

Appendix A

STATISTICAL SUMMARY OF THE 1998 NAEP SAMPLES¹

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A.1 INTRODUCTION

The analysis of the 1998 NAEP data has resulted in the production of thousands of tables presenting estimates of the scale score of students, and various subgroups of students, in American schools. This appendix provides a statistical summary of the 1998 NAEP national samples. The appendix assumes a general familiarity with the structure of NAEP as summarized in the Introduction and in the overviews presented in Chapters 1 and 9. Similar results for the individual state samples appear on the NCES website (<http://nces.ed.gov/nationsreportcard>).

Two of the many types of NAEP results are presented here:

1. the results of the instrument development process, including the sizes of the item pools and numbers of booklets; and
2. the results of the sampling process, including the numbers of students in each sample by selected subgroups.

A.2 MEASUREMENT INSTRUMENTS

For the 1998 assessment, 79 different assessment booklets and questionnaires were printed for grade 4, 99 for grade 8, and 98 for grade 12. These instruments are shown by age level and type in Table A-1.

The item pool contributing to all booklets is described in Table A-2. In general, there are two types of items, cognitive and noncognitive. The cognitive items are developed to measure proficiency in subject areas (reading, writing, and civics). Cognitive items may be constructed-response or multiple-choice. The noncognitive items are usually questions about the student's or teacher's backgrounds and perceptions but may also probe other areas, such as school policies or teaching methods. Because many items were used at more than grade class, the total number of items in an item pool is not the sum of the item pools used for the three grade classes.

The SD/LEP Student Questionnaires, Teacher Questionnaires, and School Characteristics and Policies Questionnaires contained only noncognitive questions. The number of items in the noncognitive pools is the same as the number of items on the questionnaires. More information about the instruments that were developed is provided in Chapters 2, 14, 18, and 22.

¹ Bruce A. Kaplan was responsible for the text, specifying the tables, and coordinating table production. Youn-Hee Lim, Ting Lu, and Michael Narcowich produced most of the tables in this chapter. The advice of David S. Freund and Nancy L. Allen was invaluable in the production of this chapter.

A.3 SAMPLE CHARACTERISTICS

In this section, the characteristics of the final reporting NAEP samples are described. The process by which the samples were selected is discussed in Chapters 3 (national) and 4 (state).

In the 1998 main assessment, NAEP contacted 2,866 schools (2,698 original and 168 replacements), of which 2,102 contributed data to the assessment. The disposition of these schools is shown in Table A-3. Some of the schools were unwilling to cooperate; others were believed to be eligible from the sampling frame, but were not. The cooperation rate is calculated as the sum of cooperating schools and the schools that were found to have no eligible students divided by the same sum plus the schools that refused or were from districts that refused to cooperate.

Table A-4 shows the number of schools in several categories: region of the country (Northeast, Southeast, Central, West), school type (public, nonpublic, Catholic, Bureau of Indian Affairs, Department of Defense Education Activity), type of location, number of teachers, and number of students.

The numbers of respondents to the teacher questionnaires are summarized in Table A-5. The first column in this table includes the number of teachers who responded, by grade and subject area. The second column is the number of students who were not linked to teachers. The third column is the number of students linked to teachers, but not specific classes of these teachers (for eighth grade) or teachers who did not answer classroom information (for fourth grade). The last column is the number of students linked to their teachers and their specific classes.

Table A-6 lists the total number of students assessed, accommodated, and excluded. This is done by grade crossed with subject area. Note that the number of accommodated students is included in the assessed students. No accommodations were offered in the reading reporting sample, the writing 50-minute sample, and the civics special trend sample. Also for reading, the numbers are for the reporting sample only.

Tables A-7 through A-9 display the distribution of the students assessed in the national and state NAEP assessment in several basic categories: gender, racial/ethnic grouping, region of the country, parental education, type of location, school type, modal age, and students with disabilities (SD), and students with Limited English Proficiency (LEP) status. These data are presented for assessed students in the reading samples in Table A-7, the writing samples in Table A-8, and the civics samples in Table A-9. Tables A-10, A-11, and A-12 provide equivalent information, respectively, for excluded students. Table A-13 for writing and Table A-14 for civics contain similar information for the accommodated students. The reading reporting sample, due to the necessity of linking to trend, did not contain students who were offered accommodations.

A.4 POPULATION ESTIMATES

The 1998 NAEP samples were designed for estimating the size and attributes of a number of different populations of students. The estimation procedures use sampling weights, developed by Westat, Inc., that are associated with the members of the sample (see Chapters 3 and 4). In this appendix, all estimates of population parameters are calculated using these sampling weights. Note these estimates are for the reporting samples (see Chapters 3 and 4 for an explanation of the reporting and modular samples).

The sum of the initial weights for a given sample is an estimate of the number of students who are in the population represented by the sample. In other words, the sum of the initial weights is taken as the estimated population size. In analyses, however, this sum of weights was rescaled to sum to the sample size. For example, in Table A-15, the estimated number of fourth graders in the nation is

3,588,382, as estimated from the main reading sample, as opposed to the 7,672 students in the sample given in Table A-7. The sum of the weights of the students in the state assessment estimate the total number of grade eligible students in the participating jurisdictions.

The sum of the weights of the excluded students estimates the number of ineligible students at the respective grade levels.

