 (2.3)
Nation	223 (2.6) 29 (3.3) 221 (2.6)	221 (2.7) 38 (2.8) 221 (2.0)	221 (2.2) 52 (3.6) 221 (2.1)	218 (2.2) 43 (2.9) 223 (2.1)	215 (3.2) 18 (2.0) 216 (2.7)	209 (4.2) 19 (1.9) 207 (4.5)
SCHOOL TYPE						
Public State	—(—)	40 (3.4) 215 (2.2)	<u>=(=)</u>	47 (2.9)	— (—=)	13 (2.9)
Nation		215 (2.2) 37 (2.5) 215 (2.1)		44 (2./)		207 (4.0) 19 (1.9) 200 (4.0)
Non-Public State		40 (19:1)	-(-=)	217 (1.8) 56 (18:1)		200 (4.0) 3 (3.7)
Nation		58 (6.3) 231 (3.2)		32 (6.0) 229 (4.8)		10 (2.9)
Combined State		40 (3.4)		48 (2.9)		232 (2.5) 12 (2.2)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



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Nation



TABLE D5.3

Public School Teachers' Reports on the Availability of Resources

1994 Trial State Assessment

•	I get all the resources I need		l -	the resources	l get some or resource	
	1992	1994	1992	1994	1992	1994

		.	<u> </u>			
TOTAL						
State	13 (2.1)	13 (2.8)	.52 (2.9)	57 (3.8)	35 (3.2)	29 (3.0)
	222 (2.3)	220 (3.2)	218 (1.8)		213 (1.5)	212 (2.3)
Nation	11 (1.7)	9 (1.7)	51 (2.9)	55 (2.7)	39 (3.5)	35 (2.7)
RACE/ ETHNICITY	220 (3.1)	225 (3.7)	218 (1.7)	215 (1.6)	213 (1.6)	208 (1.8)
White						
State	14 (2.5)	14 (3.0)	53 (2.8)	58 (4:4)	32 (3.3)	27 (3.6)
N1=1/	223 (2.4)	227 (3.0)	222 (1.7)	222 (1.6)	220 (1.5)	222 (2.6)
Nation	11 (2.0) 229 (2.8)	10 (2.0) 233 (2.7)	53 (3.4) 224 (1.9)	58 (3.2) 223 (1.8)	36 (4.2)	32 (3.2)
Black	223 (2.0)	235 (2.1)	224 (1.9)	223 (1.5)	221 (1.8)	220 (2.0)
State	15 (4.3)	7 (3.9)	52 (-6.1)	55 (6.5)	33 (6.4)	38 (6.7)
.	(***)	··· (*· *)	***(****)	189 (6.7)	*** (**.*)	*** (**.*)
Nation	10 (1.9) 194 (4.9)	7 (1.9) 197 (10.4)	40 (4.0) 192 (2.6)	46 (5.0)	49 (4.0)	47 (4.7)
Hispanic	134 (4.3)	137 (10.4):	132 (2.0)	186 (2.2)	196 (2.2)	186 (2.3) <
State	7 (1.6)	12 (3.3)	49 (5.7)	54 (4.4)	44 (5.8)	34 (3.6)
	*** (****)	198 (5.4)!	205 (2.6)	192 (2.7) <	197 (2.8)	193 (3.3)
Nation	10 (1.9) 200 (6.2)	8 (2.0)	50 (4.2) 203 (3.0)	50 (3.6)	41 (4.2)	41 (4.1)
American Indian	200 (6.2)	L J	203 (3.0)	192 (2.6) <	198 (2.7)	186 (3.3)
State	13 (4.4)	16 (5.7)	47 (6.5)	58 (6.9)	40 (6.6)	26 (5.9)
11. e	(***)	(***)	***(***)	(:)	(**.*)	(***)
Nation	15 (5.4)	6 (2.4)	51 (7.1)	58 (4.2) 208 (5.1)	33 (6.7)	36 (4.1)
TYPE OF	()	1.7	1.1	206 (5.1)	(-)	()
LOCATION						
Central City						
State	13 (4.4)	9 (3.8)	50 (6.2)	50 (5.5)	37 (6.4)	42 (4.3)
Nation	221 (3.1) 8 (2.1)	10 (2.9)	211 (3.2) 47 (4.0)	207 (3.6) 46 (3.9)	207 (2.3) 46 (3.7)	210 (3.2) 44 (3.6)
IVadon	214 (10.3)	221 (5.5)1	210 (3.0)	207 (3.7)	207 (1.9)	198 (2.8)
Urb Frng/Lrg Town	,				(/	
State	14 (3.1)	17 (4.6)	54 (4.3)	61 (5.9)	32 (4.4)	22 (4.2)
Nation	224 (4.2) 11 (2.0)	221 (3.8)! 10 (2.1)	221 (2.6) 58 (3.6)	218 (2.7) 57 (4.2)	216 (2.2) 32 (4.0)	214 (3.9)
	219 (5.1)	229 (6.1)1	222 (2.4)	221 (2.1)	218 (3.9)	33 (4.5) 216 (2.9)
Rural/Small Town	ì				•	,,
State	11 (4.5)	14 (5.6)	49 (4.9)	83 (9.8)	40 (6.6)	22 (8.5)
Nation	14 (51)	7 (3.5)	221 (3.3) 45 (7.3)	216 (3.7)	214 (3.5)	20 (11)
140001	225 (3.0)	223 (5.0)I	219 (4.3)	65 (4.9) 212 (2.5)	41 (9.7) 216 (3.3)	28 (4.2) 214 (4.2)
	,,,,,	v. - ,	,//		-70 (0.0)	

(continued on next page)





TABLE D5.3 (continued)

Public School Teachers' Reports on the Availability of Resources

1994 Trial State Assessmen

I get all the	_	_	the resources eed	I get some or none of the resources I need	
1992	1994	1992	1994	1992	1994

						_
			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate						
State	15 (2.3)	16 (.3.5)	54 (2.9)	56 (4.6)	31 (3.3)	28 (3.0)
	231 (3.0)	228 (2.7)	225 (1.6)	223 (2.0)	221 (2.0)	218 (2.7)
Nation	11 (2.0)	10 (1.9)	51 (3.3)	54 (3.1)	37 (4.0)	36 (3.2)
	226 (4.8)	233 (4.9)	225 (2.4)	225 (1.8)	222 (2.3)	217 (2.4)
Some ed after HS						
State	14 (4.3)	10 (3.2)	49 (4.7)	60 (4.3)	37 (4.7)	30 (3.9)
	***(**.*)	*** (**.*)	225 (3.2)	223 (3.7)	220 (3.1)	218 (4.1)
Nation	10 (2.5)	11 (3.0)	54 (4.2)	53 (4.5)	36 (5.2)	36 (4.0)
	*** (**.*)	*** (****)	221 (2.4)	225 (3.2)	223 (5.3)	215 (3.9)
HS graduate						
State	9 (2.1)	8 (2.2)	47 (3.9)	56 (5.3)	44 (4:3)	36 (5.4)
	*** (**.*)	(-:-)	214 (3.0)	210 (3.8)	206 (3.2)	220 (4.9)
Nation	11 (2.6)	9 (1.7)	49 (4.6)	55 (3.0)	39 (4.9)	36 (3.0)
UC non eneducto	*** (**.*)	214 (8.4)	216 (3.6)	210 (2.6)	208 (2:2)	203 (3.5)
HS non-graduate State	9 (3.6)	40 (67)	E4 (6 T)	50 (6-7)	40 (e T)	24 (5 7)
State	*** (**.*)	18 (6.3)	51 (-6.7)	52 (6.7)	40 (-6.7)	31 (5.7)
Nation	8 (2.4)	3 (1.5)	39 (4.6)	60 (4.1) >	52 (4.9)	37 (3.8)
Hadon	(7)	(***)	196 (5.3)	192 (4.5)	198 (4.9)	182 (6.0)
l don't know		V - 7.	100 (0.0)	.02 (1.0)	.00 (1.0)	.02 (000)
State	12 (2.6)	11 (2.8)	52 (3.3)	60 (3.9)	35 (3.6)	28 (3.5)
	212 (3.3)	208 (5.9)	209 (2.5)	205 (2.0)	206 (2.3)	204 (3.1)
Nation	10 (1.7)	9 (1.6)	51 (2.9)	57 (2.8)	38 (3.2)	34 (2.6)
	216 (4.0)	218 (4.2)	212 (2.1)	206 (2.3)	206 (1.8)	202 (2.0)
GENDER						
Male						
State	13 (2.2)	14 (3.0)	51 (2.9)	57 (4.1)	36 (3.3)	29 (3.1)
	222 (2.6)	214 (3.6)!	215 (1.9)	209 (2.4)	209 (1.9)	211 (3.0)
Nation	10 (1.8)	9 (1.6)	51 (3.0)	57 (2.8)	38 (3.7)	34 (2.7)
	216 (3.5)	222 (3.5)	214 (2.0)	209 (1.9)	210 (2.3)	202 (2.1) <
Female						
State	13 (2.2)	12 (2.7)	53 (3.2)	58 (3.9)	34 (3.5)	29 (3.2)
	223 (3.0)	226 (3.6)!	220 (2.2)	219 (2.1)	216 (2.3)	214 (2.3)
Nation	11 (1.8)	10 (1.9)	50 (2.9)	54 (2.8)	39 (3.4)	37 (2.8)
	224 (3.5)	228 (4.6)	222 (1:8)	221 (1.8)	217 (1.6)	214 (2.0)

SCHOOL TYPE						
Public						
State	==== (==,=)	13 (2.8)	· === (===)	57 (3.8)	(<u>-</u>)	29 (3.0)
Nation	== (=) == (=) == (=)	220 (3.2)! 9 (1.7) 225 (3.7)		214 (1.8) 55 (2.7) 215 (1.6)		212 (2.3) 35 (2.7) 208 (1.8)
Non-Public		223 (0.1)	()	213 (1.0)		200 (1.0)
State		15 (9.5)	== (==) == (==)	27 (10.4)	==(==)	58 (15:3)
Nation		14 (3.3) 230 (6.2)		49 (4.9) 233 (3.1)		37 (4.9) 229 (4.3)
Combined		200 (0.2):		235 (0.1)		223 (42)
State	()	13 (2.6)	=== (===)	56 (3.7)	(,=)	31 (3.1)
	(===)	— (=:)	()	*** (***)	=== (==:=)	()
Nation	=== (==,=)	10 (1.6)	()	54 (2.5)	(===)	36 (2.4)
	(;-)	226 (3.4)	()	216 (1.5)	()	211 (1.7)

=== School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic.

*** Sample size is insufficient to permit a reliable estimate.







TABLE D6.1

Public School Teachers' Reports on Instructional Materials for Reading

1994 Trial State Assessment

Primari	Primarily Basal		y Trade oks		asal and Books	Oti	ner
1992	1994	1992	1994	1992	1994	1992	1994

	10 may 20 mg		20.2h.3; \$20.070.v	1488.402500 T	05760000000000	WE DESCRIPT	Y 12 (2 (2) TYD 882 (N) 3	800 87960 86 0960 84 5 80
	Percentage and Proficiency							
<u>TOTAL</u>								
State	11 (1.8)	4 (1.4)	37 (3.0)	43 (4.0)	45 (3.5)	49 (4.1)	8 (1.8)	4 (1:3)
Nation	215 (3.4) 33 (2.6)	203 (5.9)	218 (2.2) 13 (2.3)	214 (2.0) 20 (2.8)	216 (1.7) 51 (3.6)	214 (2.2) 59 (3.0)	219 (3.2) 3 (1.1)	217 (6.6)I 3 (0.7)
RACE/ ETHNICITY	213 (2.2)	208 (2.4)	222 (4.4)	218 (2.9)	217 (1.4)	214 (1.7)	208 (6.3)	197 (6.1)
White								
State	9 (1.9) 222 (3.9)	4 (1.4)	38 (3.3)	45 (4.5)	45 (3.8)	48 (4.8)	8 (1.9)	3 (1.3)
Nation	31 (3.1)	16 (2.5)	223 (2.2) 14 (2.7)	222 (2.1) 22 (3.4)	220 (1.5) 52 (4.1)	224 (2.1) 59 (3.8)	222 (3.1) 3 (1.1)	2(07)
Black	220 (2.6)	220 (2.5)	229 (4.0)	222 (3.3)	224 (1.7)	224 (1.6)	215 (6.5)1	212 (8.2)
State	4 (2.4)	5 (2.3)	42 (7.5)	35 (7.3)	50 (8.8)	57 (7.2)	4 (3.5)	3 (1.7)
Nation	()	*** (**:*)	()	*** (**.*)	(***)	194 (6.5)	(***)	()
	42 (3.8) 197 (2.5)	31 (4.8) 186 (2.7)	8 (2.6)	9 (2.0)	48 (4.2) 193 (2.4)	57 (4.7) 186 (2.4)	3 (1.6)	3 (1.2)
Hispanic					100 (2.4)	100 (2.4)	(' '	()
State	18 (3.7) 203 (5.2)	6 (2.0)	30 (3.0) 200 (3.9)	37 (4.7) 192 (4.2)	46 (5.0)	53 (4.6)	6 (2.0)	4 (1.8)
Nation	32 (3.8)	16 (26)	14 (2.3)	18 (3.5)	203 (3.2) 49 (3.9)	194 (3.6) 61 (3.5)	5 (2.7)	5 (12)
American Indian	200 (4.4)	193 (5.2)	204 (7.6)	195 (4.9)	204 (3.0)	190 (3.3)	***(***)	*** (***)
State	11 (5.4)	7 (3.0)	43 (7.9)	39 (7.0)	31 (6.7)	52 (8.0)	15 (5.8)	3 (1.9)
Nation	(; ·)	***(***)	(-:)	*** (**.*)	*** (****)	(-:-)	()	
1440011	29 (6.1)	20 (4:5)	31 (7.7)	19 (4.8)	40 (7.1)	57 (6.6) 197 (5.7)	0 (0.0)	4 (22)
TYPE OF			` '	, -,	``'	()	(.) .	(-)
LOCATION Central City								
State	14 (5.1)	6 (2.0)	29 (4,1)	38 (6.1)	46 (6.6)	53 (5.6)	10 (3,7)	2 (1.6)
Nation	20 (***)	(***)	212 (4.1)	214 (3.9)	214 (3.6)	205 (3.4)	*** (***)	*** (***)
	39 (4.9) 204 (2.7)	21 (4.3) 198 (4.1)	14 (3.1) 215 (6.6)	19 (4.8) 215 (4.5)	43 (5.1) 209 (3.5)	57 (5.3) 204 (3.5)	3 (0.9)	3 (0.9) 195 (14.0)
Urb Frng/Lrg Town	214							100 (14.0)
State	2 (1.4)	4 (2.2)	50 (5.8) 221 (3.2)	53 (6.8) 216 (2.8)	41 (5.6) 217 (2.5)	40 (6.9) 220 (3.2)	6 (24)	3 (1.4)
Nation	23 (4.1)	14 (3.1)	15 (3.6)	22 (3.6)	60 (4.3)	61 (4.0)	2 (1.4)	3(11)
Rural/Small Town	218 (4.6)	219 (3.4)	225 (8.8)	224 (2.8)	221 (2.1)	220 (2.5)	()	201 (4.8)
State	24 (3.8)	3 (2.3)	18 (3.9)	27 (8.1)	51 (4.5)	63 (10.5)	7 (3.6)	7 (5.2)
Nation	217 (4.8) 39 (6.2)	21 (5.1)	218 (5.0)	209 (4.2)!	219 (3.1)	219 (4.4)!	()	(***)
140011	218 (2.6)	209 (5.3)	11 (5.3) 227 (5.6)	17 (6.6) 209 (8.8)	45 (8.6) 218 (3.5)	59 (5.4) 217 (2.4)	5 (2.9)	3 (1.8)
					,	1-7	/	(· · / ·

(continued on next page)





TABLE D6.1 (continued)

Public School Teachers' Reports on Instructional Materials for Reading

1994 Trial State Assessmen

Primarily Basal		Primarily Trade Books		Both Ba Trade		Other	
1992	1994	1992	1994	1992	1994	1992	1994

	Percentage and Proficiency					
PARENTS' EDUCATION						
College graduate State	9 (1.8) 4 (1 224 (3.1) (**	4) 40 (3.6) 45 (4.5) 7 227 (2.6) 223 (2.4)	43 (4.0) 47 (4.6) 222 (1.5) 222 (2.1)	8 (2.1) 4 (1.4) 230 (6.0)! (-:-)		
Nation	32 (3.2) 17 (2 220 (3.2) 212 (3	4) 15 (2.9) 22 (2.9)	50 (3.7) 59 (3.5) 225 (1.8) 224 (2.0)	3 (0.9) 3 (0.8) ***(***) 211 (9.1)		
Some ed after HS State	10 (2.7) 4 (1.	8) 28 (4.2) 44 (5.3)	52 (4.8) 46 (5.1) 225 (3.5) 222 (3.8)	10 (2.8) 5 (2.0)		
Nation	29 (3.6) 17 (3 222 (4.9) 221 (4	3) 16 (4.2) 21 (3.7)	53 (5.5) 59 (4.8) 221 (3.5) 222 (3.0)	2(10) 3(14)		
HS graduate State	13 (3.1) 6 (2	3) 33 (3.4) 35 (4.6)	47 (4.5) 56 (5.7) 210 (3.7) 216 (4.2)	8 (2.6) 3 (1.9) () ()		
Nation	35 (3.8) 20 (3. 213 (3.8) 209 (4	2) 9 (2.3) 14 (3.3)	52 (4.8) 63 (3.6) 213 (2.9) 208 (2.6)	3(14) 3(11)		
HS non-graduate State	16 (5.0) 7 (3	7) *** (***)	43 (7.1) 56 (7.9)	9 (4.0) 2 (1.7)		
Nation	34 (4.1) 22 (5	1) 10 (3.0) 18 (4.4)	52 (4.7) 56 (4.4) 200 (5.2) 190 (5.3)	5(19) 3(14) "(") "(")		
I don't know State	11 (2.1) 5 (1 209 (5.0) *** (***	5) 37 (3.4) 42 (4.7) 1) 209 (2.6) 205 (3.0)	45 (4.0) 50 (4.7) 210 (2.3) 206 (2.9)	6(17) 3(14)		
Nation	34 (2.8) 19 (2 207 (2.4) 203 (3	6) 13 (2.2) 19 (3.1)	50 (3.7) 58 (3.0) 212 (1.8) 206 (1.9)	-4 (1.6) 3 (0.7)		
GENDER Male State	11 (1.8) 5 (1 212 (3.9) **** (***	4) 36 (3.3) 43 (4.1) 217 (2.0) 206 (2.5)	46 (3.8) 48 (4.3) 213 (2.3) 211 (2.7)	7 (1.7) 4 (1.3) 215 (4.2) ••• (***)		
Nation	32 (2.8) 18 (2 209 (2.7) 202 (2	5) 14 (2.6) 20 (2.7)	51 (3.9) 58 (2.8) 214 (1.7) 209 (1.8)	3 (1.1) 3 (0.8) () 187 (8.3)		
Female State	11 (2.1) 4 (1. 217 (4.1) (*-	3) 37 (3.0) 42 (4.1)	44 (3.6) 50 (4.2) 220 (2.1) 217 (2.4)	8 (1.9) 4 (1.4) 222 (4.0) *** (**.*)		
Nation	34 (2.7) 18 (2 217 (2.3) 214 (2	5) 13 (2.1) 19 (3.0)	50 (3.3) 60 (3.3) 221 (1.7) 220 (1.8)	3 (1.1) 3 (0.7) *** (**.*) 208 (6.3)		
SCHOOL TYPE Public		10 10 10 10 10 10 10 10 10 10 10 10 10 1		100		
State	== (==) 4 (1 == (==) 203 (5 == (==) 16 (2 == (==) 208 (2	9) == (===) 214 (2.0)	======================================	== (==) 4 (1.3) == (==) 217 (6.6)		
Nation Non-Public	== (==) 18 (2 == (==) 208 (2		== (==) 59 (3.0) == (==) 214 (1.7)	== (==) 3 (0.7) == (==) 197 (6:1)!		
State	== (===) 11 (11 == (===) 11 (11	3) = (==) .5 (5.2)	== (==) 59 (23.8) == (==) *** (**.*)	(==) 26 (25.3) == (==) *** (**.*)		
Nation	== (==) 40 (5 == (==) 230 (3	6) (==(==) 44 (52) ==(==) 229 (25)	== (==) 7 (27) == (==) 222 (164)!		
Combined State	== (==) 5 (1 == (==) 7 (1	** *** ***	=== (===) 50 (4.1) == (===) **** (*=:*)	== (==) 5 (2.0) == (==) == (==) == (==) 3 (0.7)		
Nation	== (==) 21 (2 == (==) 212 (2	2) === (===) 19 (2.5)	(==) 57 (2.6) == (==) 215 (1.6)	== (==) 3 (0.7) == (==) 202 (5.0)		
The question associat	ed with this variable	was reformatted in 1994. N	lo trend comparison tests	were conducted.		

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted.

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⁼⁼⁼ School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



TABLE D6.2A

Public School Teachers' Reports on the Frequency of Using Children's Newspapers and/or Magazines

1994 Trial State Assessmen

At Least Or	nce a Week	Once or Tw	rice a Month	Never or h	ardly Ever	
1992	1994	1992	1994	1992	1994	
		n				

			L			
			Percentage ar	nd Proficiency		
<u>TOTAL</u>						
State	27 (3.2)	29 (3.1)	42 (2.7)	43 (2.9)	32 (3.4)	28 (2.7)
Nation	217 (2.5) 32 (3.2)	212 (2.2) 30 (3.0)	216 (1.9) 32 (2.4)	216 (1.8) 36 (2.2)	220 (1.8) 36 (2.6)	214 (2.5) 35 (2.8)
	218 (2.2)	213 (2.3)	213 (2.0)	212 (1.7)	218 (2.1)	214 (2.2)
RACE/ ETHNICITY White						
State	27 (3.4)	28 (3.4)	40 (3.0)	44 (3.4)	32 (3.7)	28 (2.8)
Notion		222 (2.2)	221 (2.3)	224 (1.7)	224 (1.5)	221 (2.7)
Nation	33 (3.9) 225 (2.3)	30 (3.5) 223 (2.7)	29 (2.7) 221 (2:2)	35 (2.7) 223 (1.8)	38 (2.9) 224 (2.2)	35 (3.2) 222 (2.1)
Black						
State	30 (8.3)	26 (6.0)	33 (7.1)	49 (7.7) 191 (6.5)I	37 (8.0) *** (**.*)	25 (6.8)
Nation	30 (3.5)	31 (4.0)	43 (4.2)	35 (4.6)	28 (4.1)	34 (4.6)
Hispanic	194 (3.3)	184 (3.3)	195 (2.5)	185 (3.2)	192 (3.9)	190 (2.6)
State	25 (4.0)	32 (4.2)	45 (3.8)	41 (3.3)	29 (4.1)	27 (3.7)
Nation	204 (4.7) 31 (2.9)	190 (4.1) 26 (3.6)	200 (2.8) 34 (3.1)	195 (3.1) 41 (4.3)	205 (3.6) 36 (3.4)	193 (3.8) 33 (3.9)
	202 (4.0)	190 (4.5)	197 (4.5)	188 (2.8)	205 (3.5)	193 (3.7)
American Indian State	28 (7.1)	26 (5.0)	60 (7.2)	447.50		20150
State	20 (***)	20 (3.0)	*** (***)	44 (5.8)	13 (4.0)	30 (5.9)
Nation	26 (5.7)	23 (5.9)	23 (5.4)	44 (5.1)	51 (6.9)	33 (5.1)
TYPE OF	(7)	m (n.r)	*** (**.*)	()	*** (**;*)	()
LOCATION						
Central City State	21 (4.9)	35 (5.0)	43 (6.2)	40 (4.2)	35 (6.4)	26 (4.3)
	211 (5.9)1	203 (3.8)	211 (2.7)	212 (3.6)	216 (3.3)!	210 (4.4)
Nation	30 (2.9) 211 (2.5)	22 (3.5) 201 (5.4)	42 (2.9) 207 (2.4)	40 (3.2)	29 (3.7)	38 (4.2)
Urb Frng/Lrg Town			201 (2.4)	203 (2.7)	206 (5.2)	207 (3.6)
State	29 (4.4)	24 (4.1) 215 (3.2)	43 (4.3)	46 (4.3)	28 (4.4)	30 (5.1)
Nation	217 (3.4) 25 (4.0)	37 (4.3)	220 (3.1) 29 (2.7)	218 (2.7) 34 (3.8)	221 (2.8) 46 (4.1)	219 (3.3) 29 (3.7)
Rural/Small Town	218 (4.9)	217 (2.4)	219 (2.6)	220 (2.4)	223 (3.3)	224 (3.1)
State	30 (7.2)	31 (6.6)	38 (4.7)	45 (7.4)	33 (6.3)	25 (3.8)
Nation	221 (4.5)1	224 (3.5)	211 (3.3)	218 (3.3)	223 (3.6)1	206 (4.7)1
Nation	43 (8.8) 222 (3.3)	27 (6.4) 219 (6.5)	27 (6.5) 214 (5.2)	34 (4.0) 214 (4.4)	30 (4.8) 217 (2.3)	39 (6.0) 210 (3.2)
			, i			





TABLE D6.2A (continued)

Public School Teachers' Reports on the Frequency of Using Children's Newspapers and/or Magazines

1994 Trial State A

At Least O	nce a Week	Once or Twice a Month		Never or H	ardly Ever
1992	1994	1992	1994	1992	1994

_			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate State	26 (3.6) 224 (2.6)	28 (3.3) 225 (2.6)	41 (3.1) 225 (2.4)	43 (3.1) 221 (2.1)	33 (3.8) 226 (1.9)	29 (3.1)
Nation	33 (3.8) 224 (2.6)	30 (2.9) 223 (2.9)	30 (2.7) 219 (2.6)	35 (2.4) 222 (2.4)	38 (3.3) 228 (3.2)	220 (3.2) 35 (3.2) 223 (2.7)
Some ed after HS State	21 (4.3)	28 (4.3)	44 (4.5) 221 (3.5)	51 (5.3) 223 (3.5)	35 (4.5) 226 (5.0)	21 (4.0)
Nation	34 (5.0) 228 (5.5)	35 (4.0) 218 (3.5)	29 (3.5) 215 (3.9)	34 (3.1) 218 (4.0)	37 (4.5) 222 (3.7)	32 (3.2) 229 (3.6)
HS graduate State	29 (4:8) 211 (5:1)	31 (3.8) 207 (4:6)	43 (3.5) 211 (3.4)	47 (4.7) 222 (4.9)	28 (3.8) 211 (4.0)	22 (3.9)
Nation	35 (4.7) 214 (4.1)	30 (4.7) 208 (4.0)	31 (3.2) 212 (4.4)	34 (3.3)	35 (4.0) 211 (3.2)	36 (3.5) 210 (3.4)
HS non-graduate State	26 (4.9)	29 (7.4)	41 (5.1)	42 (6.1)	33 (6.7)	29 (6.3)
Nation	37 (.4.8) 199 (.5.6)	27 (4.7) 182 (5.8)	33 (5.5) 198 (4.9)	30 (3.4) 192 (6.3)	30 (5.2)	44 (5.0) 190 (7.7)
I don't know State	29 (3.6) 210 (2.8)	30 (3.6) 200 (3.0)	41 (3.0) 206 (2.6)	42 (3.6) 206 (2.6)	30 (3.8) 214 (2.1)	29 (3.4) 207 (3.5)
Nation	29 (3.0) 212 (2.6)	28 (3.2) 206 (2.8)	35 (2.8) 209 (2.6)	40 (2.5) 205 (2.1)	36 (2.7) 210 (2.2)	32 (2.8) 205 (2.8)
<i>GENDER</i> Male	,					
State	29 (3.4) 212 (3.5)	28 (2.9) 207 (2.9)	40 (2.7) 213 (2.3)	43 (2.8) 212 (2.3)	32 (3.3) 219 (2.0)	29 (2.7) 209 (2.7)
Nation	31 (3.5) 215 (3.0)	30 (2.8) 208 (2.8)	31 (2.5) 210 (2.5)	36 (2.3)	37 (2.9) 213 (2.6)	34 (2.7) 209 (2.3)
Female State	25 (3.3) 223 (2.4)	30 (3.4)	44 (3.1) 218 (2.6)	44 (3.1)	32 (3.7) 220 (2.4)	27 (2.9) 219 (2.9)
Nation	32 (3.0) 221 (2.2)	29 (3.2) 219 (2.5)	33 (2.6) 216 (2.1)	36 (2.3) 218 (1.7)	35 (2.6) 223 (2.2)	35 (3.0) 219 (2.5)

SCHOOL TYPE						
Public						
State	()	29 (3.1)	=== (===)	43 (2.9)	()·	28 (2:7)
	(-:=)	212 (-2.2)	(==,=)	216 (1.8)	()	214 (2.5)
Nation	(=:=)	30 (3.0)	(=,=)	36 (2.2)	·=== (===)	35 (2.8)
	()	213 (2.3)	(==)	212 (1.7)	=== (===)	214 (2.2)
Non-Public						
State	(===)	24 (8.6)	· ==== (==,=)	29 (22.8)	()	48 (22.2)
	()	*** (**.*)	(:-)	*** (**.*)	ं === (=:=)	**** (****)
Nation	(===)	30 (4.7)	. === (=.=)	28 (4.1)	()	42 (4.5)
	 ()	229 (3.0)	()	230 (5.3)	~ === (===)	232 (4.1)
Combined						
State	()	29 (2.9)	· == (===)	43 (3.0)	()	29 (2.9)
	()	**** (****)	· === (=:=)	*** (**.*)	(- -)	*** (**.*)
Nation	()	30 (2.7)	===(===)	35 (2.0)	· == (==)	35 (2.6)
	()	215 (2.2)	()	214 (1.6)	()	216 (2.1)
				1.5		

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.

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TABLE D6.2B

Public School Teachers' Reports on the Frequency of Using Reading Kits

1994 Trial State Assessment

At Least O	nce a Week	Once or Tw	ice a Month	Never or H	ardly Ever
1992	1994	1992	1994	1992	1994

		<u> </u>	<u> </u>			
:			Percentage a	nd Proficiency		
<u>TOTAL</u>						
State	17 (2.8)	16 (2.3)	17 (2.4)	20 (2.8)	67 (3.2)	64 (3.3)
Nation	215 (2.4)	209 (1.7)	215 (3.3)	215 (2.7)	218 (1.4)	215 (1.9)
Nauori	22 (2.6) 210 (2.5)	21 (2.5) 206 (2.8)	20 (2.4) 218 (2.2)	21 (2.0) 214 (1.9)	58 (3.2) 218 (2.2)	58 (3.0) 216 (1.5)
RACE/ ETHNICITY	(200 (2.0)	270 (22)	214 (1.3)	210 (2.2)	210 (1.3)
White						
State	16 (3.0)	14 (2.2)	16 (2.7)	18 (2.8)	67 (3.4)	67 (3.3)
Nation	217 (2.5) 19 (3.0)	218 (2.8) 18 (2.8)	221 (2.8) 20 (3.0)	226 (2.2) 20 (2.1)	223 (1.3) 61 (3.9)	223 (1.6)
	221 (2.7)	220 (3.1)	224 (2.2)	225 (1.9)	224 (2.3)	62 (3.4) 223 (1.9)
Black				,		
State	21 (8.0)	15 (5.9)	19 (5.7)	29 (10.2)	60 (7.7)	56 (11:8)
Nation	36 (4.4)	34 (4.6)	18 (3.1)	23 (3.5)	46 (4.8)	191 (6.0) 43 (4.1)
	192 (3.2)	182 (2.7)	197 (3.8)	191 (3.4)	195 (3.3)	187 (2.5)
Hispanic	45/00					
State	17 (3.3) 209 (3.5)	23 (4.2) 193 (3.6)	18 (3.1) 199 (6.5)	21 (3.3) 194 (5.2)	65 (4.0) 202 (2.5)	56 (4.2)
Nation	28 (6.1)	23 (3.4)	18 (3.1)	24 (4.3)	54 (4.5)	193 (3.3) 53 (4.5)
	196 (3.7)1	186 (-4.1)	205 (6.6)	191 (3.3)	204 (3.4)	192 (3.0)
American Indian State	28 (8.1)	17 (-5.8)	40 (50)	40.7.40		
State	20 (0.1)	17 (3.6)	12 (5.9)	19 (*4.9)	60 (7.6)	64 (6:3) **** (**:*)
Nation	18 (6.0)	29 (6.8)	16 (5.4)	22 (4.0)	66 (7.6)	49 (6.0)
TV05 05	()	••• (**.*)	(:)	(***)	()	(***.*)
TYPE OF LOCATION						
Central City						
State	21 (5.7)	21 (3.8)	20 (5.5)	25 (5.4)	59 (7.3)	54 (5.2)
	214 (5:1)!	211 (3.1)	215 (5.9)!	210 (5.7)	212 (2.7)	208 (3.3)
Nation	32 (3.8) 203 (3.2)	19 (3.2) 188 (4.9)	17 (4.1)	22 (4.5)	51 (5.2)	59 (5.0)
Urb Frng/Lrg Town	200 (32)	100 (4.9)	206 (3.5)	203 (4.0)!	211 (3.7)	210 (2.8)
State	13 (3.7)	9 (2.7)	17 (3.1)	17 (3.7)	70 (4.2)	74 (4.4)
A1-4'	217 (4.9)!	206 (2.8)1	217 (4.0)1	219 (2.2)	221 (2.2)	219 (2.7)
Nation	19 (3.2) 216 (4.4)	24 (4.5) 214 (3.2)	23 (4.1) 223 (3.5)	22 (2.8) 223 (2.6)	58 (4.7)	54 (5.0)
Rural/Small Town	-10 (7.7)	-14(02)	EE3 (3.3)!	ZZ3 (Z.D) ,	222 (3.3)	222 (2.3)
State	20 (5.7)	25 (7.0)	11 (42)	16 (-5.4)	69 (5.3)	59 (8.1)
Nation	214 (2.0)!	208 (3.0)1	77(7)	7(7)	220 (3.0)	219 (3.5)
NAUUII	17 (5.8) 215 (5.4)	20 (·5.2) 211 (·5.6)	17 (4.6) 220 (3.2)	16 (3.5) 216 (4.1)!	65 (7.0) 219 (4.4)	64 (5.6) 214 (2.3)
		1,000/		-,0 (-,.,)	-10(7.7)	£.74 (.2.J)





TABLE D6.2B (continued)

Public School Teachers' Reports on the Frequency of Using Reading Kits

1994 Trial State Assessmen

At Least O	nce a Week	Once or Tw	ice a Month	Never or H	lardly Ever
1992	1994	1992	1994	1992	1994

		Percentage and Proficiency					
PARENTS' EDUCATION	100						
College graduate	17 (3.4)	15 (2.3)	17 (2.7)	21 (3.4)	66 (3.8)	64 (3.6)	
State	222 (3.2)	215 (2.9)	224 (3.0)	222 (2.8)	226 (1.5)	225 (2.2)	
Nation	20 (2.7)	21 (2.7)	20 (2.9)	19 (1.9)	60 (3.3)	60 (3.1)	
	218 (3.7)	214 (3.4)	225 (3.7)	224 (2.3)	226 (2.4)	226 (1.6)	
Some ed after HS State	11 (3.2)	14 (3.1)	22 (3.9)	23 (4.1)	67 (4.6) 226 (2.8)	63 (4.3) 223 (4.2)	
Nation	26 (5.1) 220 (6.7)	17 (2.2) 214 (5.9)	18 (3.6)	20 (3.0) 221 (3.7)	57 (6.0) 222 (3.7)	63 (3.4) 224 (2.9)	
HS graduate State	19 (3.2)	14 (3.7)	16 (3.3)	21 (42) - (-7)	65 (4.2) 212 (3.1)	65 (5.1) 214 (4.0)	
Nation	20 (2.9)	24 (3.4)	20 (2.9)	22 (3.1)	60 (3.8)	54 (3.9)	
	205 (4.7)	204 (4.1)	216 (3.2)	208 (4.5)	214 (3.8)	208 (2.6)	
HS non-graduate State	17 (5.3)	26 (6.4)	17 (4.6)	13 (4.3)	66 (4.9)	61 (7.0)	
Nation	30 (5.3)	25 (3.9) 183 (11.3)	16 (3.8)	18 (3.5)	54 (5.2) 199 (5.6)	58 (5.5) 186 (3.8)	
I don't know	17 (2.9)	17 (2.8)	15 (2.4)	18 (2.7)	68 (3.4)	65 (3.7)	
State	209 (3.2)	205 (3.3)	206 (4.6)	203 (3.8)	211 (1.9)	206 (2.4)	
Nation	24 (2.8)	21 (3.0)	19 (2.6)	22 (2.5)	57 (3.4)	57 (3.5)	
	204 (2.4)	198 (3.7)	212 (2.7)	207 (2.9)	212 (2.3)	208 (1.9)	
GENDER							
Male	17 (2.8)	16 (2.4)	16 (2.6)	19 (3.0)	67 (3.2)	65 (3.5)	
State	213 (2.5)	204 (2.5)	211 (3.9)	213 (3.4)	216 (1.6)	211 (2.2)	
Nation	21 (2.6)	22 (2.6)	20 (2.5)	20 (2.1)	59 (3.5)	58 (3.0)	
	205 (3:0)	200 (3.0)	214 (2.4)	209 (2.6)	215 (2.5)	210 (1.9)	
Female	17 (2.9)	16 (2.4)	17 (2.6)	20 (2.8)	66 (3.4)	63 (3.3)	
State	217 (3.5)	214 (2.4)	218 (3.6)	217 (3.0)	221 (1.8)	220 (2.2)	
Nation	24 (2.8)	20 (2.5)	19 (2:3)	21 (2.2)	57 (3.1)	59 (3.2)	
	216 (2.6)	212 (3.3)	221 (2:8)	220 (2.0)	222 (2.1)	222 (1.6)	

SCHOOL TYPE						
Public						
State	()	16 (2.3)	== (===)	20 (2.8)		64 (3.3)
	()	209 (1.7)	(<i>;</i> -)	215 (2.7)	(=,=)	215 (1.9)
Nation	()	21 (2.5)	(-:-)	21 (2.0)	 == (===)	58 (3.0)
	(=)	206 (2.8)	()	214 (1.9)	 ()	216 (1.5)
Non-Public						
State	— (— <i>e</i>)	12 (7.7)	()	43 (19.9)	()	45 (18.4)
N 1 11	=== (===)	*** (**.*)	·=== (==,=)	*** (**.*)	()	(".")
Nation	== (===)	23 (4.5)	 ==(==)	17 (4.3)	== (==)	60 (4.5)
Combined	()	234 (4.3)!	===(===)	227 (5.5)!	==(===)	230 (3.4)
State	()	16 (2.3)	()	21 (2.9)	()	63 (3.3)
Oldic	()	*** (**.7)	 = (==)	*** (****)		(**.5)
Nation	,(j	21 (2.3)	== (==)	20 (1.9)	()	58 (2.7)
==	()	209 (2.5)		215 (1.8)	(===)	217 (1.4)
	· ·					

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.







TABLE D6.2C

Public School Teachers' Reports on the Frequency of Using Computer Software for Reading Instruction

At Least O	nce a Week	Once or Tw	ice a Month	Never or H	ardly Ever
1992	1994	1992	1994	1992	1994

				_		
			Percentage a	nd Proficiency		
<u>TOTAL</u>						
State	15 (2.6) 212 (3.2)	22 (2.7)	26 (2.6)	24 (2.5)	59 (3.5)	55 (3.1)
Nation	25 (3.0)	211 (2:3) 24 (2:3)	216 (1.6) 23 (2.7)	213 (2.6) 22 (2.4)	219 (1.7) 52 (3.8)	216 (1.7) 55 (2.7)
RACE/ ETHNICITY	212 (2.4)	211 (2.4)	216 (2.6)	219 (.2.5)	218 (1.9)	213 (1.5)
White State	13 (2.4)	20 (2.7)	25 (2.7)	24 (2.5)	62 (3.7)	55 (3.3)
Nation	216 (3.1) 21 (3.0) 221 (2.3)	220 (2.6) 23 (2.6) 222 (2.3)	219 (1.6) 26 (3.5) 221 (2.7)	219 (2.9) 23 (2.7) 226 (2.4)	224 (1.7) 53 (4.3)	225 (1.5) 54 (3.2)
Black State					224 (2.1)	222 (1.8)
	16 (4.6)	18 (62)	47 (6.4)	15 (42)	37 (7.4)	66 (6.8) 189 (6.6)1
Nation	42 (5.2) 194 (3.1)	28 (4.5) 184 (3.2)	16 (3.3) 193 (4.9)	15 (3.5) 189 (6.4)	42 (4.7) 194 (3.1)	57 (5.2) 187 (1.9)
Hispanic State	23 (5.0)	28 (4.0)	23 (3.5)	25 (3.5)	54 (4.2)	47 (3.8)
Nation	203 (4.3)! 28 (6.2) 203 (5.3)!	192 (3.9) 26 (4.1) 187 (3.7)	207 (3.2) 18 (2.7) 197 (5.8)	197 (5.3) .22 (3.7) 197 (6.0)	201 (3.0) 54 (7.0) 202 (2.4)	191 (2.9) 52 (3.8)
American Indian	200 (0.0)	.0. (0)	107 (3.5)	137 (0.0)	202 (2.4)	190 (3:3)
State	14 (5.9)	20 (5.3)	25 (6.9)	16 (4.0)	61 (8.2)	64 (6.4)
Nation	15 (4.6)	30 (5.8)	15 (4.5)	18 (4.9)	70 (5.9)	51 (6.2) 199 (5.3)
TYPE OF LOCATION						(5.2)
Central City State	24 (5.7)	31 (4.6)	31 (5.7)	19 (3.6)	45 (7.4)	50 (4.8)
Nation	211 (5.0)! 37 (6.5) 207 (3.4)!	209 (3.2) 22 (3.2) 202 (4.2)	213 (3.3)! 20 (3.6) 207 (4.0)	209 (4:8)1 26 (3:8) 215 (4:8)	214 (3.3) 43 (5.6) 209 (3.4)	208 (3:8) 52 (3:6) 201 (2:3)
Urb Frng/Lrg Town State						
	11 (3.0) 211 (5.7)	13 (3.4) 213 (4.3)	25 (4.5) 219 (2.4)	28 (3.9) 214 (3.7)	63 (5.1) 221 (2.5)	60 (4.5) 220 (2.7)
Nation	22 (4.6) 218 (4.3)!	22 (3.7) 215 (4.0)	18 (3.2) 218 (4.2)	23 (3.8) 222 (3.5)	60 (5.1) 222 (3.1)	56 (4,4) 222 (2,1)
Rural/Small Town State	13 (4.6)	26 (7.4)	18 (5.6)	22 (6.7)	69 (6.9)	51 (8.3)
Nation	216 (5.1) 17 (4.1) 212 (3.5)	213 (4.7) 30 (5.5) 215 (5.1)	218 (3.9) 33 (7.1) 220 (4.4)!	214 (6.7)! 13 (4.3) 217 (5.4)!	218 (3.2) 50 (7.8) 219 (3.2)	220 (2.4) 57 (6.3) 212 (3.0)

(continued on next page)





TABLE D6.2C (continued)

Public School Teachers' Reports on the Frequency of Using Computer Software for Reading Instruction

1994 Trial State Assessme

ĺ	At Least Or	nce a Week	Once or Tw	ice a Month	Never or H	ardly Ever
	1992	1994	1992	1994	1992	1994

			Percentane a	nd Proficiency		
			r cicemage a	na rionciency		
<u>PARENTS'</u> <u>EDUCATION</u>						
College graduate	12 (2.3)	21 (2.7)	27 (2.8)	25 (2.7)	60 (3.6)	55 (3.3)
State	217 (3.6)	219 (3.2)	222 (2.1)	222 (2.6)	228 (1.8)	224 (2.1)
Nation	25 (3.5)	22 (2.1)	23 (3.5)	23 (3.0)	53 (4.6)	.55 (3.4)
	221 (3.2)	220 (2.8)	223 (3.1)	230 (2.8)	225 (2.6)	222 (1.6)
Some ed after HS State	15 (3.2)	23 (4.5)	24 (4.1)	21 (3.9) (7.7)	61 (5.3) 224 (2.3)	56 (4.7) 221 (3.6)
Nation	23 (3.4) 214 (4.9)	23 (3.1) 219 (3.9)		23 (3.4) 224 (4.9)	51 (4.9) 223 (3.8)	54 (3.6) 222 (3.0)
HS graduate State	18 (3.7)	23 (4.0)	22 (3.8) (7)	21 (3.8)	80 (4.6) 210 (3.6)	56 (4.6) 214 (4.1)
Nation	26 (4.1)	25 (3.0)	20 (2.9)	17 (2.5)	54 (4.7)	58 (3.0)
	209 (4.2)	207 (3.5)	211 (4.1)	206 (4.6)	215 (2.8)	208 (3.2)
HS non-graduate State	19 (5.6)	26 (6.4)	23 (5.8)	20 (4.4)	59 (7.2) (**.*)	54 (6:3)
Nation	34 (5.1) 195 (6.5)	27 (4.2) 190 (10.2)	22 (3.5) *** (***)	18 (3.4)	44 (4.7) 199 (6.3)	55 (3.8) 186 (4.6)
I don't know	18 (3.4)	.22 (3.1)	25 (2.8)	24 (3.2)	57 (3.8)	54 (13:8)
State	206 (4.1)	201 (3.4)	212 (2.5)	201 (3.6)	210 (2.4)	208 (12:2)
Nation	24 (3.1)	25 (3.0)	25 (3.1)	22 (2.5)	51 (4.0)	54 (2.9)
	206 (2.5)	204 (3.2)	210 (3.4)	210 (2.9)	213 (2.0)	205 (1.9)
GENDER						
Male	13 (2.4)	23 (2.9)	26 (2.6)	23 (2.6)	61 (3.6)	54 (3.2)
State	210 (3.6)	205 (2.7)	212 (2.2)	209 (3.3)	217 (2.0)	212 (2.1)
Nation	24 (3.0)	25 (2.4)	24 (3.2)	21 (2.4)	52 (4.0)	55 (2.8)
	208 (3.1)	204 (3.1)	212 (3.3)	215 (3.3)	214 (2.1)	207 (1.7)
Female	17.(2.9)	21 (2.7)	25 (2.8)	24 (2.6)	58 (3.7)	55 (3.2)
State	213.(4.0)	217 (2.8)	221 (2.0)	215 (2.5)	221 (2.1)	220 (2.0)
Nation	26 (3.1)	23 (2.4)	22 (2.4)	23 (2.5)	52 (3.8)	55 (2.7)
	216 (2.4)	216 (2.1)	221 (2.7)	222 (2.6)	222 (2.1)	219 (1.5)

(3.1)
(1.7)
(2.7)
(1.5)
(7.4)
(3.9)
(5.2)
(3.2)
(3.1)
(1.7)
(2.6)
(1.3)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. —— School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.

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TABLE D6.2D

Public School Teachers' Reports on the Frequency of Using a Variety of Books

At Least O	nce a Week	Once or Tw	ice a Month	Never or H	ardly Ever
1992	1994	1992	1994	1992	1994

			Percentage a	nd Proficiency		
TOTAL State	84 (2:7)	00/40	40.000	0.40		
,	218 (1.3)	90 (1.9) 215 (1.3)	12 (2.2) 211 (3.7)	9 (1.9) .202 (5.1)	4 (1.3) 216 (5.2)	1 (0.6)
Nation	65 (3.1) 217 (1.8)	75 (22) 214 (1.4)	26 (3.0) 216 (2.3)	.21 (1.9) 214 (2.4)	9 (1.5) 210 (3.3)	5 (1.0) 208 (3.5)
RACE/ ETHNICITY White						
State	88 (2.7)	91 (1.9)	8 (1.9)	8 (1.8)	4 (1.4)	1 (0.7)
Nation	222 (1.2) 65 (3.7)	224 (1.3) 75 (2.6)	220 (3.9) 26 (3.6)	214 (5.6)! 21 (2.3)	218 (6.3)! 8 (1.7)	4(1.1)
Black	224 (1.9)	223 (1.6)	222 (2.2)	225 (2.4)	214 (3.8)	216 (4.4)
State	87 (5.5) 210 (4.2)	89 (4.0) 193 (5.1)	10 (5.4)	11 (4.0)	3 (1.8)	0 (0.0)
Nation	62 (3.8)	70 (3.8) 186 (2.2)	28 (3.9)	21 (2.9)	10 (2.6)	9 (2.0)
Hispanic State			195 (4.3)	187 (3.3)	(**.*)	191 (4.1)
	72 (4.8) 203 (2.3)	194 (2.2)		12 (2.9) 188 (6.0)!	4 (1.7)	1 (0.5)
Nation	67 (4.3)	76 (3.1) 191 (2.7)	26 (3.7) 203 (5.1)	20 (2.8) 186 (4.2)	7 (2.2)	4 (1.1)
American Indian State	82 (6.1)	88 (3.8)	11 (5.0)	10 (3.7)	7 (3.9)	1 (1.2)
Nation	73 (6.3)	211 (5.8) 76 (4.2)	*** (** *)	*** (****)	*** (**.*)	*** (**.*)
	73 (00)	202 (4.7)	17 (5:0)	19 (3.8)	11 (42)	5 (1.9) *** (***)
TYPE OF LOCATION						
Central City State	79 (5.4)	87 (3.9)	19 (5.3)	13 (3.9)	2 (1.6)	(0.0)
Nation	213 (2.6) 69 (4.4)	210 (2.8)	213 (4.6)	200 (5.8)1	(".")	(7)
	208 (2.7)	67 (4:3) 204 (3:2)	21 (3.3) 208 (4.0)	27 (3.9) 205 (4.1)	10 (3.0) 206 (4.0)	6 (1:2) 206 (4:0)
Urb Frng/Lrg Town State	95 (2.7)	91 (2.8)	4 (2.2)	8 (2.7)	1 (0.9)	1 (0.7)
Nation	220 (1.9) 68 (4.3)	219 (2.0) 80 (3.1)	28 (3.7)	16 (2.8)	*** (**.*) 5 (1.5)	4 (1.6)
Rural/Small Town	222 (2.7)	219 (2.0)	219 (3.4)	226 (2.3)	215 (6.0)	217 (6.4)
State	70 (7.4)	94 (2.3)	18 (5.2)	2 (1.1)	13 (4.4)	4 (2.2)
Nation	220 (2.8) 58 (6.9)	217 (2.6) 75 (5.3)	208 (5.2) 29 (6.5)	19 (4.3)	12 (3.8)	5 (2.0)
	220 (4:2)	215 (2.5)	218 (4:2)	213 (5.3)	209 (5.5)!	200 (6.8)

(continued on next page)





TABLE D6.2D (continued)

Public School Teachers' Reports on the Frequency of Using a Variety of Books

1994 Trial State Asses

At Least O	nce a Week	Once or Tw	ice a Month	Never or H	ardly Ever
1992	1994	1992	1994	1992	1994

			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate State	88 (2.5) 226 (1.5)	.93 (1.5) 223 (1.5)	8 (1.8) 218 (4.6)	6 (1.4) 208 (7.3)!	4 (15)	1 (0.4)
Nation	66 (3.4) 225 (2.3)	76 (2.4) 224 (1.5)	26 (3.2) 224 (3.4)	19 (2.0) 221 (3.2)	7 (1.4) 213 (5.1)	5 (1.1) 215 (3.9)
Some ed after HS State	83 (3.9) 224 (2.8)	90 (2.5) 221 (2.9)	13 (3.4)	10 (2.5)	4 (2.0)	0 (0.5)
Nation	67 (4.3) 221 (2.9)	77 (2.7) 221 (2.9)	22 (3.3) 224 (5.6)	18 (2.4) 224 (4.8)	10 (3.1)	5(16)
HS graduate State	77 (4.3) 212 (2.6)	89 (2.8) 215 (3.1)	18 (3.4)	7(22)	6 (2.1)	3 (1.9)
Nation	63 (4.4) 213 (3.1)	70 (3.2) 205 (2.2)	27 (4:5) 211 (3:7)	26 (2.9) 211 (4.3)	10 (2.8)	4 (1.2)
HS non-graduate State	76 (5.1) ()	90 (4.0) 194 (5.7)	16 (4.3) ()	9 (3.6) (**.*)	8 (2.5)	2 (1.6)
Nation	65 (4.7) 199 (3.8)	71 (4.5) 185 (4.6)	26 (4.6)	21 (3.6) 198 (7.7)	9 (2.6)	8 (2.2)
I don't know State	84 (3.0) 210 (1.8)	87 (3.0) 206 (1.7)	13 (2.6) 207 (4.0)	12 (3.0) 197 (6.4)!	3 (1.1)	1 (0.6)
Nation	64 (3.3) 211 (2.1)	75 (2.4) 206 (1.7)	27 (3.3) 210 (2.6)	21 (2:2) 206 (2:9)	9 (1.5) 204 (3.4)	5 (0.9) 198 (6.8)
GENDER Male State	84 (3.0)	91 (.1.8)	12 (2.4)	6 (1.8)	4:(1.3)	1 (0.4)
Nation	215 (1.4) 66 (3.3) 213 (2.2)	211 (1.8) 75 (2.3) 208 (1.4)	209 (5.2) 26 (3.1) 214 (2.4)	196 (6.4)! .20 (1.9) .207 (3.3)	8 (1.5) 204 (4.0)	5 (1.1) 203 (4.5)
Female State	85 (2.8) 221 (1.7)	89 (2.3) 220 (1.6)	12 (2.3) 213 (3.7)	10 (2.2) 208 (5.5)	4 (1.3)	1 (0.8)
Nation	65 (3.1) 222 (1.8)	74 (2:3) 219 (1:6)	26 (3.0) 218 (2.6)	21 (2.0) 220 (2.3)	9 (1.8) 214 (4.0)	5 (0.9) 214 (3.4)
SCHOOL TYPE						
Public State	=(=) =(=)	90 (1:9) 215 (1:3)	==	9 (1.9) 202 (5.1)I	== (==) == (==)	1 (0.5)
Nation	== (===) == (===)	75 (2.2) 214 (1.4)		21 (1.9) 214 (2.4)		5 (1.0) 208 (3.5)
Non-Public State	== (==) == (==)	61 (22.8)		31 (23.2) - (7.7)		8 (6.1)
Nation	=(=)	51 (5.7) 232 (3.7)		40 (5.3) 228 (3.8)		9 (2.5) 235 (4.2)
Combined		00/22		(0.2)		2(06)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.

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88 (2.3)

*** (**.*) 72 (2.0)

215 (1.3)



10 (2.3)

23 (1.7)

216 (2.1)

State

Nation

2 (0.6)

5 (0.9)

213 (3.1)



TABLE D6.2E

Public School Teachers' Reports on the Frequency of Using Materials from Other Subject Areas

1994 Trial State Assessment

At Least O	nce a Week	Once or Tw	ice a Month	Never or H	lardly Ever
1992	1994	1992	1994	1992	1994

			Percentage a	nd Proficiency		
TOTAL.						
State	72 (3.1)	74 (2.5)	21 (2.6)	23 (2.3).	7 (1.7)	3 (1.1)
	218 (1.5)	214 (1.6)	215 (2.2)	215 (2.5)	211 (5.2)	208 (10.2)!
Nation	56 (2.5)	69 (2.3)	30 (2.5)	22 (2.0)	14 (2.3)	9 (1.5)
PACE/ ETUNIOTTY	218 (1.9)	213 (1.3)	213 (2.0)	214 (2.1)	217 (3.2)	212 (3.9)
RACE/ ETHNICITY White						
State	74 (3 3)	74/070				
State	74 (3.3) 223 (1.4)	74 (2.7) 223 (1.6)	20 (2.7)	23 (2.5)	7 (1.6)	3 (1.1)
Nation	55 (3.0)	69 (2.6)	219 (1.9) 30 (3.0)	223 (2.4) 23 (2.3)	216 (4.5)!	7(7.2
	226 (2.1)	223 (1.5)	219 (2.2)	223 (2.4)	15 (2.8) 221 (3.5)	9 (1.9) 220 (4.5)!
Black			``'	\ /		
State	65 (8.9)	79 (4.0)	28 (7.2)	16 (5.0)	7 (3.6)	5 (2.6)
Nation	**(**)	192 (5.7)	*** (****)	••• (•••)	*** (**.*)	***(**.*)
Nation	59 (4.0) 193 (2.3)	67 (3.9)	31 (4.4)	24 (3.1)	10 (2.7)	9 (2.2)
Hispanic	193 (2.3)	186 (2.3)	193 (-2.9)	185 (3.5)	201 (5.1)	192 (5.4)!
State	67 (5.0)	73 (3.5)	24 (4.6)	22 (3.1)	9 (2.8)	E (1 B)
	202 (2.5)	193 (2.5)	206 (4.2)	195 (4.9)	5 (2.0) **** (** *)	5 (1.8)
Nation	58 (3.4)	71 (3.2)	27 (3.4)	21 (2.8)	15 (2.5)	8 (2.1)
	201 (2.7)	189 (2.8)	202 (3.7)	195 (5.0)	203 (4.6)	189 (6.5)
American Indian State						
State	67 (7.7)	76 (5.1)	21 (7.1)	23 (5.0)	12 (5.3)	1 (1.0)
Nation	46 (7.8)	208 (5.8) 66 (5.4)	36 (5.3)	29 (5.0)	(***)	***(***)
1	22 (23)	196 (5.8)	30 (3.3)	29 (5.0)	18 (5.5) *** (**.*)	5 (1.9)
TYPE OF		(00 (0.0)			1.9	()
LOCATION						
Central City						
State	68 (6.4)	79 (3.9)	25 (5.2)	17 (3:7)	7 (3.1)	4 (1.8)
N-6	213 (2.6)	209 (2.8)	213 (4.8)!	206 (6.0)1	· · · · · · · · · · · · · · · · · · ·	··· (····)
Nation	58 (5.2)	67 (3.4)	32 (3.8)	24 (2.8)	10 (3.7)	9 (2.5)
Urb Frng/Lrg Town	209 (2.8)	204 (2.6)	205 (3.1)	208 (3.6)	212 (3,3)!	204 (5.6)!
State	79 (3.6)	74 (-4.0)	18 (3.2)	23 (3.9)	2740	2/10
	221 (2.0)	217 (2.4)	216 (3.1)	219 (2.7)I	2 (1.8)	3 (1.8)
Nation	55 (3.9)	70 (3.9)	29 (4.6)	22 (3.6)	16 (3.2)	7 (2.1)
	222 (3.2)	220 (2.2)	218 (2.9)1	221 (2.7)	222 (5.8)	222 (6.5)1
Rural/Small Town						
State	60 (7.1)	65 (.5.2)	23 (4.8)	32 (4.5)	16 (4.6)	3 (1.6)
Nation	219 (3.5) 55 (3.8)	216 (3.9) 69 (4.7)	215 (3.8)1	218 (3.7)	()	()
	222 (4.0)	215 (2.2)	28 (4.7) 214 (4.5)1	21 (3.2) 210 (4.2)	17 (3.5) 214 (4.1)	10 (3.5)
			-14 (4.3)	210 (42)	C14 (4.1)	209 (5.6)1
		2000				and the second s

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TABLE D6.2E (continued)

Public School Teachers' Reports on the Frequency of Using Materials from Other Subject Areas

1994 Trial State Assessmen

At Least O	nce a Week	Once or Tw	ice a Month	Never or H	ardly Ever
1992	1994 .	1992	1994	1992	1994

		1	Percentage a	nd Proficiency		
<u>PARENTS'</u> EDUCATION						
College graduate State	75 (32) 227 (17)	75 (2.8) 223 (1.8)	19 (2.7) 221 (2.6)	21 (2.4) 222 (3.3)	6 (1.5)	4 (14)
Nation	59 (3.1) 226 (2.4)	69 (2.5) 223 (1.6)	27 (2.7) 27 (2.7) 220 (2.9)	23 (2.2) 23 (2.8)	14 (2.4) 224 (5.3)	8 (1.7) 222 (4.4)
Some ed after HS	220 (2.4)	220 (1.0)	220 (2.8)	224 (2.0)	EE4 (3.3)	222 (4.4)
State	63 (4.6)	79 (3.0)	27 (3.7)	20 (2.9)	- 10 (3.9)	1 (0.7)
Nation	224 (2.8) 55 (4.3) 224 (3.7)	220 (3.3) 70 (3.4) 222 (2.6)	219 (5.4) 35 (4.4) 219 (4.3)	23 (2.8) 221 (4.9)	10 (2.4)	7 (2.0) 7 (2.0)
HS graduate	224 (3.1)	222 (2.0)	218 (4.3)	221 (4.5)	1.7	(.)
State	73 (4.0)	69 (3.4)	20 (3.8)	28 (3.8)	7 (2.2)	2 (1.0)
1	213 (-2.4)	212 (3.2)	(7.7)	222 (6.7)	7(7)	(,n)
Nation	56 (3.0) 213 (3.0)	66 (3.1) 207 (2.1)	26 (3.0) 209 (3.6)	26 (2.9) 205 (5.0)	18 (.2.7) 215 (.4.3)	8 (1.5) 217 (4.2)
HS non-graduate	213 (3.0)	201 (2.1)	208 (3.0)	EU3 (3.0)	213 (4.3)	211 (42)
State	66 (.5.6)	69 (5.5)	23 (5.6)	26 (5.3)	12 (3.3)	4 (2.2)
	(")	188 (5.8)	(***)	()	(1.3)	()
Nation	55 (4.6) 195 (2.9)	65 (4.3) 191 (4.6)	30 (4.6)	23 (4.2)	14 (3.5)	11 (2.9)
I don't know	133 (23)	131 (4.0)	1 - 1	, ,	(.)	, ,
State	71 (3.6)	73 (3.2)	22 (3.1)	24 (3.1)	7 (1.9)	4 (1.3)
	210 (2.1)	204 (2.0)	211 (2.7)	207 (3.6)	*** (***)	*** (**.*)
Nation	53 (2.7) 211 (2.3)	70 (2.7) 205 (1.8)	32 (2.6) 208 (2.8)	20 (2.4) 208 (2.4)	15 (2.8) 211 (2.3)	10 (1.7) 202 (5.2)
GENDER	211 (23)	200 (1.6)	200 (2.5)	2U0 (2.4)	211 (2-3)	- 20E (3.2)
Male						
. State	71 (3.2)	74 (2.6)	21 (2.5)	23 (2.4)	8 (1.9)	4 (1.2)
4	217 (17)	209 (2.0)	210 (2.5)	212 (3.2)	210 (8.0)!	(7.7)
Nation	57 (2.6) 214 (2.2)	69 (2.3) 208 (1.4)	30 (2.5) 209 (2.2)	22 (2.0) 206 (2.6)	13 (2.4) 212 (3.4)	9 (1.7) 208 (4.5)
Female	214(22)	200 (1.4)	200 (2.2)	200 (2.0)	E (E (3.7)	200 (4.3)
State	72 (3.4)	74 (2.7)	21 (3.0)	23 (2.4)	6 (1.8)	3 (1.1)
\$1a4'a-	220 (2.1)	219 (1.8)	221 (2.8)	219 (2.9)	213 (4.0)!	(***)
Nation	55 (2.6) 222 (2.0)	69 (2.5) 219 (1.5)	30 (2.7) 217 (2.6)	23 (2.1) 221 (2.0)	15 (2.5) 221 (3.5)	8 (1.6) 217 (4.5)
	(V)	2101110	1 -1 (C.V)		**************************************	£11 (30)

COLLOGI TYPE						
SCHOOL TYPE						
Public						
State	(==)	74 (2.5)	· == (===)	23 (2.3)	· == (===)	3 (1.1)
	(==)	214 (1.6)	* === (==,=) **	215 (2.5)	· (;-)	208 (10.2)!
Nation	(-)	69 (2.3)	()	22 (2.0)	== (=.=)	9 (1.6)
	===(===)	213 (1.3)	· === (==,=)	214 (2.1)	=== (== <i>=</i>)	212 (3.9)
Non-Public						
State	(<u>-</u>).	85 (23.2)	(,-)	31 (23.2)	==(=,=)	4 (5.0)
	(===)	242 (4.0)1	()	*** (** n	=== (==:=)	*** (***)
Nation	(=_i)	56 (6.2)	()	33 (6.0)		11 (2.8)
	== (==i	231 (3.6)	(<u></u> _)	227 (3.5)	==(==i	238 (2.7)
Combined		- (,			· · · · · ·	
State	()	73 (2.7)	=== (==,=)	23 (2.6)	=== (===)	3 (1.1)
	(<u></u> ; <u>_</u> _)	215 (1.7)	·— (—,=)	*** (** *)	- == (=.=)	*** (** *)
Nation		68 (2.2)	· == i==i	24 (1.9)	ii	9 (1.4)
	(=)	215 (1.2)	((216 (1.9)	(i	215 (3.6)
	(/	(/		()	·/	()

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.

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TABLE D6.3A

Public School Teachers' Reports on Asking Students to Work in a Reading Workbook or on a Worksheet

 Almost Every Day
 At Least Once a Week
 Less than Weekly

 1992
 1994
 1992
 1994

					<u> </u>	
			Percentage a	nd Proficiency		
<u>TOTAL</u>						
State	10 (2.1)	9 (1.6)	42 (3.6)	39 (3.5)	48 (3.6)	52 (3.4)
	218 (3.0)	203 (4.7)	216 (2.0)	213 (2.0)	218 (1.8)	217 (2.0)
Nation	31 (2.7)	26 (2.6)	48 (3.4)	48 (2.5)	22 (2.8)	26 (2.9)
RACE/ ETHNICITY	213 (1.8)	207 (.2.5)	216 (1.7)	214 (1.4)	221 (3.3)	217 (1.9)
White						
State	10 (2.3)	6 (1.4)	40 (3.9)	39 (3.9)	50 (3.7)	55 (3.8)
	222 (.2.7)!	225 (4.0)!	220 (1.8)	221 (2.1)	223 (1.9)	224 (1.9)
Nation	28 (3.0) 220 (2.1)	23 (2.8)	49 (3.9)	49 (3.0)	23 (3.3)	29 (3.4)
Black	220 (2.1)	220 (2.3)	223 (1.9)	223 (1.8)	227 (3.3)	224 (2.1)
State	6 (3.1)	17 (3.4)	47 (7.3)	37 (6.0)	47 (7.6)	47 (7.4)
l	*** (**.*)	*** (** *)	*** (****)	··· (**.*)	*** (**.*)	195 (5.8)
Nation	39 (4.1)	38 (4.8)	44 (4.0)	48 (3.4)	17 (4.1)	14 (3.1)
Hispanic	196 (2.7)	183 (2.3)	192 (2.4)	188 (2.1)	195 (4.7)!	189 (4.3)
State	10 (2.9)	16 (3.7)	48 (4.5)	42 (4:3)	41 (5.5)	42 (4.0)
	*** (***)	183 (4.9)!	204 (3.5)	196 (3.1)	201 (2.5)	195 (3.3)
Nation	40 (4.0) 199 (3.0)	29 (3.3) 188 (4.6)	46 (3.9)	45 (4.4)	14 (3.5)	26 (3.5)
American Indian	139 (3.0)	100 (4.0)	202 (3.3)	193 (3.2)	205 (5.8)!	188 (-4.3)
State	13 (5.5)	13 (4.5)	41 (7.8)	33 (7.7)	46 (7.8)	54 (7.4)
l	*** (**.*)	*** (****)	*** (****)	(***)	*** (****)	*** (****)
Nation	27 (5.6)	28 (5.6)	39 (7.6)	45 (4.8)	35 (7.1)	27 (5.5)
TYPE OF	(.)	(-)	(-)	(**.*)	*** (**:*)	*** (**.*)
LOCATION						
Central City						
State	12 (4.6)	13.(2.4)	43 (6.3)	42 (6.0)	45 (6.3)	45 (5.6)
Nation	214 (5.4) 40 (5.7)	195 (6.3) 34 (4.4)	214 (3.7) 42 (4.2)	206 (3.1)	211 (2.9)	215 (3.6)
Nauon	207 (3.0)	198 (4.0)	205 (3.1)	45 (3.9) 208 (2.7)	18 (3.7) 216 (4.4)	21 (3.9) 208 (3.9)
Urb Frng/Lrg Town				200 (2.1)	2.0 (4.4)	200 (0.3):
State	4 (1.5)	4 (1.8)	35 (5.3)	28 (4.4)	62 (5.4)	68 (4.9)
Nation	21 (3.7)	20 (4.1)	216 (3.2)	215 (2.7)	222 (2.5)	218 (2.7)
1480011	217 (2.8)	216 (4.1)	54 (4.1) 221 (2.7)	46 (4.3) 219 (2.4)	25 (4.5) 223 (4.8)!	34 (4.2) 224 (2.5)
Rural/Small Town			1 1		(7.0,	(2.3)
State	21 (5.9)	11 (6.0)	55 (8.3)	58 (9.0)	25 (5.9)	31 (7.9)
Nation	222 (3.2)! 34 (6.4)	23 (5.6)	216 (3.7) 45 (9.1)	221 (3.2)	219 (4.0)1	215 (4.8)
140011	215 (3.8)	212 (5.4)	218 (3.1)	57 (6.2) 215 (2.3)	21 (6.8) 223 (6.9)	20 (6.2) 212 (4.4)
	, , , , ,	, //				-1-(7.7)

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TABLE D6.3A (continued)

Public School Teachers' Reports on Asking Students to Work in a Reading Workbook or on a Worksheet

1994 Trial State Assessmen

Almost E	very Day	At Least O	nce a Week Less than		n Weekly
1992	1994	1992	1994	1992	1994

	<u> </u>		<u> </u>			<u>. </u>
			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate State	9 (2.1) 226 (2.9)	7 (1.5) 216 (5.7)	37 (3.8) 221 (2.0)	36 (3.4) 221 (2.6)	53 (4.0) 228 (1.9)	57 (3.6) 224 (2.3)
Nation	30 (3.2) 220 (2.5)	24 (2.9) 24 (3.2)	46 (3.5) 225 (2.4)	48 (3.0) 224 (1.7)	24 (3.1) 227 (4.9)	28 (3.3) 28 (2.1)
Some ed after HS State	10 (3.5)	11 (2.8)	47 (4.9) 223 (4.1)	30 (4.3) 225 (5.3)	43 (4.7) 222 (4.0)	59 (4.8)
Nation	22 (3.4) 217 (4.7)	23 (3.2) 220 (5.6)	56 (5.8) 223 (3.6)	225 (5.3) 45 (3.8) 225 (2.8)	22 (4.0) 22 (4.6) 222 (4.3)	220 (4.1) 32 (3.8) 219 (4.3)
HS graduate State	15 (3.5)	9 (23)	45 (4.7) 211 (3.4)	48 (5.6) 213 (4.2)	40 (4.3) 211 (3.7)	43 (4.8) 220 (4.8)
Nation	33 (3.9) 213 (3.3)	32 (3.6) 206 (3.6)	47 (4.4) 209 (2.8)	50 (3.0) 208 (2.8)	19 (4.0) 219 (4.6)	18 (2.5) 208 (4.3)
HS non-graduate State	13 (5.1)	20 (5.7)	45 (8.1) (**.*)	47 (6.3)	42 (7.1)	32 (6.3)
Nation	27 (4.6)	24 (4.7) 188 (5.9)	58 (5.1) 197 (4.1)	49 (4.5) 193 (5.5)	15 (3.4)	26 (5.0) 180 (8.7)
I don't know State	9 (2.2) 211 (5.2)	9 (2.0) 194 (6.9)		41 (3.9) 205 (2.5)	48 (4.0) 209 (2.5)	50 (3.7) 207 (2.4)
Nation	33 (3.0) 205 (2.2)	27 (2.8) 200 (3.1)	46 (3.5) 211 (2.2)	48 (2.9) 206 (1.8)	21 (2.7) 217 (3.5)	26 (2.9) 210 (2.3)
GENDER Male						
State	11 (2.4) 215 (3.5)	9 (1.7) 198 (5.8)	42 (3.9) 213 (2.4)	39 (3.5) 210 (2.9)	47 (3.7) 216 (2.1)	52 (3.5) 212 (2.3)
Nation	30 (3.0) 211 (2.4)	27 (2.7) 203 (2.6)	47 (3.8) 211 (1.9)	47 (2.4) 208 (1.6)	23 (3.0) 218 (3.5)	26 (2.8) 213 (2.7)
Female State	8 (2.0)	9 (1.7)	41 (3.7)	39 (3.6)	50 (3.8)	52 (3.6)
Nation	222 (3.7) 32 (2.7) 215 (2.0)	209 (5.3) 25 (2.6) 212 (3.0)	219 (2.5) 48 (3.2) 222 (2.2)	216 (2.1) 49 (2.9) 221 (1.7)	221 (2.3) 20 (2.7) 225 (3.6)	221 (2.2) 26 (3.1) 222 (1.8)
SCHOOL TYPE Public State	()	9 (1.6)	()	39 (3.5)	()	52 (3.4)
Nation		203 (4.7) 26 (2.6)	== (===) == (===)	213 (2.0) 48 (2.5)		217 (2.0) 26 (2.9)
Non-Public State		207 (2.5)	—(=) =(=)	214 (1:4) 47 (27:5)	()	217 (1.9) 41 (25.4)
Nation		34 (5.6) 230 (3.6)	==(===)	51 (5.3)	—() —()	15 (3.9)
Combined State	== (==) == (==)	230 (3.6) 9 (1.6)	== (==) == (==)	229 (3.7) 39 (3.6)	()	235 (5.4) 52 (3.5)
Nation	=(=:) =(=:)	27 (2.3)	() ()	48 (22)	== (===) == (===)	25 (2.6)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. —— School type results are not presented for 1992 since state-level non-public school data were not collected.

210 (2.1)

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



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216 (1.2)



TABLE D6.3B

Public School Students' Reports on Working in a Reading Workbook or on a Worksheet

1994 Trial State Assessmen

Almost E	very Day	At Least O	nce a Week	Less that	n Weekly
1992	1994	1992	1994	1992	1994

		<u> </u>	L			
			Percentage ar	nd Proficiency		
TOTAL						
State	43 (1.4)	42 (1.1)	29 (1.1)	30 (1:0)	28 (1.3)	28 (1:2)
	218 (1.4)	216 (1.7)	218 (1.6)	214 (2.1)	214 (1.7)	214 (1.9)
Nation	50 (1.6)	51 (1.3)	29 (1.0)	25 (0.9) <	21 (1.1)	24 (1.0)
RACE/ ETHNICITY	217 (1.1)	218 (1.3)	218 (1.7)	215 (1.4)	210 (1.7)	203 (1:9) <
White						
State	41 (1.6)	41 (1.4)	29 (1.3)	29 (1,3)	30 (1.4)	29 (1.6)
	223 (1.3)	225 (1.8)	224 (1.7)	223 (1.9)	219 (1.9)	221 (2.2)
Nation	48 (1.9)	50 (1.6)	30 (1.2)	25 (12)	22 (1.3)	25 (1.2)
Black	225 (1.5)	228 (1.4)	225 (1.9)	224 (1.5)	219 (2.1)	213 (2.2)
State	48 (4.3)	50 (4.0)	22 (3.5)	31 (4.5)	30 (5.1)	20 (2.0)
	*** (****)	(**.*)	(5)	(n.n)	()	- (- n
Nation	58 (2.3)	54 (1.8)	24 (1.8)	23 (1.4)	18 (1.6)	23 (1.4)
Hispanic	196 (2.3)	193 (2.1)	193 (2.9)	187 (3.1)	183 (2.8)	176 (2.8)
State	46 (2.3)	45 (2.3)	32 (1.9)	30 (1.9)	22 (2.3)	25 (1.7)
	205 (2.5)	196 (2.4)	202 (2.6)	191 (3.6)	201 (2.7)	195 (3.6)
Nation	51 (2.2)	50 (1.5)	29 (1.8)	24 (1.3)	20 (1.5)	26 (1.4)
American Indian	202 (1.8)	196 (3.2)	202 (3.1)	189 (3.4)	193 (4.9)	178 (4.0)
State	48 (-6.0)	43 (5.3)	24 (5.3)	34 (4:8)	28 (6.6)	23 (4.0)
	*** (****)	*** (**.*)	*** (****)	*** (** *)	()	(***)
Nation	47 (4.8)	50 (4.7)	23 (3.7)	25 (4.3)	30 (4.2)	25 (3.7)
TYPE OF	(1).	209 (5.3)	TT (TT)	()	(7)	(:7)
LOCATION						
Central City						
State	42 (1.9)	43 (1.9)	31 (1.3)	29 (1.8)	27 (2.3)	28 (2.1)
	212 (2.4)	213 (3.5)	212 (2.6)	208 (3.2)	208 (2.8)	209 (3.4)
Nation	50 (2.6) 208 (1.7)	51 (1.9) 210 (2.4)	29 (1.4) 210 (2.1)	24 (1.4)	21 (1.6)	25 (1.5)
Urb Frng/Lrg Town	200 (1.7)	210 (2.4)	210 (2.1)	205 (3.4)	203 (2.5)	197 (3.7)
State	39 (2.4)	40 (1.3)	29 (1.7)	31 (1.6)	32 (2.0)	29 (1.6)
B1- 41	221 (2.1)	217 (2.9)	222 (2.2)	216 (2.8)	217 (2.8)	217 (2.5)
Nation	46 (2.1) 221 (2.2)	50 (1.6)	32 (1.8)	26 (1.0)	22 (1.3)	24 (1.3)
Rural/Small Town	EZ! (Z.Z)	225 (2.0)	223 (3.2)	221 (2.2)	215 (2.6)	209 (2.7)
State	51 (-4.0)	47 (3.5)	27 (2.4)	30 (2.0)	22 (3.2)	23 (2.8)
Nag	222 (2.8)	218 (2.8)	218 (4.1)	220 (3.8)	214 (3.6)	213 (5.5)
Nation	55 (3.7) 220 (2.5)	51 (3.9)	24 (1.7)	25 (2.5)	20 (3.0)	24 (2.9)
	- EZU (Z.3)	219 (2.6)	218 (3:5)	215 (3:3)	212 (5.4)	201 (3.6)





TABLE D6.3B (continued)

Public School Students' Reports on Working in a Reading Workbook or on a Worksheet

1994 Trial State Assessmen

Almost E	very Day	At Least O	nce a Week	Less that	n Weekly
1992	1994	1992	1994	1992	1994

			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate State	44 (2.1) 224 (1.7)	42 (1.6) 223 (1.9)	29 (1.7) 226 (2.0)	31 (1.6) 222 (2.1)	27 (1.6) 225 (2.2)	.27 (1.7) 222 (2.4)
Nation	49 (2.2) 224 (1.8)	53 (14) 226 (13)	30 (17) 228 (2.5)	24 (1.2) 226 (1.8)	21 (1.6) 218 (2.7)	23 (12) 214 (3.0)
Some ed after HS State	45 (3.4) 227 (4.0)	46 (3.1) 219 (4.2)	31 (2.9) 223 (3.0)	27 (2.8)	24 (3.3) 220 (3.8)	27 (2.8)
Nation	51 (4.0) 222 (2.5)	48 (3.1) 227 (2.8)	29 (3.0) 225 (4.0)	26 (3.0) 223 (3.2)	20 (2.6)	26 (2.4)
HS graduate State	40 (2.7) 212 (3.0)	44 (2.9) 217 (3.5)	30 (3.0) 208 (4.1)	34 (2.9) 216 (4.8)	218 (6.5) 30 (3.2) 210 (3.2)	216 (4.0) 22 (2.5)
Nation	53 (2.4) 213 (2.7)	53 (2.4) 214 (2.6)	26 (2.0) 211 (2.8)	25 (1.8) 209 (3.4)	21 (2.0) 206 (2.9)	23 (2.0) 193 (3.7)
HS non-graduate State	43 (5.1)	47 (5.2)	26 (4.0)	29 (4.5)	31 (4.8)	24 (5.4) (;)
Nation	56 (3.2) 201 (3.0)	54 (4.2) 200 (4.1)	24 (3.1) 194 (5.6)	18 (2.7)	19 (2.3)	28 (2.8)
I don't know State	41 (1.9) 211 (2.0)	41 (1.9) 207 (2.5)	29 (1.7) 211 (2.8)	28 (1.5) 204 (3.0)	30 (1.6) 205 (2.6)	31 (1.8) 204 (2.7)
Nation	49 (1.9) 212 (1.7)	47 (1.5) 211 (1.7)	29 (1.3) 210 (2.0)	27 (1.0) 205 (2.1)	22 (1.2) 205 (2.4)	26 (1.2) 196 (2.4)
<u>GENDER</u> Male	` '				(,	
State	41 (1.8)	42 (1.4)	30 (1.6)	29 (1.3)	29 (1.3)	29 (1.5)
Nation	217 (1.8) 48 (1.7)	211 (2.1) 49 (1.4)	215 (1.9) 29 (1.1)	210 (2.9) 24 (1.1) <	209 (1.8) 23 (1.3)	209 (2.6) 27 (1.4)
Female State	213 (1.5) 44 (1.7) 219 (1.8)	215 (1.4) 43 (1.4) 220 (2.0)	214 (2.2) 28 (1.3) 221 (2.4)	208 (1.9)	208 (2.1)	198 (2.5) < 26 (1.5)
Nation	52 (1.9) 220 (1.2)	52 (1.5) 222 (1.6)	28 (1.3) 28 (1.9)	217 (2.1) 26 (1.1) 221 (1.6)	219 (2.3) 20 (1.2) 214 (2.3)	219 (2.3) 22 (1.0) 210 (2.0)
SCHOOL TYPE						
Public State	<u>===</u> ;	42 (1.1) 216 (1.7)	<u>=(=)</u>	30 (1.0) 214 (2.1)	=====================================	28 (1.2) 214 (1.9)
Nation	== (===) == (==)	51 (1.3) 218 (1.3)	==(==) ==(==)	25 (0.9) 215 (1.4)	() () ()	24 (1.0) 203 (1.9)
Non-Public State	==(==) ==(==)	57 (7.2) 240 (3.9)	==(==)	24 (4.3)		20 (6.9)
Nation		56 (2.3) 235 (2.3)	== (==) == (==)	28 (1.6)	—(—) —(—) —(—)	17 (1.5)
Combined State	()	43 (12)	== (==) == (==)	231 (3.1) 30 (1.0)	==(==)	222 (5.2) 27 (1.2)

⁼⁼⁼ School type results are not presented for 1992 since state-level non-public school data were not collected.