An estimate of the total number of students in a grade sample can be made by summing the initial weights of grade-eligible students plus the initial weights of grade-eligible students from the appropriate excluded student sample.

Tables A-15 to A-17 show the sizes of the estimated populations of assessable students and the weighted percentages for the NAEP reporting categories of gender, race/ethnicity, region of the country, parents' education level, type of location, school type, modal age and SD/LEP status. The estimated subpopulation percentages for the national and state samples are shown in Tables A-15 through A-17. Tables A-18 to A-20 show the estimated total population of excluded students and the weighted percentages by demographic subgroups (data about parents' education level is not collected for excluded students and therefore not reported; data about reasons for exclusion are included instead).

Tables showing selected scale score results for assessed students, as an aid to readers who are interested in the estimates of scale scores that led to the interpretive results provided in the NAEP subject area reports, can be accessed from Summary Data Tables posted on the National Center for Education Statistics website at <http://nces.ed.gov/nationsreportcard>.

Table A-1
Measurement Instruments Used in 1998 NAEP

	Grade 4	Grade 8	Grade 12
Total	78	98	97
Student Booklets			
Reading	16	19	20
Writing 25-Minute	40	40	40
Writing 50-Minute	—	3	3
Civics Main	18	32	32
Questionnaires			
SD/LEP	1	1	1
Teacher	2	2	—
School	1	1	1

Note: “—” indicates that this category was not applicable.

Table A-2
Number of Items Administered, by Sample and Age Class

	Grade 4	Grade 8	Grade 12
Common Background			
Reading	21	17	18
Writing 25-Minute	21	22	24
Writing 50-Minute	21	22	24
Civics Main	21	22	24
Reading			
Background	22	24	25
Cognitive	82	110	119
Motivation	5	5	5
Writing 25-Minute			
Background	17	28	28
Cognitive	20	20	20
Motivation	5	5	5
Writing 50-Minute			
Background	—	28	28
Cognitive	—	3	3
Motivation	—	5	5
Civics			
Background	22	24	29
Cognitive	90	151	152
Motivation	5	5	5
Questionnaires			
SD/LEP	46	46	46
Teacher Reading/Writing	145	145	—
Teacher Civics	89	88	—
School	52	52	52

Note: “—” indicates that this category was not applicable.

Table A-3
School Participation in NAEP 1998 Main Samples (All Subsamples)

	Grade 4	Grade 8	Grade 12
Total Original Sample	889	957	852
Cooperating	671	703	560
No Eligibles Enrolled	7	7	4
School Refused	104	118	135
Cooperation Rate	81%	81%	75%
Cooperating Replacements for Refusals	62	58	48
Totals			
Cooperating Schools	733	761	608
Completing Questionnaires	700	721	569
Missing	33	40	39

Table A-4
School Characteristics in NAEP 1998 Main Samples

	Grade 4	Grade 8	Grade 12
Region			
Northeast	161	170	123
Southeast	174	175	167
Central	173	187	121
West	225	229	197
School Type			
Public	473	427	446
Private	93	114	82
Catholic	28	33	19
BIA	138	186	59
DODEA	1	0	2
Size and Type of Community			
Rural	157	166	113
Disadvantaged Urban	148	141	108
Advantaged Urban	192	209	153
Big City	49	54	45
Fringe	9	10	8
Medium City	80	76	77
Small Place	98	105	104
Number of Enrolled Students			
10-250	194	192	101
251-500	245	194	105
501-1000	208	209	106
1,001-2,000	28	91	158
2,000+	1	7	78

Table A-5
*Numbers of Responses to Teacher Questionnaires and Students
 Matched with Teacher Data*

			Number of Teachers Responding	No Match	Partial Match	Complete Match
Reading						
Grade 4	National		1,252	597	334	6,741
Grade 4	State		14,707	7,099	13	105,026
Grade 8	National		1,266	1,181	935	8,935
Grade 8	State		10,209	5,736	6,575	82,118
Writing						
Grade 4	25-Minute		1,799	1,395	830	17,591
Grade 8	25-Minute		1,565	4,279	1,574	14,733
Grade 8	50-Minute		1,286	1,277	467	4,266
Grade 8	State		10,695	6,064	6,920	84,605
Civics						
Grade 4	Main		1,606	561	277	5,110
Grade 8	Main		1,275	1,510	649	6,053

Table A-6
*Number of Students Assessed, Accommodated, and Excluded
 by Reporting Sample and Grade*

	Grade 4	Grade 8	Grade 12
ASSESSED STUDENTS	145,574	237,877	45,751
Reading	119,810	105,480	12,675
<i>National</i>	7,672	11,051	12,675
<i>State</i>	112,138	94,429	—
Writing	19,816	124,185	25,313
<i>25-Minute</i>	19,816	20,586	19,505
<i>50-Minute</i>	—	6,010	5,808
<i>State</i>	—	97,589	—
Civics	5,948	8,212	7,763
ACCOMMODATED STUDENTS	953	3,670	432
Reading	—	—	—
<i>National</i>	—	—	—
<i>State</i>	—	—	—
Writing	746	3,449	326
<i>25-Minute</i>	746	678	326
<i>50-Minute</i>	—	—	—
<i>State</i>	—	2,771	—
Civics	207	221	106
EXCLUDED STUDENTS	7,605	10,461	1,582
Reading	5,748	4,074	448
<i>National</i>	545	623	448
<i>State</i>	5,203	3,451	—
Writing	1,450	6,046	887
<i>25-Minute</i>	1,450	877	658
<i>50-Minute</i>	—	270	229
<i>State</i>	—	4,899	—
Civics	407	341	247

Note: “—” indicates that this category was not applicable.