218 (1.7)

51 (12)

220 (1.1)



159

25 (0.8)

Nation

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. *** Sample size is insufficient to permit a reliable estimate.



TABLE D6.3C

Public School Teachers' Reports on Asking Students to Write About Something They Have Read

 Almost Every Day
 At Least Once a Week
 Less than Weekly

 1992
 1994
 1992
 1994
 1992
 1994

	<u> </u>					1334
			Percentage a	nd Proficiency		
TOTAL			1			
State	39 (2.9)	39 (3.2)	51 (2.9)	51 (3.0)	9 (1.9)	10 (2.0)
Alada -	218 (1.8)	214 (2.1)	217 (1.5)	214 (1.7)	213 (4.4)!	215 (3.4)!
Nation	25 (1.8) 220 (2.7)	30 (2.4) 212 (2.5)	49 (2.6)	56 (2.3)	26 (2.5)	14 (2.0)
RACE/ ETHNICITY	220 (2.1)	212 (2.3)	216 (1.9)	213 (1.5)	213 (2.4)	215 (2.6)
White						
State	40 (3.1)	39 (3.4)	51 (3.2)	52 (3.4)	9 (2.0)	9 (2.1)
Nation	223 (1.8) 24 (2.4)	222 (2.2) 30 (2.9)	221 (1.3)	224 (1.6)	219 (3.4)	220 (4.1)!
1480011	228 (2.7)	221 (2.3)	49 (3.1) 223 (2.1)	56 (2.6) 224 (1.6)	27 (3.0) 219 (2.8)	14 (2.4) 224 (2.3)
Black					2.0 (2.0)	227 (2.0)
State	32 (7.3)	33 (5.5)	58 (9.7)	59 (6.1)	11 (4.0)	8 (3.9)
Nation	25 (4.0)	28 (4.3)	49 (4.4)	189 (5.8) 56 (4.8)	26 (4.1)	*** (**.*) 15 (3.3)
	192 (3.2)	186 (4.2)	194 (2.8)	185 (2.4)	196 (3.1)	192 (3.7)
Hispanic						
State	40 (4.6) 201 (2.8)	39 (4.4) 192 (3.4)	50 (4.5) 205 (3.1)	51 (3.8)	10 (2.9)	10 (2.2)
Nation	24 (3.3)	30 (3.1)	53 (3.6)	192 (3.0) 57 (4.1)	23 (2.8)	13 (2.3)
	203 (3.7)	189 (4.8)	202 (3.0)	190 (2.4)	198 (4.1)	195 (5.9)
American Indian State	31 (7.2)	26 (6 0)	54470			
State	31(12)	36 (6.8)	64 (7.6) (***)	47 (6.0)	5 (3.8)	17 (4.9)
Nation	28 (6.8)	29 (4.8)	46 (7.8)	60 (4.9)	26 (6.7)	11 (2.7)
TYPE OF	(***)	(**.*)	()	199 (5.7)	()	*** (**.*)
LOCATION						
Central City						
State	39 (5.0)	-41 (5.3)	57 (5.0)	48 (4.5)	4 (1.9)	11 (3,0)
Notice	212 (2.5)	207 (3.6)	213 (3.1)	208 (3.3)	··· (····)	218 (5:8)1
Nation	28 (3.1) 215 (3.8)	27 (4.2) 201 (5.8)	46 (4.3) 205 (3.4)	61 (3.8) 206 (3.0)	26 (3.6) 205 (3.9)	12 (2.2) 204 (5.3)
Urb Frng/Lrg Town		20 (0.0)	200 (0.4)	200 (0.0)	.203 (3.8)	204 (3.3)
State	43 (4.1)	40 (4.9)	49 (3.8)	52 (4.5)	8 (2.3)	8 (3.0)
Nation	221 (3.1) 29 (4.3)	219 (3.6) 33 (3.9)	220 (1.9) 51 (4.1)	217 (2.8) 52 (4.1)	210 (9.0)	210 (6.4)1
. 100011	222 (50)	220 (2.8)	220 (2.3)	220 (2.2)	21 (3.2) 220 (4.8)	14 (3.1) 223 (3.1)
Rural/Small Town						
State	32 (6.2) 221 (4.0)	34 (8.0) 215 (4.4)	49 (6.9)	56 (8.0)	19 (5.9)	11 (5.6)
Nation	15 (3.3)	28 (4.8)	217 (2.8) 51 (6.5)	217 (3.3) 55 (4.5)	215 (4.4) 34 (7.2)	18 (5.0)
	223 (4.9)!	213 (4.7)	219 (4.5)	213 (2.4)	214 (3.2)!	215 (5.3)1



THE NATION'S REPORT NAPP CARD

TABLE D6.3C (continued)

Public School Teachers' Reports on Asking Students to Write About Something They Have Read

1994 Trial State As

Almost E	very Day	At Least O	At Least Once a Week Less than V		n Weekly
1992	1994	1992	1994	1992	1994

			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate State	43 (3.1)	37 (3.7)	48 (3.0)	53 (3.3)	9 (2.0)	9 (2.1)
Nation	225 (2.3) 27 (2.3) 230 (3.9)	222 (2.5) 31 (2.8) 224 (2.4)	225 (1.5) 49 (3.1) 222 (2.4)		225 (3.3) 24 (2.8) 222 (3.7)	223 (4.9)l 11 (1.8) 225 (3.9)
Some ed after HS State	38 (5.0) 224 (3.5)	42 (4.2) 219 (3.8)	51 (4.9) 222 (3.2)	49 (4.7) 223 (3.6)	11 (3.0)	9 (2.9)
Nation	24 (3.4) 226 (5.2)	27 (3.3) 217 (4.2)	45 (4.3) 224 (4.7)	56 (3.6) 224 (3.0)	31 (4.2) 215 (2.7)	16 (2.9) 225 (4.6)
HS graduate State	39 (4.1) 213 (3.4)	40 (5.1) 218 (5.1)	47 (3.8) 212 (3.1)	51 (4.6) 211 (3.3)	14 (3.5)	9 (2.8)
Nation	24 (3.2) 211 (4.7)	27 (3.1) 204 (4.0)	48 (3.7) 214 (2.6)	57 (3.2) 207 (2.9)	28 (4.2) 210 (4.7)	16 (3.0) 214 (4.1)
HS non-graduate State	40 (-6.3)	46 (6.1)	56 (5.8) 	42 (6.6)	4 (2.8)	12 (5.5)
Nation	25 (4.1)	31 (5.0) 186 (6.9)	45 (4.3) 201 (5.1)	54 (4.7) 188 (4.9)	30 (4.1)	15 (32)
i don't know State		39 (3.4) 204 (2.9)	55 (3.5) 211 (2.2)	51 (3.4) 204 (2.7)	,6 (-1.6) 202 (-5.3)I	10 (2.3) 211 (4.2)
Nation	23 (2.0) 214 (3.0)	30 (2.6) 204 (2.7)	52 (29) 210 (22)	54 (2.5) 205 (1.9)	26 (2.9) 207 (2.4)	16 (2.5) 208 (3.4)
GENDER						
Male State	38 (3.0) 215 (1.9)	39 (3.4) 211 (2.8)	51 (3.0) 215 (1.9)	52 (3.2) 209 (2.2)	10 (2.3) 209 (5.7)	10 (2.0) 210 (4.8)
Nation	25 (23) 217 (33)	31 (2.6) 207 (2.7)	50 (2.6) 212 (2.2)	55 (2.4) 208 (1.8)	25 (2.5) 209 (2.6)	15 (2.1) 209 (3.3)
Female State	41 (3.1) 221 (2.3)	39 (3.3) 217 (2.1)	51 (3.2) 220 (2.1)	51 (3.0) 219 (2.1)	:8 (1.7) 219 (4.2)	10 (2.2) 220 (4.4)
Nation	24 (1.7) 224 (2.8)	29 (2.3) 219 (2.9)	49 (2.8) 220 (2.0)	57 (23) 219 (1.6)	27 (2.7) 218 (2.6)	14 (1.9) 223 (2.6)

SCHOOL TYPE						
Public						
State	()	39 (3.2)	· === (===) · ·	51 (3.0)	=== (====)	10 (2.0)
	(<i>;-</i> -)	214 (2.1)	=== (==,=)	214 (1.7)	=== (==;=)	215 (.3.4)!
Nation	=== (==:=)	30 (2.4)	=== (===)	56 (2.3)	==(=:=)	14 (2.0)
	(,-)	212 (2.5)	=== (===)	213 (1.5)	()	215 (2.6)
Non-Public						
State	()	28 (24.2)	()	72 (24.2)	(_)	0 (0.0)
	(==:=)	***(***)	(:=)	*** (**.*)	()	*** (**.*)
Nation	=== (===)	18 (3.6)	=== (===)	56 (4.8)	· () ::	26 (4.2)
	===(===)	232 (7.1)!	_== (===)	228 (.2.8)	=== (===)	235 (4.0)
Combined						
State	(====)	38 (3.4)	(===)	53 (3.2)	()	9 (1.9)
	()	(:)	(;	**** (**:*)	(=.=)	*** (**.*)
Nation	()	29 (2.2)	(==)	56 (2.2)	()	15 (1.9)
	(=),	214 (2.4)	_=(==)	215 (1.4)	(219 (2.3)
			444		27 S. P. S. S. S. S. S. S. S.	<u> </u>

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.





TABLE D6.3D

Public School Students' Reports on Writing About Something They Have Read

 Almost Every Day
 At Least Once a Week
 Less than Weekly

 1992
 1994
 1992
 1994
 1992
 1994

			L		<u> </u>	
-			Percentage a	nd Proficiency		
TOTAL					l i	
State	25 (1.3)	26 (1.2)	35 (1.1)	34 (-1.1)	40 (1.5)	39 (1.2)
Nation	217 (1.6)	212 (2:1)	217 (1.5)	217 (1.7)	217 (1.5)	214 (1.6)
Nation	23 (0.8) 210 (1.6)	23 (1.0) 208 (1.8)	34 (1.0) 217 (1.2)	33 (0.7) 215 (1.4)	43 (1.2)	44 (0.9)
RACE/ ETHNICITY	=.0()	250 (1.0)	211 (1.2)	213 (1.4)	217 (1.2)	216 (1.3)
White						
State	23 (1.4)	25 (1.5)	34 (1.3)	35 (1.4)	42 (-1.8)	40 (1.4)
Nation	223 (1.7) 20 (1.1)	222 (2.2) 21 (1.1)	223 (1.6) 34 (1.3)	224 (1.8)	222 (1.3)	223 (1.7)
radon	219 (2.0)	220 (2.1)	225 (1.7)	32 (0.9) 224 (1.6)	46 (1.6) 224 (1.6)	47 (1.2) 224 (1.5)
Black				()	227 (1.0)	224 (1.3)
State	40 (3.7)	32 (3.7)	35 (4:9)	32 (4.1)	25 (3.8)	36 (4.7)
Nation	32 (1.7)	35 (1.8)	34 (1.5)	34 (1.4)	34 (1.6)	TT (T.2)
	193 (2.6)	188 (2.6)	194 (2.3)	190 (2.5)	191 (2.1)	31 (1.6) 187 (2.9)
Hispanic						()
State	29 (2.6) 204 (2.6)	30 (2.1) 194 (4.1)	34 (2.3)	33 (1.8)	36 (2.7)	36 (1.8)
Nation	27 (1.7)	25 (1.5)	203 (2.3) 35 (1.9)	197 (3.3) 34 (1.8)	202 (3.1) 37 (2.1)	194 (3.0) 41 (1.8)
	199 (3.4)	182 (3.8) <	203 (3.2)	194 (3.1)	201 (3.3)	190 (3.3)
American Indian State	27 (EE)	24 (4.5)				
State	27 (5.5)	31 (4.5)	40 (5.6)	29 (4.6)	34 (5.4)	40 (4.5)
Nation	20 (3.3)	25 (3.1)	42 (5.2)	31 (3.8)	38 (4.8)	44 (3.9)
TVOC OF	(***)	()	()	*** (***)		(**.7)
TYPE OF LOCATION						
Central City						
State	27 (2.2)	26 (1.9)	33 (1.7)	35 (1:4)	40 (2.8)	38 (2.3)
	210 (2.4)	207 (4.0)	212 (2.5)	212 (3.1)	211 (2.6)	210 (3.4)
Nation	26 (1.3) 203 (2.3)	24 (1.7)	34 (1.1)	34 (1.1)	40 (1.4)	42 (1.8)
Urb Frng/Lrg Town	203 (2.3)	197 (.2.9)	209 (2.0)	208 (2.5)	210 (1.9)	209 (2.8)
State	27 (2.1)	26 (2.1)	36 (1.9)	34 (2.0)	37 (2.2)	40 (1.6)
NI-A'	221 (2.3)	215 (3.0)	220 (2.1)	219 (2.6)	220 (2.2)	215 (2.6)
Nation	23 (1.4) 216 (3.3)	24 (1.4) 216 (2.8)	37 (1.7) 221 (2.2)	34 (1.2)	41 (1.8)	42 (1.4)
Rural/Small Town	_,0,0.0,	0(2.0)	ez:(22)	.221 (2.4)	222 (2.5)	221 (1.9)
State	20 (1.9)	27 (2.8)	35 (1:8)	33 (1,8)	45 (2.7)	40 (2.4)
Nation	217 (3.8) 20 (1.8)	213 (5.1)	219 (3.5)	219 (3.2)	220 (2.7)	219 (3.5)
140011	212 (4.0)	21 (2.0) 209 (3.7)	32 (1.9) 220 (3.4)	30 (1.6) 213 (3.5)	49 (2.7) 218 (2.2)	49 (2.7)
	,	,,		0(0.0)	2014	217 (2.4)



THE NATION'S REPORT CARD

TABLE D6.3D (continued)

Public School Students' Reports on Writing About Something They Have Read

1994 Trial State Assessmen

Almost E	very Day	At Least O	nce a Week	Less that	n Weekly
1992	1994	1992	1994	1992	1994

	<u> </u>					
-			Percentage a	nd Proficiency	1	
PARENTS'						
EDUCATION CONTRACTOR						
College graduate State	27 (1.6)	00/00	05/10)	24 / 4.63	00140	00//-
State	225 (2.0)	28 (2.0) 221 (2.7)	35 (1.3) 225 (1.8)	34 (1.8) 224 (1.8)	38 (1.8) 225 (1.8)	38 (1.7) 221 (2.1)
Nation	24 (1.2)	24 (1.3)	36 (1,6)	34 (1.1)	40 (1.7)	42 (1,2)
	218 (2.5)	217 (2.3)	226 (2.1)	225 (1.8)	225 (1.9)	224 (1.8)
Some ed after HS						
State	22 (2.6)	25 (3.2)	34 (3.1)	37 (3.9)	44 (3.2)	38 (3.7)
Nation	226 (4.5) 19 (1.8)	23 (23)	225 (4.0) 37 (2.9)	217 (4.6) 33 (2.4)	222 (2.4) 44 (2.9)	226 (4.2) 44 (2.5)
1144011	216 (5.1)	215 (4.1)	221 (3.5)	223 (3.3)	225 (3.5)	226 (3.2)
HS graduate			` '	` '		
State	25 (3.0)	27 (3.0)	38 (2.7)	33 (2.5)	36 (3.2)	40 (3.0)
Nation	209 (4.2)	212 (5.8)	212 (2.9)	217 (4.2)	211 (3.3)	213 (4.2)
Nauon	25 (2.3) 210 (3.3)	24 (2.1) 206 (4.8)	31 (2.3) 212 (3.3)	36 (1.9) 205 (2.9)	44 (2.3) 212 (2.6)	40 (2.3) 213 (2.6)
HS non-graduate	275 (5.5)	200 (4.0)	112 (0.0)	200 (2.0)	E12 (2.0)	2.0 (2.0)
State	29 (4.9)	31 (4.0)	23 (5.2)	35 (4.8)	48 (4.2)	34 (5.0)
A	***(****)	*** (**.*)	***(**.*)	()	*** (**.*)	••• (•••)
Nation	25 (3.3) 193 (5.0)	28 (3.5) 186 (5.8)	29 (3.1)	34 (3.7)	45 (3.6)	38 (2.8)
I don't know	135 (3.0)	180 (3.6)	195 (4.9)	187 (5.2)	206 (4.5)	193 (5.1)
State	24 (1.5)	24 (1.3)	.34 (1.6)	34 (1.7)	42 (1.9)	42 (1.7)
	209 (2.4)	199 (3.1)	210 (2.4)	208 (2.6)	209 (2.2)	206 (2.6)
Nation	22 (1.1)	22 (12)	34 (1.4)	31 (1.1)	44 (1.7)	47 (1.6)
GENDER	203 (2.3)	198 (1.8)	210 (1.4)	208 (1.9)	213 (1:7)	208 (2.2)
Male						
State	22 (1.3)	25 (1.4)	35 (1.5)	33 (1.4)	43 (1.5)	42 (1.4)
Oldio	214 (2.1)	209 (2.7)	214 (1.7)	213 (2.1)	215 (1.7)	209 (2.3)
Nation	22 (1.2)	22 (1.2)	33 (1.4)	32 (1.0)	44 (1.8)	46 (1.0)
F1-	206 (2.4)	203 (2.6)	214 (1.9)	209 (1.9)	213 (1.4)	210 (1.6)
Female State	20/17	20/15	24/15	20/14	27/40	07/40
Jiale	29 (1.7) 219 (1.9)	28 (1.5) 215 (2.7)	34 (1.5) 221 (2.1)	36 (1.4) 220 (2.3)	37 (1.8) 220 (1.9)	37 (1.6) 221 (1.9)
Nation	24 (0.9)	25 (12)	35 (1.1)	34 (12)	41 (12)	41 (13)
	214 (1.9)	212 (2.1)	220 (1.2)	221 (1.6)	223 (1.7)	223 (1.4)
SCHOOL TYPE						
Public						
			1		1	

SCHOOL TYPE						
Public						
State	===(==,=)	26 (1.2)	=== (====)	34 (1.1)	==(==)	39 (1,2)
	()	212 (2.1)	(;=)	217 (1.7)	===(==,=)	214 (1.6)
Nation	()	23 (1.0)	(:-)	33 (0.7)	(:=)	44 (0.9)
	(===)	208 (1.8)	 ()	215 (1.4)	()	216 (1.3)
Non-Public						
State	(<i>-</i>)	19 (5.7)	()	36 (4.0)	_()	45 (4.6)
	=== (==,=)	*** (**.*)	 (.=)	**** (**.*)	l ===(==,=) =	••• (••.*)
Nation	()	18 (1.4)	=== (==.=)	32 (1.5)	· === (==.=)	50 (1.9)
	()	226 (5.0)	 (,-)	231 (3.0)	1 ===(==,=)	233 (2.4)
Combined						
State	()	26 (1.2)	(===)	34 (1.0)	=== (===)	40 (1:1)
	===(=:=)	****(**.*)	(=)	(*:*)	(:-)	··· (*·.*)
Nation	()	23 (0.9)		33 (0.6)	(===)	44 (0.9)
	()	209 (1.7)	()	217 (1.2)	()	218 (1.2)

=== School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. *** Sample size is insufficient to permit a reliable estimate.





TABLE D6.4A

Public School Teachers' Reports on Discussing New or Difficult Vocabulary

1994 Trial State Assessmen

Almost E	very Day	At Least Once a Week		ry Day At Least O		Less that	n Weekly
1992	1994	1992	1994	1992	1994		

TOTAL State 57 (2.8) 54 (2.8) 39 (2.7) 42 (2.7) 4 (1.2) 4 (1					*		
State				Percentage a	nd Proficiency		
Nation	TOTAL						
Nation	State						
White State S8 (3.1) S3 (3.1) 38 (2.8) 42 (3.0) 24 (1.2) 5 (1.5) 221 (1.6) 222 (1.5) 222 (1.6) 223 (2.1) 227 (3.9)! 226 (5.8)! 220 (1.8) 222 (1.9) 38 (3.0) 2 (0.9) 1 (0.6) 222 (1.9) 221 (1.8) 224 (2.0) 226 (1.7) "" ("") "" ("") 168 (8.2)! "" ("") ""	Nation	49 (2.4)	62 (2.5)	49 (2.3)	37 (2.6)	2 (-0.8)	1 (0.5)
State 58 (3.1) 53 (3.1) 38 (2.8) 42 (3.0) 4 (1.2) 5 (1.5) 221 (1.6) 222 (1.5) 222 (1.6) 223 (2.1) 227 (3.9) 226 (5.8) 222 (1.9) 38 (3.0) 2 (0.9) 1 (0.6) 222 (1.9) 221 (1.8) 224 (2.0) 226 (1.7) "("") "		E7 1 (1.0)	2.11(1.4)	210 (1.5)	210 (1.3)	218 (1.0)	
Nation			53 (3.1)	38 (2.8)	42 (3.0)	4 (1.2)	5 (1.5)
Black State 51 (8.1) 55 (6.7) 44 (8.4) 43 (6.4) 4 (4.2) 1 (1.0) Nation 53 (3.9) 61 (4.4) 45 (3.9) 38 (4.2) 2 (0.8) 1 (0.5) Hispanic 194 (2.6) 185 (2.4) 195 (2.9) 190 (2.5) "" ("") "" ("") State 55 (4.4) 58 (3.4) 42 (3.7) 39 (3.2) 4 (2.6) 3 (1.1) Nation 83 (4.0) 71 (3.3) 36 (3.5) 29 (3.2) "" ("") "" ("") Nation 83 (4.0) 71 (3.3) 36 (3.5) 29 (3.2) 1 (1.1) 1 (0.4) 196 (2.2) 189 (2.6) 207 (4.1) 194 (3.6) "" ("") "" ("") Nation 52 (7.9) 45 (4.9) 43 (7.9) 48 (4.6) 5 (3.9) 7 (3.4) """"	Nation	47 (2.9)	61 (2.8)	222 (1.6) 51 (2.9)	223 (2.1) 38 (3.0)	227 (3.9)! 2 (0.9)	226 (5.8)
Nation 53 (3.9) 61 (4.4) 45 (3.9) 38 (4.2) 2 (0.8) 1 (0.5) 194 (2.6) 185 (2.4) 195 (2.9) 190 (2.5)		51 (8.1)	55 (6.7)	44 (8.4)	43 (6:4)	4 (4.2)	1 (1.0)
State		53 (3.9)	61 (4.4)	45 (3.9)	38 (4.2)	2 (0.8)	1 (0.5)
Nation				20000000000000000000000000000000000000			3 (1.1)
State	Nation	63 (4.0)	71 (3.3)	36 (3.5)	29 (3.2)	1 (1.1)	1 (0.4)
Nation 53 (7.0) 59 (5.1) 44 (6.7) 38 (5.0) 3 (2.4) 3 (2.5) (7.7) 200 (6.1) (7.7) (7.	American Indian			6 /			
Nation	State					5 (3.9)	
Type OF LOCATION State 62 (5.5) 62 (4.8) 35 (5.0) 35 (4.1) 3 (1.8) 3 (1.6)	Nation	53 (.7.0)	59 (5.1)	44 (6.7)	38 (5.0)	3 (2.4)	3 (2.5)
Central City State 62 (5.5) 62 (4.8) 35 (5.0) 35 (4.1) 3 (1.8) 3 (1.6) Nation 214 (3.0) 210 (2.9) 211 (2.9) 205 (3.8)	TYPE OF	1 .7	200 (0.1)	1	1 - 7	(.)	(-)
State 62 (5.5) 62 (4.8) 35 (5.0) 35 (4.1) 3 (1.8) 3 (1.6) Nation 214 (3.0) 210 (2.9) 211 (2.9) 205 (3.8) ****(***,**) <th>LOCATION</th> <th></th> <th></th> <th>1</th> <th></th> <th></th> <th></th>	LOCATION			1			
Nation 214 (3.0) 210 (2.9) 211 (2.9) 205 (3.8) (1.7) (1.7) (1.7) (2.2) 210 (2.6) 202 (2.8) 210 (2.9) 210 (3.5) (1.7) (1.							
Nation 57 (3.5) 66 (3.8) 39 (3.6) 34 (3.7) 4 (2.2) 0 (0.3)	State					3 (1.8)	
Orb Fmg/Lrg Town 50 (4:0) 48 (3.8) 44 (3.9) 45 (4.0) 6 (2:1) 7 (2.2) Nation 48 (3.7) 62 (3.0) 53 (3.7) 36 (3.2) 1 (0.8) 2 (1.2) Rural/Small Town 219 (2.3) 221 (3.1) 224 (2.3) ***(**.*)	Nation	57 (3.5)	66 (3.8)	39 (3.6)	34 (3.7)	4 (2.2)	0 (0.3)
State 50 (4:0) 48 (3.8) 44 (3.9) 45 (4.0) 6 (2:1) 7 (2.2) Nation 219 (2.8) 215 (2.7) 219 (2.5) 219 (2.9) **** (****) </th <th>Urb Frna/Lra Town</th> <th>2001, 2.0)</th> <th>202 (2.0)</th> <th>210 (2.3)</th> <th>210 (3.0)</th> <th>1.7</th> <th>(-)</th>	Urb Frna/Lra Town	2001, 2.0)	202 (2.0)	210 (2.3)	210 (3.0)	1.7	(-)
Nation 46 (3.7) 62 (3.0) 53 (3.7) 36 (3.2) 1 (0.6) 2 (1.2) 220 (3.2) 218 (2.2) 221 (3.1) 224 (2.3) (***) ***(**	State						
State 66 (5.3) 52 (5.4) 33 (5.4) 46 (5.4) 1 (0.8) 2 (1.4) Nation 47 (6.5) 58 (6.6) 53 (6.4) 42 (6.6) 0 (0.4) 0 (0.4)	Nation	46 (3.7)	62 (3.0)	53 (3.7)	36 (3.2)	1 (0.8)	2 (1.2)
State 66 (5.3) 52 (5.4) 33 (5.4) 46 (5.4) 1 (0.8) 2 (1.4) 217 (3.1) 217 (3.6) 219 (3.5)! 217 (3.3) (***(********************************	Rural/Small Town	ezu (3.2)	218 (2.2)	221 (3.1)	224 (2.3)	(**:)	··· (*·.·)
Nation 47 (6.5) 58 (6.6) 53 (6.4) 42 (6.6) 0 (0.4) 0 (0.4)							
	Nation						
		216 (3.3)	211 (2.7)	220 (3.3)			





TABLE D6.4A (continued)

Public School Teachers' Reports on Discussing New or Difficult Vocabulary

1994 Trial State Assessmen

Almost E	very Day	At Least Once a Week		t Once a Week Less than Weekly	
1992	1994	1992	1994	1992	1994

			L			
			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate State	57 (2.9)	54 (3.5)	38 (2.8)	41 (3.3)	4 (1.4)	5 (1.6)
Nation	225 (1.9) 49 (2.5) 223 (2.5)	221 (1.9) 61 (3.0) 220 (2.0)	225 (1.9) 49 (2.6) 225 (2.4)	223 (2.2) 39 (3.0) 228 (2.1)	2 (1.0) (7.7)	1 (0.4)
Some ed after HS State	56 (4.8)	56 (4.1)	40 (4.7)	43 (4.0)	3 (1.3)	1 (0.6)
Nation	221 (2.7) 54 (3.6)	218 (3.7) 57 (4.5)	226 (4.1) 45 (3.4)	225 (3.0) 42 (4.5)	1 (0.7)	0 (0,4)
HS graduate State	219 (3.4) 61 (4.4)	220 (2.8) 52 (4.1)	226 (3.8) 36 (4:1)	224 (3.3) 46 (4.0)	3 (1.6)	*** (***) 3 (1.5)
Nation	212 (3.1) 45 (4.4)	209 (3.9) 64 (3.2)	208 (4.2) 52 (4.1)	220 (4.4) 35 (3.2)	3 (13)	1 (0.9)
HS non-graduate State	208 (3.0) 61 (6.2)	205 (2.2) 62 (5.6)	216 (3.1) 36 (6.0)	212 (3.4) 34 (5.4)	(**.5) 3 (1.9)	(**.*) 4 (1.9)
Nation	48 (4.7)	61 (5.0)	51 (4.6)	38 (5.0)	2(10)	1 (0.8)
I don't know	193 (4:1)	189 (3.9)	204 (6.1)	187 (.5.8)	* (***)	TT (T.5)
State	55 (3.1) 209 (2.4) 50 (2.7)	53 (3.3) 206 (2.3) 65 (2.5)	41 (3.0) 210 (2.2) 48 (2.7)	43 (32) 203 (2.3) 34 (2.7)	4 (1.3) (1) 2 (0.8)	5 (1.6) (7) 1 (0.7)
GENDER	209 (2.2)	204 (1.9)	212 (2.1)	208 (1.9)	***(***)	(***)
Male State	58 (2.9)	53 (2.9)	39 (2.7)	43 (2.8)	3 (-1.1)	4(11)
Nation	214 (1.8) 51 (2.8) 210 (2.1)	208 (2.4) 62 (2.6) 206 (1.6)	215 (2.2) 47 (2.7) 215 (2.4)	211 (2.4) 36 (2.6) 212 (2.0)	2 (0.8) 	1 (0.6)
Female State	56 (3.0)	54 (2.9)	39 (3.0)	-41 (2.8)	4 (1.4)	5 (1.4)
Nation	220 (2.1) 48 (2.4) 219 (1.9)	218 (1.7) 62 (2.6) 216 (1.6)	219 (2.1) 50 (2.2) 221 (1.9)	217 (2.1) 37 (2.7) 224 (1.6)	2 (0.7) 	1 (0.4)
SCHOOL TYPE Public						
State Nation		54 (2.8) 213 (1.6) 62 (2.5)		42 (2.7) 214 (1.9) 37 (2.6)		4 (1.2) 223 (6.7) 1 (0.5)
Non-Public		211 (1.4)		218 (1.5)	==(===)	(***)
State Nation	() ()	59 (22.1) 238 (6.4) 54 (5.4)		41 (22.1) *** (**.*) 42 (5.5)		0 (0.0) (***) 4 (1.6)
Combined	(/	z31 (3.9)	()	230 (3.0)	= $(=)$	-(-)
State	—() —() —()	54 (2.9) 215 (1.8)	== (==) == (==)	42 (2.8)		4(11)
Nation	_(=)	81 (2.2)	=(=)	37 (2.2)	·()	1 (0.5)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.





TABLE D6.4B

Public School Students' Reports on Discussing New or Difficult Vocabulary

Almost Every Day At Least Once a Week Less than Weekly
1992 1994 1992 1994 1992 1994 1992 1994

Percentage and Proficiency TOTAL	
State 27 (1.2) 28 (1.1) 40 (1.1) 40 (1.0) 33 (1.1) 218 (1.5) 217 (1.9) 219 (1.3) 216 (1.7) 213 (1.5) 31 (0.9) 32 (0.8) 39 (1.0) 36 (0.8) 30 (0.8) 215 (1.4) 214 (1.6) 220 (1.3) 218 (1.4) 209 (1.3) 218 (1.4) 209 (1.3) 223 (1.5) 225 (2.0) 224 (1.4) 224 (1.8) 229 (1.5) 225 (2.0) 224 (1.4) 224 (1.8) 229 (1.5) 225 (2.0) 224 (1.4) 224 (1.8) 229 (1.5) 225 (1.7) 228 (1.7) 227 (1.5) 216 (1.6) 224 (1.6) 225 (1.7) 228 (1.7) 227 (1.5) 216 (1.6) 225 (1.7) 228 (1.7) 227 (1.5) 226 (1.6) 225 (1.7) 226 (1.7) 227 (1.5) 226 (1.6) 225 (1.7) 226 (1.7) 227 (1.5) 226 (1.6) 225 (1.7) 226 (1.7) 227 (1.5) 226 (1.6) 225 (1.7) 226 (1.8) 225 (1.7) 226 (1.8) 225 (1.7) 226 (1.8) 225 (1	
Nation 218 (1.5) 217 (1.9) 219 (1.3) 216 (1.7) 213 (1.5) 33 (1.5) 33 (1.9) 32 (1.8) 39 (1.0) 36 (0.8) 30 (0.8) 215 (1.4) 214 (1.6) 220 (1.3) 218 (1.4) 209 (1.3) 215 (1.4) 223 (1.5) 225 (2.0) 224 (1.4) 224 (1.8) 219 (1.5) 225 (1.5) 225 (2.0) 224 (1.4) 224 (1.8) 219 (1.5) 224 (1.6) 225 (1.7) 228 (1.7) 227 (1.5) 216 (1.6) 224 (1.6) 225 (1.7) 228 (1.7) 227 (1.5) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 217 (1.6) 218 (1.6) 219 (1.6) 218 (1.6) 219 (1.6) 218 (1.6) 219 (1.6) 218 (1.6) 219 (1.6) 218 (1.6) 219 (1.6) 218 (1.6) 219 (1.6) 218 (1.6) 219 (
Nation 218 (1.5) 217 (1.9) 219 (1.3) 216 (1.7) 213 (1.5) 31 (0.9) 32 (0.8) 39 (1.0) 36 (0.8) 30 (0.8) 215 (1.4) 214 (1.6) 220 (1.3) 218 (1.4) 209 (1.3) **RACE/ ETHNICITY** White State 26 (1.3) 27 (1.3) 40 (1.2) 41 (1.1) 34 (1.2) 223 (1.5) 225 (2.0) 224 (1.4) 224 (1.8) 219 (1.5) 32 (1.5) 225 (1.7) 226 (1.7) 227 (1.5) 216 (1.6) **Black** State 37 (4.7) 32 (4.0) 27 (3.1) 28 (3.8) 35 (3.	32 (1.1)
## Page 12	209 (2.2)
## RACE/ETHNICITY White State	
State 26 (1.3) 27 (1.3) 40 (1.2) 41 (1.1) 34 (1.2) Nation 223 (1.5) 225 (2.0) 224 (1.4) 224 (1.8) 219 (1.5) 29 (1.0) 31 (0.9) 39 (1.3) 38 (0.9) 31 (1.1) 224 (1.6) 225 (1.7) 226 (1.7) 227 (1.5) 216 (1.6) Black 37 (4.7) 32 (4.0) 27 (3.1) 28 (3.8) 35 (3.8) **** (****) **** (****) **** (****) **** (****) **** (****) **** (****) Nation 38 (2.1) 39 (2.1) 34 (1.9) 30 (2.0) 28 (1.8) Hispanic 195 (2.5) 190 (3.0) 194 (2.6) 189 (3.0) 187 (3.0) State 28 (2.2) 28 (2.0) 41 (2.2) 40 (2.2) 31 (2.1) Nation 34 (1.7) 33 (1.9) 39 (2.1) 34 (1.8) 27 (1.8) American Indian 45 (6.1) 32 (4.9) 26 (5.7) 38 (4.9) 27 (5.8)	207 (1.4)
Nation 223 (1.5) 225 (2.0) 224 (1.4) 224 (1.8) 219 (1.5) 29 (1.0) 31 (0.9) 39 (1.3) 38 (0.9) 31 (1.1) 224 (1.6) 225 (1.7) 226 (1.7) 227 (1.5) 216 (1.6) Black State 37 (4.7) 32 (4.0) 27 (3.1) 28 (3.8) 35 (3.8) (1.7	
Nation 29 (1.0) 31 (0.9) 39 (1.3) 38 (0.9) 31 (1.1) 224 (1.6) 225 (1.7) 226 (1.7) 227 (1.5) 216 (1.6) 216 (1.6) 225 (1.7) 226 (1.7) 227 (1.5) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 216 (1.6) 217 (1.5) 217 (1.5) 218 (1.6) 218	
Black State 37 (4.7) 32 (4.0) 27 (1.5) 226 (1.7) 227 (1.5) 216 (1.6) Nation 38 (2.1) 39 (2.1) 34 (1.9) 30 (2.0) 28 (1.8) 195 (2.5) 190 (3.0) 194 (2.6) 189 (3.0) 187 (3.0) Hispanic State 28 (2.2) 28 (2.0) 41 (2.2) 40 (2.2) 31 (2.1) Nation 34 (1.7) 33 (1.9) 39 (2.1) 34 (1.8) 27 (1.8) American Indian State 45 (6.1) 32 (4.9) 26 (5.7) 38 (4.9) 27 (5.8)	
Black State 37 (4.7) 32 (4.0) 27 (3.1) 28 (3.8) 35 (3.8) Nation 38 (2.1) 39 (2.1) 34 (1.9) 30 (2.0) 28 (1.8) Hispanic State 28 (2.2) 28 (2.0) 41 (2.2) 40 (2.2) 31 (2.1) Nation 34 (1.7) 33 (1.9) 39 (2.1) 34 (1.8) 27 (1.8) American Indian State 45 (6.1) 32 (4.9) 26 (5.7) 38 (4.9) 27 (5.8)	
Nation 38 (2.1) 39 (2.1) 34 (1.9) 30 (2.0) 28 (1.8) 195 (2.5) 190 (3.0) 194 (2.6) 189 (3.0) 187	2.0(1.2)
Nation 38 (2.1) 39 (2.1) 34 (1.9) 30 (2.0) 28 (1.8) 195 (2.5) 190 (3.0) 194 (2.6) 189 (3.0) 187	
Hispanic State 28 (2.2) 28 (2.0) 41 (2.2) 40 (2.2) 31 (2.1) Nation 205 (3.1) 198 (3.4) 205 (2.2) 194 (2.4) (2.6) 31 (2.1) 34 (1.7) 33 (1.9) 39 (2.1) 34 (1.8) 27 (1.8) American Indian State 45 (6.1) 32 (4.9) 26 (5.7) 38 (4.9) 27 (5.8)	
State 28 (22) 28 (2.0) 41 (2.2) 40 (2.2) 31 (2.1) Nation 39 (3.1) 198 (3.4) 205 (2.2) 194 (2.4) 196 (3.1) 34 (1.7) 33 (1.9) 39 (2.1) 34 (1.8) 27 (1.8) 202 (2.8) 192 (3.8) 203 (2.4) 192 (4.2) 193 (3.7) State 45 (6.1) 32 (4.9) 26 (5.7) 38 (4.9) 27 (5.8)	181 (1.9)
Nation 205 (3.1) 198 (3.4) 205 (2.2) 194 (2.4) < 196 (3.1) 34 (1.7) 33 (1.9) 39 (2.1) 34 (1.8) 27 (1.8) 202 (2.8) 192 (3.8) 203 (2.4) 192 (4.2) 193 (3.7) State 45 (6.1) 32 (4.9) 26 (5.7) 38 (4.9) 27 (5.8)	
Nation 34 (1.7) 33 (1.9) 39 (2.1) 34 (1.8) 27 (1.8) 202 (2.8) 192 (3.8) 203 (2.4) 192 (4.2) 193 (3.7) American Indian State 45 (6.1) 32 (4.9) 28 (5.7) 38 (4.9) 27 (5.8)	
American Indian State 202 (2.8) 192 (3.8) 203 (2.4) 192 (4.2) 193 (3.7) 28 (5.7) 38 (4.9) 27 (5.8)	
State 45 (.6.1) 32 (.4.9) 28 (.5.7) 38 (.4.9) 27 (.5.8)	
20 (3.1) 30 (4.8) 27 (3.0)	20///0
	30 (4.3)
Nation 31 (5:4) 33 (5:0) 32 (5:5) 29 (3:9) 37 (5:5)	38 (4.7)
TYPE OF	****(****)
LOCATION	
Central City	
State 33 (2.4) 30 (2.0) 38 (2.1) 37 (1.5) 30 (2.1)	32 (1.9)
213 (2.7) 214 (3.9) 212 (2.1) 211 (2.9) 207 (2.5) Nation 33 (1.3) 33 (1.8) 38 (1.7) 34 (1.5) 29 (1.4)	
Nation 33 (1.3) 33 (1.8) 38 (1.7) 34 (1.5) 29 (1.4) 209 (1.9) 206 (3.2) 211 (2.0) 210 (2.8) 201 (2.2)	
Urb Frng/Lrg Town	103 (2.0)
State 23 (1.5) 25 (1.4) 39 (1.6) 42 (1.5) 37 (1.3)	33 (1.6)
Nation 223 (1.9) 219 (2.1) 223 (2.0) 218 (2.7) 215 (2.2) 28 (1.5) 33 (1.1) 40 (1.5) 37 (1.1) 32 (1.3)	212 (3.1)
220 (2.5) 221 (2.4) 227 (2.5) 224 (2.1) 212 (2.8)	30 (1.2) 213 (2.5)
Rural/Small Town	
State 28 (2.3) 29 (2.2) 42 (2.5) 41 (2.6) 30 (2.1) 220 (3.5) 221 (3.5) 220 (2.7) 219 (3.2) 216 (3.3)	
Nation 220 (3.5) 221 (3.5) 220 (2.7) 219 (3.2) 216 (3.3) 34 (1.4) 31 (1.5) 37 (2.0) 37 (1.6) 29 (1.8)	211 (3.9) 32 (1.6)
217 (3.1) 216 (3.4) 221 (2.5) 219 (2.5) 214 (3.0)	

(continued on next page)



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THE NATION'S REPORT CARD

TABLE D6.4B (continued)

Public School Students' Reports on Discussing New or Difficult Vocabulary

1994 Trial State Assessme

Almost E	nost Every Day At Least Once a Week Less than		At Least Once a Week Lo		n Weekly
1992	1994	1992	1994	1992	1994

	.002					.004
_			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate State	28 (1.4)	28 (1.9)	41 (1.7)	43 (1.6)		29 (1.6)
Nation	225 (2.1) 31 (1.2) 222 (2.2)	225 (2.5) 33 (1.1) 224 (2.2)	226 (1.6) 41 (1.4) 228 (2.0)	224 (2.2) 38 (1.0) 226 (1.7)	222 (2.1) 28 (1.2) 219 (2.2)	217 (2.5) 29 (1.0) 217 (1.9)
Some ed after HS State	27 (2.9)	29 (3.1)	45 (3.7)	44 (2.6)	28 (3.5)	27 (2.9)
Nation	229 (3.9) 31 (2.1) 221 (3.3)	222 (5.4) 35 (2.4) 227 (3.1)	221 (3.4) 40 (2.7) 224 (3.9)	220 (3.4) 40 (2.6) 225 (3.3)	224 (3.0) 29 (2.2) 218 (4.0)	26 (2.6) 212 (3.8)
HS graduate State	30 (2.5) 211 (2.9)	29 (2.8) 218 (3.9)	36 (2.6) 214 (3.3)	40 (3.2) 215 (4.8)	34 (2.5) 206 (3.6)	31 (2.6) 208 (5.8)
Nation		32 (2.0) 205 (3.8)	37 (23) 217 (2.9)	35 (2.3) 213 (3.2)	30 (2.3) 206 (2.9)	33 (2.0) 205 (2.8)
HS non-graduate State	24 (42)	24 (4.3)	42 (4.9) ()	38 (5.4)	33 (4.8)	38 (4.2)
Nation	28 (3.0) 199 (3.6)	32 (2.9) 192 (6.1)	37 (3.0) 207 (3.9)		35 (2.9) 186 (5.4)	33 (4.0) 180 (5.9)
I don't know State	26 (1.9) 211 (2.9)	27 (1.7) 208 (2.4)	37 (1.7) 212 (1.9)	36 (1.6) 206 (2.7)	37 (1.8) 205 (2.4)	37 (2.0) 201 (2.6)
Nation	31 (1.4) 210 (2.1)	31 (1.3) 206 (1.9)	36 (1.5) 214 (1.5)	34 (1.2) 211 (2.2)	33 (1.4) 203 (1.9)	34 (1.2) 199 (1.8)
<u>GENDER</u>						
Male State	24 (1:3) 216 (2:2)	25 (1.4) 210 (2.6)	39 (1.4) 216 (1.4)	41 (1.5) 212 (2.1)	36 (1.3) 211 (1.8)	34 (1.5) 206 (2.7)
Nation	30 (1.0) 211 (2.1)	29 (1:0) 208 (2:3)	38 (1.2) 216 (1.7)	35 (1:0) 213 (2:0)	32 (0.9) 207 (1.8)	35 (1.0) 204 (1.7)
Female State	30 (1.4)	30 (1.5)	40 (1.4)	39 (1.4)	30 (1.5)	31 (1.5)
Nation	220 (1.7) 33 (1.4) 219 (1.4)	223 (2.8) 36 (1.0) 220 (1.5)	223 (1.8) 39 (1.5) 225 (1.5)	220 (2.1) 37 (1.1) 223 (1.4)	215 (2.1) 28 (1.3) 212 (1.8)	212 (2.5) 27 (1.0) 211 (1.9)
				1		
SCHOOL TYPE Public						

SCHOOL TYPE						
Public					- 1	
State	<u>=(=3</u>	28 (1:1) 217 (1:9)	= (=3)	40 (1.0) 216 (1.7)		32 (1.1) 209 (2.2)
Nation	==(= <u>:</u>)	32 (0.8)	(i)	36 (0.8)	()	31 (0.8)
	(=)	214 (1.6)	(=)	218 (1.4)	===(===)	207 (1.4)
Non-Public						
State		35 (8.8)	== (===) == (===)	40 (9.2)		24 (3.0)
Nation	(=)	32 (1.6)	()	46 (2.0)	(==i)	22 (1.6)
Combined	()	234 (2.9)	()	235 (3.0)	— (==)	220 (3.6)
State	()	28 (1.2)		40 (1.0)	()	32 (1.1)
Nation	== (===) == (===)	32 (0.8)	==(==)	37 (0.8)		30 (0.7)
	—(==)	216 (1.4)	()	220 (1.4)	=== (===)	208 (1.3)

⁼⁼⁼ School type results are not presented for 1992 since state-level non-public school data were not collected.