Table A-7
*Number of Students in the Reading Reporting Samples
 by Subgroup Classification, National Grades 4, 8, and 12 & State Grades 4 and 8*

	National			State	
	Grade 4	Grade 8	Grade 12	Grade 4	Grade 8
Total	7,672	11,051	12,675	112,138	94,429
Gender					
Male	3,749	5,512	6,086	55,393	46,636
Female	3,923	5,539	6,589	56,745	47,793
Race/Ethnicity					
White	4,277	6,457	7,585	71,446	62,082
Black	1,300	1,745	2,052	19,124	15,222
Hispanic	1,624	2,141	2,234	13,733	10,379
Asian American	283	564	689	4,634	4,600
American Indian	173	119	94	3,007	1,940
Unclassified	15	25	21	194	206
Region					
Northeast	1,547	2,006	2,533	22,981	19,092
Southeast	2,212	3,046	3,570	31,713	29,483
Central	1,455	2,273	2,325	17,925	11,216
West	2,458	3,726	4,247	32,368	31,019
Unclassified (Territories)	—	—	—	7,151	3,619
Parent's Education					
Less Than High School	248	831	1,118	3,166	6,316
High School	966	2,230	2,359	15,139	20,344
Greater Than High School	1,282	1,889	3,150	19,906	18,506
Graduated College	4,228	4,996	5,626	60,907	41,158
Unknown	948	1,105	422	13,020	8,105
Type of Location					
Central City	3,119	4,455	4,891	36,251	28,841
Urban Fringe/Large Town	2,812	4,068	4,743	34,426	30,633
Rural/Small Town	1,741	2,528	3,041	38,581	32,715
Unclassified (Territories)	—	—	—	2,880	2,240
School Type					
Public	6,300	9,091	10,664	98,873	86,201
Nonpublic	1,372	1,960	2,011	7,676	5,264
Private	493	746	588	2,917	1,833
Catholic	879	1,214	1,423	4,759	3,431
BIA	0	0	0	124	104
DODEA	0	0	0	5,465	2,860

Note: “—” indicates that this category was not applicable.

(continued)

Table A-7 (continued)
*Number of Students in the Reading Reporting Samples
 by Subgroup Classification, National Grades 4, 8, and 12 & State Grades 4 and 8*

	National			State	
	Grade 4	Grade 8	Grade 12	Grade 4	Grade 8
Modal Age					
< Modal Age	44	71	164	611	501
= Modal Age	4,979	6,729	8,204	72,369	56,697
> Modal Age	2,649	4,251	4,307	39,158	37,231
SD/LEP					
SD Only	236	427	286	3,075	2,784
LEP Only	197	291	259	1,333	794
SD & LEP	7	24	18	75	57
Non SD/LEP	7,232	10,309	12,112	107,655	90,794

Table A-8
*Number of Students in the Writing 25-Minute and 50-Minute Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grade 8*

	Main 25-minute			Main 50-minute		State 25-minute
	Grade 4	Grade 8	Grade 12	Grade 8	Grade 12	Grade 8
Total	19,816	20,586	19,505	6,009	5,804	97,589
Gender						
Male	9,971	10,298	9,302	2,999	2,770	48,834
Female	9,845	10,288	10,203	3,010	3,034	48,755
Race/Ethnicity						
White	10,612	11,774	11,628	3,531	3,476	62,490
Black	3,242	3,271	3,139	910	925	15,583
Hispanic	4,537	4,261	3,383	1,184	1,003	12,148
Asian American	760	930	1,088	275	316	4,723
American Indian	603	298	199	93	65	2,423
Unclassified	62	52	68	16	19	222
Region						
Northeast	4169	4,042	4,068	1,152	1,183	20,342
Southeast	5,541	5,643	5,479	1,653	1,644	30,946
Central	3,534	3,936	3,618	1,159	1,085	9,723
West	6,572	6,965	6,340	2,045	1,892	32,939
Unclassified (Territories)	—	—	—	—	—	3,639
Parent's Education						
Less Than High School	595	1,056	1,412	316	393	4,090
High School	2,241	2,855	2,492	878	767	14,814
Greater Than High School	3,207	5,665	5,283	1,621	1,629	27,702
Graduated College	11,363	10,261	9,886	2,953	2,890	47,653
Unknown	2,410	749	432	241	125	3,330
Type of Location						
Central City	8,024	8,305	7,640	2,449	2,276	30,070
Urban Fringe/Large Town	7,117	7,940	7,237	2,293	2,185	31,571
Rural/Small Town	4,675	4,341	4,628	1,267	1,343	33,652
Unclassified (Territories)	—	—	—	—	—	2,296
School Type						
Public	16,330	17,005	16,221	4,941	4,821	89,164
Nonpublic	3,464	3,581	3,267	1,068	977	5,411
Private	1,118	1,388	963	405	285	1,849
Catholic	2,346	2,193	2,304	663	692	3,562
BIA	22	0	17	0	6	73
DODEA	0	0	0	0	0	2,941

Note: "—" indicates that this category was not applicable.