The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. *** Sample size is insufficient to permit a reliable estimate.



TABLE D6.4C

Public School Teachers' Reports on Asking Students to Talk With Each Other About What They Have Read

 Almost Every Day
 At Least Once a Week
 Less than Weekly

 1992
 1994
 1992
 1994
 1992
 1994

	3.77		Percentage a	nd Proficiency		
TOTAL						
State	39 (3.2)	37 (2.8)	49 (3.3)	50 (2.9)	11 (1(6)	12 (1.9)
	218 (2.1)	212 (2.1)	216 (14)	216 (1 7)	219 (2.9)	212 (3.7)
Nation		34 (2.5)	49 (3.0)	48 (2.5)	19 (2.7)	18 (1.8)
RACE/ ETHNICITY	215 (2.2)	211 (2.2)	218 (1.7)	215 (1.5)	213 (2.9)	215 (2.9)
White						
State	39 (3.5)	36 (2.9)	49 (3.5)	52 (3.1)	11 (1.7)	40740
0.0.0	224 (1.9)	221 (1.9)	220 (1.4)	225 (1.8)	224 (2.5)	12 (1.9) 220 (4.2)
Nation	31 (2.8)	32 (2.9)	50 (3.5)	50 (2.9)	19 (3.2)	18 (22)
.	222 (2.4)	222 (2.2)	225 (1.8)	223 (1.7)	221 (3.2)	225 (2.6)
Black State	E0 (0.4)	00100	45/00			
State	50 (8:1)	36 (8.0)	45 (8.7)	52 (6.5) 199 (6.6)	6 (2.0)	12 (6.8)
Nation	37 (3.8)	40 (5.0)	43 (4.0)	40 (4.7)	20 (3.6)	20 (2.8)
	191 (2.8)	183 (3.0)	198 (.3.3)	188 (2.9)	190 (3.5)	190 (4.2)
Hispanic					` -	
State	37 (4.9)	40 (4.3)	52 (5.1)	47 (.3.7)	12 (2.7)	13 (3.2)
Nation	200 (3.4) 32 (3.1)	193 (3.5) 35 (4.0)	204 (2.8) 48 (3.2)	193 (2.2) 49 (4.1)	(***)	193 (4.4)!
11450.1	203 (3.3)	188 (4.4)	202 (3.9)	192 (2.4)	20 (2.4) 198 (4.3)	16 (2.2) 189 (5.9)
American Indian			(50)		100 (4.0)	103 (33)
State	46 (7.7)	32 (5.9)	41 (7.4)	49 (5.9)	13 (5.0)	19 (5.2)
Nation	(-1)	(".")	(***)	*** (**.*)	*** (**.*)	*** (**.*)
Nation	27 (6.2)	42 (42)	42 (8.6)	44 (4.4)	32 (7.2)	14 (2.9)
TYPE OF	V - J	1.7	(-:-)	(.)	(7)	*** (**:*)
LOCATION						
Central City						
State		40 (5.2)	47 (6.8)	48 (4.6)	13 (3.6)	12 (2.5)
Nation	212 (3.5)	206 (4.4)	212 (3.2)	213 (3.0)	217 (4.7)!	202 (5.8)1
Nauon	36 (3.4) 213 (2.4)	37 (5.0) 202 (5.3)	48 (3.9) 208 (3.0)	41 (4.0)	16 (2.4)	22 (3.2)
Urb Frng/Lrg Town	.E10 (2.4)	202 (3.3)	200 (3.0)	207 (3.2)	197 (3.8)	204 (4.6)
State	42 (4.8)	35 (4.1)	46 (4.3)	51 (4,8)	12 (2.1)	14 (3.1)
	221 (3.5)	217 (2.8)	219 (2.1)	217 (3.0)	220 (4.5)	217 (4.9)1
Nation	29 (4.3)	37 (3.1)	53 (4.1)	47 (3.5)	18 (3.4)	16 (2.9)
Rural/Small Town	216 (5.4)	218 (2.9)	224 (2.4)	220 (2.2)	219 (4.5)!	227 (3.6)
State	33 (5.9)	37 (7.4)	58 (6.5)	54 (7.1)	10 (3.1)	9 (4.4)
	222 (2.9)	210 (2.8)1	215 (3.2)	221 (4.7)	(**)	**(***)
Nation	31 (5.9)	25 (5.5)	44 (7.0)	60 (5.9)	25 (7.0)	15 (3.4)
	214 (3.3)!	209 (3.3)!	222 (3.5)	215 (2.3)	218 (4.1)!	214 (5.3)1
		<u> </u>				

(continued on next page)





TABLE D6.4C (continued)

Public School Teachers' Reports on Asking Students to Talk With Each Other About What They Have Read

		_	
1994	Trial	State	Assessment

Almost Every Day		At Least O	nce a Week	Less than Weekly		
1992	1994	1992	1994	1992	1994	

			D	-2 D - E -:		
			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate						
State	40 (3.6)	35 (3.0)	49 (3.7)	53 (3.1)	12 (1.9)	11 (1.8)
Nation	226 (2.4) 33 (3.2)	222 (2.6) 36 (2.9)	223 (1.5) 49 (3.6)	224 (1.7) 46 (2.7)	229 (2.7) 18 (3.0)	216 (4.7) 17 (2.2)
,	224 (3.6)	224 (2.3)	225 (2.4)	223 (1.8)	221 (3.8)	224 (3.7)
Some ed after HS						
State	41 (4.3) 227 (3.1)	35 (4.1) 214 (4.2)	49 (5.0) 220 (3.6)	50 (5.0)	11 (3.0)	15 (3.5)
Nation	31 (3.6)	27 (3.3)	49 (4.4)	223 (4.4) 54 (4.0)	19 (3.9)	19 (3.2)
	217 (4.9)	217 (4:8)	227 (3.1)	222 (2.9)	*** (**.*)	229 (4.1)
HS graduate State	39 (5.0)	39 (4.4)	ELLEN:	40 (40)		
State	215 (3.7)	212 (5.2)	51 (5.0) 208 (3.0)	49 (4.3) 217 (4.1)	10 (1.9)	12 (3.0)
Nation	35 (4.3)	30 (2.9)	44 (4.3)	49 (3.1)	21 (3.5)	21 (2.8)
	208 (3.0)	202 (4.1)	215 (3.0)	208 (2.5)	214 (4.6)	215 (5.2)
HS non-graduate State	44 (6.0)	47 (5.9)	44 (6.2)	46 (5.6)	12 (5.0)	7/00
Otate	77 (00)	(**)		-40 (3.0)	12 (5.0)	7 (2.8)
Nation	30 (4.9)	27 (3.3)	46 (4.4)	52 (3.3)	23 (3.4)	21 (3.7)
l don't know	189 (6.6)1	185 (4.5)	200 (4.5)	192 (4.9)	()	(::)
State	38 (3.1)	39 (3.6)	50 (3.3)	48 (3.6)	12 (1.9)	13 (2.6)
	208 (2.8)	201 (3.0)	211 (2.1)	207 (2.7)	211 (4.2)	209 (5.2)
Nation	30 (2.6)	35 (2.9)	50 (3.2)	48 (3.0)	19 (2.8)	17 (1.9)
GENDER	209 (2.1)	200 (2.6)	213 (2.1)	210 (1.9)	207 (3.2)	206 (4.1)
Male						
State	39 (3:3)	37 (2.9)	48 (3.3)	51 (3.1)	13 (1.9)	12 (1.8)
Al-M	215 (2.0)	208 (2.8)		211 (2.5)	216 (3.7)	207 (3.7)
Nation	32 (2.7) 211 (3.1)	35 (2.7) 208 (2.2)	49 (3.2) 215 (2.1)	47 (2.7) 208 (1.7)	19 (2.8) 209 (3.2)	18 (1.8) 207 (3.7)
Female	(0.1)	()	(!)	200 (1.7)	203 (3.2)	201 (3.1)
State	40 (3.3)	38 (3.0)	51 (3.6)	50 (2.9)	10 (1.5)	12 (2.1)
Nation	221 (2.9) 31 (2.6)	215 (2.3) 33 (2.5)	218 (2.0) 49 (3.0)	222 (2.1)	224 (2.9)	216 (5.2)
Hauon	218 (2.1)	214 (2.7)	223 (2.0)	49 (2.5) 221 (1.6)	19 (2.7) 217 (3.4)	18 (2.0) 223 (2.7)
	•				, , 0.77	(/)

SCHOOL TYPE						
Public						
State	()	37 (2.8)	— (— .)	50 (2.9)		12 (1.9)
	(=)	212 (2.1)	==(===)	216 (1.7)	l == (=,=)	212 (3.7)
Nation	()	34 (2.5)	== (===)	48 (2.5)	ii	18 (1.8)
	=== (==,=)	211 (2.2)	-==(===)	215 (1.5)	(===i==i	215 (2.9)
Non-Public						
State		21 (11.3)		68 (10.5)		11 (11.3)
	 ()	*** (**.*)	()	*** (**.*)	(=,=)	*** (**.*)
Nation	()	28 (4.7)	(=:=)	45 (4.6)		27 (4.6)
	()	229 (4.8)	==(==)	231 (2.8)	===(==,=)	231 (4.7)
Combined						
State	=== (==,=)	36 (2.8)	()	52 (2.8)	(,=)	12 (1.9)
	(:=)	*** (**.*)	()	*** (**.*)	(==,=) ·	**** (***.*)
Nation	()	33 (2.2)	()	48 (2.3)	(=)	19 (1.7)
	=== (==.=)	212 (2.0)	()	216 (1.4)	(==)	217 (2.6)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.







TABLE D6.4D

Public School Students' Reports on Talking With Each Other About What They Have Read

Almost Every Day At Least Once a Week Less than Weekly
1994 1994 1994

		1994	1994
		Percentage and Proficiency	
<u>TOTAL</u>			
State	17 (0.9)	32 (1:1)	50 (1.1)
Nation	205 (.2.3) 17 (.0.7)	214 (1.8) 30 (0.6)	217 (1.6) 53 (0.9)
RACE/ ETHNICITY	202 (2.0)	213 (1.4)	218 (1.3)
White			
State	15 (1:0)	33 (11)	52 (1.3)
Nation	218 (2.4) 14 (0.7)	222 (1.9) 30 (0.7)	224 (1.5)
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	218 (2.5)	222 (1.8)	56 (12) 225 (13)
Black			
State	19 (3.0)	36 (4:1)	45 (3.2) 198 (6.6)
Nation	27 (1.4)	29 (1.0)	44 (1.6)
	178 (2.7)	188 (2.8)	193 (2.4)
Hispanic State	24 (1.8)	30 (2:0)	45 (2.3)
	187 (4.0)	195 (2.8)	197 (2.7)
Nation	23 (2.3)	32 (19)	45 (2.5)
American Indian	181 (4.5)	190 (3.4)	194 (3.0)
State	16 (3.3)	32 (4.4)	52 (4.0)
N-4	(".")	77	-(-:)
Nation	22 (4.0) ***(***)	22 (4:3)	56 (4.7) 208 (4.1)
TYPE OF	1	1	24(4.1)
LOCATION			
Central City State	18 (1.7)	20 (4.77	
State	194 (4.2)	32 (1.7) 211 (3.6)	51 (2.3) 215 (2.6)
Nation	19 (1:1)	29 (1.1)	52 (12)
Urb Frng/Lrg Town	192 (2:8)	203 (2.5)	211 (2.7)
State	16 (-1.2)	33 (1.9)	51 (1.8)
	210 (4.0)	217 (2.7)	218 (2.8)
Nation	16 (1.2)	30 (12)	54 (1.8)
Rural/Small Town	211 (4.1)	218 (2.3)	223 (1.7)
State	19 (1.2)	32 (1.9)	49 (1.8)
Nation	213 (4.1)	215 (3.0)	219 (3.1)
ואמשטוו	17 (1.2) 202 (3.6)	31 (1.0) 215 (3.0)	52 (1.7) 218 (2.2)
	<u> </u>		2:0(20)

(continued on next page)



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TABLE D6.4D (continued)

Public School Students' Reports on Talking With Each Other About What They Have Read

1994 Trial State Assessment

Almost Every Day	At Least Once a Week	Less than Weekly
1994	1994	1994

		<u>l</u>	
_		Percentage and Proficiency	
PARENTS' EDUCATION	14 - CHARLES H. H.		Property of the Control of the Contr
College graduate State	17 (1.2)	34 (1.5)	48 (1.5)
Nation	215 (2.8) 17 (0.8)	223 (2.0) 31 (1.1)	224 (1.9) 52 (1.4) 227 (1.8)
Some ed after HS State	210 (2.9) 19 (2.8)	224 (1.8) 37 (3.9)	44 (4.2)
Nation	15 (1.6)	216 (4.1) 31 (2.3)	227 (3.8) 54 (2.5)
HS graduate	211 (4:8)	221 (2.9) 31 (3.4)	527 (3.0) 53 (3.1)
State Nation	16 (2.7) (**.*) 20 (1.8)	212 (4.3) 29 (1.9)	218 (3.4) 51 (1.9)
HS non-graduate	202 (3.8)	205 (3.5)	212 (2.6)
State Nation	22 (4.5) 	20 (4.3) (***) 31 (3.7)	58 (5.2) (**-7) 49 (3.7)
I don't know	(F. 4)	191 (7.1)	193 (4.3)
State	16 (1.0) 194 (4.0)	31 (1.9) 203 (2.5)	53 (1.8) 209 (2.2)
Nation GENDER	18 (1.2) 195 (2.9)	28 (1.1) 202 (2.2)	. 54 (1.7) 210 (1.7)
Male State	17 (1.1)	31 (-1.5)	52 (1.4)
Nation	202 (3.4) 16 (0.7)	210 (3.0) 27 (1.1)	212 (2.1) 56 (1.1)
Female State	196 (2.8) 18 (1.2)	206 (1.9) 34 (1.4)	213 (1.5) 48 (1.5)
Nation	208 (2.6) 19 (1.0)	216 (2.2) 33 (0.8)	222 (1:6) 49 (1:4)
	207 (2.2)	218 (11.6)	224 (1:4)
SCHOOL TYPE Public	strong en	100	and the second s
State	17 (0.9) 205 (2.3)	32 (1.1) 214 (1.8)	50 (1.1) 217. (1.6)
Nation Non-Public	17 (0.7) 202 (2.0)	30 (0.6) 213 (1.4)	53 (0.9) 218 (1.3)
State	9 (2.0)	26 (4.7) (2.7)	65 (4.6) 239 (5.4)i
Nation	12 (1.2) 223 (4.7)	27 (1.4) 228 (3.5)	61 (1.8) 235 (2.3)
Combined State	17 (0.8)	32 (1.0) *** (**:*)	51 (1.1) 219 (1.6)
Nation	17 (0.6)	30 (0.6)	54 (0.9)

The 1992 data are not reported for this variable due to a rewording of the question for the 1994 assessment. The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). *** Sample size is insufficient to permit a reliable estimate.



203 (1.8)





TABLE D6.4E

Public School Teachers' Reports on Asking Students to Do a Group Activity or Project About What They Have Read

Almost Every Day		At Least O	nce a Week	Less than Weekly		
1992	1994	1992	1994	1992	1994	

						
			Percentage a	nd Proficiency	3.67	
TOTAL						
State	6 (1.5) 219 (9.3)	5 (1.2) 209 (5.4)!	27 (2.8) 218 (1.8)	28 (2.6) 216 (2.1)	67 (3.0) 217 (1.4)	-67 (3.1) 214 (1.7)
Nation	3 (0.8) 220 (4.5)	5 (1.1) 207 (5.5)!	21 (2.4)	28 (2.4)	76 (2.5)	67 (2.3)
RACE/ ETHNICITY	220 (42)	207 (3.3)]	218 (2.3)	214 (2.0)	215 (1.5)	214 (1.3)
White State	5 (1.7)	5 (1.0)	27 (2.7)	26 (2.7)	68 (3.2)	50 (0.0)
	226 (11.7)!	222 (3.2)!	221 (1.5)	226 (2.2)	222 (1.3)	69 (2.9) 222 (1.7)
Nation	3 (0.9) 229 (4.4)	4 (1.2) 221 (5.8)	-21 (2.7) 225 (2.7)	29 (3.2) 222 (2.4)	75 (3.0) 222 (1.7)	67 (3.0) 223 (1.4)
Black State	14 (6.4)	6 (3.3)	21 (7.2)	25 (4.5)	65 (6.7)	
	()	*** (**.*)	*** (**.*)	*** (**.*)	*** (**.*)	69 (5.6) 190 (5.2)
Nation	2 (12)	4 (15)	20 (3.7) 195 (3.7)	23 (2.2) 163 (3.9)	77 (3.7) 194 (2.1)	73 (2.5) 188 (1.8)
Hispanic State	6 (1.9)	7 (2.3)	26 (4.6)	32 (4.2)	68 (4.7)	,
	(**.*)	(*:*)	205 (4.4)	195 (3.9)	202 (2.2)	60 (5.6) 193 (3.1)
Nation	5 (1.7)	7 (1.9)	18 (3.1) 204 (5.1)!	27 (2.4) 194 (3.8)	77 (3.3) 201 (2.6)	66 (2.6) 190 (2.6)
American Indian State	9 (3.9)	4(22)	26 (6.3)	26 (6.2)		
	(,1)	()	*** (****)	(**.7)	65 (6.3) (**)	70 (6.7)
Nation	0 (0.0)	5 (2.3)	23 (6.7)	26 (5.1)	77 (6.7)	69 (5.4) 201 (4.7)
TYPE OF LOCATION						
Central City						
State	4 (18)	8 (2.5)	34 (7.1) 218 (3.4)	28 (4.0) 212 (3.6)	62 (6.9) 211 (3.1)	64 (5.6) 208 (3.1)
Nation	7 (2.0)	6 (2.2)	17 (2.5)	22 (3.4)	76 (2.5)	72 (3.6)
Urb Frng/Lrg Town	226 (5.3)!	199 (6.8)1	207 (3.6)	208 (5.2)	207 (2.5)	204 (12.6)
State	8 (2.6) 228 (10.2)!	4 (1.5)	25 (3.5) 217 (2.7)	31 (3.9) 219 (3.2)	67 (3.7) 220 (2.0)	65 (3.9) 217 (2.6)
Nation	2 (0.8)	5 (177)	22 (3.2)	30 (3.5)	77 (3.4)	65 (3.2)
Rural/Small Town	" (":)	215 (9.2)1	221 (3.2)	220 (2.2)	221 (2.7)	221 (1:9)
State	3 (23)	4 (23)	21 (4.4) 218 (4.4)	20 (7.7)	76 (4.9) 218 (2.7)	76 (8.5) 216 (3.5)
Nation	2 (12)	2 (1.1)	24 (5.6)	32 (6.2)	75 (6.4)	66 (6.1)
	1.7	-60	223 (4.4)	210 (2.4)	.217 (2.9)	.215 (2.6)

(continued on next page)



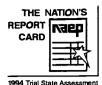


TABLE D6.4E (continued)

Public School Teachers' Reports on Asking Students to Do a Group Activity or Project About What They Have Read

Almost Every Day		At Least Or	nce a Week	Less than Weekly	
1992	1994	1992	1994	1992	1994

			Percentage a	ınd Proficiency		
PARENTS' EDUCATION						
College graduate State	7 (2:1)	5 (1:1)	28 (3.1)	30 (2.9)	64 (3.5)	85 (3.2)
Nation	227 (9.8) 3 (0.8)	224 (5.9)! 4 (1.0) 216 (6.3)!	226 (2.2) 19 (2.6) 224 (3.3)	224 (2.8) 30 (3.0) 225 (2.3)	225 (1.3) 78 (2.7) 224 (2.1)	221 (1.9) 66 (2.9) 223 (1.7)
Some ed after HS State	5 (1.9)	4 (1.5)	25 (3.4) 225 (3.7)	32 (3.8) 219 (5.2)	71 (3.4) 223 (3.0)	64 (4.0) 223 (3,4)
Nation	4 (1:1)	5 (16)	24 (3.8) 219 (5.8)	25 (4.1)	72 (3.8) 222 (2.3)	70 (3.9) 223 (2.4)
HS graduate State	5 (1.8)	8 (.2.5) *** (***)	21 (3.2)	24 (4.0)	74 (3.5) 210 (2.8)	68 (4.8)
Nation	4 (1.5)	6 (1.6)	20 (2.8) 214 (4.8)		76 (3.1) 212 (2.5)	212 (3.3) 69 (3.1) 208 (2.3)
HS non-graduate State	5(27)	6 (2.9)	23 (5.9)	30 (6:1)	73 (6.1)	62 (6.5)
Nation	4 (1.5)	4 (17)	15 (4.3)	29 (4.7) 187 (6.3)	81 (4.4) 200 (3.8)	67 (4.6) 189 (4.1)
I don't know State	5 (12)	5 (1.4)	28 (3.5)	25 (2.9)	67 (3.7)	69 (3.6)
Nation	3 (0.9)	5 (1.1) 200 (5.9)	209 (2.5) 23 (2.9) 217 (3.1)	205 (2.9) 27 (2.4) 205 (2.9)	210 (1.9) 74 (3.1) 208 (1.7)	206 (2.4) 69 (2.3) 206 (1.5)
<u>GENDER</u>						
Male State	6 (1.3) 218 (5.0)	5 (1.1) 197 (8:0)!	27 (2.9) 214 (2.2)	28 (2.9) 213 (2.9)	67 (3.1) 214 (1.8)	.67 (.3.2) 209 (.2.1)
Nation	3 (0.9)	5 (1.1)	21 (2.8)	28 (2.5)	75 (2.9)	67 (2.4)
Female State	217 (5.6)1 6 (1.7)	202 (6.6) 6 (1.4)	215 (2.7) 26 (3.0)	28 (2.6)	211 (1.7) 68 (3.2)	66 (3.2)
Nation	220 (14.8) 3 (0.8) 223 (4.8)	218 (5.5) 5 (1.2) 213 (5.3)	222 (2.3) 20 (2.2) 221 (2.9)	220 (2.6) 28 (2.6) 221 (2.7)	219 (1.6) 76 (2.3) 220 (1.6)	218 (1.9) 68 (2.4) 219 (1.3)

SCHOOL TYPE						
Public						
State	· === (==,=)	5 (12)	·()	28 (2.6)	==(==)	67 (3.1)
	(<u></u> ,_)	209 (5,4)!	(<u></u>)	216 (2.1)	(=)·	214 (1.7)
Nation	(<u></u>)	5 (1.1)	(i	28 (.2.4)	(<u>-</u> -)	67 (2.3)
	(=,=)	207 (5.5)!	(=)	214 (2.0)	()	214 (1.3)
Non-Public						
State	()	0 (0.0)	(19 (13.2)	 (:-)	81 (13.2)
	=== (==.=)	*** (****)	— (— <u>.</u> =)	*** (** *)	· () :	237 (4.7)í
Nation	(<u></u>)	2 (1.6)	————	27 (4.1)	(i	71 (4.3)
	(a)	*** (** *)	(=:=)	228 (3.8)	ii	231 (3.4)
Combined	` '				```	
State	(<i>-</i>)	5 (1.1)	(,=)	27 (2.6)	()	67 (.3.0)
	(<u></u> ;		(<u></u>)		= (=.=)	215 (1.8)
Nation	===(====)	4 (1.0)	()	28 (2.2)	— (—∋i	68 (2.1)
	(=,=)	*** (**.*)	(=,=)	215 (1.8)	(-:-i	215 (1.2)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted.



⁼⁼⁼ School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



TABLE D6.4F

Public School Students' Reports on Doing a Group Activity or Project About What They Have Read

Almost Every Day	At Least Once a Week	Less than Weekly
1994	1994	1994

		Percentage and Proficiency	
TOTAL State			
Nation	14 (1.0) 201 (2.8)	28 (1.0) 212 (1.5)	58 (1.4) 221 (1.5)
	15 (0.6) 198 (1.9)	24 (0.7) 209 (1.4)	61 (0.9) 220 (1.2)
RACE/ ETHNICITY White		-	
State	11 (1.1) 214 (3.1)	27 (1.2) 221 (2.1)	61 (1.5) 227 (1.5)
Nation	12 (0.6) 210 (2.7)	23 (0.8) 220 (1.7)	65 (0.9)
Black State	17 (4.4)		227 (1.4)
Nation	*** (***)	27 (3.6)	56 (4.7) 199 (6.8)
Hispanic	25 (1.3) 181 (2.9)	27 (1.5) 187 (3.0)	47 (1.7) 193 (2.3)
State	21 (2.3)	32 (2.0)	48 (2.7)
Nation	183 (4.4) 19 (1.8)	192 (2.9) 30 (1.8)	202 (2.8) 51 (2.3)
American Indian	179 (4.9)	185 (3.8)	197 (3.0)
State	22 (4.6)	24 (6.0)	54 (6.9) *** (***)
Nation	17 (3.1). (***)	22 (3.2) (**.*)	61 (3.5) 202 (4.7)
TYPE OF LOCATION		1	EVE (4:1)
Central City State	40.45		
	13 (1.5) 195 (4.7)	29 (1.6) 208 (3.4)	57 (2.1) 217 (2.8)
Nation	17 (1.0) 189 (2.6)	26 (1.2) 201 (3.0)	58 (1.5) 213 (2.6)
Urb Frng/Lrg Town State	15 (1.3)	27 (1.4)	58 (2.2)
Nation	207 (4.8) 14 (1.1)	214 (2.2) -23 (1.0)	222 (2.4) 63 (1.4)
Rural/Small Town	207 (3.9)	216 (2.4)	225 (2.0)
State	13 (2.5) 197 (4.5)	28 (2.9) 214 (2.8)	60 (2.8) 224 (3.0)
Nation	14 (0.9) 197 (3.8)	25 (1.3) 210 (2.8)	61 (1.3) 220 (2.1)
		LIU(ED)	ZEV(-C.1)

(continued on next page)





TABLE D6.4F (continued)

Public School Students' Reports on Doing a Group Activity or Project About What They Have Read

1994 Trial State Assessme

Almost Every Day	At Least Once a Week	Less than Weekly
1994	1994	1994

PARENTS' EDUCATION College graduate State 13 (1.1) 20 (3.7) 14 (1.08) 32 (1.3) 15 (2.3) 219 (2.2) 229 (1.8) 229 (1.7) State 20 (3.7) 219 (2.2) 229 (1.7) State 20 (3.7) 219 (2.2) 229 (1.7) State 20 (2.4) 219 (2.2) 229 (1.7) State 216 (2.3) 220 (3.4) 221 (2.3) 220 (3.3) 36 (2.7) 224 (4.17) 27 (2.3) 36 (2.7) 224 (5.3) 224 (5.3) 224 (5.3) 224 (5.3) 224 (5.3) 224 (5.3) 227 (2.9) 45 graduate State 14 (2.7) 30 (2.9) 55 (3.5) 220 (3.4) 227 (2.9) 45 state 214 (5.5) 206 (2.9) 213 (2.3) 45 anduate State 13 (4.1) 25 (3.9) 62 (4.7) Nation 14 (1.13) 27 (1.6) 59 (1.8) 194 (5.5) 206 (2.9) 213 (2.3) 46 anduate State 13 (4.1) 25 (3.9) 62 (4.7) 27 (1.0) 27 (1.0) 28 (1.0) 28 (1.0) 29 (1.0) 21 (1.0) 21 (1.0) 21 (1.0) 22 (3.2) 26 (3.1) 25 (3.2) 26 (3.1) 25 (3.2) 26 (3.1) 26 (3.1) 27 (1.6) 27 (1.6) 28 (1.6) 29 (1.6)				
College graduate 13 (1.1) 27 (1.4) 60 (1.8) Nation		and the second	Percentage and Proficiency	
College graduate State State State 13 (1.1) 27 (1.4) 60 (1.8) 29 (2.2) 229 (1.8) Nation 14 (0.8) 207 (2.4) 219 (2.2) 229 (1.7) Some et after HS State 16 (2.2) 17 (2.3) State 18 (2.3) 18 (2.7) Nation 14 (1.7) 27 (2.2) 28 (3.3) Nation 14 (1.7) 27 (2.2) 38 (2.7) Nation 14 (1.7) 27 (2.2) 38 (2.7) State 14 (2.7) 15 (2.9) 15 (2.3) 15 (2.3) 16 (2.3) 17 (1.6) 18 (2.7) 19 (2.3) 19 (2.5) 19 (2.3) 19 (2.5) 19 (2.5) 19 (2.3)	PARENTS' FDUCATION			
Nation	College graduate	19/11	27 (1.4)	E0 (1.8)
Some ed after HS State 10 (2.3) 10 (2.3) 10 (2.5) 10 (2.5) 10 (2.5) 10 (2.5) 10 (2.6) 10 (2.7) 10 (2.7) 11 (2.7) 11 (2.7) 12 (2.3) 12 (2.5) 13 (2.6) 14 (1.7) 12 (2.3) 13 (2.6) 14 (1.7) 12 (2.3) 13 (2.7) 14 (5.1) 12 (2.3) 13 (2.7) 14 (5.1) 14 (1.7) 14 (1.7) 15 (2.3) 16 (2.7) 17 (2.3) 18 (2.7) 18		206 (3.7)	219 (2.2)	229 (1.8)
State 16 (2.3) 26 (2.5) 58 (3.7) 10 (1.7) 1				
Nation 14 (1.7) 27 (2.3) 58 (2.7) 214 (5.1) 220 (3.4) 227 (2.9) 415 graduate State 14 (2.7) 30 (2.9) 55 (3.5) 59 (1.8) 194 (5.5) 206 (2.9) 206 (2.9) 213 (2.3) 415 (2				
HS graduate State	Nation	14 (1.7)	27 (2.3)	58 (2.7)
Nation 14 (13) 207 (16) 59 (18) 194 (5.5) 206 (2.9) 213 (2.3) HS non-graduate 13 (4.1) 25 (3.9) 62 (4.7) State 13 (4.1) 25 (3.9) 62 (4.7)				100
HS non-graduate State 13 (4.1) 13 (4.1) 15 (3.9) 16 (2.9) 17 (1.1) 18 (4.7) 18 (4.7) 18 (4.7) 18 (4.9) 19 (5.4) 19 (6.4) 19		()	207 (4.2)	220 (3.4)
State 13 (4.1) 25 (3.9) 62 (4.7) (***)				
Nation 22 (3.2) 26 (3.1) 52 (3.3) 194 (5.4) I don't know State 14 (1.4) 31 (1.5)			25 (3.9)	
I don't know	Nation	22 (3.2)	26 (3.1)	52 (3.3)
Nation 15 (1.0) 23 (1.1) 62 (1.5) 213 (1.4) 62 (1.5) 389 (3.7) 201 (2.0) 213 (1.4) 389 (3.7) 201 (2.0) 213 (1.4) 389 (3.7) 213 (1.4) 380 (2.1) 380			31 (1.5)	
GENDER Male 15 (1.1) 27 (1.4) 58 (1.7) 194 (3.1) 207 (2.8) 217 (1.9) Nation 14 (0.7) 24 (0.9) 62 (1.9) Female 193 (3.0) 203 (2.0) 215 (1.4) State 13 (1.3) 29 (1.4) 58 (1.8) 210 (3.5) 216 (2.1) 224 (1.7) Nation 15 (0.8) 25 (0.9) 60 (1.2) 203 (2.3) 216 (1.7) 225 (1.4) SCHOOL TYPE 201 (2.8) 212 (1.6) 221 (1.5) Nation 15 (0.6) 24 (0.7) 6 (0.9) 198 (1.9) 209 (1.4) 220 (1.2) Non-Public 30 (1.2) 30 (1.2) State 7 (1.5) 20 (3.2) 73 (3.6) 10 (1.2) 20 (1.2) 20 (1.2) Non-Public 30 (1.2) 30 (1.2) 30 (1.2) 10 (1.2) 20 (1.2) 30 (1.2) 30 (1.2) 10 (1.2) 30 (1.2) 30 (1.2) 30 (1.2) 10 (1.2) 30	Nation			
State	<u>GENDER</u>	189 (3.7)	201 (2.0)	213 (1.4)
Nation 14 (0.7) 24 (0.9) 62 (1.0) 193 (3.0) 203 (2.0) 215 (1.4) Female State 13 (1.3) 29 (1.4) 58 (1.8) 210 (3.5) 216 (2.1) 224 (1.7) 224 (1.7) 225 (1.4) Nation 15 (0.8) 25 (0.9) 60 (1.2) 203 (2.3) 216 (1.7) 225 (1.4) SCHOOL TYPE Public State 14 (1.0) 28 (1.0) 58 (1.4) 225 (1.5) 221 (1.5) 22		15 (1.1)	27 (1.4)	58 (1.7)
Female State 13 (1.3) 29 (1.4) 58 (1.8) 210 (3.5) 224 (1.7) 224 (1.7) 225 (0.9) 60 (1.2) 203 (2.3) 216 (1.7) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.5) 221 (1.	Nation		24 (0.9)	62 (1.0)
Nation 210 (3.5) 216 (2.1) 224 (1.7) 15 (0.8) 25 (0.9) 60 (1.2) 203 (2.3) 216 (1.7) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.4) 225 (1.5) 221 (1.5)				
203 (2.3) 216 (1.7) 225 (1.4)		210 (3.5)	216 (2.1)	224 (1.7)
Public State 14 (1.0) 28 (1.0) 58 (1.4) Nation 201 (2.8) 212 (1.6) 221 (1.5) Nation 15 (0.6) 24 (0.7) 61 (0.9) 198 (1.9) 209 (1.4) 220 (12) Non-Public State 7 (1.5) 20 (3.2) 73 (3.6) "" ("") 242 (3.8) Nation 8 (0.9) 20 (1.3) 72 (1.7) 219 (4.7) 224 (4.3) 235 (2.3) Combined State 14 (0.9) 28 (1.0) 59 (1.4) Nation 14 (0.9) 22 (1.5) 22 (1.5) Nation 14 (0.5) 24 (0.7) 62 (0.8)	Nation			
Public State 14 (1.0) 28 (1.0) 58 (1.4) Nation 201 (2.8) 212 (1.6) 221 (1.5) Nation 15 (0.6) 24 (0.7) 61 (0.9) 198 (1.9) 209 (1.4) 220 (12) Non-Public State 7 (1.5) 20 (3.2) 73 (3.6) "" ("") 242 (3.8) Nation 8 (0.9) 20 (1.3) 72 (1.7) 219 (4.7) 224 (4.3) 235 (2.3) Combined State 14 (0.9) 28 (1.0) 59 (1.4) Nation 14 (0.9) 22 (1.5) 22 (1.5) Nation 14 (0.5) 24 (0.7) 62 (0.8)	SCHOOL TYPE			
Nation 201 (2.8) 212 (1.5) 221 (1.5) 3.6 (0.9) 3.198 (1.9) 209 (1.4) 220 (1.2) Non-Public State 7 (1.5) 20 (3.2) 73 (3.6) 3.6 (3.8) 3.6 (3.8) 3.7	Public	14 (10)	28 (4.0)	58 (14)
Non-Public State 7 (1.5) 20 (1.2) 20 (1.2) 20 (1.2) 20 (1.2) 73 (3.6) 75 (1.5) 73 (3.6) 75 (1.7) 242 (3.8) 76 (1.7) 219 (4.7) 224 (4.3) 77 (1.7) 225 (2.3) Combined State 14 (0.9) 78 (1.0) 79 (1.4) 79 (1.7) 224 (1.5) Nation 14 (0.5) 24 (0.7) 62 (0.8)		201 (2.8)	212 (1.5)	221 (1.5)
State 7 (1.5) 20 (3.2) 73 (3.6) Nation 8 (0.9) 20 (1.3) 72 (1.7) 219 (4.7) 224 (4.3) 235 (2.3) Combined 14 (0.9) 28 (1.0) 59 (1.4) State 14 (0.9) 28 (1.0) 59 (1.4) Nation 14 (0.5) 24 (0.7) 62 (0.6)				
Nation 6 (0.9) 20 (1.3) 72 (1.7) 219 (4.7) 224 (4.3) 235 (2.3) 235 (2.3) 2518 219 (4.7) 228 (1.0) 59 (1.4) 59 (1.4) 70 (1.7) 14 (0.5) 24 (0.7) 62 (0.8)				
Combined State 14 (0.9) 28 (1.0) 59 (1.4) Nation 14 (0.5) 22 (0.7) 62 (0.8)	Nation	8 (0.9)	20 (1.3)	72 (1.7)
Nation 14 (0.5)				
		··· (··· 1)	()	222 (1.5) 62 (0.8)

The 1992 data are not reported for this variable due to a rewording of the question for the 1994 assessment.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2.

with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). *** Sample size is insufficient to permit a reliable estimate.