(continued)

Table A-8 (continued)
*Number of Students in the Writing 25-Minute and 50-Minute Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grade 8*

	Main 25-minute			Main 50-minute		State 25-minute
	Grade 4	Grade 8	Grade 12	Grade 8	Grade 12	Grade 8
Modal Age						
< Modal Age	87	146	231	46	76	523
= Modal Age	12,814	12,311	12,523	3,587	3,723	58,004
> Modal Age	6,915	8,129	6,751	2,376	2,005	39,062
SD/LEP						
SD Only	1,342	1,407	785	242	154	6,859
LEP Only	785	591	508	160	127	1,678
SD & LEP	44	60	24	15	3	157
Non SD/LEP	17,645	18,528	18,188	5,592	5,520	88,895

Table A-9
*Number of Students in the Civics Main Samples
 by Subgroup Classification, Grades 4, 8, and 12*

	Grade 4	Grade 8	Grade 12
Total	5,948	8,212	7,763
Gender			
Male	3,017	4,078	3,654
Female	2,931	4,134	4,109
Race/Ethnicity			
White	3,200	4,732	4,597
Black	937	1,280	1,240
Hispanic	1,415	1,720	1,398
Asian American	217	348	433
American Indian	164	116	74
Unclassified	15	16	21
Region			
Northeast	1,241	1,616	1,641
Southeast	1,656	2,258	2,196
Central	1,078	1,568	1,404
West	1,973	2,770	2,522
Parent's Education			
Less Than High School	173	448	560
High School	683	1,184	1,048
Greater Than High School	977	2,249	2,106
Graduated College	3,449	4,013	3,883
Unknown	642	265	74
Type of Location			
Central City	2,416	3,311	3,069
Urban Fringe/Large Town	2,121	3,157	2,854
Rural/Small Town	1,411	1,744	1,840
School Type			
Public	4,893	6,795	6,437
Nonpublic	1,048	1,417	1,319
Private	340	553	383
Catholic	708	864	936
BIA	7	0	7
DODEA	0	0	0
Modal Age			
< Modal Age	10	50	103
= Modal Age	3,827	4,963	4,927
> Modal Age	2,111	3,199	2,733
SD/LEP			
SD Only	385	542	292
LEP Only	262	199	211
SD & LEP	10	17	9
Non SD/LEP	5,291	7,454	7,251

Table A-10
*Number of Excluded Students in the Reading Reporting Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grades 4 and 8*

	National			State	
	Grade 4	Grade 8	Grade 12	Grade 4	Grade 8
Total	545	623	448	5,203	3,451
Gender					
Male	311	390	282	3,326	2,294
Female	234	233	166	1,877	1,157
Race/Ethnicity					
White	154	243	225	2,603	1,716
Black	52	174	78	1,051	785
Hispanic	317	175	117	1,181	681
Asian American	22	21	26	233	161
American Indian	0	9	1	85	85
Unclassified	0	1	1	50	23
Region					
Northeast	59	112	128	1,130	782
Southeast	99	183	112	1,481	1,144
Central	81	122	55	681	369
West	306	206	153	1,697	1,071
Unclassified (Territories)	—	—	—	214	85
Type of Location					
Central City	253	298	207	2,013	1,243
Urban Fringe/Large Town	207	204	160	1,512	1,067
Rural/Small Town	85	121	81	1,600	1,088
Unclassified (Territories)	—	—	—	78	53
School Type					
Public	540	622	440	5,019	3,363
Nonpublic	5	1	8	31	20
Private	1	0	6	6	8
Catholic	4	1	2	25	12
BIA	0	0	0	2	3
DODEA	0	0	0	151	65

Note: “—” indicates that this category was not applicable.

(continued)

Table A-10 (continued)
*Number of Excluded Students in the Reading Reporting Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grades 4 and 8*

	National			State	
	Grade 4	Grade 8	Grade 12	Grade 4	Grade 8
Modal Age					
< Modal Age	0	1	10	29	26
= Modal Age	326	216	125	2,433	1,184
> Modal Age	219	406	313	2,741	2,241
SD/LEP					
SD Only	222	489	333	3,979	2,787
LEP Only	298	99	83	1,016	535
SD & LEP	25	35	32	208	129

Table A-11
Number of Excluded Students in the Writing Samples
by Subgroup Classification, Grades 4, 8, and 12 & State Grade 8

	Main 25 min.			Main 50 min.		State 25 min.
	Grade 4	Grade 8	Grade 12	Grade 8	Grade 12	Grade 8
Total	1,450	877	658	266	201	4,899
Gender						
Male	874	549	404	144	127	3,190
Female	576	328	254	122	74	1,709
Race/Ethnicity						
White	336	334	286	84	84	2,217
Black	266	218	169	65	52	1,091
Hispanic	797	286	171	101	55	1,164
Asian American	42	35	29	14	8	270
American Indian	5	3	2	2	2	108
Unclassified	4	1	1	0	0	49
Region						
Northeast	153	129	95	44	44	1,066
Southeast	275	221	204	62	45	1,596
Central	158	183	88	51	35	344
West	864	344	271	109	77	1,781
Unclassified (Territories)	—	—	—	—	—	112
Type of Location						
Central City	788	443	291	145	82	1,873
Urban Fringe/Large Town	459	250	232	72	70	1,433
Rural/Small Town	203	184	135	49	49	1,549
Unclassified (Territories)	—	—	—	—	—	44
School Type						
Public	1,436	865	656	265	201	4,819
Nonpublic	14	12	2	1	0	24
Private	6	3	1	0	0	10
Catholic	8	9	1	1	0	14
BIA	0	0	0	0	0	1
DODEA	0	0	0	0	0	55
Modal Age						
< Modal Age	9	8	10	3	3	54
= Modal Age	786	311	168	110	46	1,615
> Modal Age	655	558	480	153	152	3,230
SD/LEP						
SD Only	697	604	536	182	162	3,697
LEP Only	644	205	92	70	34	988
SD & LEP	109	68	30	14	5	214

Note: “—” indicates that this category was not applicable.

Table A-12
*Number of Excluded Students in the Civics Main Samples
 by Subgroup Classification, Grades 4, 8, and 12*

	Grade 4	Grade 8	Grade 12
Total	407	341	247
Gender			
Male	257	207	153
Female	150	134	94
Race/Ethnicity			
White	98	130	109
Black	66	74	61
Hispanic	223	118	56
Asian American	18	16	18
American Indian	1	2	2
Unclassified	1	1	1
Region			
Northeast	38	51	36
Southeast	76	82	63
Central	34	63	42
West	259	145	106
Type of Location			
Central City	205	159	106
Urban Fringe/Large Town	150	107	101
Rural/Small Town	52	75	40
School Type			
Public	405	337	247
Nonpublic	2	4	0
Private	0	1	0
Catholic	2	3	0
BIA	0	0	0
DODEA	0	0	0
Modal Age			
< Modal Age	3	2	0
= Modal Age	233	121	61
> Modal Age	171	218	186
SD/LEP			
SD Only	186	225	201
LEP Only	194	89	35
SD & LEP	27	27	11

Table A-13
*Number of Accommodated Students in the Writing Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grade 8**

	Main 25 min.			State 25 min.
	Grade 4	Grade 8	Grade 12	Grade 8
Total	746	678	326	2,652
Gender				
Male	475	444	196	1,809
Female	271	234	130	843
Race/Ethnicity				
White	352	337	189	1,578
Black	150	130	46	370
Hispanic	197	175	72	509
Asian American	19	20	17	94
American Indian	24	16	2	98
Unclassified	4	0	0	3
Region				
Northeast	182	179	135	751
Southeast	248	223	91	806
Central	123	103	46	283
West	193	173	54	752
Unclassified (Territories)	—	—	—	60
Parent's Education				
Less Than High School	41	50	37	200
High School	86	109	45	453
Greater Than High School	102	200	75	756
Graduated College	382	273	151	1,025
Unknown	135	46	18	218
Type of Location				
Central City	280	218	101	686
Urban Fringe/Large Town	304	293	127	929
Rural/Small Town	162	167	98	991
Unclassified (Territories)	—	—	—	46
School Type				
Public	700	641	306	2,534
Nonpublic	46	37	20	52
Private	18	9	10	29
Catholic	28	28	10	23
BIA	0	0	0	6
DODEA	0	0	0	60

* Accommodations were not offered in the 50-minute study.
 Note: “—” indicates that this category was not applicable.

Table A-13 (continued)
*Number of Accommodated Students in the Writing Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grade 8**

	Main 25 min.			State 25 min.
	Grade 4	Grade 8	Grade 12	Grade 8
Modal Age				
< Modal Age	2	7	5	5
= Modal Age	344	253	108	991
> Modal Age	400	418	213	1,656
Type of Accommodation				
Large-Print Book	3	5	5	16
Extended Time	181	211	120	1,040
Read Aloud	42	24	6	313
Bilingual Dictionary	5	14	8	53
Small Groups	449	379	152	944
One on One	32	29	14	121
Scribe/Computer	27	10	9	112
Other	7	6	12	53
Accommodation Book				
Yes	737	672	319	2,427
No	9	6	7	225
SD/LEP				
SD Only	626	588	268	2,408
LEP Only	104	74	53	177
SD & LEP	16	16	5	67

* Accommodations were not offered in the 50-minute study.

Table A-14
*Number of Accommodated Students in the Civics Main Samples
 by Subgroup Classification, Grades 4, 8, and 12*

	Grade 4	Grade 8	Grade 12
Total	207	221	106
Gender			
Male	132	142	66
Female	75	79	40
Race\Ethnicity			
White	93	121	52
Black	34	37	21
Hispanic	65	57	26
Asian American	5	3	2
American Indian	10	3	5
Unclassified	0	0	0
Region			
Northeast	47	71	44
Southeast	63	58	29
Central	32	53	18
West	65	39	15
Parent's Education			
Less Than High School	13	12	11
High School	16	26	16
Greater Than High School	36	74	27
Graduated College	105	88	48
Unknown	37	21	4
Type of Location			
Central City	84	77	32
Urban Fringe/Large Town	82	93	43
Rural/Small Town	41	51	31
School Type			
Public	197	209	97
Nonpublic	10	12	9
Private	4	2	4
Catholic	6	10	5
BIA	0	0	0
DODEA	0	0	0