TABLE D6.5A

Public School Teachers' Reports on Asking Students to Read Aloud

1994 Trial State Assessment

Almost E	very Day	At Least O	nce a Week	Less that	n Weekly
1992	1994	1992	1994	1992	1994

		<u> </u>	1			
			Percentage a	nd Proficiency		
TOTAL			1			
State	38 (2.8)	44 (3.1)	48 (3.0)	40 (3.3)	14 (2.1)	16 (2.4)
Nation	215 (1.7)	209 (1.9)	217 (1.6)	216 (2.0)	224 (3.0)	223 (2.9)
Nation	47 (2.9) 212 (1.6)	57 (2.4) 210 (1.5)	45 (2.5) 220 (1.8)	38 (2.3) 217 (1.6)	8 (1.7)	5 (1.1)
RACE/ ETHNICITY	L12 (1.0)	2.0 (1.3)	220 (1.6)	217 (1.0)	222 (4.1)	228 (5.0)!
White						
State	35 (3.0)	40 (3.5)	50 (3.3)	43 (3.8)	16 (2.4)	17 (2.8)
Nation	221 (1.3) 44 (3.3)	220 (1.7) 55 (2.7)	221 (1.5) 48 (2.9)	224 (2.3)	227 (2.9)	228 (2.4)
1400011	220 (2.0)	221 (1.8)	225 (2.1)	39 (2.5) 224 (1.6)	8 (2.0) 228 (4.0)	5 (1.3) 234 (4.4)
Black					_0,10,	257 (7.7)
State	48 (9.0)	51 (6.8)	38 (7:0)	40 (7.2)	14 (6.4)	9 (4.8)
Nation	58 (4.3)	188 (6.6) 63 (4.2)	35 (4.D)	35 (4.1)	5 (2.3)	3(1.2)
	193 (2.3)	182 (2.6)	195 (-3.1)	192 (2.2)	(2.5)	(**)
Hispanic						
State	48 (4.1) 202 (2.9)	55 (3.8) 190 (2.6)	43 (3.7) 201 (3.5)	35 (3.7) 196 (3.5)	9 (2.2)	10 (2.1)
Nation	60 (3.6)	59 (4.0)	34 (3.0)	35 (3.7)	6(22)	6 (1.6)
	198 (2.5)	187 (2.8)	206 (3.1)	194 (2.7)	· (7)	(***)
American Indian State	32 (6.5)	48 (5.3)	E4 (7.4)	00 (E 7)	4444.00	20 (4.4)
Otate	(**.*)	*** (**.*)	54 (7.4)	29 (5.7)	14 (4.8)	23 (6.6)
Nation	43 (6.9)	55 (6.6)	50 (6.9)	43 (6.4)	7 (3.5)	2 (1.3)
TYPE OF	()	198 (5.1)	*** (**.*)	(:)	(,-)	··· (*::)
LOCATION						
Central City						
State	49 (5.9)	52 (5.1)	42 (5.0)	37 (4.6)	9 (3.7)	10 (3.7)
	212 (3.5)	204 (3.2)	213 (2.8)	213 (3.4)	***(**.*)	*** (**:*)
Nation	53 (3.2) 207 (2.7)	58 (4.3) 200 (3.1)	40 (3.0) 209 (3.2)	37 (3.6) 210 (3.4)	8 (3.0)	5 (1.8)
Urb Frng/Lrg Town	201 (2.11)	200 (0.1)	209 (32)	210 (3.4)	211 (4.5)	222 (5.1)!
State	26 (3.9)	35 (4.7)	55 (4.9)	43 (5.3)	19 (3.8)	21 (4.2)
Nation	217 (2.9) 38 (4.6)	213 (3.0)	218 (2.4)	217 (3.0)	226 (3.6)1	224 (3.2)!
Nauon	216 (3.3)	54 (4.1) 217 (2.2)	54 (4.4) 224 (2.8)	41 (3.9) 222 (1.9)	9 (2.5) 224 (5.5)	5 (1.8) 235 (10.0)I
Rural/Small Town						200 (10.0)
State	48 (6.3)	47 (6.3)	40 (6.7)	39 (7.7)	12 (3.5)	13 (3.2)
Nation	217 (3.1)l 55 (5.3)	212 (3.1) 60 (5.5)	218 (3.1) 39 (4.1)	221 (4.7)1	7(1)	()
140011	213 (2.9)	212 (2.5)	223 (3.4)	36 (5.2) 215 (3.4)	7 (3.4) 231 (10.0)	5 (2.0)
			, ,	, , , ,	,	1

(continued on next page)





TABLE D6.5A (continued)

Public School Teachers' Reports on Asking Students to Read Aloud

1994 Trial State Assessmer

Almost E	very Day	At Least O	nce a Week	Less that	n Weekly
1992	1994	1992	1994	1992	1994

			<u> </u>	Ь		
			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate State	3 6 (3.4)	40 (0.5)	40.400	44.00	45165	
Nation	221 (1.8) 46 (3.3)	40 (3.5) 218 (2.2) 53 (2.7)	48 (3.5) 225 (1.5) 45 (2.6)	41 (3.7) 224 (2.4) 41 (2.6)	16 (2.5) 234 (3.2) 9 (2.2)	18 (3.1) 228 (3.0)
Some ed after HS	218 (2.1)	220 (2.0)	229 (2.5)	225 (1.9)	230 (5.8)	6 (1.5) 238 (5.5)
State	36 (4.0) 220 (4.1)	48 (3.6) 218 (4.4)	50 (4.0) 225 (3.3)	38 (3.9) 222 (3.7)	14 (3.0)	14 (3.4)
Nation	45 (3.8) 218 (3.6)	56 (3.6) 220 (3.0)	46 (3.4) 225 (3.6)	40 (3.4) 224 (2.9)	8 (2.8)	4(11)
HS graduate State		47 (4.6)	46 (4.5)	41 (4:6)	11 (3.2)	12 (3.1)
Nation	211 (3.7) 51 (3.9)	210 (3.9) 62 (3.0)	208 (3.3) 42 (3.6)	216 (4.6) 34 (3.1)	7(22)	4/11)
HS non-graduate	210 (2.6)	205 (2.0)	214 (3.2)	211 (4.0)	()	···(···)
State	40 (5.3)	57 (7.6) — (7.7)	46 (7.1)	31 (72)	14 (5.3)	12 (4.2)
Nation	46 (6.1) 193 (3.9)	57 (4.0) 187 (4.9)	50 (5.6) 204 (4.7)	37 (3.7) 189 (7.3)	4(22)	6 (22)
I don't know State	38 (3.1)	45 (3.4)	48 (3.3)	41 (3.6)	14 (2.1)	14 (2.4)
Nation	209 (2.6) 48 (3.4)	198 (2.4) 59 (2.7)	210 (2.3) 44 (3.0)	210 (2.3) 36 (2.5)	212 (4.5) 7 (1.7)	213 (4.5) 4 (1.0)
<u>GENDER</u>	207 (2.2)	202 (1:8)	213 (1.8)	209 (2.1)	216 (6.0)	217 (5.2)!
Male State	38 (2.8)	44 (3:1)	48 (3.1)	41 (3.2)	14 (2.4)	16 (2.4)
Nation	212 (1.9) 48 (3.1) 209 (2.0)	204 (2.6) .57 (2.4)	214 (2.2) 45 (2.6)	213 (2.5) 38 (2.3)	222 (2.8) 7 (1.8)	217 (3.3) 5 (1.0)
Female State	37 (3.1)	204 (1.6)	215 (2:1) 48 (3.2)	212 (2.1) 40 (3.6)	219 (4.1)	224 (4.9)!
Nation	218 (2.3) 47 (3.0)	213 (2.3) 57 (2.6)	220 (1.8) 45 (2.6)	220 (2.1) 38 (2.4)	15 (2.2) 225 (4.7) 8 (1.8)	16 (2.6) 228 (3.2) 5 (1.2)
	215 (1.7)	216 (1.8)	224 (2.0)	221 (1.9)	225 (5.3)	231 (54)
SCHOOL TYPE						
Public State	==(==)	44 (3.1)	()	40 (3.3)	()	16 (2.4)
Nation		209 (1.9) 57 (2.4)		216 (2.0) 38 (2.3)	== (=.=) == (=.=)	223 (2.9) 5 (1.1)
Non-Public	== (==) == (==)	210 (1.5)	== (==) == (==)	217 (1.6)	=== (===)	228 (5.0)!
State	— (—=) — (—=)	55 (22.9) *** (**.*)	== (==) == (==)	45 (22.9) (7.1)		0 (0.0)
Nation	==(==) ==(==)	63 (5.8) 229 (3.3)	===	30 (5.1) 235 (4.2)	() ()	7 (2.3) 228 (4.8)
Combined State	===(===)	44 (3.2)		41 (3.3)	=== (===)	15 (2.3)
	== (=:=)	™(::n)	(()	**** {**.*)	=== (==,=)	*** (**.*)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



Nation



TABLE D6.5B

Public School Students' Reports on Reading Aloud

Almost Every Day	At Least Once a Week	Less than Weekly
1994	1994	1994

		Percentage and Proficiency	
TOTAL State	33 (1.5)	31 (1.1)	36 (1.5)
Nation	212 (1.6) 45 (1.2) 215 (1.3)	215 (1.8) 30 (0.8) 218 (1.4)	219 (2.0) 25 (1.0) 209 (1.9)
RACE/ ETHNICITY White	210 (7.3)	210 (1.14)	209 (1.3)
State	32 (1.9) 221 (2.0)	31 (1.4) 223 (2.1)	.37 (1.8) 227 (1.7)
Nation	44 (1.4) 225 (1.6)	31 (0.9) 226 (1.6)	25 (1.3) 219 (2.1)
Black State	45 (5.0) *** (*.*)	25 (4.1)	30 (3.9)
Nation	.53 (2.3) 192 (2.3)	25 (1.9) 187 (2.8)	22 (1.6) 181 (3.4)
Hispanic State	37 (2.4)	34 (2.2)	29 (2.0)
Natio n	195 (3.2) 43 (1.7) 192 (3.1)	195 (3.0) 27 (1.3) 193 (4.5)	197 (3.4) 30 (1.5) 183 (3.7)
American Indian State	34 (4.7)	28 (5.9)	38 (5.8)
Nation	41 (5.7) 	24 (3.9)	34 (52)
TYPE OF LOCATION	The second second second	The state of the s	The second secon
Central City State	35 (.2.0)	30 (1.7)	35 (.2.1)
Nation	206 (3.2) 47 (1.9)	211 (3.2) 29 (1.6)	216 (3.2) 24 (1.5)
Urb Frng/Lrg Town State	208 (2.8) 29 (2.4)	212 (2.4) 32 (1.9)	196 (3.7) 39 (2.2)
Nation	214 (2.8) 44 (1.5)	217 (2.9) 31 (1.2)	220 (3.3) 25 (1.3)
Rural/Small Town State	221 (·2.2) 40 (·3.3)	223 (2.4)	216 (-3.4)
Nation	40 (3.3) 215 (3.7) 45 (3.0)	30 (2.2) 216 (3.8) 28 (1.6)	29 (3.5) 223 (3.4) 27 (2.7)
	215 (2.8)	216 (32)	213 (2.6)





TABLE D6.5B (continued)

Public School Students' Reports on Reading Aloud

Almost Every Day	At Least Once a Week	Less than Weekly
1994	1994	1994

		Percentage and Proficiency	
PARENTS' EDUCATION			
College graduate State	31 (1.9)	30 (1.5)	39 (2.1)
Nation	219 (2.5)	223 (2-2)	.226 (2.3)
	46 (1.5)	30 (1.0)	24 (1.3)
	224 (2.1)	226 (1.7)	219 (2.6)
Some ed after HS State	37 (3.7)	34 (3.1)	30 (3.3)
Nation	219 (3.6)	219 (4.8)	228 (4.9)
	-45 (2.7)	30 (2.2)	26 (2.3)
	223 (2.7)	229 (2.9)	217 (4.3)
HS graduate	35 (3.4)	34 (3.5)	31 (3.2)
State	208 (3.7)	220 (4.1)	218 (4.9)
Nation	48 (1.9)	28 (1.7)	23 (1.8)
	211 (2.6)	210 (2.9)	203 (4.4)
HS non-graduate State	33 (4.3)	34 (4.3)	33 (5.1)
Nation	42 (3.8)	29 (3.8)	28 (4.0)
	193 (4.4)	195 (6.3)	183 (5.8)
I don't know	35 (2.2)	31 (1.7)	34 (:1.9)
State	204 (2.5)	205 (3.3)	210 (:2.7)
Nation	43 (1.4)	30 (1.1)	27 (12)
	207 (1.4)	209 (2.6)	202 (23)
<u>GENDER</u> Male			
State	31 (1.7)	30 (1.5)	39 (1.8)
	207 (2.6)	209 (2.2)	215 (2.4)
Nation	42 (1.3)	29 (0.9)	29 (1.3)
	211 (1.7)	212 (1.9)	205 (2.1)
Female	36 (1.7)	32 (1.5)	32 (1:8)
State	216 (1.7)	221 (2.3)	225 (2:4)
Nation	48 (1.5)	30 (1.1)	21 (1.1)
	219 (1.4)	224 (1.8)	215 (2.6)

SCHOOL TYPE			
Public			
State	33 (1.5)	31 (1.1)	36 (1.5)
	212 (1.6)	215 (1.8)	219 (2.0)
Nation	45 (1.2)	30 (0.8)	25 (1.0)
	215 (1.3)	218 (1.4)	209 (1.9)
Non-Public			
State	61 (7.8)	22 (8.3)	17 (6.4)
	(**.*)	()	
Nation	52 (2.3)	28 (1.5)	20 (1.6)
	232 (3.0)	235 (3.4)	228 (2.7)
Combined			
State	35 (1.6)	31 (1.2)	35 (1.5)
	*** (**.*)	(***)	(** *)
Nation	46 (1.1)	29 (0.7)	25 (0.9)
	217 (12)	219 (1.3)	211 (1.8)

The 1992 data are not reported for this variable due to a rewording of the question for the 1994 assessment.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



6 h 3



TABLE D6.5C

Public School Teachers' Reports on Asking Students to Read Silently

 Almost Every Day
 At Least Once a Week
 Less than Weekly

 1992
 1994
 1992
 1994
 1992
 1994

			Percentage a	nd Proficiency		
TOTAL						
State	82 (2.6)	88 (1.7)	16 (2.4)	11 (1.6)	2 (0.8)	0 (-0.3)
	218 (1.3)	215 (1.4)	213 (3.5)	210 (2.7)	- (- 7	- (- 1)
Nation	75 (2.3)	74 (2.3)	23 (2.1)	23 (2.3)	2 (0.5)	3 (0.7)
BACE/ ETHNOTTY	218 (1.8)	214 (1.3)	212 (2.2)	210 (2.5)	.207 (5.5)!	209 (7.9)
RACE/ ETHNICITY						
White State	94495					
State	84 (2.5) 222 (1:2)	90 (1.6) 223 (1.4)	14 (2.3) 218 (2.8)	10 (1.6)	2 (0.8)	0 (0.3)
Nation	76 (2.6)	75 (3.0)	23 (2.5)	220 (3.3) 23 (3.0)	1 (0.5)	2 (0.9)
	224 (1.9)	223 (1.4)	219 (2.3)			225 (6.4)
Black				,		()
State	78 (5.3)	86 (4.9)	21 (5.1)	13 (3.9)"	1 (1.2)	2 (1.8)
Nation	=(:2	191 (5.3)	(**.*)	(***)	··· (**.*)	*** (**.*)
Nation	72 (4.7) 194 (2.0)	71 (3.3)	27 (4.7)	25 (3.8)	2 (0.9)	4 (1.5)
Hispanic	154 (2.0)	187 (2.2)	193 (3.8)!	188 (2.6)	*** (**.*)	(*.*)
State	77 (4.9)	85 (2.2)	21 (4.6)	15 (2.2)	3 (1.1)	0 (0.0)
	203 (2.0)	193 (2.3)	200 (5.6)	196 (4.3)		(***)
Nation	89 (5.7)	69 (4.0)	24 (5.3)	27 (4.3)	7 (2.4)	3 (2.0)
A	203 (2.5)	191 (2.9)	200 (4.2)!	185 (.4.4)	()	(***)
American Indian State	96 (5 %)	84446	40 (54)			
State	86 (5.3)	84 (4.6) 205 (6.4)	12 (5.1)	16 (4.6)	2 (1.6)	0 (0.0)
Nation	79 (5.3)	70 (5.0)	21 (5.3)	27 (5.4)	0 (0.0)	3 (1.8)
	()	204 (5.1)		()	(***)	(**)
TYPE OF				` '	V . 7	(- / -
<u>LOCATION</u>						
Central City						
State	75 (5.2)	86 (3.1)	22 (4.6)	13 (2.7)	3 (2.0)	1 (0.8)
Nation	212 (2.2) 77 (3.7)	209 (2.7)	214 (5.4)	203 (3.5)!	()	***(***)
Hauon	210 (2.0)	77 (3.3) 205 (2.6)	22 (3.6) 202 (4.4)!	21 (3.3) 203 (4.5)	2 (0.9)	2 (0.9)
Urb Frng/Lrg Town		E00 (E.0)	202 (4.4):	200 (7.3)	(-)	176 (14.6)
State	91 (2.5)	90 (2.5)	8 (2.4)	10 (2.5)	1 (0.6)	0 (0.0)
	221 (.1.9)	218 (2.4)	210 (8.6)	210 (3.9)]	· · · · · · · · · · · · · · · · · · ·	••• (•••)
Nation	77 (4.0)	73 (4.2)	22 (4.0)	23 (4.2)	1 (0.6)	4 (1.6)
Rural/Small Town	222 (2.7)	221 (2:1)	217 (3.4)!	218 (3.4)	(***)	223 (6.6)1
State	73 (6.4)	87 (3.1)	22 (5.3)	12/20	4/05	
410	220 (2.8)	216 (2.9)	211 (4.2)	13 (2.9)	4 (2.5)	1 (0.7)
Nation	70 (5.0)	71 (5.5)	27 (4.4)	28 (5.2)	3 (1.7)	1 (0.8)
	219 (4.3)	215 (2.4)	216 (2.6)	208 (4.1)	(m)	(***)





TABLE D6.5C (continued)

Public School Teachers' Reports on Asking Students to Read Silently

1994 Trial State Assessmen

Almost Every Day		At Least O	nce a Week	Less than Weekly		
1992	1994	1992	1994	1992	1994	

	Percentage and Proficiency					
PARENTS' EDUCATION						
College graduate State	84 (2.5)	90 (17)	14 (2.3)	10 (1.5) 214 (3.4)	2(1.0)	1 (0.5)
Nation	226 (1.4) 78 (2.4) 227 (2.1)	223 (1.6) 76 (2.5) 223 (1.5)	216 (3.2) 20 (2.2) 216 (3.9)	21 (2.4) 221 (2.8)	2(07)	2(0.7)
Some ed after HS State	79 (3.9) 223 (2.2)	85 (2.7) 221 (3.2)	18 (3.5)	15 (2.7)	3 (1.6)	0 (0.0) ()
Nation	78 (3.5) 221 (3.0)	73 (3.6) 222 (2.7)	19 (3.1) 224 (4.4)	24 (3.6) 221 (3.2)	2(13)	3(0.9)
HS graduate State	78 (4.2) 213 (2.5)	86 (3.1) 214 (3.5)	20 (3.9)	14 (2.9) (***)	2 (1.5)	1 (0.5)
Nation	72 (4.3) 212 (2.8)	71 (3.1) 208 (2.1)	26 (4.1) 214 (3.6)	28 (3.1) 205 (4.7)	2(14)	2(0.6)
HS non-graduate State	89 (4.7) 203 (3.5)	84 (4.1) 191 (6.4)	10 (4.6)	15 (4.1) (**.")	1 (1.1)	1 (0.7)
Nation	68 (4.6) 199 (4.1)	65 (4.4) 190 (5.4)	29 (4.7)	30 (4.3) 188 (7.8)	4 (1.5)	5 (1.9) ** (***)
I don't know State	82 (3.0) 210 (1.7)	88 (1.9) 205 (1.8)	16 (2.8) 209 (4.0)	12 (1.9) 204 (4.2)	2 (0.7) - (0.7)	0 (0.1)
Nation	73 (2.6) 211 (1.9)	74 (2.5) 206 (1.6)	26 (2.6) 209 (2.5)	23 (2.5) 203 (3.1)	1 (0.3)	3 (1.0) 201 (10.5)!
<u>GENDER</u> Male						
State	82 (2.7) 216 (1.6)	88 (1.7) 210 (1.6)	15 (2.4) 209 (4.3)	11 (1.7) 205 (3.9)	2 (0.9)	0 (0.2)
Nation	76 (2.4) 214 (2.0)	74 (2.5) 209 (1.3)	22 (2.2) 209 (2.8)	23 (2.4) 204 (3.0)	2 (0.5)	3 (0.7) 206 (10.0)!
Female State	82 (2.9) 221 (1.7)	86 (1.9) 219 (1.7)	16 (2.7) 216 (3.8)	12 (1.7) 215 (3.0)	2 (0.9)	1 (0.5)
Nation	73 (2.4) 222 (1.9)	74 (2.3) 220 (1.5)	25 (2.3) 215 (2.4)	24 (2.4) 217 (2.4)	2 (0.6) 2 (-)	2 (0.7) 213 (6.4)

SCHOOL TYPE						
Public						
State	(=)	88 (1.7)	()	11 (1.5)	(=)	0 (0.3)
	 (=,=)	215 (1.4)	()	210 (2.7)	()	*** (***)
Nation	:=== (=:=)	74 (2.3)	 (==)	23 (2.3)	(==a)	3 (0.7)
	(=)	214 (1.3)	==== (===,=)	210 (2.5)	==(===)	209 (7.9)
Non-Public						
State	==(=,=)	81 (13.2)	()	9 (6.0)	(=)	10 (7.1)
	=== {==,=}	237 (4.7)	=== (==.=)	*** (**.*)	(==,=)	*** (**.*)
Nation	==(=:=)	68 (5.0)		28 (5.2)	==(===)	3 (2.1)
	(<u>-</u> -)	232 (3.0)	()	227 (4.0)!	(===)	··· (**.*)
Combined		` '				
State	(<u></u>)	88 (1.8)	=== (==,=)	11 (1.5)	=== (====) .	1 (0.5)
	·— (—,=)	216 (1.5)	==(= .=)	*** (** *)	l ==(=,=)	*** (**.*)
Nation	(i	73 (2.1)	(i)	24 (2.2)	(-=)	3 (0.7)
	(,=)	216 (1.1)	(=)	213 (2.3)	(==)	()

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



THE NATION'S REPORT CARD 1994 Trial State Assessment

TABLE D6.5D

Public School Students' Reports on Reading Silently

Almost E	every Day	At Least Once a Week Less to		Once a Week Less than Weekly	
1992	1994	1992	1994	1992	1994

		<u> </u>				
			Percentage a	nd Proficiency		
TOTAL						
State	73 (1.2)	76 (1.0)	18 (1.1)	15 (Q.7)	10 (0.5)	9 (0,7)
	221 (1.1)	221 (1.2)	214 (2.0)	206 (2.7)	193 (2.8)	185 (4.4)
Nation	67 (1.1)	64 (1.1)	22 (0.9)	23 (0.9)	11 (0.6)	13 (0.5) >
RACE/ ETHNICITY	221 (1.3)	220 (1.3)	213 (1.5)	213 (1.6)	193 (2.1)	188 (1.9)
White						
State	75 (1.3)	79 (1.2)	16 (1,2)	14 (0.9)	8 (0.5)	7 (0.7)
	225 (1.1)	227 (1.3)	220 (2.3)	216 (2.6)	202 (3.4)	199 (6.2)
Nation	69 (1.4)	66 (1.2)	22 (1.1)	22 (1.1)	10 (0.7)	12 (0.6)
Black	227 (1.5)	228 (1.3)	221 (2.0)	222 (1.8)	203 (2.4)	199 (2.5)
Black State	74 (3.1)	66 (3.8)	15 (3.0)	19 (4.8)	11/21	45(40)
-3410	209 (3.4)1	201 (5.5)	13 (3.0)	15 (4.6)	11 (3.1)	15 (4.0)
Nation	60 (2.2)	59 (2.1)	24 (1.9)	24 (1.5)	16 (1.5)	17 (1.3)
	199 (1.9)	195 (1.9)	191 (3.4)	188 (3.5)	176 (3.6)	169 (3.5)
Hispanic						
State	64 (2.5) 209 (1.8)	69 (1.8) 202 (1.4)	22 (2.2) 201 (3.7)	17 (1.5)	13 (1.3)	14 (1.3)
Nation	60 (2.0)	58 (2.4)	24 (1.6)	187 (5.2) 24 (2.2)	180 (4.1) 16 (1.3)	168 (5.5) 18 (1.4)
	208 (2.0)	198 (3.8)	201 (3.3)	193 (4.3)	179 (4.9)	163 (4.4)
American Indian						
State	68 (5.7)	73 (5.2)	18 (5.2)	16 (3.6)	15 (4.8)	11 (3.4)
Nation	66 (4.9)	211 (6.2) 64 (4.5)	25 (4.4)	7(7)	-(-)	(7.7)
Nauon	214 (5.3)	207 (5.2)		19 (3.3)	9 (2.6)	18 (3.8)
TYPE OF	,,	()	1.7	1	1 - 1	(-)
LOCATION						
Central City						
State	64 (2.2)	73 (1.9) >	24 (2.2)	16 (1.2) <	12 (1.1)	11 (1.5)
Nation	216 (2.0) 65 (1.7)	218 (2.3) 63 (1.7)	212 (3.4)	200 (3.7)	185 (3.6)	184 (6.2)
Mauon	214 (1.8)	213 (2.6)	22 (1.5) 205 (2.8)	23 (1.4) 204 (3.3)	12 (0.9) 184 (3.5)	15 (0.8) 180 (3.1)
Urb Frng/Lrg Town			,,			.00 (0,1)
State	80 (1.7)	78 (1.4)	13 (1.5)	14 (1.2)	8 (0.9)	8 (0.8)
Netice	223 (1.7)	222 (2.1)	214 (2.9)	207 (4.2)	199 (5.1)	183 (5.7)
Nation	69 (2.0) 225 (2.2)	66 (1.9) 225 (2.0)	21 (1.7) 219 (2.7)	22 (1.5) 220 (2.5)	10 (1.0)	12 (0.9)
Rural/Small Town	eer (e.e.)	دها (د. ۱۷	213(21)	2EU (22)	193 (4.9)	195 (4.1)
State	71 (2.3)	76 (2:4)	19 (2.1)	15 (1.6)	10 (1.0)	9 (1.7)
	223 (2.4)	222 (2.2)	215 (3.9)	214 (6.1)	(**.*)	***(***)
Nation	64 (2.3)	63 (1.9)	23 (14)	23 (2.0)	13 (1.2)	14 (1.3)
	223 (3.1)	221 (1.9)	213 (2.2)	214 (3.2)	202 (3.7)	188 (3.7)

(continued on next page)



THE NATION'S REPORT CARD

TABLE D6.5D (continued)

Public School Students' Reports on Reading Silently

1994 Trial State Assessmen

Aimost E	very Day	At Least Once a Week		Less than Weekly	
1992	1994	1992	1994	1992	1994

	Aug San Charles and Art Charles Market (1985)	no contra e occessore, fortunación		50 17 CD 115 JACK STORES SERVICE SERVI	and places of the commence of	v. o militalnus o numeros se mose car
			Percentage a	nd Proficiency		
PARENTS' EDUCATION		100				
College graduate						
State	75 (1.3)	78 (1.3)	16 (1,3)	14 (1.1)	8 (0.6)	8 (1.0)
	229 (1.4)	227 (1.5)	218 (3.1)	211 (3.1)	204 (4.6)	197 (5.1)
Nation	68 (1.7)	66 (.1.6)	23 (1.5)	22 (1.3)	9 (0.9)	12 (0.8)
	229 (1.9)	229 (1.6)	219 (2.3)	221 (2.3)	201 (3.3)	196 (.2.7)
Some ed after HS						
State	76 (2:1)	. 77 (3.1)	15 (2.0)	16 (2.9)	9 (1.3)	7 (2.0)
	227 (2.5)	225 (3.3)	*** (**.*)	*** (**.*)	*** (**.7)	••• (••.•)
Nation	72 (2.2)	63 (2.9)	20 (2.0)	27 (2.9)	8 (1.5)	10 (1.7)
	226 (2.2)	227 (2.4)	220 (5.0)	223 (3.9)	(":")	*** (**.*)
HS graduate						
State	69 (2.8)	75 (3.3)	21 (2.4)	16 (2.1)	10 (1.6)	9 (1.7)
	215 (2.6)	220 (3.0)	209 (4.3)	*** (****)	*** (**.*)	(**.*)
Nation	64 (2.4)	60 (2.1)	23 (2.1)	27 (2.1)	12 (1.5)	12 (1.4)
	217 (2.2)	214 (2.1)	206 (3.8)	206 (3.3)	193 (3.6)	190 (4.5)
HS non-graduate						
State	67 (4.4)	73 (4.7)	19 (3.6)	15 (3.9)	15 (3.4)	13 (2.5)
	208 (3.7)	206 (5.5)	(***)	(***)	*** (**.*)	••• (*••)
Nation	54 (4.4)	62 (3.0)	28 (3.0)	16 (2.8)	17 (3.3)	21 (2.8)
	205 (2.6)	198 (4.1)	204 (5.2)	()	*** (**.*)	*** (**.*)
I don't know						
State	71 (1.7)	73 (1.4)	18 (1.6)	16 (1.0)	11 (1.1)	11 (1.1)
	213 (1.6)	212 (1.7)	209 (2.7)	203 (4.1)	186 (3.9)	
Nation	66 (1.6)	63 (1.4)	21 (1.2)	21 (1.2)	13 (1.0)	15 (1.0)
	215 (1.3)	213 (1.7)	208 (2.5)	207 (2.9)	190 (2.8)	179 (3.2)
<u>GENDER</u>						
Male						
State	71 (1.4)	73 (1.4)	18 (1.4)	17 (1.0)		11 (1.0)
	219 (1.2)	217 (1:6)	211 (2.6)	203 (3.2)	191 (2.8)	181 (5.2)
Nation	65 (1.3)	61 (1.3)	22 (1.0)	23 (1.1)	13 (0.8)	16 (0.6) >
	218 (1.6)	217 (1.6)	209 (2.2)	208 (2:1)	189 (2.5)	184 (2.3)
Female						
State	75 (1.5)	79 (1.4)	18 (1.4)	13 (0.9) <	8.(-0.8)	8 (0.9)
	224 (1.4)	224 (1.5)	216 (2.8)	209 (4:1)	197 (4.4)	192 (6:0)
Nation	68 (1.4)	68 (1.2)	22 (1.3)	22 (1.1)	10 (0.7)	10 (0:7)
	224 (1.2)	224 (1.4)	217 (2.1)	219 (2.0)	199 (3.3)	194 (3.3)

SCHOOL TYPE						
Public						
State	===(=:=)	76 (1:0)	 ()	15 (0.7)	===(=:=)	9 (0.7)
	===(===)	221 (1.2)	=== (====)	206 (2.7)	=== (== <i>=</i>)	185 (4.4)
Nation	 (:-)	64 (1.1)	· (=)	23 (0.9)	=== (==;=)	13 (0.5)
	(;	220 (1.3)	==== (====)	213 (1.6)	(=)	188 (1.9)
Non-Public						
State	==(=.=)	63 (4:8)	=== (====)	20 (5.7)	== (=;=)	17 (6.4)
	(=_=)	241 (4.5)!	==(==)	(r)	()	*** (****)
Nation	(-:=)	62 (2.0)	i	28 (1.5)	()	11 (1.0)
	()	232 (2.8)	(i	234 (2.9)	·== (===)	222 (4.9)
Combined						
State	—(=,=)	75 (1.0)	()	15 (0.8)	=== (===)	10 (0.8)
	==(==)	222 (1.2)	(i)		· ()	(1)
Nation	(=_ <u>-</u>)	64 (1.0)			· ()	13 (0.4)
	— (—)	222 (1.2)	(i		()	191 (1.8)

⁼⁼⁼ School type results are not presented for 1992 since state-level non-public school data were not collected.



The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



TABLE D6.5E

Public School Teachers' Reports on Giving Students Time to Read Books They Have Chosen Themselves

Almost Every Day	At Least Once a Week	Less than Weekly
1994	1994	1994

: I			
		Percentage and Proficiency	
TOTAL			
State	84 (2.2)	15 (2.0)	1 (0.6)
Nega	214 (1.4)	218 (2.8)	*** (** *)
Nation	69 (2.5) 215 (1.4)	25 (2.4) 210 (2.5)	6 (12)
RACE/ ETHNICITY	210 (114)	210 (23)	207 (4.9)
White			
State	85 (2.1)	14 (1.9)	1 (0.6)
Nation	222 (1.4)	226 (3.4)	(***)
1444011	71 (3.2) 223 (1.5)	24 (3.0) 222 (2.8)	5 (1.4) 221 (3.9)!
Black	(:=)	()	221 (3.9)
State	83 (5.6)	15 (4.9)	2 (1.1)
Nation	188 (4:4) 59 (4:2)	77 (20)	
Nauon	189 (2.6)	31 (3.0) 181 (2.7)	10 (2.4) 190 (5.4)
Hispanic		, , , , ,	100 (0.4)
State	83 (3.2)	15 (3.1)	1 (0.7)
Nation	192 (2.4) 68 (3.5)	199 (5.2)} 25 (3.4)	··· (***)
	192 (2.8)	189 (3.4)	7 (1.6) 176 (7.8)!
American Indian			= (1.2).
State	75 (6.1)	23 (5.9)	3 (2.7)
Nation	75 (4.3)	22 (4.1)	4 (1.6)
	203 (4.9)	=(-3)	4 (1.5)
TYPE OF			1
LOCATION			
Central City State	79 (4:3)	20 (3.9)	
0.0.0	207 (2.7)	216 (4.2)	1 (0.8)
Nation	70 (4.4)	23 (3.1)	7 (2.4)
Urb Frng/Lrg Town	208 (3.0)	195 (4.8)	201 (9.9)!
State	90 (2.5)	8 (2.1)	2 (1.0)
	218 (2.3)	218 (6.1)!	2(10)
Nation	72 (3.5)	24 (3.3)	4 (1.2)
Rural/Small Town	221 (2.2)	221 (3.2)	212 (6.5)/
State	78 (5.4)	20 (5.8)	2 (1:4)
	216 (2.5)	221 (5.8)	*** (****)
Nation	64 (5.9)	29 (6.3)	7 (3.2)
	216 (2.7)	210 (4.9)	209 (6.6))

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TABLE D6.5E (continued)

Public School Teachers' Reports on Giving Students Time to Read Books They Have Chosen Themselves

1994 Trial State Assessment

Almost Every Day	At Least Once a Week	Less than Weekly
1994	1994	1994

		·	
		Percentage and Proficiency	
<u>PARENTS'</u> EOUCATION	A Company of the Comp		
College graduate State	83 (2.5)	15 (2.4)	1 (0.5)
Nation	222 (1.5) 70 (2.8)	225 (3.7) 23 (2.3)	*** (**.*) 7 (1.3)
Some ed after HS State	225 (1.5) 79 (3.7)	219 (3.0) 19 (3.7)	215 (7.1)!
Nation	218 (3.3) 68 (3.9)	26 (3.4)	6 (1.7)
HS graduate	222 (2.8)	223 (3.8)	···· (·····)
State	87 (2.8) 214 (3.5)	11 (25)	2 (1:3) (*)
Nation HS non-graduate	64 (2.9) 209 (2.4)	30 (3.2) 204 (4.0)	7 (2.0)
State	84 (.4.3) .194 (.6.8)	14 (4.6) (7)	2 (*1.0) *** (*.**)
Nation	65 (4.6) 192 (4.0)	28 (4.2) 179 (8.1)	7 (26)
I don't know State	84 (2.5) 205 (1.8)	14 (2.4) 208 (4.0)	1 (0.7)
Nation	71 (2.5) 207 (1.8)	24 (2.5) 203 (3.2)	5 (1.1) 197 (5.6)!
GENDER Male	British (September 1997)		Company Company (Company)
State	83 (2:2) 209 (1:9)	15 (2.0) 214 (3.4)	2 (0.6)
Nation Female	70 (2.4) 210 (1.4)	24 (2.3) 203 (3.1)	6 (1.1) 198 (5.4)
State	84 (·2.4) 218 (·1.6)	14 (2.2) 222 (3.3)	1 (*0.6) ****(*****)
Nation	68 (2.7) 221 (1.7)	26 (2.6) 216 (2.1)	6 (1.3) 216 (5:3)l
SCHOOL TYPE			
Public State	84 (2.2)	15 (2.0)	1 (0.6)
Nation	214 (1.4) 69 (2.5)	218 (2.8) 25 (2.4)	6 (12)
Non-Public State	215 (1.4) 69 (23.2)	210 (2.5) 31 (23.2)	207 (4.9) 0 (0.0)
Nation	240 (4.5)l 64 (4.9)	27 (4.5)	9 (3.6)
Combined	233 (3.2)	230 (3.6)	213 (5.6)!
State	83 (2.5)	16 (2.4)	1 (0.6)

The 1992 data are not reported for this variable due to a rewording of the question for the 1994 assessment.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.

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69 (2.2)



185

25 (2.1) 212 (2.1) 6 (1.0)

Nation



TABLE D6.5F

Public School Students' Reports on Reading Books They Have Chosen Themselves

1994 Trial State Assessme

Almost E	very Day	At Least Once a Week		Less than Weekly	
1992	1994	1992	1994	1992	1994

		<u> </u>				
			Percentage a	nd Proficiency		
TOTAL						
State	57 (1.5)	61 (.1.3)	27 (12)	25 (1:0)	16 (1.0)	14 (0.8)
Netien	222 (1.1)	221 (1.5)	215 (1.6)	210 (1.7)	204 (2.2)	203 (3.0)
Nation	55 (1.5) 222 (1.3)	53 (1.1) 220 (1.1)	27 (1.1) 214 (1.7)	29 (0.9) 212 (1.6)	18 (0.8) 202 (1.4)	18 (0.7) 204 (2.3)
RACE/ ETHNICITY	- ()		2.7(1.1)	212 (1.0)	EUZ (1.4)	204 (2.3)
White						
State	59 (1.6)	63 (1.4)	27 (1.4)	24 (1.1)	14 (1.0)	13 (0.9)
Nation	227 (1.2) 57 (1.9)	228 (1.4) 54 (1.4)	220 (1.6) 26 (1.4)	219 (2.0) 29 (1.1)	209 (2.6) 17 (1.1)	214 (2.9)
Madon	229 (1.5)	229 (13)	221 (2.3)	220 (1.8)	211 (1.8)	17 (0.9) 215 (2.6)
Black				,		
State	57 (4.2) 209 (4.0)	54 (4.6)	22 (3.3) (1)	26 (3.0)	21 (3.6)	19 (3.3)
Nation	49 (2.1)	197 (5:0) .50 (1:8)	30 (1.9)	30 (1.5)	21(1.6)	20 (1.6)
	198 (2.3)	191 (2.5)	195 (3.2)	190 (3.2)	181 (3.3)	179 (3.6)
Hispanic	50/00					
State	53 (2.6) 208 (1.9)	56 (2.3) 201 (2.7)	26 (2.1) 201 (2.7)	27 (2.0) 189 (3.1) <	.21 (.2.9) 194 (.4.0)	17 (1.7)
Nation	49 (2.2)	50 (2.1)	31 (1.7)	30 (1.9)	21 (1.5)	185 (6.0) 20 (1.6)
	208 (2.3)	196 (3:2) <	199 (3.0)	192 (4:5)	189 (4.0)	177 (3.8)
American Indian State	54 (6.2)	EOLEE	70 (54)			
State	34 (02)	59 (5.5) *** (**.*)	28 (5.1)	26 (4.9)	16 (3.9)	15 (4:2)
Nation	63 (4.1)	50 (5.0)	19 (4.0)	27 (4.6)	17 (3.4)	23 (4.0)
T/DE 05	. *** (****)	210 (5.2)	(***)	(***)	-()	···(···n)
TYPE OF LOCATION						
Central City						
State	51 (2.1)	57 (2.2)	27 (1.9)	27 (1.7)	21 (2.4)	16 (1.7)
	216 (2.1)	218 (3.1)	212 (2.5)	206 (2.5)	199 (3.1)	197 (5.3)
Nation	54 (1.9) 215 (1.9)	52 (2.5) 211 (3.1)	27 (1.4)	30 (1.8)	19 (1.1)	16 (1.2)
Urb Frng/Lrg Town	213 (1.3)	£11(3.1)	206 (2.4)	206 (2.8)	194 (2:7)	195 (3.7)
State	62 (1.9)	64 (.2.1)	25 (1.6)	23 (1.4)	12 (0.9)	13 (1:3)
Nation	225 (1.8)	222 (2.2)	216 (2.6)	211 (2.6)	208 (3.1)	208 (4.8)
Nation	57 (2.5) 226 (2.1)	53 (1.6) 225 (1.5)	27 (1.8) 219 (2.9)	30 (1.2) 218 (2.5)	16 (1.5)	17 (1.2)
Rural/Small Town		,,	-13 (2.3)	-10 (2.3)	205 (3.1)	212 (4.3)
State	56 (4.1)	61 (2.4)	27 (2.8)	26 (2.1)	17 (1.9)	131(0.8)
Nation	225 (2.6)	222 (3.0)	217 (2.4)	215 (3.8)	205 (5.8)	203 (5.6)
Nauon	53 (3.6) 224 (3.3)	53 (2.4) 222 (2.3)	28 (2.7) 215 (2.1)	27 (1.6) 208 (2.8)	19 (1.9) 207 (2.5)	20 (1.6) 205 (3.7)
		,	```	,		230 (10.17)

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TABLE D6.5F (continued)

Public School Students' Reports on Reading Books They Have Chosen Themselves

1994 Trial State Assessmen

Almost E	very Day	At Least Once a Week		Less than Weekly	
1992	1994	1992	1994	1992	1994

	Percentage and Proficiency						
PARENTS' EDUCATION							
College graduate	61 (2.0)	63 (1.7)	25 (1.5)	24 (1.4)	15 (1.2)	13 (1:1)	
State	230 (1.5)	228 (1.5)	221 (2.0)	214 (2.1)	212 (3.1)	214 (3:5)	
Nation	58 (1.6)	54 (1.7)	27 (1.3)	30 (1.4)	15 (1.0)	16 (1.0)	
	230 (1.8)	228 (1.4)	221 (2.5)	220 (2.0)	209 (3.2)	217 (3.7)	
Some ed after HS State	61 (3.2) 228 (2.7)	61 (3.9) 225 (3.6)	25 (3,0) 223 (2,9)	24 (3.4)	14 (2.0)	15 (2.2)	
Nation	55 (3.8) 228 (2.3)	59 (3.3) 227 (2.5)	27 (3.0) 220 (4.8)	29 (2.7)	19 (2.3) 208 (6.0)	12 (1.8)	
HS graduate	58 (2.5)	56 (3.1)	24 (2.3)	32 (2.9)	19 (2.2)	13 (2.1)	
State	215 (3.2)	220 (4.0)	211 (3.8)	211 (4.2)	198 (4.8)		
Nation	55 (3.7) 216 (2.5)	51 (1.9) 214 (2.6)	25 (3.0) 211 (3.5)	28 (1.7) 206 (3.4)	20 (2.4)	21 (1.3) 198 (4.6)	
HS non-graduate State	50 (5.5)	54 (5.0)	31 (4.9)	27 (4.0)	18 (3.8)	20 (4.1)	
Nation	49 (3.3) 205 (3.2)	45 (4.4) 196 (6.0)	27 (3.0) 198 (5.6)	33 (3.9) 183 (5.9)	24 (2.7)	22 (2.4)	
i don't know	53 (2.0)	60 (1.8)	30 (1.6)	25 (1.3)	17 (1:6)	15 (1.4)	
State	214 (1.6)	211 (2.0)	209 (2.6)	203 (2.7)	196 (3.0)	193 (4.9)	
Nation	52 (1.8)	52 (1.3)	28 (1.3)	28 (12)	20 (1.2)	20 (1.1)	
	216 (1.9)	212 (1.5)	208 (1.6)	205 (23)	199 (2.5)	195 (2.6)	
<u>GENDER</u> Maie	, ,						
State	53 (1.8)	57 (1.7)	28 (1.6)	27 (1.5)	19 (1.2)	17 (1.1)	
	220 (1.4)	217 (1.9)	213 (2.1)	206 (2.4)	200 (2.7)	198 (3.4)	
Nation	52 (1.6)	49 (1.4)	29 (1.3)	30 (1.3)	19 (1.1)	21 (1.0)	
	219 (1.6)	216 (1.5)	211 (2.1)	206 (2.0)	197 (2.3)	199 (2.9)	
Female	62 (1.6)	65 (1.5)	25 (1:3)	23 (1.1)	13 (1.2)	11 (0.9)	
State	224 (1.5)	224 (1.8)	217 (2:1)	214 (2.2)	208 (3.3)	210 (3.6)	
Nation	58 (1.8)	57 (12)	26 (1.5)	28 (0.9)	16 (0.9)	15 (0.8)	
	225 (1.4)	223 (15)	217 (1.8)	218 (2.1)	209 (2.3)	212 (2.7)	

SCHOOL TYPE						
Public						
State	===(===)	61 (1.3)	()	25 (1.0)	==(==)	14 (0.8)
	=== (==,=)	221 (1.5)	· (,=)	210 (1.7)	(203 (3.0)
Nation	=== (==.=)	53 (1.1)	==(=:=)	29 (0.9)	=== (==,=)	18 (0.7)
	(==,=)	220 (1.1)	(j	212 (1.6)	=== (==,=)	204 (2.3)
Non-Public	` '			` ' '		
State	==(=,=)	50 (7.3)	()	25 (4.3)	()	25 (6.1)
	(,=)	243 (3.3)	· === (===)	*** (**.*)	ii	(**.*)
Nation	(-:-)	49 (2.0)	(i	31 (1.5)	<u> — (—,-i) </u>	21 (1.6)
	==(==)	235 (2.9)	(==j	230 (3.1)	()	226 (3.0)
Combined	``	` '				
State	()	60 (1.2)		25 (0.9)	()	15 (0.9)
	=== (==,=)	222 (1.4)	(=,=)	(**.*)	(_)	*** (** *)
Nation	== (==i	52 (1.1)	ii	29 (0.8)	ii	18 (0.7)
	·(=)	221 (1.0)	() *	214 (1.5)	()	207 (2.0)

=== School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.







TABLE D6.6

Public School Teachers' Reports on Sending Students to the Library

At Least Once a Week Once or Twice a Month Never or Hardly Ever

			Percentage a	nd Proficiency		
TOTAL						
State	92 (2.1)	92 (1.8)	7 (1.8)	7 (1.8)	2 (0.7)	1 (0.4)
	218 (1.3)	214 (1.4)	214 (5:1)	226 (4.3)!	()	()
Nation	85 (2.7)	86 (1.8)	9 (1.9)	9 (1.8)	5 (1.6)	3 (0.8)
0405/57/2007/	218 (1.5)	214 (1.1)	208 (4.1)	209 (4.7)!	208 (4.3)!	202 (7.3)
RACE/ ETHNICITY						
White	00 / 0 01					
State	93 (2.0)	92 (2.2)	5 (1.8)	8 (2.2)	2 (0.7)	1 (0.3)
Nation	222 (1.2) 88 (3.0)	222 (1.4) 88 (2.0)	225 (3.7) 7 (1.9)	232 (3.4)	7 (7.7)	(***)
1100011	224 (1.7)	223 (1.3)	217 (4.6)	8 (2.1) 225 (4.1)	5 (1.9) 212 (4.1)	2 (0.8) 217 (7.4)!
Black			-11 (1.0)	223 (4.1)	212 (4.1)	211 (1.4)
State	89 (3.6)	95 (2.4)	8 (3.3)	4 (2.2)	1 (1.5)	1 (0.7)
	209 (4.5)1	192 (5.2)	***(**:5)	*** (***)	*** (**.*)	*** (****)
Nation	79 (4.2)	79 (3.8)	16 (3.8)	14 (3.5)	5 (2.1)	5 (1.5)
	193 (2.1)	188 (2.1)	195 (4.7)	180 (6.7)	(".")	186 (8.1)!
Hispanic State	00/44	0444.00				
State	88 (4.4) 204 (2.3)	94 (1.9) 193 (2.3)	10 (4.1)	4(1.7)	2 (12)	2 (0.8)
Nation	77 (3.1)	87 (2.0)	15 (2.6)	7 (13)	8 (22)	(T.1)
	203 (2.8)	191 (2.2)	196 (6.9)(185 (4.5)		6 (16)
American Indian		` '			1.7	1.7
State	93 (3.6)	96 (2.0)	7 (3.6)	4 (2.0)	0 (0.0)	0 (0.0)
	()	205 (5.5)	*** (***)	*** (**.*)	*** (**.*)	··· (**.*)
Nation	91 (4.0)	87 (2.9)	7 (3.8)	8 (2.5)	2 (1.1)	4 (1.1)
TYPE OF	211 (6.4)	206 (4.4)	m (n.s)	(-:-)	*** (**.*)	(".")
LOCATION						
Central City						
State	91 (3,6)	93 (2.6)	8 (3.5)	6 (2.6)	1/00	0400
O LOLO	213 (2.4)	208 (2.7)	- (-)	***(***)	1 (0.9)	0 (0.2)
Nation	83 (5.0)	84 (3.4)	10 (.3.6)	9 (25)	6 (2.8)	6 (1.5)
	209 (2.1)	207 (2.5)	199 (6.3)	192 (12.3)[210 (6.8)!	190 (7.9)!
Urb Frng/Lrg Town						
State	93 (2.8)	91 (3.4)	6 (2.6)	9 (3.4)	1 (0.7)	1 (0.4)
Nation	219 (2.0)	217 (2.3)	77(77)	230 (5.3)1	()	(":")
INAUON	85 (3.3) 222 (2.6)	89 (2.7) 220 (1.6)	10 (2.4) 215 (4.7)	7 (2.8)	5 (2.1)	3 (12)
Rural/Small Town	(2.0)	-EU (1,0)	E13 (4.1)	225 (5.7)!	205 (6.6)1	226 (10.3)
State	89 (5.1)	95 (3.0)	7 (4.4)	2 (1.9)	4 (2.4)	3 (1.7)
	219 (2.7)	217 (2.9)	*** (**.*)	***(***)	*** (***)	
Nation	88 (5.1)	84 (4.5)	8 (3.9)	12 (4.4)	4 (2.0)	1 (0.6)
	220 (3.1)	214 (1.9)	*** (**.*)	211 (9.4)	(*.*)	*** (**.*)

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TABLE D6.6 (continued)

Public School Teachers' Reports on Sending Students to the Library

1994 Trial State Assessmen

At Least Once a Week		Once or Tw	ice a Month	Never or Hardly Ever		
1992	1994	1992	1994	1992	1994	

						-
			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate						
State	93 (2.2)	90 (.2.5)	6 (1.9)	9 (2.5)	1 (0.6)	1 (0.4)
Otato	225 (1.4)	222 (1.5)	()	232 (5.0)	*** (**:*)	(**.*)
Nation	87 (2.6)	85 (2.2)	8 (1.8)	10 (2.3)	5 (1.5)	4 (0.9)
,	225 (1.9)	224 (1.4)	214 (3.8)1	219 (5.6)1	(7)	213 (9.3)!
Some ed after HS			=,,,,,,,,,	2.0 (0.0)		2.0 (0.0)
State	88 (3.8)	92 (2.5)	10 (3.6)	7 (2.5)	3 (1.4)	1 (0.4)
	223 (2.6)	220 (3.0)	(:-)	··· (**:7)	***(**:*)	*** (**.*)
Nation	90 (2.5)	86 (2.8)	5 (1.9)	9 (2.5)	5 (1.6)	3 (0.8)
	224 (2.7)	221 (2.5)	*** (**.*)	*** (**.*)	*** (**:*)	*** (**.*)
HS graduate						
State	90 (3.7)	95 (1.9)	8 (3.6)	5 (1.8)	2 (1.2)	1 (0.5)
	211 (2.4)	214 (3.2)	(:)	(:-)	()	*** (**.*)
Nation	83 (3.6)	85 (2.7)	10 (2.5)	9 (2.4)	8 (2.5)	4 (1.0)
110	213 (2.6)	209 (2.3)	(":.")	191 (.8.6)	(**:*)	(":")
HS non-graduate State	07/40	00/450				
State	87 (4.9) 205 (3.5)	96 (1.8) 193 (5.8)	9 (4.4)	2 (1.3)	3 (2.0)	2 (13)
Nation	81 (4.5)	88 (2.6)	13 (3.9)	- (***)		(7.7)
Nauon	200 (3.6)	189 (3.5)	13 (3.9)	9 (2.1)	5 (2.1)	3(1.0)
l don't know	200 (0.0)	169 (3.3)	(- / - /	1.0	1	(-)
State	93 (1.8)	94 (1.8)	5 (1.7)	5 (1.7)	1 (0.7)	1 (0.5)
	210 (1.7)	205 (1.9)	·}n'	*** (**.*)	(***(***)
Nation	83 (3.3)	88 (1.5)	11 (2.6)	8 (1.4)	5 (1.7)	3 (0.8)
	212 (1.7)	207 (1.4)	205 (5.1)!	202 (4.1)	201 (.5.8)!	187 (7.8)
GENDER			· · ·		` '	
Male						
State	92 (2.1)	92 (2.1)	6 (1.9)	7 (2.0)	1 (10.7)	1 (0.4)
**	215 (1.5)	209 (1.9)	212 (4.8)1	221 (6.4)!	*** (**.*)	···· (·····)
Nation	86 (2.8)	87 (1.6)	9 (1.8)	9 (1.6)	-5 (-1.7)	3 (0.7)
	214 (1.8)	209 (1.4)	201 (5.3)	203 (5.2)	208 (4.0)!	191 (7.0)
Female						
State	92 (2.2)	93 (1.7)	7 (2.0)	6 (1.7)	2 (0.8)	1.(/0.4)
	221 (1.6)	218 (1.6)	216 (6.1)!	232 (4.8)!	*** (**.*)	*** (**.*)
Nation	85 (2.8)	85 (2.1)	10 (2.2)	10 (2.1)	5 (1.5)	4 (0.9)
	221 (1.6)	220 (1.2)	214 (3.5)!	216 (4.7)!	209 (6.6)1	212 (18.4)

SCHOOL TYPE						
Public						
State	()	92 (1.8)	()	7 (1.8)	()	1 (0.4)
Nation		214 (1.4) 86 (1.8) 214 (1.1)		226 (4.3)! 9 (1.8) 209 (4.7)!	== (===)	3 (0.8) 202 (7.3)
Non-Public	\		()	200 (4.1)		EXE (1.0)
State	()	71 (24.7)	()	25 (23.9)	()	4 (5.0)
Nation		76 (6.0) 231 (3.0)	= (==) = (==) = (==)	13 (4.2) 234 (4.2)		8 (3.2) 217 (6.8)
Combined		231 (3.0)	==(==)	234 (4.2)	==(===)	217 (0.6)
State	=== (==,=)	91 (2.2)	()	8 (2.2)	(==,=)	1 (0.4)
Nation		85 (1.6)	= (=3)	10 (1.6)	= (= :) = (= :)	4 (0.8)
	===(===)	216 (1.0)	==(==)	213 (3.8)	()	205 (5.9)!

. The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted.



⁼⁼⁼ School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). Percentages may not add to 100 because a very small percentage of teachers reported that there was no library at their school. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



TABLE D6.7

Public School Teachers' Reports on Assigning Books from the Library

At Least Once a Week Once or Twice a Month Never or Hardly Ever
1992 1994 1992 1994 1992 1994

			Percentage a	nd Proficiency		
TOTAL State	46 (3.1)	50 (0 F)	00.00			
State	216 (1.5)	53 (3.5) 212 (1.5)	32 (3.3) 220 (2.0)	24 (2.8) 217 (3.1)	22 (2.9) 216 (3.0)	23 (2.6) 215 (2.9)
Nation	50 (2.8) 216 (1.6)	47 (3.1) 212 (1.5)	31 (2.7)	37 (2.8)	19 (2.3)	17 (1.5)
RACE/ ETHNICITY	210 (1.0)	212 (13)	219 (2.2)	215 (2.0)	213 (2:6)	213 (3.2)
White	45 (9.5)	54450				
State	46 (3.3) 220 (1.3)	51 (3.8) 221 (1.5)	31 (3.5) 225 (1.7)	25 (3.0) 224 (3.1)	23 (3.2) 219 (3.1)	24 (2.8) 224 (2.7)
Nation	49 (3.1)	44 (3.3)	30 (3.0)	38 (3.1)	20 (2.5)	17 (1.8)
Black	223 (1.9)	223 (1.5)	225 (2.4)	223 (2.2)	219 (3.0)	221 (3.1)
State	50 (9:1)	46 (7.5)	26 (6.6)	26 (5.6)	24 (6.6)	27 (6.3)
Nation	50 (3.6)	52 (4.0)	31 (3.0)	34 (2.8)	18 (3.5)	13 (2.4)
Hispanic Hispanic	193 (2.2)	185 (2.6)	196 (3.5)	187 (-3.8)	194 (4.6)]	193 (5.4)
State	44 (4.6)	60 (4.0)	38 (4:1)	19 (2.8)	17 (3.3)	21 (3.1)
Nation	200 (3.0) 56 (5.6)	192 (3.0) 52 (4.7)	207 (3.5) 29 (3.8)	195 (6.4) 29 (4.2)	202 (4.6)	194 (5.0) 19 (3.1)
1	199 (2.6)	192 (3.3)	207 (4.9)	189 (3.4)	196 (4.8)	188 (4.5)
American Indian State	52 (7.7)	57 (6.0)	34 (7.4)	21 (-4.8)	15 (4.8)	21 (4.9)
	*** (**.*)	···· (**.*)	*** (** *)	****(**:*)	(**:*)	(**.*)
Nation	47 (8.3)	45 (6.4)	37 (8.6)	45 (5.6) (**.*)	16 (4.9)	9 (2.3)
TYPE OF	` ' '					1
LOCATION Central City						
State	46 (7.3)	59 (6.4)	33 (6.1)	21 (5.1)	21 (5.1)	19 (4.4)
Nation	211 (2.2) 56 (4.3)	205 (2.4) 48 (3.9)	215 (4.6)1 27 (3.9)	215 (5.2) 33 (3.5)	214 (5.5)I 16 (3.1)	213 (7.2) 18 (2.8)
11.4.5	207 (2.7)	202 (3.3)	209 (3.9)	205 (4.3)	209 (4.7)!	212 (4.4)
Urb Frng/Lrg Town State	47 (5.5)	50 (4.9)	29 (5.0)	26 (3.9)	23 (4.4)	24 (4.0)
Notice	219 (2.5)	219 (2.1)	223 (2.8)	218 (.5.1)	216 (4.5)	214 (3.4)
Nation	49 (4.1) 222 (3.1)	46 (5.3) 219 (2.4)	32 (3.5) 223 (3.3)	36 (5.2) 223 (2.3)	19 (2.7) 215 (3.5)	17 (2.9) 218 (5.0)
Rural/Small Town State	40 (2.8)	47/84				
State	215 (3.5)	47 (8.4) 212 (3.3)!	39 (6.4) 220 (2.6)	24 (6.7) 217 (5.4)	22 (7.1) 219 (6.4)	29 (5.8) 221 (4.2)
Nation	45 (6.6) 218 (3.3)	45 (5.7)	33 (6.2)	41 (5.1)	22 (5.4)	14 (3.8)
	210 (3.3)	216 (3.4)	221 (3.0)	213 (3.1)	215 (5.4)	205 (6.3)!

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TABLE D6.7 (continued)

Public School Teachers' Reports on Assigning Books from the Library

1994 Trial State Assessmen

At Least Or	nce a Week	Once or Twice a Month		Never or Hardly Ever		
1992	1994	1992	1994	1992	1994	

-	The contract of the contract o	accommendation accommended	National constitutions as vivil	actions of tracers, leader to trace the con-	coster and a contract of the c	s acres on the large land laters in contract
			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate						
State	47 (3.4)	50 (3.9)	32 (3.6)	27 (3.4)	20 (3.0)	23 (2.7)
	224 (1.6)	221 (1.7)	225 (2.2)	224 (3.0)	227 (3.4)	224 (3.1)
Nation	51 (3.6)	46 (3.8)	31 (3,3)	38 (3.6)	18 (2,4)	15 (1.6)
	224 (2.7)	221 (2.0)	227 (2.5)	225 (2.0)	221 (3.8)	224 (4.1)
Some ed after HS						
State	42 (4.4)	51 (3.8)	34 (4.7)	26 (4.6)	24 (3.9)	23 (3.9)
N - W	222 (3.3)	220 (4.0)	225 (3.6)	(T.)	7(7)	-(-)
Nation	49 (5.7)	40 (3.4)	29 (5.0)	38 (3.5)	21 (13.3)	21 (3.1)
HS graduate	224 (3.2)	220 (3.7)	221 (4.3)	224 (3.4)	217 (4.3)	224 (4.0)
State	46 (4.4)	80 (4.5)	33 (3.9)	16 (2.5)	21 (4.3)	24 (4.4)
State	207 (3.3)	211 (3.2)	216 (3.4)	10 (2.3)	- (-,1)	= (-5)
Nation	42 (3.6)	48 (3.7)	35 (4.1)	35 (3.4)	23 (4.5)	17 (2.4)
Hauon	210 (3.0)	209 (3.1)	214 (3.3)	207 (3.3)	213 (4.0)	206 (4.9)
HS non-graduate	=(,	(5,	=(-0.0)	,,	(,	
State	42 (5.9)	58 (6.8)	34 (6.8)	16 (4.5)	23 (6.0)	24 (5.5)
	*** (** *)	··· (**.*)	*** (***)	*** (**.*)	(7)	*** (**.*)
Nation	48 (5.1)	48 (4.5)	37 (5.0)	35 (3.7)	15 (3.8)	17 (2.9)
	195 (3.6)	194 (:5.5)	()	184 (7.7)	()	*** (**.*)
I don't know						
State	45 (3.4)	54 (4.0)	31 (3.5)	22 (3.2)	24 (3.4)	24 (3.1)
	210 (1.9)	203 (2.5)	214 (2.6)	207 (4.7)	205 (3.1)	208 (-4.2)
Nation	52 (3.0)	48 (3.4)	29 (2.8)	35 (2.8)	19 (2.2)	17 (1.9)
GENDER	210 (1.9)	205 (1.7)	213 (2.8)	207 (2.6)	207 (2.8)	206 (3.1)
Male		/				
State	47 (3.2)	53 (3.6)	31 (3.4)	23 (2.6)	21 (3.0)	24 (2.7)
Nation	214 (2.1)	207 (1.8) 47 (3.3)	216 (2.3)	213 (3.7) 37 (2.9)	212 (*2.9)	211 (3.8)
Nauon	49 (2.9) 212 (2.0)	207 (1.7)	31 (2.8) 214 (2.4)	209 (2.6)	20 (2.3) 210 (2.7)	16 (1.5) 208 (3.7)
Female	216 (2.0)	20, (1.1)	214 (2.4)	200 (2.0)	210(2.1)	200 (3.3)
State	44 (3.3)	53 (3.7)	33 (3.5)	24 (3.1)	23 (3.2)	22 (2.6)
	218 (1.9)	217 (2.0)	223 (2.3)	220 (3.8)	220 (4.2)	220 (3.1)
Nation	51 (3.0)	46 (3.1)	31 (2.8)	36 (2.7)	18 (2.5)	17 (1.6)
	219 (1.7)	218 (1.9)	223 (2.3)	221 (1.8)	217 (3.6)	219 (3.4)
	219 (7.7)	216 (1.9)	223 (2.3)	ZZ1 (1.5)	217 (3.6)	219 (3.

SCHOOL TYPE						
Public						
State	==(===)	53 (3.5)	()	24 (2.8)		23 (2.6)
	()	212 (1.5)	()	217 (3.1)	(<i>:</i>)	215 (2.9)
Nation	==(=:=)	47 (3.1)	· == (===)	37 (2.8)	:=== (==:=)	17 (1:5)
	()	212 (1.5)	**===(==,=)	215 (2.0)	:===(===)	213 (3.2)
Non-Public						
State	()	37 (20.7)	(==,=)	60 (19.9)	()	3 (3.7)
	 ()	*** (** *)	(==,=)	(**.*)	=== (==.=)	*** (**.*)
Nation	(<i>-</i>)	44 (5.3)	·==(===)	43 (5.0)	()	10 (4.0)
	(===)	228 (4.1)	====(==,=)	234 (2.8)	=== (==,=)	226 (7.9)
Combined						- T
State	()	52 (3.5)	· === (==,=)	26 (2.8)	()	22 (2.5)
	=== (==;=)	*** (**.*)	=== (==.=)	*** (**.*)	(==,=)	*** (**.*)
Nation	()	46 (2.9)	(=)	37 (2.5)	()	16 (1.3)
	(===)	214 (1.3)	(===)	217 (1.7)	=== (==.=)	214 (3.0)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. == School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). Percentages may not add to 100 because a very small percentage of teachers reported that there was no library at their school. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.





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TABLE D6.8A

Public School Teachers' Reports on Assessing Students Via Multiple-Choice Tests

1994 Trial State Assessmen

nt	Once or Twice a Week		_	Once or Twice a Month		Twice a	Never or Hardly Ever	
	1992	1994	1992	1994	1992	1994	1992	1994

TOTAL				
State	7 (2.1) 5 (1.5) 219 (3.5) 209 (4.7)	26 (3.2) 28 (3.0) 215 (2.3) 213 (2.3)	25 (2.6) 22 (2.7) 217 (1.7) 217 (3.0)	42 (3.2) 45 (2.8) 218 (1.9) 214 (2.0)
Nation	14 (2.1) 12 (1.9) 208 (3.1) 211 (3.1)	49 (3.3) 49 (2.1) 217 (1.7) 212 (1.7)	15 (2.2) 17 (1.5) 220 (2.5) 216 (3.2)	21 (3.4) 22 (2.3) 218 (3.5) 215 (2.7)
RACE/ ETHNICITY	200 (0.1) 211 (0.1)	211 (1.1) 212 (1.1)	220 (23) 210 (32)	210 (33) 213 (2.1)
White State	7 (2.2) 3 (0.9)	24 (3.3) 26 (3.2)	25 (2.7) 23 (2.9)	44 (3.4) 47 (3.2)
Nation	221 (3.8)	221 (1.7) 222 (2.9) 50 (3.9) 47 (2.5) 224 (1.7) 223 (2.0)	220 (1.8) 227 (2.9) 16 (2.8) 18 (2.1) 224 (2.5) 222 (2.7)	223 (2.0) 221 (1.7) 22 (3.9) 24 (2.7) 225 (3.6) 224 (2.7)
Black State	6 (3.3) 3 (1.8)	28 (9.3) 28 (6.9)	19 (7.5) 22 (4.5)	47 (8.5) 47 (6.0)
Nation	23 (4.5) 15 (2.7) 194 (4.2) 184 (4.5)	52 (4.3) 59 (3.0) 195 (2.4) 188 (2.7)	10 (2.2) 10 (2.1) 199 (5.5)(186 (5.5)	15 (3.2) 15 (2.8) 189 (5.1) 184 (3.8)
Hispanic State	7 (24) 11 (3.5)	32 (4.9) 33 (4.1)	27 (4.2) 19 (3.9)	34 (4.7) 37 (2.8)
Nation	20 (3.1) 12 (3.3) 198 (3.6) 192 (6.9)	201 (3.9) 192 (2.7) 44 (4.5) 48 (3.8) 202 (3.0) 189 (2.6)	206 (2.8) 191 (4.8) 14 (2.4) 18 (3.5) 204 (6.7) 197 (5.7)	200 (3.1) 193 (3.3) 22 (4.5) 21 (2.9) 203 (4.8) 186 (6.4)
American Indian State	13 (5.4) 5 (3.7)	31 (7.2) 28 (5.4)	11 (42) 21 (5.5)	45 (7.6) 45 (6.1)
Nation	14 (5.3) 13 (5.0)	41 (7.4) 42 (5.5)	23 (5.9) 21 (3.8)	22 (7.5) 24 (3.8)
TYPE OF LOCATION		F.		
Central City State	13 (5.0) 7 (2.6)	24 (6/4) 32 (4.9) 213 (4.9) 205 (3.3)	21 (4.9) 24 (4.1) 215 (4.0) 209 (4.2)	43 (5.9) 37 (4.0) 211 (2.8) 210 (5.2)
Nation	18 (4.0) 10 (2.4) 199 (4.6) 203 (5.7)	54 (3.6) 55 (3.6) 207 (2.4) 201 (2.8)	14 (3.2) 16 (2.0) 216 (5.6) 211 (7.7)	14 (4.5) 19 (2.9) 214 (4.8) 209 (5.4)
Urb Frng/Lrg Town State	2 (1.8) 1 (0.8)	23 (4.7) 24 (3.9) 216 (3.5) 220 (3.2)	. 25 (4.9) 20 (3.6) 218 (2.6) 222 (6.3)	50 (5:5) 54 (4.5) 222 (2:8) 215 (2:5)
Nation	9 (2.4) 14 (3.8) 211 (4.9) 215 (5.0)	43 (5.3) 40 (3.3) 224 (3.0) 224 (2.3)	21 (4.3) 19 (3.1) 220 (3.8) 217 (4.3)	27 (4.9) 26 (3.6) 220 (5.2) 220 (3.2)
Rural/Small Town State	11 (4.9) 12 (6.4) - (7.1) - (7.5)	35 (6.1) 28 (9.0) 216 (3.6) 214 (7.7)	29 (4.5) 24 (7.9) 218 (3.8)! ***(***)	26 (5.4) 36 (6.8) 218 (3.9) 217 (3.0)
Nation	17 (5.1) 9 (3.2) 215 (5.4) 211 (8.3)	54 (6.3) 56 (6.2) 219 (2.9) 213 (3.0)	9 (4.2) 16 (3.6) 224 (3.0)(219 (3.4)(19 (7.1) 19 (5.7) 217 (7.5)! 211 (6.4)!

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TABLE D6.8A (continued)

Public School Teachers' Reports on Assessing Students Via Multiple-Choice Tests

Once or We		Once or Mo		Once or Twice a Year		Never or Hardly Ever	
1992	1994	1992	1994	1992	1994	1992	1994

		ardicid passessors	A troops age of the Committee	. 1,25.6, 798,96,6,95,95,96		a. amaza, especial.	**************************************	COSTANALILATI LAWAR AND
			Pe	rcentage ai	nd Proficie	ncy		
PARENTS' EDUCATION								
College graduate State	6 (1.9)	5 (1.4)	23 (3.1) 221 (2.3)	26 (3.1) 219 (2.6)	26 (3.1) 226 (1.4)	24 (2.6) 226 (3.5)	45 (3.6) 227 (2.2)	44 (3.0) 221 (2.4)
Nation	13 (2.3) 214 (4.6)	10 (1.6) 216 (4.4)	48 (3.8) 224 (2.4)	49 (2.0) 221 (2.1)	17 (2.4) 227 (3.2)	17 (2.0) 229 (3.5)	22 (3.9) 229 (4.6)	24 (2.6) 226 (3.3)
Some ed after HS State	9 (3.4)	5 (1.7)	30 (5.3)	28 (4.5)	20 (3.5)	18 (3.3)	41 (4.2)	49 (4.6)
Nation	13 (3.1)	10 (2.0)	226 (4.9) 53 (5.3)	49 (4.3)	16 (3.0)	17 (2.8)	223 (3.2) 18 (4.0)	218 (4.0) 24 (3.5)
HS graduate State	7 (26) (5.5)	2(10)	30 (4.2) 209 (4.0)	224 (2.6) 32 (4.7) 214 (4.0)	24 (3.3)	218 (5.2) 21 (4.5)	39 (4.7) 210 (4.1)	219 (4.9) 44 (4.6) 214 (5.9)
Nation	13 (3.2)	14 (3.3)	54 (3.6)	49 (3.4)	212 (4.5) 15 (3.3)	18 (2.7)	19 (3.5) 216 (4.7)	19 (3.2)
HS non-graduate State	9 (3.7)	208 (5.2) 12 (5.6)	210 (2.6) 18 (5.0)	207 (2.5) 34 (6.4)	217 (4.9)! 37 (6.2)	206 (5.9) 15 (3.8)	36 (6.1)	208 (5.2) 40 (5.4)
Nation	15 (3.2)	12 (28)	50 (5.0)	51 (6.2) 190 (5.0)	11 (3.6)	13 (2.6)	24 (4.7)	25 (6.2)
I don't know State	8 (2.4)	5 (1.7)	202 (4.6) 27 (3.5) 209 (3.1)	29 (3.4) 204 (3.2)	24 (3.1) 210 (2.7)	21 (3.4) 208 (4.0)	41 (3.7) 210 (2.6)	45 (32) 204 (23)
Nation	16 (2.5) 203 (3.1)	12 (2.4) 206 (4.4)	49 (3.9) 212 (2.0)	49 (2.5) 204 (2.1)	14 (2.7)	18 (2.2)	21 (3.7) 211 (3.7)	21 (2.3) 207 (2.9)
GENDER	200 (0.1)	200 (4.4)	216 (2.0)	204 (2.1)	212 (3.5)	207 (2.9)	211 (3.7)	EU1 (E.8)
Male State	8 (23) 218 (3.9)	5 (1.4)	26 (3.3) 213 (3.0)	28 (3.3) 207 (3.0)	24 (2.8) 214 (2.5)	22 (2.7) 213 (3.4)	43 (3.3) 215 (2.0)	45 (3.0) 209 (2.4)
Nation	14 (2.3) 204 (4.1)	12 (1.9) 205 (3.8)	49 (3.6) 213 (1.8)	48 (2.2) 207 (2.1)	16 (2.6) 218 (2.7)	17 (1.4) 209 (3.6)	21 (3.6) 214 (4.4)	22 (2.3) 210 (3.5)
Female State	7 (2.0) 222 (5.0)	5 (1:6)	26 (3.3) 217 (2.8)	28 (3.0) 218 (2.5)	26 (2.7) 221 (2.3)	22 (2.8) 221 (3.7)	42 (3.4) 221 (2.6)	44 (2.9) 218 (2.4)
Nation	14 (2.0) 213 (3.0)	11 (20) 217 (33)	50 (3.2) 221 (2.0)	50 (2.3) 218 (1.7)	15 (21) 221 (32)	17 (1.8) 222 (3.4)	21 (32) 223 (3.4)	22 (2.5) 220 (2.6)
		•						
SCHOOL TYPE Public								
State	== (===) == (===)	5 (1.5) 209 (4.7)		28 (3.0) 213 (2.3)	=(=3	22 (2.7) 217 (3.0)		
Nation	(==) ==(==) ==(==)	12 (1.9) 211 (3.1)		49 (2.1) 212 (1.7)	<u>=(=3)</u>	17 (1.5)	<u>=(=3)</u>	22 (2.3) 215 (2.7)
Non-Public State	=(=)	27 (10.5)	= (=3)	25 (23.6)		10 (7.1)	==	38 (24.0)
Nation		18 (4.2) 225 (5.9)	=(=)	48 (5.0) 230 (3.4)		15 (3.9) 241 (-4.5)		19 (4.3) 228 (6.8)
Combined State	=(=3	6 (1.5)	-()	28 (3.1)	=(=)	21 (26)	() ()	
Nation	=(==) =(==)	12 (1.8) 213 (2.9)	(== (==) (==)	49 (1 9)	== (==) == (==)	17 (1.5)	=(=3) =(=3)	22 (22) 216 (25)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. === School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.





TABLE D6.8B

Public School Teachers' Reports on Assessing Students With Paragraph Length Written Responses About What They Have Read

Once or Twice a	Once or Twice a	Once or Twice a	Never or Hardly	
Week	Month	Year	Ever	
1994	1994	1994	1994	

		Percentage ar	nd Proficiency	
TOTAL State	45 (2.9)	46 (3.0)	6 (1.3)	3 (0.9)
Nation	213 (2.0) 39 (3.0)	215 (2.1) 44 (2.9)	212 (5.8) 10 (1.4)	208 (6.8)! 7 (1.4)
RACE/ ETHNICITY	215 (1.5)	214 (1.5)	213 (3.4)	201 (3.8)
White State	44 (3.2)	47 (3.3)	6 (1:3)	3 (0.8)
Nation	222 (2.2) 39 (3.4) 224 (1.8)	224 (2.1) 45 (3.2)	222 (5.5)! 10 (1.7)	6 (1.5)
Black State	45 (6.2)	223 (1.6) 45 (6.8)	223 (3.5) 8 (2.9)	209 (3.7)i 2 (1.4)
Nation	39 (3.7)	39 (3.7)	11 (21)	11 (3.2)
Hispanic State	188 (3.0) 46 (3.7)	185 (2.7)	190 (5.1)	183 ('3.9)
Nation	193 (3.1) 39 (4.1) 193 (3.3)	43 (3.8) 192 (3.2) 45 (3.9)	7 (22) (** (**) 10 (22)	4 (1:5) (***) 6 (1:3) (***)
American Indian State	43 (7.4)	189 (2.8) 49 (7.0)	188 (9.5)! - 5 (2.3)	3 (23)
Nation	34 (4.8)	54 (4.9)	9(3.3)	3 (1.6)
TYPE OF LOCATION Central City	***(****)	198 (6.2)		••• (**)
State	43 (3.9) 205 (3.8)	47 (4.2) 209 (3.9)	5 (23) (7:1)	5 (1.5) 1 (1.5)
Nation	40 (5.5) 206 (2.7)	44 (5.7) 205 (3.8)	7 (1.7) 205 (7.5)i	9 (2.9) 192 (4.0)!
Urb Frng/Lrg Town State	45 (4:7) 219 (2:5)	49 (5.0)	5 (21)	2 (13)
Nation	39 (4:4) 223 (2:0)	217 (3.4) 45 (4.2) 219 (2.2)	(**.*) -12 (2.4) 218 (5.7)!	4 (1.2) 217 (9.4)
Rural/Small Town State	48 (8:1)	39 (8.1)	10 (2.0)	3 (1.5)
Nation	215 (4.7) 39 (5.7) 215 (2.8)	222 (3.1)! 42 (5.0) 215 (3.0)	10 (2.8) 213 (6.3)	9 (3.4) 201 (4.7)

(continued on next page)





TABLE D6.8B (continued)

Public School Teachers' Reports on Assessing Students With Paragraph Length Written Responses About What They Have Read

Once or Twice a	Once or Twice a	Once or Twice a	Never or Hardly
Week	Month	Year	Ever
1994	1994	1994	

_		Percentage ar	nd Proficiency	
PARENTS' EDUCATION		4.0		
College graduate State	43 (3.4) 220 (2.3)	50 (3.6) 224 (2.1)	4 (1.0) ****)	3 (1.0) (***)
Nation	44 (3.4) 225 (1.7)	41 (3.4) 223 (1.9)	9 (1.4) 225 (3.7)	5 (1.3) 209 (6.1)
Some ed after HS State	49 (5.0) 222 (3.8)	44 (4.7) 220 (4.9)	5 (21)	3 (14)
Nation	38 (4.4) 218 (4.0)	44 (3.8) 222 (3.4)	11 (3.0)	7 (1.7)
HS graduate State	53 (4.9) 216 (4.2)	42 (5.0) 212 (3.9)	4 (1.6) ()	2 (0.8)
Nation	37 (3.6) 206 (3.2)	46 (3.2) 208 (2.5)	10 (1.9) 213 (6.2)	7 (1.4)
HS non-graduate State	43 (5.8) ()	44 (5.8) (**)	11 (4.9)	2 (1.6)
Nation	36 (4.4) 196 (5.0)	38 (4.3) 187 (8.2)	12 (28)	14 (3.1)
I don't know State	44 (3.4) 204 (2.6)	43 (3.4) 205 (3.1)	8 (2.6) 203 (7.3)	5 (1.5) *** (**.*)
Nation	36 (3.0) 207 (2.0)	47 (2.9) 207 (2.1)	10 (1.5) 202 (5.1)	7 (1.7) 192 (4.3)!
<u>GENDER</u> Male				
State	46 (3:2) 210 (2.7)	46 (3.4) 211 (2.7)	5 (1.4) 204 (5.4)	3 (1.0)
Nation	40 (3.1) 209 (1.8)	44 (3.1) 208 (1.6)	9 (1.3) 210 (4.4)	7 (1.4) 195 (4.8)
Female State	44 (2.8) 217 (2.2)	46 (2.9) 220 (2.3)	7 (1:5) 219 (7:5)	3 (1.0) (***)
Nation	39 (3.0) 221 (1.9)	44 (2.7) 220 (1.6)	10 (1.7) 216 (3.3)	7 (1.4) 207 (3.9)!