(continued)

Table A-14 (continued)
*Number of Accommodated Students in the Civics Main Samples
 by Subgroup Classification, Grades 4, 8, and 12*

	Grade 4	Grade 8	Grade 12
Modal Age			
< Modal Age	0	1	1
= Modal Age	116	87	30
> Modal Age	91	133	75
Type of Accommodation			
Large-Print Book	1	1	1
Extended Time	51	70	40
Read Aloud	6	9	1
Bilingual Dictionary	1	1	2
Small Groups	125	128	54
One on One	15	8	6
Scribe/Computer	3	2	0
Other	5	2	2
Accommodation Book			
Yes	202	218	105
No	5	3	1
SD/LEP			
SD Only	175	197	87
LEP Only	28	16	14
SD & LEP	4	8	5

Table A-15
*Weighted Percentages of Students in the Reading Reporting Samples
 by Subgroup Classification, National Grades 4, 8, and 12 & State Grades 4 and 8*

	National			State	
	Grade 4	Grade 8	Grade 12	Grade 4	Grade 8
Total	3,588,382	3,464,591	3,061,170	2,833,845	2,599,198
Gender					
Male	50	51	48	50	50
Female	50	50	52	50	50
Race/Ethnicity					
White	67	67	69	61	61
Black	16	14	14	16	15
Hispanic	13	14	12	17	17
Asian American	3	4	4	4	5
American Indian	2	1	1	2	2
Unclassified	0	0	0	0	0
Region					
Northeast	22	22	22	17	17
Southeast	26	24	23	28	29
Central	24	25	26	20	15
West	28	29	29	35	39
Unclassified (Territories)	—	—	—	0	0
Parent's Education					
Less Than High School	3	7	7	3	8
High School	13	22	19	13	21
Greater Than High School	17	18	25	17	19
Graduated College	55	44	46	55	43
Unknown	12	9	3	12	10
Type of Location					
Central City	35	34	31	35	35
Urban Fringe/Large Town	36	40	39	38	39
Rural/Small Town	29	27	30	27	26
Unclassified (Territories)	—	—	—	0	0
School Type					
Public	89	89	89	92	93
Nonpublic	11	11	11	7	7
Private	4	4	4	3	2
Catholic	7	7	8	5	4
BIA	0	0	0	0	0
DODEA	0	0	0	0	0

Note: “—” indicates that this category was not applicable.

(continued)

Table A-15 (continued)
*Weighted Percentages of Students in the Reading Reporting Samples
 by Subgroup Classification, National Grades 4, 8, and 12 & State Grades 4 and 8*

	National			State	
	Grade 4	Grade 8	Grade 12	Grade 4	Grade 8
Modal Age					
< Modal Age	1	1	1	0	0
= Modal Age	61	57	63	66	60
> Modal Age	38	43	36	34	39
SD/LEP					
SD Only	5	5	3	5	6
LEP Only	2	2	2	4	3
SD & LEP	0	0	0	0	0
Non SD/LEP	92	93	96	91	91

Table A-16
*Weighted Percentages of Students in the Writing 25-Minute and 50-Minute Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grade 8*

	Main 25-Minute			Main 50-Minute		State 25-Minute
	Grade 4	Grade 8	Grade 12	Grade 8	Grade 12	Grade 8
Total	3,730,723	3,526,984	3,103,590	3,429,355	3,085,458	2,602,998
Gender						
Male	51	51	48	51	48	50
Female	49	49	52	49	52	50
Race/Ethnicity						
White	67	67	69	68	69	60
Black	15	14	14	14	14	15
Hispanic	13	14	12	13	12	18
Asian American	2	3	4	3	4	5
American Indian	2	1	1	1	1	2
Unclassified	0	0	0	0	0	0
Region						
Northeast	23	21	22	21	22	17
Southeast	25	25	23	24	24	30
Central	24	25	26	25	25	14
West	28	29	29	29	29	39
Unclassified (Territories)	—	—	—	—	—	0
Parent's Education						
Less Than High School	3	5	6	5	6	5
High School	12	15	13	16	14	15
Greater Than High School	16	27	27	28	27	28
Graduated College	57	50	52	48	51	48
Unknown	12	3	2	4	2	4
Type of Location						
Central City	35	33	32	33	31	35
Urban Fringe/Large Town	36	40	39	39	40	40
Rural/Small Town	30	27	30	27	29	26
Unclassified (Territories)	—	—	—	—	—	0
School Type						
Public	89	89	89	89	89	93
Nonpublic	12	11	12	11	12	7
Private	4	5	3	5	3	3
Catholic	8	7	8	7	8	4
BIA	0	0	0	0	0	0
DODEA	0	0	0	0	0	0

Note: "—" indicates that this category was not applicable.