SCHOOL TYPE				
Public				
State	45 (2.9)	46 (3.0)	6 (1.3)	3 (0.9)
	213 (2.0)	215 (2.1)	212 (5.8)!	208 (6.8)!
Nation	39 (3.0)	44 (2.9)	10 (1.4)	7 (1.4)
	215 (1.5)	214 (1.5)	213 (3.4)	201 (3.8)1
Non-Public			100	45
State	32 (26.0)	68 (26.0)	0 (0.0)	0 (0.0)
	(-:-)	**** (** *)	()	*** (** *)
Nation	28 (4.6)	54 (4,8)	11 (3.3)	7 (3.0)
	225 (5.0)	232 (3.5)	240 (4.1)!	222 (9.5)!
Combined			27-5	
State	44 (3.1)	47 (3.2)	6 (1.3)	3 (0.9)
	··· (···)	(-:-)	()	···· (**.*)
Nation	38 (2.7)	45 (2.6)	10 (1.4)	7 (1.2)
	216 (1.4)	216 (1.3)	216 (3.3)	203 (3.7)

The 1992 data are not reported for this variable due to a rewording of the question for the 1994 assessment. The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



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TABLE D6.8C

Public School Teachers' Reports on Assessing Students Via Reading Portfolios

1994 Trial State Assessmen

Week			Twice a	Once or Ye		Never or Hardly Ever	
1992	1994	1992	1994	1992	1994	1992	1994

		KOMENNET K	1885 (AREA CO. V.)		29/5 Yr 29/3 UV.3		84001 SAMOO 14 44	PV, Status Nazmas Auria
			Pe	rcentage a	nd Proficie	ncy		
<u>TOTAL</u>								
State	17 (2.1)	17 (2.3)	25 (3.3)	35 (3.0)	16 (2.4)	18 (2.4)	41 (3.5)	31 (3.1)
Notion	220 (3.1)	213 (2.8)	217 (2.1)	214 (1.9)	215 (2.4)	210 (3.8)	217 (2.0)	217 (2.3)
Nation	14 (1.8) 217 (4.2)	15 (1.6) 209 (2.4)	25 (2.3) 221 (2.4)	26 (2.6) 212 (2.8)	13 (2.3) 216 (3.7)	16 (2.0) 217 (2.8)	47 (3.3)	-43 (2.5)
RACE/ ETHNICITY		(-2-4)		- (E (CO)	2.10 (3.7)	21/12.0)	214 (1.4)	214 (1.8)
White								
State	18 (2.3)	17 (2.6)	25 (3.6)	34 (3.0)	15 (2.4)	18 (2.7)	41 (3.6)	31 (3.3)
Nation	224 (3.4) 15 (2.2)	223 (2.8) 13 (1.8)	222 (1.9) 26 (2.7)	223 (1.9) 25 (3.2)	220 (2.3) 13 (3.0)	218 (3.8) 16 (2.2)	221 (1.8) 47 (3.8)	225 (2.3)
	224 (4.4)	222 (2.4)	229 (2.4)	224 (2.1)	226 (3.0)	ZZ4 (3.2)	219 (1.8)	46 (3.4) 222 (2.0)
Black								(E.0)
State	20 (7.2)	17 (4.2)	28 (7.4)	37 (5.1)	15 (5.6)	18 (6.2)	37 (9.0)	28 (3.9)
Nation	14 (2.6)	22 (3.3)	23 (3.7)	27 (3.4)	15 (3.3)	13 (2.2)	48 (4.0)	39 (3.7)
	188 (4.3)	186 (3.1)	193 (2.8)	183 (4.1)	190 (5.2)!	191 (3.8)	197 (2.4)	188 (2.9)
Hispanic	*****	40/05						
State	14 (3.1) 201 (4.2)	19 (2.6) 191 (4.3)	24 (4:3) 200 (3:3)	34 (4.2) 190 (4.2)	22 (4.2) 206 (4.1)	18 (3.1) 189 (6.0)	41 (5.1) 204 (3.4)	29 (3.9)
Nation	13 (3.0)	16 (3.1)	23 (3.3)	32 (3.6)	12 (2.2)	17 (3.8)	51 (3.9)	199 (3.5) 35 (3.2)
A	203 (5.2)	184 (4.8)!	204 (4.6)	186 (4.5)	190 (5.1)!	201 (3.7)	202 (3.1)	191 (3.7)
American Indian State	11 (4.7)	13 (4.4)	32 (6.8)	44 (6.5)	10/5/	12740	27 (0.0)	00 (00)
Jidie	()	10 (4.4)	(·)	44 (0.0)	19 (6.4)	13 (4.6)	37 (8.0)	29 (6.3)
Nation	16 (6.4)	20 (4.2)	27 (6.3)	29 (5.2)	14 (5.0)	11 (2.9)	44 (8.0)	39 (5.8)
TYPE OF	*** (***)	*** (****)	***(**.*)	***(**.*)	(".")	*** (****)	*** (**.*)	••• (••••)
LOCATION								
Central City								
State	17 (4.1)	21 (3.5)	31 (6.7)	39 (4.8)	16 (4.9)	11 (2.9)	36 (5.4)	28 (3.8)
Nation	216 (5.2)	207 (4.9)	210 (2.9)	209 (3.6)	210 (4.4)	202 (8.3)	215 (3.8)	210 (3.9)
Hauon	17 (3.1) 210 (4.4)	20 (2.9) 198 (4.1)	26 (5.0) 209 (4.1)	31 (3.6) 206 (5.4)	-17 (3.1) 208 (7.0)	12 (3.1) 205 (4.5)!	41 (4.3) 207 (2.3)	36 (3.8) 207 (3.5)
Urb Frng/Lrg Town						-50 (7.0)1	1 , 2.3,	(UJ)
State	20 (3.8)	15 (3.5)	28 (4.4)	30 (4.0)	18 (3.6)	25 (4.6)	34 (4.7)	31 (4.8)
Nation	221 (5.6)1 16 (3.3)	221 (3.3) 14 (2.4)	223 (2.2) 26 (3.5)	215 (3.1) 25 (4.9)	217 (3.0) 13 (3.6)	214 (4.2)	217 (3.1) 44 (4.5)	220 (4.1)
	219 (7.8)	217 (3.5)	227 (3.3)	216 (3.7)	224 (5.8)	226 (3.5)	217 (2.7)	40 (4.4) 221 (2.5)
Rural/Small Town					1			
State	13 (3.0)	15 (6.4)	12 (51)	39 (8.7)	15 (4.9)	13 (4.4)	61 (5.4)	-34 (97)
Nation	10 (2.9)	10 (3.3)	24 (4.2)	220 (4.2)1 22 (5.5)	10 (4.6)	11 (4.4)	219 (3.4) 56 (7.2)	219 (4.3) 57 (5.1)
	221 (10.3)	223 (3.9)	225 (4.4)	215 (3.5)	215 (7.4)	205 (3.7)	215 (2.4)	212 (2.5)
					l .			

(continued on next page)





TABLE D6.8C (continued)

Public School Teachers' Reports on Assessing Students Via Reading Portfolios

	e or Twice a Once or Twice a Week Month			Once or Ye		Never or Hardly Ever	
1992	1994	1992	1994	1992	1994	1992	1994

	Percentage and Proficiency							
PARENTS' EDUCATION								
College graduate State		18 (2.5) 20 (3.5)	27 (4.0) 225 (2.1)	37 (3.4) 222 (2.2)	15 (2.4) 222 (2.7)	16 (2.7) 218 (4.5)	39 (3.9) 224 (2.0)	30 (3.0) 226 (2.4)
Nation	15 (2.3)	16 (1.9) 220 (3.0)	27 (2.9) 229 (3.0)	28 (3.2) 221 (3.0)	13 (2.6) 223 (4.3)	15 (1.9) 228 (3.3)	45 (3.7) 222 (2.3)	41 (3.1) 224 (2.6)
Some ed after HS State	12 (3.0)	10 (3.1)	22 (3.8)	39 (4.1) 216 (4.7)	17 (3.0)	24 (5.0)	49 (5.1) 225 (3.2)	26 (4.4)
Nation	15 (3.4)	15 (2.6) 216 (5.8)	27 (4.1) 226 (6.0)	27 (3.6) 221 (4.8)	11 (3.1)	14 (2.4)	47 (5.5) 220 (3.0)	45 (3.6) 224 (3.4)
HS graduate State	16 (2.9)	14 (2.8)	22 (4.2)	34 (4.5) 212 (5.3)	19 (3.3)	20 (3.6)	43 (5.1) 208 (4.0)	33 (5.0) 215 (5.5)
Nation	12 (3.0)	13 (1.9) 98 (6.1)	26 (3.4) 216 (4.0)	23 (2.7) 203 (4.2)	15 (2.9) 211 (6.5)!	16 (2.9) 210 (3.8)	48 (4.6) 211 (2.6)	47 (3.2) 211 (2.9)
HS non-graduate State	14 (4.4)	15 (5.1)	22 (5.2) (***)	35 (6.5)	15 (4.4)	15 (4.1)	48 (5.6)	34 (7.0)
Nation	15 (3.2)	15 (2.8)	17 (3.7)	26 (3.8) 184 (6.1)	15 (4.1)	13 (3.4)	52 (5.4) 196 (5.3)	47 (4.4) 187 (6.6)
I don't know State	18 (2.5)	18 (3.1) 204 (4.1)	25 (3.2) 210 (3.2)	31 (3.2) 204 (2.5)	17 (3.0) 210 (3.2)	19 (2:6) 199 (4:7)	40 (3.7) 211 (2.8)	32 (3.9) 209 (3.4)
Nation		15 (1.8) 199 (3.0)	24 (2.6) 214 (3.0)	25 (2.6) 205 (3.3)	13 (2.6) 213 (4.5)	17 (2.4) 210 (3.9)	48 (3.5) 208 (1.8)	43 (2.5) 206 (2.1)
GENDER Male								
State		15 (2.0) 208 (3.0)	26 (3.3) 215 (2.5)	37 (2.9) 209 (2.6)	15 (2.2) 213 (3.0)	18 (2.5) 207 (4.6)	42 (3.4) 214 (2.5)	31 (3.1) 213 (3.0)
Nation		16 (1.8) 205 (3.0)	26 (2.5) 218 (2.8)	26 (2.7) 206 (3.1)	13 (2.4) 211 (4.1)	15 (2.0) 211 (3.1)	46 (3.4) 210 (1.7)	42 (2.5) 209 (2.2)
Female State	17 (2.2)	19 (2.8) 217 (3.3)	24 (3.5) 220 (2.8)	33 (3.2) 219 (2.6)	18 (2.8) 217 (3.2)	18 (2.5) 213 (4.4)	41 (3.9) 220 (2.3)	30 (32) 221 (27)
Nation	14 (2.0)	14 (1.5) 214 (2.6)	25 (2.3) 224 (2.7)	27 (2.6) 218 (3.1)	13 (2.4) 221 (3.8)	16 (2.1) 224 (3.3)	48 (3.4) 217 (1.6)	43 (2.5) 220 (1.8)
SCHOOL TYPE Public State			—(<u>—</u>)		<u>— ()</u>	16 (24)	<u>()</u>	31 (3.1)
Nation		213 (2.8) 15 (1.6)	= [3]	214 (1.9) 26 (2.6)	= (=)	210 (3.8) 16 (2.0)	= (=3)	217 (23) 43 (2.5)

SCHOOL TYPE				
Public				
State			(=.=) 18 (2.4) ·	
Nation	== (===) 213 (2.8) = == (===) 15 (1.6) = == (===) 209 (2.4)	 () 26 (2.6)	=== (===) 16.(°2.0)	
Non-Public	1			
State				=== (===) 55 (26.4) === (===) *** (**3)
Nation		(<u>==</u>) 23 (4.6)	— (—,-) 8 (2.6)	(=_=) 63 (4.3)
Combined	, , , , , , , ,			
State				32 (3.2)
Nation		== (===) 26 (2.3)		== (==) 45 (2.2)
	== (==) .211 (2.3)	==(==) 213 (2.5)	<u> () </u>	=== (===): 217 (1.6)

The question associated with this variable was reformatted in 1994. No trend comparison tests were conducted. == School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.

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TABLE D8.1

Public School Students' Reports on the Frequency of Reading for Fun

1994 Trial State Assessment

Almost E	very Day		Twice a	Once or Mo		Never o	•
1992	1994	1992	1994	1992	1994	1992	1994

				<u> </u>			<u> </u>	
			Pe	rcentage a	nd Proficie	ency		
<u>TOTAL</u>					l		1	
State	44 (1.0)	47 (1.1) >	34 (0.9)	33 (1.0)	11 (0.6)	10 (0.7)	11 (0.6)	10 (0.7)
	223 (12)	221 (1.6)	215 (1.4)	212 (1.6)	214 (2.1)	211 (2.9)	201 (1.9)	193 (2.7)
Nation	43 (1.0) 221 (1.3)	45 (0.7)	32 (0.9)	31 (0.7)	12 (0.5)	12 (0.5)	13 (0.6)	12 (0.4)
RACE/ ETHNICITY	221 (113)	221 (1.3)	217 (1.3)	212 (1.3) <	208 (1.8)	206 (2.3)	198 (2.0)	195 (2.0)
White								
State	46 (1.3)	50 (1.4)	33 (1.2)	33 (1.1)	12 (0.7)	9 (.0.8)	10 (0.7)	9 (0.8)
Netter	228 (1.3)	229 (1.5)	220 (1.4)	220 (1:9)	218 (2.4)	220 (2.9)	205 (2.4)	201 (2.8)
Nation	230 (1.6)	46 (1.0) 231 (1.4)	32 (12) 225 (15)	30 (1.0)	12 (0.6)	12 (0.6)	12 (0.8)	12 (0.4)
Black	200 (1.0)	231 (1.4)	223 (13)	222 (1.5)	215 (2.0)	216 (2.8)	204 (2.4)	202 (2.3)
State	37 (4.0)	38 (3.3)	35 (3.5)	36 (3.6)	11 (3.3)	9 (3.0)	18 (3.6)	16 (3.8)
Notice	(":")		***(***)	***(***)	*** (**.*)	*** (***)	·*** (**.*)	*** (**.*)
Nation	40 (1.7) 195 (2.2)	40 (1.4) 193 (2.0)	31 (1:6) 195 (2.5)	34 (1.5)	13 (1.2)	12 (0.9)	16 (1.6)	14 (1.3)
Hispanic	193 (22)	193 (2.0)	133 (23)	186 (2.6)	186 (3.9)	180 (4.1)	186 (3.8)	178 (3.3)
State	38 (2.0)	43 (2.1)	37 (1.9)	33 (2.0)	11 (1.4)	11 (1.4)	14 (1.2)	13 (1.8)
Nation	207 (2.5)	201 (3.0)	203 (2.4)	190 (3.6)	201 (5.0)	196 (5.7)	192 (4.0)	177 (4.7)
Nation	44 (2.1) 205 (2.5)	43 (1.9) 194 (3.3)	32 (1.9) 199 (3.2)	33 (1.0) 191 (3.5)	12 (1.3) 198 (6.3)	11 (1.2)	13 (1.1)	13 (1.4)
American Indian	()	104 (0.0)	133 (3.2)	181 (3.3)	196 (0.0)	175 (6.2)	187 (4.6)	181 (4.5)
State	35 (.7.1)	47 (5.0)	37 (6.4)	28 (4.7)	7 (3.5)	9 (3.1)	21 (5.2)	16 (2.8)
Nation	(7.7)	77 (7.7)	**** (**.*)	··· (**.*)	*** (****)	(***)	*** (**.*)	*** (**.*)
Nauon	43 (5.9)	45 (4.0) 206 (6.5)	25 (4.8)	31 (4.3)	15 (4.0)	13 (3.4)	17 (3.8)	12 (2.6)
TYPE OF	/	200 (0.23)	(- /	11	()	()	***(**.*)	··· (*:5)
<u>LOCATION</u>								
Central City								
State	41 (1.7) 217 (2.2)	46 (1.9) 217 (3.2)	33 (1.5)	32 (1.6)	13 (1.2)	11 (1.0)	13 (1.2)	10 (1.3)
Nation	44 (1.6)	44 (1.5)	210 (2.4) 32 (1.7)	208 (3.3) 33 (0.8)	212 (2.9) 10 (0.8)	205 (4.3) 12 (0.7)	195 (3.4) 13 (0.9)	190 (5.0) 12 (0.9)
	212 (1.9)	212 (24)	210 (2.0)	205 (2.5)	200 (2.9)	196 (3.5)	192 (2.6)	186 (3.5)
Urb Frng/Lrg Town							1	
State	45 (1.4) 226 (1.9)	48 (1.8)	34 (1.3)	32 (1.6)	11 (1.0)	10 (1.1)	10 (0.9)	10 (0.8)
Nation	44 (1.6)	224 (2.6) 46 (1.0)	219 (1.8) 32 (1.5)	213 (1.9) 31 (1.1)	215 (3.9) 12 (1.1)	213 (4.4) 12 (0.7)	203 (2.9) 12 (1.2)	193 (4.6) 11 (0.5)
	227 (2.5)	226 (2.2)	220 (2.3)	216 (2.4)	213 (2.8)	212 (3.4)	200 (4.1)	205 (3.1)
Rural/Small Town State	W 105							
Sidle	45 (3.0) 227 (2.9)	48 (1.9) 222 (2.8)	35 (2.5) 214 (3.1)	34 (1.5) 216 (3.2)	10 (0.9)	7 (1.4)	11 (1.6)	11 (1.8)
Nation	42 (2.0)	43 (1.5)	31 (1.7)	30 (1:5)	13 (1.0)	13 (1.3)	206 (4.3) 14 (1.3)	14 (1.2)
	223 (2.9)	223 (2.5)	220 (2.7)	214 (2.9)	208 (4.0)	210 (4.3)	202 (3.3)	191 (3.6)

(continued on next page)





TABLE D8.1 (continued)

Public School Students' Reports on the Frequency of Reading for Fun

1994 Trial State Assessmen

Almost Every Day		Once or Twice a Week		Once or Mo		Never or Hardly Ever	
1992	1994	1992	1994	1992	1994	1992	1994

			Pe	rcentage ar	nd Proficie	ncy		
PARENTS' EDUCATION								
College graduate State	47 (1.6) 232 (1.4)	52 (1.7) 230 (1.8)	33 (1.4) 221 (1.7)	32 (1.5) 218 (2.3)	11 (1.0) 220 (2.9)	9 (1.0) 212 (3.1)	8 (0.7) 265 (3.0)	7 (0.8) 198 (4.3)
Nation	48 (1.3) 230 (2.1)	49 (1.0) 230 (1.9)	32 (1.2) 223 (1.6)	31 (1.1) 219 (2.0)	10 (0.7) 213 (2.7)	10 (0.9) 214 (3.1)	10 (0.8) 205 (3.6)	9 (0.7) 205 (3.2)
Some ed after HS State	44 (2.6)	55 (3.2)	34 (2.9)	31 (2.4) 220 (4.3)	12 (2.4)	8 (1.9)	9 (1.7)	6 (1.3)
Nation	225 (3.3) 46 (2.7) 226 (3.1)	225 (3.7) 40 (2.5) 232 (2.4)	226 (3.8) 33 (3.0) 223 (2.6)	35 (2.4) 221 (3.5)	11 (1.8)	13 (1.6)	10 (1.6)	12 (1.5)
HS graduat e State	226 (3.1) 37 (2.3)	37 (3.6) 220 (3.7)	39 (2:6) 208 (2:9)	37 (3.6) 211 (4.2)	11 (1.8)	12 (1.9)	13 (1.7)	14 (22)
Nation	217 (3.5) 38 (2.3) 218 (3.0)	40 (1.6) 215 (2.7)	34 (2.3) 211 (3.6)	34 (1.9) 205 (3.1)	15 (1.6) 204 (3.3)	14 (1.3) 202 (4.7)	13 (1.4) 198 (4.0)	11 (1.0) 196 (3.3)
HS non-graduate State	39 (5.0)	38 (6.7)	31 (4.3)	38 (5.8) *** (***)	17 (3.9)	9 (2.6)	13 (3.0)	16 (4.0)
Nation	40 (3.3) 204 (4.3)	43 (3.1) 194 (4.2)	30 (3.3) 201 (4.8)	26 (2.4) 192 (5.1)	10 (2-1)	13 (24)	19 (3.5)	18 (2.7)
I don't know State	42 (1.8) 215 (1.8)	44 (1:7) 210 (2:6)	32 (1.6) 209 (2.1)	32 (1.7) 205 (2.5)	11 (1.1) 207 (3.3)	11 (1:0) 205 (5:1)	15 (1.1) 195 (3.3)	13 (1.2) 188 (4.0)
Nation	40 (1.6) 214 (1.7)	42 (1.1) 212 (1.4)	31 (1.6) 213 (1.8)	31 (1.1) 206 (2.0)	13 (0.9) 204 (2.9)	13 (0.9) 200 (3.7)	16 (1.1) 196 (2.3)	15 (0.9) 190 (2.8)
GENDER Male								
State	34 (1.3) 220 (1.6)	39 (1.7) 217 (2.7)	36 (1.3) 214 (1.9)	35 (1.4) 209 (2.1)	14 (1.0) 213 (2.4)	13 (1.0) 207 (3.1)	15 (1.0) 201 (2.3)	13 (1.0) 193 (3.3)
Nation	36 (1.3) 216 (1.7)	36 (1.0) 216 (1.9)	33 (1.3) 215 (1.8)	32 (1.0) 208 (1.6) <	14 (0.7) 208 (2.3)	15 (0.7) 202 (2.5)	17 (1.0) 198 (2.8)	16 (0.6) 195 (2.1)
Female State	53 (1.4) 225 (1.7)	56 (1.7) 224 (1.9)	31 (1.3) 216 (1.8)	30 (1.5) 216 (2.4)	8 (0.8) 215 (3.2)	7 (0.7) 217 (4.3)	7 (0.7) 201 (3.8)	7 (0.8) 192 (3.9)
Nation	51 (1.3) 225 (1.4)	53 (11) 225 (13)	30 (1.1)	31 (0.9) 216 (1.7)	9 (0.5) 207 (3.1)	9 (0.8) 213 (3.8)	9 (0.7) 198 (2.7)	7 (0.5) 193 (3.5)
SCHOOL TYPE								
Public State	== (==) == (==)	47 (1.1) 221 (1.6)	(==)	33 (1.0) 212 (1.6)	=(=)	10 (0.7) 211 (2.9)	<u>()</u>	10 (0.7) 193 (2.7)
Nation		45 (0.7) 221 (1.3)		31 (0.7) 212 (1.3)		12 (0.5) 206 (2.3)		12 (0.4) 195 (2.0)
Non-Public State		43 (5.1)	()	37 (4.2)	(===) ==(===)	13 (4:6)		7 (2.6)
Nation		44 (22) 239 (29)	(===) ==(==)	35 (1.6) 226 (3.2)		11 (1.0) 228 (3.2)		10 (1.0) 217 (3.3)
Combined State	() () ()	47 (10)	<u>-(=)</u>	33 (0.9)	==(==) ==(==)	10 (0.7)	=(=)	
Nation		45 (0.7) 223 (1.2)		32 (0.7)		12 (65)		12 (0.4) 197 (1.9)
=== School type resu	lts are not p	resented for	1992 since	state-level no	n-public sch	ool data wer	e not collect	ed.

⁼⁼⁼ School type results are not presented for 1992 since state-level non-public school data were not collected.



The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within ± 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. *** Sample size is insufficient to permit a reliable estimate.



TABLE D8.2

Public School Students' Reports on the Number of Books Read Outside of School in the Past Month

1994 Trial State Assessment

No	ne	One o	r Two	Three or Four		Five or More	
1992	1994	1992	1994	1992	1994	1992	1994

	250000000000000000000000000000000000000			
		Percentage a	nd Proficiency	
TOTAL				
State	6 (0.5) 6 (0.4		23 (0.8) 23 (0.9)	43 (1.1) 43 (1.3)
Nation	201 (3.5) 195 (3.5 7 (0.4) 9 (0.6	25 (0.8) 26 (0.8)	221 (1.5) 218 (1.8) 24 (0.7) 23 (0.6)	218 (1.3) 215 (1.8) 44 (1.0) 42 (0.8)
RACE/ ETHNICITY	196 (2.6) 192 (2.5) 214 (1.6) 211 (1.5)	219 (1.6) 216 (1.8)	217 (:1.3) 215 (1.4)
White				
State	6 (0.6) 6 (0.9	30 (1:1) 29 (1:3)	24 (1.0) 23 (1.1)	41 (1.3) 42 (1.4)
	205 (4.4) 203 (4.0) 220 (1.5) 218 (1.9)	226 (1.6) 228 (1.7)	223 (1.6) 225 (1.8)
Nation	6 (0.6) 8 (0.		25 (0.9) 24 (0.8)	42 (1.4) 40 (0.9)
Black	204 (3.5) 202 (3.	(1.7) 220 (1.8)	226 (1.9) 226 (2.1)	225 (1.6) 227 (1.6)
State	10 (2.5) 10 (1.1) 23 (3.6) 27 (3.4)	26 (3.8) 25 (3.8)	41 (5.2) 38 (2.6)
A1-4 1				*** (****) **** (****)
Nation	10 (1.1) 10 (1.1 178 (4.5) 169 (3.4		20 (1.4) 21 (1.2) 193 (3.1) 185 (3.8)	49 (1.8) 47 (1.8)
Hispanic	170 (4.3) 105 (3.	100 (3.5) 102 (2.4)	153 (3.1) 163 (3.6)	196 (2.1) 192 (2.5)
State	6 (1.0) 5 (1.0		21 (1.7) 24 (1.8)	49 (2.4) 47 (2.4)
Nation	···(**)		208 (3.5) 195 (3.6)	204 (2.0) 194 (2.6)
Nation	8 (1.1) 10 (0. 189 (4.3) 177 (5:		22 (1.8) 23 (1.8) 202 (3.0) 193 (4.0)	46 (2.5) 45 (2.4) 204 (2.9) 190 (3.4) <
American Indian			202 (000) 100 (10)	204 (220) 100 (04)
State	1(1.4) 7(2		19 (3.6) 13 (3.7)	47 (5.7) 50 (4.5)
Nation	11 (3.5) 9 (2.1		23 (4.7) 24 (3.5)	49 (5.9) 44 (5.9)
1400011			- (-) - (-)	201 (6.7)
TYPE OF				
LOCATION				
Central City State	5(08) - 6(0)	27 (1:6) 26 (2.0)	22 (1.2) 21 (1.4)	46 (1.9) 47 (2.3)
State	3 (0.6) 6 (0.		213 (3.3) 211 (3.5)	212 (2.2) 211 (3.5)
Nation	7 (0.8) 9 (0.	7 24 (0.9) 25 (1.2)	22 (1.0) 22 (0.9)	46 (1.5) 45 (1.3)
Urb Frng/Lrg Town	191 (4.2) 183 (4.) 205 (2.4) 201 (2.9)	210 (2.9) 207 (3.6)	210 (1.9) 208 (2.4)
State State	5 (0.8) 6 (0.	1) 29 (1.2) 29 (1.7)	24 (1.2) 26 (1.4)	42 (1.8) 40 (2.0)
	203 (5,4) 198 (6.	218 (2.2) 213 (2.9)	225 (1.8) 221 (2.6)	221 (2.3) 218 (2.8)
Nation	7(08) 7(0		24 (0.9) 25 (0.9)	43 (1.7) 42 (1.4)
Rural/Small Town	201 (4.7) 200 (3.	5) 218 (2.5) 218 (2.3)	224 (3.1) 222 (2.9)	221 (2.4) 221 (2.3)
State	7 (15) 5 (1		22 (1.8) 22 (1.4)	42 (2.2) 44 (2.1)
	()(223 (3.6) 224 (3.6)	221 (2.6) 218 (3.2)
Nation	8 (1.0) 11 (1) 194 (5.3) 193 (4		24 (1.8) 22 (1.4) 219 (2.7) 216 (3.0)	42 (2.2) 39 (2.0) 221 (3.0) 218 (2.3)
	107 (0.0) 183 (4.	1 -17 (2.5) 215 (2.5)	210 (2.1) 210 (3.0)	221 (3.0) 218 (2.3)

(continued on next page)





TABLE D8.2 (continued)

Public School Students' Reports on the Number of Books Read Outside of School in the Past Month

1994 Trial State Assessmen

	None	One o	r Two	Three or Four		Five or More	
1992	1994	1992	1994	1992	1994	1992	1994

	1332	1334						
			Pei	rcentage ar	nd Proficie	ncy		
<u>PARENTS'</u> EDUCATION								
College graduate State	4 (0.6)	4 (0.5)	28 (1.2)	27 (1.5)	24 (1.0)	22 (1 <i>A</i>)	43 (1.6)	46 (2.0)
Nation	6 (0.6)	6 (0.6)	223 (2.0) 22 (1.1)	217 (2.2) 24 (1.1)	229 (2.1)	229 (2.2) 24 (1.0)	224 (18) 47 (1.4)	223 (2.1) 46 (1.1)
Some ed after HS	202 (5.2)	202 (3.5)	222 (17)	221 (2.0)	227 (2.0)	227 (2.3)	224 (2.2)	224 (1.6)
State	8 (1.8)	4 (13)	24 (2.1) 222 (4.7)	27 (3.8)	24 (2.1) 224 (3.5)	29 (2.6) 221 (5.4)	44 (2.8) 227 (3.4)	41 (3.7) 221 (4.0)
Nation	8 (1.3)	7 (1.1)	25 (2.4) 227 (4.5)	25 (2.4) 219 (4.5)	25 (2.4) 222 (3.2)	25 (2.4) 222 (3.3)	41 (2.5) 223 (3.3)	43 (2.7) 225 (2.8)
HS graduate State	4 (1.1)	8 (1.6)	29 (2.9)	27 (2.7)	21 (2.5)	22 (2.4)	46 (2.8)	43 (2.7)
Nation	7(1.1)	10 (1.6)	208 (3.4) 28 (2.4)	212 (4.7) 30 (1.9)	211 (4.4) 24 (2.1)	24 (1.6)	214 (2.9) 41 (2.8)	219 (3.4) 36 (1.5)
HS non-graduate	*** (***)	191 (5.7)	211 (2.5)	204 (2.9)	212 (4.5)	210 (4.1)	214 (2.6)	211 (2.9)
State	12 (3.9)	9 (25)	37 (5.0)	29 (4.7)	20 (4.3)	29 (5.3)	32 (52)	34 (5.4)
Nation	13 (24)	14 (2.6)	27 (3.4) 192 (6.3)	29 (3.3) 192 (6.2)	21 (2.9)	17 (22)	40 (3.5) 198 (4.4)	40 (2.6) 189 (5.4)
State	7 (0.9) 196 (4.1)	7 (0.8) 194 (5.5)	28 (1.6) 207 (2.7)	29 (1.6) 205 (2.9)	23 (1.5) 215 (2.5)	23 (1.6) 209 (2.8)	42 (1.7) 209 (1.9)	41 (1.8) 203 (2.1)
Nation	8 (0.7) 191 (4.0)	11 (0.9) 188 (4.1)	28 (1.1) 208 (2.4)	27 (1.1) 206 (2.4)	21 (0.8) 211 (2.1)	22 (1.0) 207 (2.8)	43 (1.5) 211 (1.8)	40 (1.4) 207 (1.9)
<u>GENDER</u> Male				Ì	,	, , , ,		
State	8 (0.9) 203 (4.3)	8 (0.8) 194 (4.6)	32 (1.3) 213 (2.1)	31 (1.5) 208 (1.9)	21 (1.0) 219 (2.4)	23 (1.3) 214 (2.9)	39 (15) 214 (1.6)	38 (1.7) 210 (2.4)
Nation	10 (0.8) 197 (2.8)	12 (0.9) 193 (3.2)	27 (12) 212 (22)	29 (1.2) 207 (1.9)	24 (1.0) 216 (2.1)	22 (0.7) 212 (2.2)	39 (1.2) 212 (1.7)	37 (1.0) 210 (1.8)
Female State	3 (0.6)	4 (0.5)	24 (1.3)	24 (1.4)	25 (1.2)	24 (1.1)	47 (1.8)	48 (1.6)
Nation	4 (0.4)	5 (0.4)	217 (2.3) 23 (1.1)	216 (2.4) 23 (0.9)	223 (2.0) 24 (1.1)	222 (2.3) 25 (0.8)	221 (1.7) 49 (1.3)	219 (2.1) 47 (1.2)
_	192 (4.8)	190 (3.7)	216 (1.8)	217 (1.9)	222 (1.7)	220 (2.0)	222 (1.4)	220 (.1.5)
SCHOOL TYPE								
Public State	(=)	6 (0.4)	= (==) = (==)	28 (1.2)	=(=3 =(=3)	23 (0.9)	-()	43 (1.3)
Nation		195 (3.9) 9 (0.6)		212 (1.6) 26 (0.8)		eo (v.o)		215 (1.8) 42 (0.8)
Non-Public State		192 (2.5)		211 (1.5) 37 (6.9)		216 (1.8)		215 (1.4) 35 (7.0)
Nation	() () ()	5 (0.9)	() () () ()	37 (0.3) 32 (1.6)		27 (1.4)		35 (17)
Combined	(-3)	214 (5.7)		229 (2.9)	(==)	233 (3.3)	(==)	234 (3.3).
State		6 (0.4)		28 (.1.2)	<u>=(=3)</u>	23 (0.8)	== (==) == (==)	43 (1.3)
Nation	<u>=(=3)</u>	8 (0.5) 193 (2.4)	<u>=(=3)</u>	27 (0.7) 214 (1.3)		24 (0.5) 218 (1.6)	=(=;) =(=;)	41 (0.8) 217 (1.3)

=== School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. ! Interpret with caution — the nature of the sample does not allow accurate determination of the variability of this statistic. *** Sample size is insufficient to permit a reliable estimate.



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TABLE D8.3

Public School Students' Reports on the Frequency of Taking Books Out of the Library for Their Own Enjoyment

Almost E	very Day		or Twice a Once or Twice a Week Month		Never or Hardly Ever		
1992	1994	1992	1994	1992	1994	1992	1994

	No. of the second							
			Pe	rcentage a	nd Proficie	ncy		
<u>TOTAL</u>								
State	15 (0.9) 214 (1.8)	15 (0.8) 208 (2.9)	47 (1.1) 220 (1.4)	47 (1.1) 218 (1.4)	24 (0.8) 219 (1.5)	24 (1.0) 219 (1.9)	14 (0.8) 204 (1.9)	14 (0.8)
Nation	15 ('0.6)	16 (0.5) 207 (1.9)	48 (0.9) 219 (1.2)	47 (0.8) 220 (1.2)	22 (0.8) 219 (1.4)	21 (0.8)	15 (0.7)	202 (2.3) 16 (0.7)
RACE/ ETHNICITY		(···)	210 (12)	220 (.1.2)	E13 (1.4)	215 (1.7)	202 (1.8)	198 (2.1)
White								
State	13 (0.9)	14 (1.0)	48 (1.2)	48 (1.2)	25 (1.1)	25 (1.1)	13 (0.8)	13 (1.0)
Netion	221 (2.2)	218 (2.7)	225 (1.3)	225 (1.3)	223 (1.5)	226 (2.2)	210 (2.0)	212 (2.3)
Nation		15 (0.6)	50 (1.1)	49 (0.9)	24 (1.1)	22 (0.8)	14 (0.8)	14 (0.7)
Black	221 (2.1)	218 (2.6)	226 (1.5)	228 (1.3)	226 (1.8)	223 (1.8)	211 (2.3)	210 (2.5)
State	18 (2.9)	20 (3.0)	38 (.3.7)	46 (3.8)	22 (4.4)	17 (3.7)	21 (4.0)	10 (20)
	*** (****)	 ()'	(- · ·)	(5)	= (-3)		21 (4.0)	18 (2.8)
Nation	20 (1.3)	20 (1.2)	42 (1.7)	41 (1.6)	17 (1.3)	18 (1.4)	20 (1.6)	20 (1.6)
l .	192 (2.8)	184 (3.1)	196 (2.4)	194 (2.0)	195 (3.4)	193 (3.3)	183 (3.3)	172 (2.6)
Hispanic								
State	18 (1.9) 201 (3.7)	18 (1.8)	44 (2.7)	43 (2.1)	21 (1.7)	21 (2.2)	17 (1.7)	18 (1.6)
Nation	19 (1.6)	186 (4.9) 19 (1.5)	207 (2.4) 47 (1.6)	199 (2.5) 40 (1.8)	205 (4.0) 17 (1.2)	199 (4.0)	191 (3.9)	183 (4.0)
	200 (4.3)	188 (4.1)	204 (2.8)	196 (2.8)	200 (3.4)	19 (1.4) 188 (4.4)	17 (1.5) 191 (3.4)	21 (1.6) 181 (6.1)
American Indian	` '		,,	.50 (2.0)	200 (0.4)	100 (4.4)	191 (3.4)	101 (0.1)
State	18 (5.1)	23 (2.9)	44 (5.9)	46 (4.3)	19 (5.2)	19 (4.1)	20 (5.3)	11 (2.7)
	*** (**.*)	()	*** (***)	*** (**.*)	*** (**.*)	··· (***)	*** (****)	*** (**.*)
Nation	17 (4.0)	16 (3.0)	45 (5.0)	50 (4.1)	18 (3.5)	17 (3.1)	20 (3.8)	18 (3.6)
TYPE OF	()	(-1)	TT (F.5)	208 (5.7)	··· (···)	— (1.7)	(***)	*** (**.*)
LOCATION								
Central City								
State	15 (1.7)	15 (1.4)	45 (2.6)	45 (2.0)	25 (1.5)	24 (1.6)	15 (1.6)	16 (1:5)
		204 (5.1)	215 (2.2)	214 (2.5)	216 (2.6)	214 (2.7)	199 (3.2)	199 (4.0)
Nation	16 (0.8)	17 (1.0)	45 (1.2)	45 (1.5)	21 (1:0)	21 (1.6)	18 (1.2)	18 (1.4)
Urb Frng/Lrg Town	204 (2.2)	197 (2.3)	212 (1.7)	.214 (2.0)	213 (2.4)	209 (3.6)	195 (2.3)	184 (3.3)
State	14 (1.2)	17 (1.1)	46 (1.8)	47.(1.6)	20/10	DE (4 C)		
	E 2000 - COLOR 100 - COLOR 200	211 (3.8)	224 (1.9)	218 (2.4)	26 (1.4) 221 (2.3)	25 (1.6) 223 (2.9)	14 (12) 207 (2.7)	12 (1.0) 202 (3.4)
Nation	14 (0.9)	16 (0.8)	48 (1.2)	49 (1.5)	24 (1.3)	22 (1.1)	13 (0.9)	14 (0.8)
		214 (3.0)	223 (2.5)	224 (2.3)	224 (2.4)	220 (2.6)	208 (3.4)	208 (3.2)
Rural/Small Town								` '
State		14 (1.4)	53 (1.8)	49 (1.9)	20 (1.4)	21 (1.7)	12 (1.5)	16 (1.3)
Nation	218 (4.7) 15 (1.2)	209 (5.6)	221 (3.2)	222 (2.5)	221 (3.5)	215 (5.0)	206 (3.4)	207 (4.1)
Hauon		15 (1.2) 208 (5.0)	52 (2.5) 222 (2.9)	47 (1.9) 220 (2.2)	19 (2.0) 218 (4.1)	20 (1.4)	15 (1.5)	18 (14)
		(0.0)		EEU (EEE)	E10 (4.1)	215 (3.0)	205 (3.0)	204 (2.9)
						_00000000000000000000000000000000000000		and the second s

(continued on next page)





TABLE D8.3 (continued)

Public School Students' Reports on the Frequency of Taking Books Out of the Library for Their Own Enjoyment

Almost E	very Day		Twice a	Once or Twice a Month		e a Never or Hardly Ever	
1992	1994	1992	1994	1992	1994	1992	1994

		Percentage a	nd Proficiency	
<u>PARENTS'</u> <u>EDUCATION</u>				
College graduate State	16 (1.3) 16 (1.1) 223 (2.7) 218 (3.0)	48 (1.6) 49 (1.4) 228 (1.5) 225 (1.5)	25 (1.2) 25 (1.4) 225 (2.1) 224 (2.8)	11 (1.0) 11 (1.0) 213 (2.7) 209 (4.2)
Nation	16 (1.1) 17 (0.8)	48 (1.5) 48 (1.2)	23 (1.3) 22 (1.1)	12 (0.9) 13 (0.8)
Some ed after HS State	217 (2:7) 217 (2:7) 13 (1:6) 21 (2:8)	228 (2.0) 229 (1.7) 48 (3.0) 47 (3.8)	228 (1.9) 223 (2.3) 28 (2.8) 20 (2.9) 227 (3.7) *** (***)	209 (2.5) 207 (3.0) 11 (1.9) 12 (1.8)
Nation	13 (2.0) 15 (1.7)	226 (3.6) 222 (3.8) 56 (2.8) 50 (3.0)	21 (2.4) 21 (2.1)	11 (1.8) 13 (1.8)
HS graduate State	15 (2.0) 13 (2.1) (1.7)	222 (2.5) 226 (2.4) 47 (2.9) 48 (2.7) 215 (3.0) 218 (3.6)	226 (6.0) 222 (4.5) 21 (2.3) 21 (2.5) 215 (4.4) **** (****)	16 (2.2) 18 (2.3)
Nation	16 (1.6) 17 (1.4)	47 (2.4) 47 (1.5)	21 (2.0) 19 (1.8)	16 (1.9) 18 (1.5) 201 (4.6) 193 (3.5)
HS non-graduate State	206 (4.8) 204 (4.1) 23 (4.0) 22 (4.6)	216 (2.4) 215 (2.7) 44 (5.2) 47 (6.1)	214 (2.7) 205 (3.1) 19 (4.0) 15 (3.5)	14 (3.7) 16 (3.7)
Nation	19 (2.9) 18 (2.2)	40 (3.5) 46 (3.5) 203 (4.3) 194 (4.9)	18 (2.4) 19 (3.1)	22 (2.6) 17 (2.8) (**) (**)
i don't know State	12 (1.4) 13 (1.3) 203 (3.1) 195 (3.9)	47 (1.9) 44 (1.7) 213 (1.7) 208 (2.4)	23 (1.3) 25 (1.3) 211 (2.3) 211 (2.8)	18 (1.4) 18 (1.3) 199 (3.1) 196 (2.9)
Nation	13 (0.9) 14 (1.0)	48 (1.1) 45 (1.2)	21 (12) 21 (12) 212 (21) 211 (23)	18 (1.0) 20 (1.2) 199 (2.5) 193 (3.2)
GENDER	206 (2.9) 193 (2.9) <	213 (1.9) 213 (1.7)	212 (2.1) 211 (2.3)	199 (2.0) 190 (3.2)
Male State	13 (1.1) 15 (1.0) 211 (2.7) 202 (4.1)	43 (14) 43 (14) 218 (16) 213 (22)	27 (1.2) 25 (1.1) 217 (1.9) 215 (2.6)	17 (1.0) 16 (1:0) 202 (2.2) 199 (2.7)
Nation	13 (0.7) 15 (0.7) 206 (2.8) 199 (2.6)	46 (1.1) 44 (1.1) 215 (1.6) 216 (1.6)	24 (1.2) 23 (1.0) 216 (1.7) 212 (2.4)	16 (0.9) 19 (1.0) 200 (2.3) 193 (2.2)
Female State	16 (1.1) 16 (1.1) 217 (2.6) 214 (3.0)	52 (1.3) 50 (1.5) 222 (1.8) 221 (1.7)	21 (1.0) 22 (1.3) 222 (1.8) 223 (2.7)	11 (0.9) 12 (0.9) 207 (3.4) 205 (3.2)
Nation	18 (1.0) 17 (0.7) 216 (1.9) 213 (2.4)	51 (1.2) 51 (0.9) 223 (1.5) 224 (1.4)	19 (10) 19 (0.9) 222 (2.2) 219 (2.1)	14 (0.9) 13 (0.7) 205 (2.3) 205 (3.4)
SCHOOL TYPE				
Public State	== (==) 15 (0.8) == (==) 208 (2.9)	== (==) 47 (1.1) == (==) 218 (1.4)	== (==) 24 (1.0) == (==) 219 (1.9)	== (==) 14 (0.8) == (==) 202 (2.3)
Nation	(==.=) 16 (0.5)	=== (===) 47 (°0.8)	=== (==.=)	=== (==,=) 16 (0.7)
Non-Public State			(==) 31 (5.1)	45/(25)
Nation	== (==) 11 (22) == (==) (==) == (==) 10 (1.3) == (==) 224 (5.0)	== (===) 48 (2.6)	=== (====) 29 (1.9)	=== (===) 13 (1.6)
Combined State		== (===) 47 (11)	== (===) 24 (0.9)	=== (==.=) 14 (0.8)
Nation	== (==) 15 (0.8) == (==) (**-*) == (==) 15 (0.5)	= (==) (·) = (==) 47 (0.7)	= (=) 22 (0.7)	(==) ***(***) ==(==) *15 (0.5)

=== School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. *** Sample size is insufficient to permit a reliable estimate.





TABLE D8.4

Public School Students' Reports on Types of Reading Materials in the Home

1994 Trial State Assessment

Zero to T	wo Types	Three	Types	Four	Types
1992	1994	1992	1994	1992	1994

	- 0.50 temberary warrant days a see					
			Percentage a	nd Proficiency		
<u>TOTAL</u>						
State	28 (1:0) 206 (1:5)	30 (1.3) 200 (2.1) <	36 (0.9) 217 (1.6)	33 (1.1) 215 (1.6)	36 (1.2)	37 (1.7)
Nation	33 (0.9) 203 (0.9)	30 (0.9) 196 (1.5) <	32 (0.7) 217 (1.5)	34 (0.7)	224 (1.2) 36 (1.0)	224 (1.6) 36 (0.9)
RACE/ ETHNICITY	200 (0.0)	130 (133) €	217 (13)	214 (1.3)	224 (1.4)	225 (1.2)
White State	23 (1.2)	23 (1.5)	37 (1.0)	34 (1.4)	40 (1.4)	43 (2.1)
Nation	213 (1.6) 26 (1.0) 213 (1.5)	211 (2.1) 24 (1.0) 208 (1.8)	221 (1.5) 33 (0.8) 225 (1.9)	224 (1.6) 35 (0.9) 222 (1.8)	228 (1.1) 41 (1.3) 228 (1.6)	228 (1.5) 40 (1.2)
Black State	39 (3.9)	50 (5.7)	37 (4:2)	27 (4.3)	24 (4.5)	233 (1.5) 23 (4.2)
Nation	49 (2.2) 187 (2.4)	188 (5.8) 39 (2.4) < 179 (2.0)	28 (1.5) 193 (2.7)	32 (1.5) 186 (2.4)	23 (2.0) 201 (2.4)	28 (2.0)
Hispanic	,		,	.50 (12.7)	EU1 (2.4)	195 (2.8)
State	43 (2.0) 195 (2.5)	43 (2.0) 184 (3.1)	32 (1.9) 206 (2.5)	33 (2.0) 194 (2.8) <	25 (1.9) 211 (3.1)	24 (1.8) 208 (3.1)
Nation	47 (1.9) 190 (2.5)	46 (2.6) 176 (3.5) <	32 (2.1) 205 (2.8)	28 (2.1) 198 (3.1)	21 (1.8)	26 (1.7)
American Indian			200 (2.0)	130 (3.1)	213 (3.7)	201 (3.7)
State	24 (4.5)	48 (4.6) >	43 (5.0)	26 (.3.7)	33 (6.1)	27 (4.4)
Nation	34 (4.0)	40 (3.4)	32 (4.8)	35 (3.5) *** (***)	34 (4.7)	25 (3.7)
TYPE OF LOCATION						
Central City						
State	33 (1.9) 201 (2.6)	32 (2.8)	34 (1.1)	32 (1.6)	33 (1.6)	37 (3.0)
Nation	40 (1.7) 196 (1.6)	192 (3.7) 33 (1.7) 189 (2.6)	211 (3.0) 33 (1.4) 210 (2.5)	210 (2.8) 31 (0.9) 204 (2.5)	220 (2.0) 28 (1.6)	223 (2.7) 35 (1.7) >
Urb Frng/Lrg Town	,		-10 (2-3)	204 (2.5)	220 (1.9)	217 (2.6)
State	23 (1.5) 210 (2.2)	26 (1.8) 202 (3.7)	37 (1.4) 220 (2.3)	33 (1.7) 216 (2.7)	40 (1.9) 226 (1.9)	41 (2.8) 224 (2.2)
Nation	28 (1.6) 207 (2.3)	27 (1.2) 201 (3.1)	32 (1.2) 222 (2.5)	35 (1.1) 221 (1.9)	39 (1.8) 227 (2.7)	38 (1.5) 280 (2.1)
Rural/Small Town			,			E00 (Z.1)
State	31 (2.8) 207 (4.2)	35 (2.4) 207 (2.6)	37 (1.8) 220 (2.8)	34 (2.5) 220 (3.5)	33 (3.4) 227 (2.7)	31 (2.6) 226 (4.0)
Nation	30 (2.4) 207 (2.5)	31 (2.1) 200 (2.6)	30 (1.0) 220 (3.1)	35 (1.5) 214 (2.7)	40 (2.6) 223 (2.9)	34 (2.0) 227 (2.1)
					***************************************	**************************************

(continued on next page)





TABLE D8.4 (continued)

Public School Students' Reports on Types of Reading Materials in the Home

1994 Trial State Assessment

Zero to T	wo Types	Three	Types	Four	Types
1992	1994	1992	1994	1992	1994

			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate State	18 (1.2)	18 (1.3)	35 (1.5)	34 (1.7)	47 (1.8)	48 (2.1)
Nation	214 (2.8)	205 (2.8)	224 (2.0)	219 (2.1)	229 (1.7)	230 (1.6)
	21 (1.2)	18 (1.0)	30 (1.0)	33 (1.2)	49 (1.2)	49 (1.5)
	206 (2.2)	205 (2.8)	223 (2.1)	220 (1.8)	230 (1.8)	230 (1.5)
Some ed after HS	21 (2.5)	25 (3.1)	39 (3.6)	.36 (3.1)	41 (2.8)	39 (3.7)
State	217 (3.8)		220 (3.3)	223 (4.9)	230 (3.8)	224 (4.3)
Nation		24 (3.3) 211 (4.1)	32 (2.3) 222 (3.4)	38 (2.7) 221 (3.4)	36 (2.4) 230 (3.5)	38 (2.6) 230 (2.7)
HS graduate	35 (2.5)	35 (2.8)	37 (2.5)	36 (2.8)	28 (2.5)	30 (2.7)
State	206 (3.8)	208 (4.7)	208 (3.6)	217 (3.8)	219 (2.7)	214 (6.2)
Nation	36 (2.2)	33 (2.0)	32 (2.0)	39 (1.7)	32 (2.5)	28 (1.9)
	204 (2.5)	195 (3.0)	214 (3.6)	212 (3.2)	215 (2.3)	212 (3.2)
HS non-graduate State	45 (5.6)	56 (4.5)	40 (4.8)	29 (4.0)	15 (3.6)	16 (3.7)
Nation	63 (4.0) 192 (3.2)	58 (3.3) 181 (4.6)	26 (3.2) 202 (6.2)	27 (2.2) 193 (6.0)	12 (23)	15 (3.1)
I don't know	38 (1.7)	42 (2.1)		31 (1.6)	27 (1.6)	27 (1.9)
State	200 (2.3)	195 (2.4)		208 (2.9)	215 (1.8)	215 (3.0)
Nation	40 (1.5) 200 (1.6)	41 (1:3) 193 (1:9)	34 (1.1) 215 (2.3)	33 (11) 209 (1.9)	26 (1.4) 216 (2.1)	27 (1.4)
GENDER						
Male	26 (1.3)	27 (1:4)	35 (1:3)	33 (1.3)	38 (1.5)	39 (1.9)
State	203 (1.9)	193 (2:8) <	214 (2:1)	210 (2.6)	221 (1.4)	221 (1.9)
Nation	31 (1:1)	28 (1.0)	32 (1.1)	34 (1.0)	38 (1.4)	38 (12)
	196 (1:7)	186 (1.6) <	213 (2.0)	208 (1.9)	221 (1.7)	220 (15)
Female	30 (1.2)	32 (1.8)	36 (0.9)	33 (1.4)	34 (1.4)	36 (2.2)
State	209 (1.8)	205 (2.5)	220 (1.9)	220 (2.0)	229 (1.9)	228 (1.8)
Nation	34 (13)	32 (1.3)	32 (0.9)	33 (1.0)	34 (1:1)	35 (12)
	267 (12)	203 (1.8)	222 (1.6)	221 (1.4)	228 (1:7)	231 (1.6)

SCHOOL TYPE						
Public						
State	()	30 (1.3)	()	33 (1.1)	()	37 (1.7)
	(:-)	200 (2.1)	()	215 (1.6)		224 (1.6)
Nation	— (==)	30 (0.9)	(<u>-</u>)	34 (0.7)	()	36 (0.9)
	=== (===)	196 (1.5)	===(==;=)	214 (1.3)	. ==== (==,=)	225 (1.2)
Non-Public						
State	 ()	7 (1.6)	=== (===)	33 (4.0)	=== (== <u>=</u>)	60 (4.7)
	·=== (==,=)	(***)	()	**** (**.*)	==== (===,=)	241 (6.3)!
Nation	=== (===)	16 (1.6)		34 (1.7)	(i)	49 (2.3)
	=== (==,=)	220 (4.3)	== (===)	229 (3.5)	=== (==,=)	236 (2.2)
Combined						
State	==== (== <u>,</u> =)	28 (1.3)	- (==,=)	33 (1.1)	====(===,=)	39 (1.7)
	=== (==.=)	*** (**.*)	(=)	**** (**.*)	(=)	226 (1.5)
Nation	()	29 (0.9)	·==(===)	34 (0.7)	()	38 (0.8)
	(:-)	197 (1.4)	()	216 (1.2)	=== (==,=)	227 (1.1)
					•	•

⁼⁼⁼ School type results are not presented for 1992 since state-level non-public school data were not collected.

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The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. *** Sample size is insufficient to permit a reliable estimate.



TABLE D8.5

Public School Students' Reports on Talking With Friends and Family About Reading

 Almost Every Day
 Once or Twice a Week
 Less Than Weekly

 1992
 1994
 1992
 1994

				-		4
			Percentage a	nd Proficiency		
<u>TOTAL</u>						
State	28 (0.8)	31 (1.0)	37 (0.9)	37 (1.0)	36 (0.9)	32 (1,1)
	215 (1.7)	213 (1.7)	223 (1.3)	220 (1.7)	212 (1.4)	209 (1.9)
Nation	27 (0.7)	28 (0.7)	35 (1.0)	35 (0.7)	38 (1.2)	37 (0.8)
RACE/ ETHNICITY	213 (1.5)	211 (1.4)	222 (1.2)	221 (1.4)	210 (1:3)	208 (1.5)
White						
State	26 (1.1)	30 (1,2)	39 (1.2)	39 (1.2)	35 (1.1)	31 (1.4)
	221 (1.9)	222 (1.9)	228 (1.2)	228 (1.7)	216 (1.4)	217 (2.1)
Nation	24 (D.8)	25 (0.9)	38 (1.3)	37 (0.8)	39 (1.5)	38 (1.1)
Black	224 (1.9)	223 (1.7)	230 (1.4)	230 (1.7)	217 (1.6)	216 (1.7)
State	35 (3.9)	29 (-4.2)	31 (4.1)	34 (4.1)	24450	07/07
5.2.15	*** (****)	- (-,)	*** (***)		34 (5.0)	37 (3.7) *** (***)
Nation	35 (1.5)	38 (1.7)	27 (1.6)	31 (1.8)	36 (1.7)	31 (1.4)
111	193 (2.0)	187 (2.5)	196 (3.7)	192 (2.1)	190 (2.6)	183 (2.4)
Hispanic State	31 (2.0)	20 (4.0)	20.62.0			
State	203 (2.5)	32 (1.9) 192 (2.8)	30 (2.2) 207 (2.7)	35 (1.9) 198 (3.6)	38 (2.5)	33 (2.3)
Nation	31 (1.9)	33 (1.7)	34 (1.6)	29 (1.4)	199 (2.3) 35 (1.9)	190 (2.8) 38 (1.9)
	199 (2.4)	189 (3.7)	204 (3.2)	192 (4.1)	198 (2.6)	187. (3.4)
American Indian					` '	
State	48 (6.1)	38 (4.5)	25 (5.7)	27 (3.8)	28 (5.6)	35 (3.4)
Nation	30 (5.5)	26 (4.3)	22 (4.0)	34 (4.1)	49 (4.9)	TT (TT.)
	(5)	= (= j'	= (=5)	- ()	*** (****)	40 (4.3)
TYPE OF	· ·	•	` ''		()	(-)
LOCATION						
Central City						
State	29 (1.3) 207 (2.6)	31 (2.1) 207 (3.5)	36 (1.7)	38 (1.6)	35 (2.1)	31 (1.9)
Nation	29 (1.3)	30 (1.2)	218 (2.3) 32 (1.1)	215 (3.5) 33 (1.4)	208 (2.3) 39 (1.7)	206 (2.7)
	205 (2.2)	202 (2.5)	214 (2.3)	211 (2.6)	205 (1.6)	37 (1.3) 202 (2.5)
Urb Frng/Lrg Town						
State	28 (1.2)	31 (1.3)	37 (1.3)	37 (1.7)	35 (1,2)	32 (1.6)
Nation	219 (2.4) 25 (1.1)	215 (2.8) 27 (1.1)	227 (1.7)	223 (2.4)	214 (2.1)	210 (3.2)
	219 (3.0)	217 (2.7)	37 (1.6) 226 (2.2)	37 (0.9) 227 (2.1)	38 (1.5) 215 (2.5)	36 (1.3) 214 (2.4)
Rural/Small Town			,,		-13 (2.3)	E14 (2.4)
State	25 (2.1)	29 (1.9)	38 (2.1)	38 (2.2)	37 (2.0)	33 (2.3)
Nation	217 (3.3)	216 (3.6)	224 (3.4)	222 (3.7)	215 (3.3)	212 (3.9)
Hauon	27 (1.2) 216 (3.4)	28 (1.7) 214 (3.8)	36 (1.8) 226 (2.9)	34 (1.1)	37 (2.3)	38 (1.9)
	0(0.4)	214 (3.0)	EZO (Z.8)	223 (.3.3)	211 (2.8)	207 (2.7)

(continued on next page)





TABLE D8.5 (continued)

Public School Students' Reports on Talking With Friends and Family About Reading

1994 Trial State Assessment

Almost E	very Day	Once or Tw	rice a Week	Less Tha	n Weekly
1992	1994	1992	1994	1992	1994

			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate	29 (1.3)	32 (1.4)	40 (1.4)	39 (1.3)	31 (1.5)	28 (1.2)
State	222 (2.4)	222 (1.9)	231 (1.5)	227 (2.0)	220 (1.8)	215 (2.3)
Nation	.27 (1.0)	30 (0.9)	40 (1.5)	38 (1.1)	33 (1.6)	33 (1.1)
	221 (2.2)	219 (2.0)	230 (2.0)	231 (1.7)	218 (2.2)	217 (2.1)
Some ed after HS	29 (2.5)	31 (3.6)	36 (2.9)	41 (3.1)	36 (3.1)	28 (3.1)
State	218 (4.2)	213 (5.1)	230 (3.0)	228 (4.7)	221 (3.4)	
Nation	28 (2.6)	28 (2.5)	36 (2.0)	41 (2.6)	36 (2.2)	31 (2.2)
	221 (4.3)	215 (4.1)	228 (3.2)	227 (3.0)	216 (3.2)	223 (3.3)
HS graduate	26 (2.0)	27 (2.4)	38 (2.2)	35 (3.4)	35 (2.5)	38 (3.3)
State	208 (3.6)	210 (6.0)	213 (3.3)	217 (4.8)	209 (3.4)	213 (4.3)
Nation	31 (1.9)	32 (2.2)	31 (2.2)	32 (2.0)	38 (2.5)	36 (2.0)
	210 (3.7)	207 (3.8)	219 (3.4)	212 (2.9)	207 (2.7)	.205 (2.5)
HS non-graduate State	26 (4.3) (***)	28 (4.6)	36 (4.4)	41 (4.9)	37 (4.8)	31 (5.3)
Nation	32 (3.8)	27 (3.2)	27 (2.9)	27 (2.8)	41 (4.1)	46 (3.4)
	201 (4.8)	191 (6.0)	200 (4.9)	192 (7.2)	195 (4.6)	184 (5.9)
I don't know	27 (1.5)	29 (1.6)	33 (1.6)	34 (1.8)	40 (1.5)	36 (1.8)
State	208 (2.6)	201 (2.9)	216 (2.1)	211 (2.9)	203 (1.9)	201 (2.4)
Nation	24 (1.1)	25 (1:1)	33 (1.5)	33 (1.0)	43 (1.4)	42 (1.5)
	206 (2.7)	203 (2:2)	215 (1.7)	212 (2.0)	207 (1.5)	202 (1.9)
<u>GENDER</u>						
Male State	24 (1.0)	27 (1.3)	34 (1.3)	35 (1.5)	42 (1.4)	38 (1.6)
Nation	212 (1.9)	209 (2.8)	220 (1.7)	213 (2.4)	211 (1.7)	207 (2.4)
	24 (1.0)	25 (0.9)	33 (1.6)	32 (0.8)	43 (1.7)	42 (1.1)
	209 (2.1)	205 (1.9)	219 (1.7)	217 (1.8)	206 (1.7)	203 (1.9)
Female	209 (2.1)	205 (13)	219(11)	217 (1.0)	200 (1.7)	200 (1.5)
State	31 (1.0)	34 (1.4)	40 (1.1)	40 (1.3)	29 (1.1)	27 (1.3)
Nation	217 (2.3)	215 (1.9)	226 (1.6)	225 (2.0)	214 (1.7)	212 (2.1)
	29 (1.0)	31 (1.0)	38 (1.0)	38 (0.9)	33 (1.0)	31 (1.0)
	217 (1.5)	215 (1.9)	226 (1.3)	224 (1.7)	214 (1.5)	215 (1.8)
SCHOOL TYPE	1					

SCHOOL TYPE						
Public						
State	()	31 (1.0)	()	37 (1.0)	()	32 (1.1)
	·(:-)	213 (1.7)	(==,=)	220 (1.7)	(==;=)	209 (1.9)
Nation	(-:-)	28 (0.7)	=== (==:=)	35 (0.7)	===(===)	37 (0.8)
	()	211 (1.4)		221 (1.4)	()	208 (1.5)
Non-Public						
State	()	27 (4.2)	()	41 (5.1)	—(—)	32 (6.4)
	()	()	()	(":")	()	-(-)
Nation	()	25 (13)		40 (1.4)	 ()	33 (1.6)
Combined	()	231 (2.9)	=== (==,=)	236 (2.7)	=== (===)	225 (3.4)
State	()	30 (1.0)	(<u></u>)	38 (1.0)	====(==,=)	32 (1.1)
	()	···· (**.*)	(=)	*** (****)	===(=:=)	*** (**.*)
Nation	()	28 (0.6)	()	36 (0.6)	()	36 (0.7)
	(;-)	213 (1.3)	()	223 (1.2)	(=)	210 (1.5)

=== School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. *** Sample size is insufficient to permit a reliable estimate.

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TABLE D8.6

Public School Students' Reports on the Amount of Time Spent Watching Television Each Day

1994 Trial State Assessment

One Hou	r or Less	Two I	Hours	Three	Hours
1992	1994	1992	1994	1992	1994

			<u> </u>		_	L
			Percentage a	nd Proficiency		
TOTAL						
State	24 (1.0)	26 (1.0)	23 (0.9)	24 (0.8)	17 (0.7)	18 (0.7)
A1-4'	219 (1.7)	218 (2.0)	222 (1.7)	220 (2.2)	219 (1.7)	216 (1.8)
Nation	18 (0.8) 219 (1.9)	19 (0.7)	21 (0.9)	21 (0.6)	19 (0.7)	16 (0.5) <
RACE/ ETHNICITY	218 (1.8)	217 (2.2)	222 (1.6)	220 (1.4)	222 (1.3)	219 (1.6)
White						
State	26 (12)	28 (1.2)	24 (1.1)	26 (1.0)	17 (0.7)	19 (0.9)
A1-2	224 (1.8)	226 (2.4)	226 (1.9)	225 (2.4)	223 (1.7)	223 (2.2)
Nation	19 (1.1)	21 (1.0)	23 (1.2)	24 (0.7)	21 (1.0)	18 (0.7)
Black	225 (2.2)	226 (2.1)	229 (1.6)	227 (1.5)	227 (1.5)	226 (1.8)
State	12 (2.3)	14 (2.9)	16 (3.4)	11 (2.1)	17 (3.5)	17 (3.4)
	*** (****)	*** (**.*)	(***)	*** (****)	*** (**.5)	··· (***)
Nation	12 (1.4)	10 (1.0)	11 (1.0)	11 (1.0)	12 (1.2)	10 (1.0)
Hispanic	195 (-4:0)	186 (4.2)	191 (3.7)	190 (4:0)	198 (-4.9)	189 (3.6)
State	21 (2:0)	23 (1.9)	21 (2.1)	21 (1.6)	17 (1.5)	15 (1.6)
	201 (3.5)	193 (4.1)	210 (2.6)	203 (4.1)	204 (3.5)	194 (4.5)
Nation	16 (1.2)	19 (1.5)	20 (1.8)	16 (1:6)	14 (1.4)	14 (1.3)
American Indian	198 (4.6)	- 187 (-4.9)	204 (4.0)	190 (4.3)	204 (3.7)	198 (5.1)
State	13 (4.1)	21 (3.5)	22 (4.8)	23 (3.7)	23 (5.4)	12 (3.9)
	(****)	*** (** *)	(***)	(== (***(***)	12 (5.3)
Nation	18 (3.9)	16 (3.3)	13 (3.6)	19 (3.6)	15 (4:0)	17 (3.9)
TYPE OF	*** (**.*)	(1.1)	(***)	(".")	(***)	(***)
LOCATION						
Central City						
State	21 (1.7)	25 (1.6)	21 (1.5)	23 (1.4)	16 (1.3)	19 (1.2)
	213 (13.4)	215 (3.9)	214 (2.5)	216 (13.8)	213 (4.0)	212 (3.2)
Nation	17 (1.3)	17 (1.3)	17 (1.2)	19 (1.1)	17 (1.4)	16 (1.1)
Urb Frng/Lrg Town	210 (2.5)	210 (3.5)	213 (2.7)	214 (3.7)	215 (3.2)	212 (3.0)
State	26 (1:5)	25 (1.4)	23 (1.6)	25 (1,4)	18 (1.1)	18 (1.1)
	222 (2.3)	.220 (3.4)	226 (2.8)	221 (3.5)	221 (2.3)	218 (2.4)
Nation	19 (1.6)	20 (1.2)	22 (1.4)	21 (0.9)	20 (1.2)	16 (0.6)
Rural/Small Town	225 (4.1)	223 (3.8)	227 (2.7)	226 (2.1)	226 (2.2)	225 (2.2)
State	24 (*2.4)	32 (2.5)	25 (1.2)	25 (1.6)	17 (1.3)	16 (2.1)
	219 (4.0)	217 (4:6)	225 (3.5)	224 (3.4)	220 (3.3)	218 (5.5)
Nation	17 (1.4)	19 (1.3)	22 (1.3)	23 (1.6)	20 (1.4)	18 (1.1)
	219 (2.5)	216 (2.8)	222 (2.2)	218 (3.2)	224 (2.7)	218 (2.2)

(continued on next page)



THE NATION'S REPORT CARD

TABLE D8.6 (continued)

Public School Students' Reports on the Amount of Time Spent Watching Television Each Day

1994 Trial State Assessmen

One Hou	r or Less	Two I	Hours	Three	Hours
1992	1994	1992	1994	1992	1994

			D	- 4 D - E - :		
			Percentage a	nd Proficiency		
PARENTS' EDUCATION						
College graduate		20 4	24 (4.0)	04.14.00	40/00	40/40
State	26 (1.4) 229 (2.2)	32 (1.4) 228 (2.1)	24 (1.3) 230 (2.0)	24 (1.3) 229 (3.1)	19 (0.9) 223 (2.5)	18 (1:3) 219 (2:7)
Nation	20 (1.3)	21 (1.3) 232 (2.7)	22 (1.2) 230 (2.3)	22 (1.1) 229 (1.8)	19 (1.4) 231 (2.2)	17 (0.9)
Some ed after HS	231 (2.9)	232 (2.1)	230 (2.3)	228 (1.0)	201 (2.2)	528 (2.2)
State	23 (2.5)	23 (2.9)	22 (2.4)	24 (-2.6)	18 (2.6)	17 (2.3)
Nation	226 (3.9) 14 (1.9)	15 (2.0)	227 (4.0) 26 (2.6)	20 (2.2)	19 (2.0)	22 (23)
1444011	226 (5.1)	222 (6.2)	225 (4.3)	225 (3.9)	228 (3.4)	227 (3.9)
HS graduate State	22 (2.3)	16 (2.1)	23 (2.4)	23 (2.6)	16 (2.2)	21 (2.6)
State	208 (4.4)	(-1)	214 (3.5)	20 (2.5)	(***)	(,-)
Nation	14 (1.5)	15 (1.5)	16 (1.9) 218 (4.0)	20 (1,5) 215 (3.7)	23 (2.1) 217 (3.3)	15 (1.5) 213 (3.3)
HS non-graduate	209 (4.3)	206 (4:1)	218 (4.0)	213 (3.1)	211 (3.3)	210 (0.0)
State	28 (4.4)	22 (4.1)	14 (3.0)	21 (4.4)	16 (4.7)	15 (3.9)
Nation	15 (3.1)	16 (2.7)	17 (3.1)	18 (2.9)	19 (2.8)	16 (2.6)
	()	(".")	()	(".")	(**.)	(".")
I don't know State	22 (1.5)	23 (1.5)	22 (1.2)	25 (1.2)	16 (1.1)	18 (1.2)
	209 (2.8)	205 (3.3)	214 (2.4)	209 (3.0)	214 (2.8)	210 (3.2)
Nation	18 (0.9) 209 (2.6)	18 (0.9) 205 (2.4)	20 (1.3) 216 (2.0)	20 (1.0) 213 (2.3)	17 (1.0) 214 (2.3)	.16 (0.8) 210 (3.1)
<u>GENDER</u>	200 (2.0)	200 (2.4)	2.0 (2.0)	210 (210)	21. (22)	210 (2.7
Male						
State	22 (1:3) 216 (2:3)	23 (1.4) 212 (3.2)	21 (1.1) 218 (1.5)	23 (1.2) 214 (2.6)	18 (1.1) 216 (2.4)	19 (1.1) 212 (2.3)
Nation	17 (1.0)	16 (0:8)	20 (1.1)	19 (0.8)	19 (1.0)	15 (0.6) <
Female	215 (2.6)	214 (3.1)	218 (2.1)	216 (1.9)	218 (1.8)	213 (2.5)
State	26 (1.5)	29 (1.6)	24 (1.3)	26 (1.2)	17.(1.1)	17 (1:0)
Nation	222 (2.2)	222 (2.5)	225 (2.5)	225 (2.8)	221 (2.4) 19 (1.1)	221 (2.5) 17 (0.9)
Nation	19 (1.3) 223 (2.2)	21 (1.1) 221 (2.6)	22 (1.0) 226 (2.0)	22 (0.9) 224 (1.7)	226 (1.6)	225 (1.8)
		TO THE PARTY OF TH	s mente de la compania de la compan			

SCHOOL TYPE						
Public						
State	()	26 (1.0)		24 (0.8)	==(==)	18 (0.7)
	()	218 (2.0)	=== (==,=)	220 (2.2)	()	216 (1.8)
Nation	(===)	19 (0.7)	:==(=:=)	21 (0.6)	(==)	16 (0.5)
	(===)	217 (.2.2)	-==(==)	220 (1.4)	()	219 (1:6)
Non-Public						
State	— (—)	36 (6.7)	(<u>-</u>)	22 (6.2)	()	24 (5.7)
	— (—=)	("")	()	(".")	— (—,-)	- (-)
Nation	()	25 (1.9)		23 (1.5)	[()	18 (1.1)
A	==(==)	236 (3.4)	=== (===)	238 (3.0)	(===(===)	234 (3.7)
Combined						40 (00)
State	()	27 (1.1)	· ()	24 (-0.8)	()	18 (0.8)
81 - 41	()	77(72)	()	~ (***)	 ()	
Nation	()	19 (0.7)		21 (10.6)	———	17 (0.5) 221 (1.6)
	(- -)	220 (1.9)	== (===)	222 (1.3)	== (===)	221 (1.9)

== School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. *** Sample size is insufficient to permit a reliable estimate.





TABLE D8.6 (continued)

Public School Students' Reports on the Amount of Time Spent Watching Television Each Day

1994 Trial State Assessment

Four to Five Hours		Six Hours or More		
1992	1994	1992	1994	

		Percentage a	nd Proficiency	
<u>TOTAL</u>				
State	21 (1.0)	18 (:0.9)	15 (1.0)	13 (1.0)
Nation	217 (1.5) 22 (0.9)	212 (2.1) 22 (0.8)	203 (2.4) 21 (0.8)	194 (2.7) 22 (0.7)
RACE/ ETHNICITY	215 (1.5)	215 (1.8)	198 (1.7)	193 (1.6)
White State	21 (1.3)	17 (1.0)	13 (0.8)	9 (0:8) <
Nation	220 (1.6) 22 (1.0)	220 (2.4) 22 (1.0)	210 (2.4) 14 (0.9)	206 (3.2) 15 (0.9)
Black	221 (1.9)	224 (2.0)	207 (2.9)	206 (2.4)
State	21 (3.9)	21 (4.1)	34 (5.5)	38 (7.0)
Negar	***(***)	()	*** (**.*)	***(***)
Nation	19 (1.4) 197 (2.7)	21 (1.8) 190 (3.7)	45 (1.9) 188 (2.4)	47 (1.8) 182 (2.1)
Hispanic				(4.00)
State	20 (1.6) 208 (3.2)	23 (2.3) 193 (3.9)	21 (2.1) 190 (3.8)	18 (2.2) 181 (3.8)
Nation	21 (1.6)	23 (1.5)	28 (1.8)	28 (1.6)
American Indian	200 (3.1)	195 (4.6)	193 (3.7)	177 (3.2) <
State	29 (5.0)	14 (3.0)	13 (4.1)	30 (3.9) >
Nation	30 (5.2)	17 (3.3)	24 (4.6)	31 (3.8)
	··· (··· •)	()	= (7.5)	# (#*)
TYPE OF LOCATION				
Central City				
State	-22 (1.6) 215 (2.4)	17 (1.2)	20 (2.5)	16 (2.0)
Nation	22 (12)	208 (3.8) 22 (1.3)	197 (3.7) 26 (1.3)	187 (4.7) 27 (1.9)
Urb Frna/Lra Town	210 (2.2)	206 (3.2)	193 (2.1)	184 (2.6)
State	19 (1.6)	20 (1.4)	14 (1.1)	13 (1.6)
Nation	219 (2.5)	213 (3.5)	206 (3.5)	199 (4:1)
	21 (1.4) 217 (2.4)	22 (1:0) 221 (2:4)	18 (1.2) 199 (2.6)	21 (1.2) 201 (2.3)
Rural/Small Town State	21 (2.2)			
State	21 (2.2) 214 (3.3)	18 (1.8) 213 (4.7)	12 (1.3) 209 (4.8)	9 (1.5)
Nation	22 (1.0) 217 (2.9)	22 (1.6)	19 (2.0)	18 (1.9)
	211 (23)	219 (3.8)	203 (4.7)	194 (3.1)

(continued on next page)





TABLE D8.6 (continued)

Public School Students' Reports on the Amount of Time Spent Watching Television Each Day

1994 Trial State Assessment

Four to F	ive Hours	Six Hours or More		
1992	1994	1992	1994	

	Percentage and Proficiency			
PARENTS' EDUCATION	1000			
College graduate State	19 (1.2)	16 (1.1)	12 (1:1)	11 (1.0)
Nation	223 (2.1) 19 (1.0) 221 (2.6)	218 (2.9) 21 (1.1) 221 (2.6)	211 (3.1) 19 (1.2) 201 (2.4)	19 (0.9)
Some ed after HS State	22 (3.4) 226 (3.6)	19 (2.7)	14 (2.5)	16 (2.9)
Nation	24 (2.3) 225 (4.1)	25 (2.6) 228 (3.8)	18 (2.3) 201 (3.9)	
HS graduate State	23 (2.4)	23 (3.0) 220 (6.3)	17 (2.3)	17 (2.4)
Nation	28 (1.9) 212 (3.0)	24 (1.8) 211 (4.2)	19 (1.9) 196 (4.0)	26 (1.7) 192 (3.7)
HS non-graduate State	23 (4.6)	24 (4.1)	19 (4.2)	19 (4.7)
Nation	18 (2.7) (***)	23 (2.6)	31 (3.8) 190 (5.2)	27 (2.7) 179 (8.9)
I don't know State	21 (1.5) 208 (2.8)	20 (1.4) 203 (3.1)	19 (1.3) 197 (3.0)	14 (1.3) 189 (3.5)
Nation	22 (1.4) 210 (2.0)	22 (1.2) 210 (2.2)	22 (1.0) 196 (2.2)	24 (1.1) 186 (2.5)
<u>GENDER</u> Male				
Male State	20 (1:4) 215 (2:0)	19 (1.2) 210 (2.9)	19 (1.3) 203 (2:9)	16 (1.2) 192 (3.2)
Nation	22 (1.0) 213 (1.8)	23 (1.0) 210 (2.1)	22 (1.0) 195 (1.9)	26 (1.0) > 190 (2.0)
Female State	.21 (1.4) 218 (2.1)	18 (1.2) 213 (2.8)	12 (1.2) 202 (3.1)	11 (1.1) 197 (4.1)
Nation	21 (1.2) 218 (1.9)	21 (1.1) 221 (2.3)	19 (1:0) 201 (2:3)	18 (0.9) 197 (2.2)

SCHOOL TYPE				
Public				
State	==(==)	18 (0.9)	()	13 (1.0)
	— (— .=)	212 (2.1)	()	194 (2.7)
Nation	()	22 (0.8)	(22 (0.7)
	== (===)	215 (1.8)	()	193 (1.6)
Non-Public				
State	()	12 (4.2)	()	6 (2.3)
	()	()	()	()
Nation	== (==)	20 (1.5)	()	14 (2.5)
	=== (====)	226 (3.7)	()	216 (5.2)
Combined				
State	()	18 (0.9)	()	13 (1.0)
	()	**** (****)	=== (== <i>=</i>)	**** (****)
Nation	 ()	22 (0.7)	 ()	21 (0.7)
	(<i>-</i>)	216 (1.7)	(<i>-</i> -)	194 (1.4)

=== School type results are not presented for 1992 since state-level non-public school data were not collected.

The NAEP reading scale ranges from 0 to 500. The standard errors of the statistics appear in parentheses. It can be said with about 95 percent confidence that, for each population of interest, the value for the entire population is within \pm 2 standard errors of the estimate for the sample. In comparing two estimates, one must use the standard error of the difference (see Appendix A for details). If the notation > (<) appears, it signifies that the value for public school students in 1994 was significantly higher (lower) than the value for 1992 at about the 95 percent confidence level. *** Sample size is insufficient to permit a reliable estimate.



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The design, development, analysis, and reporting of the 1994 Trial State Assessment was a continuation of the collaborative effort that began in 1989 among staff from State Education Agencies, the National Center for Education Statistics (NCES), Educational Testing Service (ETS), Westat, and National Computer Systems (NCS). The Trial State Assessment Program continued to benefit from the contributions of hundreds of individuals at the state and local levels — governors, chief state school officers, state and district test directors, state coordinators, and district administrators — who provided their wisdom, experience, and hard work.

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The NAEP project at ETS is directed by Paul Williams and resides in the Center for the Assessment of Educational Progress (CAEP) managed by Archie Lapointe and Paul Williams. Steve Lazer managed the test development activities, and Jay Campbell and Patricia Donahue worked with the Reading Item Development committee to develop the assessment instruments. John Barone managed the data analysis activities; Jules Goodison and John Olson, the operational aspects; Clyde Reese and Karen Miller, reporting activities; and John Olson, state services and technical assistance. Statistical and psychometric activities were led by John Mazzeo, with consultation from Eugene Johnson. Sampling and data collection



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The large number of states and territories participating in the Trial State Assessment provided many challenges, including the need to develop different reports that are customized for each of the participating jurisdictions based on its characteristics and the results of its assessed students. To meet this challenge, a computerized report-generation system was employed that created text, tables, and graphics for each jurisdiction's unique report. This system, created by Jennifer Nelson, was designed to take advantage of mainframe computer speed and accuracy for the data computations, interfaced with high-quality text formatting and graphical output procedures. Laura Jerry led the computer-based development of the reading report. John Mazzeo and Nancy Allen oversaw the analyses for the reports, with significant input from Steve Isham. James Carlson, Hua Hua Chang, John Donoghue, John Ferris, David Freund, Frank Jenkins, Bruce Kaplan, Edward Kulick, Phillip Leung, Jo-lin Liang, Eiji Muraki, Craig Pizzuti and Spencer Swinton collaborated to generate the data, conduct the analyses, and check the results. Al Rogers developed and generated the maps.

Stephen Koffler, Jay Campbell, and John Mazzeo wrote the text for the report. Laura Jerry and Karen Miller coordinated the quality control and checking of the reports. Mary Michaels and Sharon Johnson were responsible for coordinating the cover design and final production of the reports. Finally, a special thanks is also due to the numerous reviewers, internal and external, who suggested improvements to the reports, and the individuals who thoroughly checked the data, text, tables, and maps.



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