(continued)

Table A-16 (continued)
*Weighted Percentages of Students in the Writing 25-Minute and 50-Minute Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grade 8*

	Main 25-Minute			Main 50-Minute		State 25-Minute
	Grade 4	Grade 8	Grade 12	Grade 8	Grade 12	Grade 8
Modal Age						
< Modal Age	1	1	1	1	1	1
= Modal Age	61	56	63	55	63	60
> Modal Age	39	44	36	44	36	39
SD/LEP						
SD Only	8	7	4	5	3	7
LEP Only	2	2	2	2	2	3
SD & LEP	0	0	0	0	0	0
Non SD/LEP	90	91	94	93	95	89

Table A-17
*Weighted Percentages of Students in the Civics Main Samples
 by Subgroup Classification, Grades 4, 8, and 12*

	Grade 4	Grade 8	Grade 12
Total	3,745,108	3,533,641	3,137,172
Gender			
Male	52	51	48
Female	48	49	52
Race/Ethnicity			
White	67	67	69
Black	15	15	14
Hispanic	14	14	12
Asian American	2	3	4
American Indian	2	1	1
Unclassified	0	0	0
Region			
Northeast	23	22	23
Southeast	25	25	23
Central	24	25	25
West	27	29	30
Parent's Education			
Less Than High School	3	5	6
High School	12	16	14
Greater Than High School	17	27	27
Graduated College	58	49	52
Unknown	10	3	1
Type of Location			
Central City	35	33	32
Urban Fringe/Large Town	36	40	39
Rural/Small Town	30	28	30
School Type			
Public	88	89	88
Nonpublic	12	11	12
Private	4	5	3
Catholic	8	6	8
BIA	0	0	0
DODEA	0	0	0

(continued)

Table A-17 (continued)
*Weighted Percentages of Students in the Civics Main Samples
 by Subgroup Classification, Grades 4, 8, and 12*

	Grade 4	Grade 8	Grade 12
Modal Age			
< Modal Age	0	1	1
= Modal Age	60	55	62
>Modal Age	39	44	37
SD/LEP			
SD Only	0	0	0
LEP Only	0	0	0
SD & LEP	0	0	0
Non SD/LEP	0	0	0

Table A-18
*Weighted Percentages of Excluded Students in the Reading Reporting Samples
 by Subgroup Classification, National Grades 4, 8, and 12 & State Grades 4 and 8*

	National			State	
	Grade 4	Grade 8	Grade12	Grade 4	Grade 8
Total	356,547	209,148	98,674	286,313	177,631
Gender					
Male	62	65	66	61	64
Female	38	35	34	39	36
Race/Ethnicity					
White	51	52	65	40	43
Black	12	25	16	15	19
Hispanic	32	20	15	37	30
Asian American	5	2	3	6	5
American Indian	0	1	0	1	2
Unclassified	0	0	0	0	1
Region					
Northeast	15	20	28	15	20
Southeast	20	23	29	23	27
Central	29	29	18	14	12
West	36	28	25	47	41
Unclassified (Territories)	—	—	—	0	0
Type of Location					
Central City	42	39	29	45	38
Urban Fringe/Large Town	30	37	41	35	38
Rural/Small Town	28	25	30	20	24
Unclassified (Territories)	—	—	—	0	0
School Type					
Public	99	100	98	99	99
Nonpublic	1	0	2	1	1
Private	0	0	1	0	0
Catholic	1	0	1	1	1
BIA	0	0	0	0	0
DODEA	0	0	0	0	0
Modal Age					
< Modal Age	0	0	1	1	1
= Modal Age	46	28	26	55	39
> Modal Age	54	72	73	45	60
SD/LEP					
SD Only	62	86	86	61	70
LEP Only	34	11	9	35	23
SD & LEP	4	4	5	5	7

Note: “—” indicates that this category was not applicable.

Table A-19
*Weighted Percentages of Excluded Students in the Writing Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grade 8*

	Main 25 min.			Main 50 min.		State 25 min.
	Grade 4	Grade 8	Grade 12	Grade 8	Grade 12	Grade 8
Total	214,210	146,762	78,648	140,951	86,351	125,288
Gender						
Male	62	63	61	57	66	63
Female	38	37	39	43	34	37
Race/Ethnicity						
White	39	51	54	44	57	38
Black	22	24	25	25	22	19
Hispanic	36	22	18	27	17	36
Asian American	2	3	3	4	3	5
American Indian	0	0	0	1	1	1
Unclassified	0	0	0	0	0	1
Region						
Northeast	15	17	15	20	20	17
Southeast	23	24	31	25	22	28
Central	18	28	19	23	30	9
West	45	31	35	32	28	46
Unclassified (Territories)	—	—	—	—	—	0
Type of Location						
Central City	48	43	35	46	32	41
Urban Fringe/Large Town	32	30	38	31	35	36
Rural/Small Town	20	26	27	23	34	24
Unclassified (Territories)	—	—	—	—	—	0
School Type						
Public	99	99	100	100	100	99
Nonpublic	1	1	0	0	0	1
Private	0	0	0	0	0	1
Catholic	0	1	0	0	0	0
BIA	0	0	0	0	0	0
DODEA	0	0	0	0	0	0
Modal Age						
< Modal Age	1	1	2	1	1	1
= Modal Age	44	29	25	33	23	36
> Modal Age	55	71	74	66	76	63
SD/LEP						
SD Only	64	78	87	77	84	65
LEP Only	31	17	10	19	13	29
SD & LEP	6	6	3	4	3	6

Note: “—” indicates that this category was not applicable.

Table A-20
*Weighted Percentages of Excluded Students in the Civics Main Samples
 by Subgroup Classification, Grades 4, 8, and 12*

	Grade 4	Grade 8	Grade 12
Total	199,822	140,098	76,333
Gender			
Male	65	62	61
Female	35	38	39
Race/Ethnicity			
White	38	52	55
Black	23	22	24
Hispanic	36	22	14
Asian American	4	4	5
American Indian	0	0	1
Unclassified	0	0	1
Region			
Northeast	12	17	15
Southeast	23	25	23
Central	15	25	26
West	51	33	37
Type of Location			
Central City	45	40	36
Urban Fringe/Large Town	38	36	44
Rural/Small Town	17	24	21
School Type			
Public	100	99	100
Nonpublic	0	1	0
Private	0	0	0
Catholic	0	1	0
BIA	0	0	0
DODEA	0	0	0
Modal Age			
< Modal Age	1	1	0
= Modal Age	48	31	23
>Modal Age	51	69	77
SD/LEP			
SD Only	0	0	0
LEP Only	0	0	0
SD & LEP	0	0	0

Table A-21
*Weighted Percentages of Accommodated Students in the Writing Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grade 8**

	Main 25 min.			State 25 min.
	Grade 4	Grade 8	Grade 12	Grade 8
Total	150,096	101,366	43,165	76,570
Gender				
Male	65	66	61	68
Female	35	34	39	32
Race/Ethnicity				
White	63	60	69	56
Black	19	18	11	14
Hispanic	15	17	16	25
Asian American	1	2	3	3
American Indian	2	2	1	3
Unclassified	0	0	0	0
Region				
Northeast	29	26	42	31
Southeast	31	31	22	28
Central	21	22	23	13
West	20	21	14	28
Unclassified (Territories)	—	—	—	0
Parent's Education				
Less Than High School	5	7	9	8
High School	13	17	14	16
Greater Than High School	14	30	23	29
Graduated College	50	39	48	40
Unknown	19	7	6	8
Type of Location				
Central City	30	27	23	27
Urban Fringe/Large Town	42	42	42	40
Rural/Small Town	28	31	36	32
Unclassified (Territories)	—	—	—	0
School Type				
Public	97	97	97	98
Nonpublic	3	3	3	2
Private	1	1	2	1
Catholic	2	2	2	1
BIA	0	0	0	0
DODEA	0	0	0	0

*Accommodations were not offered in the 50-minute study.
 Note: “—” indicates that this category was not applicable.

(continued)

Table A-21 (continued)
*Weighted Percentages of Accommodated Students in the Writing Samples
 by Subgroup Classification, Grades 4, 8, and 12 & State Grade 8**

	Main 25 min.			State 25 min.
	Grade 4	Grade 8	Grade 12	Grade 8
Modal Age				
< Modal Age	0	1	1	0
= Modal Age	40	31	29	37
> Modal Age	60	68	70	63
Type of Accommodation				
Large-Print Book	0	1	1	1
Extended Time	20	30	33	42
Read Aloud	7	3	3	12
Bilingual Dictionary	0	2	2	2
Small Groups	61	58	50	34
One on One	6	4	5	4
Scribe/Computer	5	2	3	4
Other	1	1	4	2
Accommodation Book				
Yes	99	99	97	90
No	1	1	3	10
SD/LEP				
SD Only	90	91	88	90
LEP Only	8	8	11	6
SD & LEP	2	1	1	4

* Accommodations were not offered in the 50-minute study.

Table A-22
*Weighted Percentages of Accommodated Students in the Civics Main Samples
 by Subgroup Classification, Grades 4, 8, and 12*

	Grade 4	Grade 8	Grade 12
Total	136,538	116,685	41,679
Gender			
Male	67	67	65
Female	33	33	35
Race/Ethnicity			
White	59	67	62
Black	18	15	17
Hispanic	18	17	15
Asian American	2	1	1
American Indian	4	1	4
Unclassified	0	0	0
Region			
Northeast	28	34	46
Southeast	28	23	20
Central	19	33	25
West	24	11	10
Parent's Education			
Less Than High School	5	6	6
High School	9	14	13
Greater Than High School	18	32	25
Graduated College	51	38	51
Unknown	18	10	5
Type of Location			
Central City	35	28	23
Urban Fringe/Large Town	38	41	49
Rural/Small Town	27	32	29
School Type			
Public	97	97	95
Nonpublic	3	3	5
Private	1	1	2
Catholic	3	2	3
BIA	0	0	0
DODEA	0	0	0

(continued)

Table A-22 (continued)
*Weighted Percentages of Accommodated Students in the Civics Main Samples
 by Subgroup Classification, Grades 4, 8, and 12*

	Grade 4	Grade 8	Grade 12
Modal Age			
< Modal Age	0	0	1
= Modal Age	46	31	29
> Modal Age	54	69	71
Type of Accommodation			
Large-Print Book	1	0	1
Extended Time	22	31	35
Read Aloud	3	4	1
Bilingual Dictionary	0	0	1
Small Groups	63	58	55
One on One	8	4	5
Scribe/Computer	2	2	0
Other	2	1	2
Accommodation Book			
Yes	98	99	99
No	2	1	1
SD/LEP			
SD Only	91	94	88
LEP Only	8	4	9
SD & LEP	1	2	3

Appendix B

SUMMARY INFORMATION FOR THE NAEP 1998 STATE SAMPLES AND FOR WEIGHTING THE NAEP 1998 STATE SAMPLES

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This appendix supplements the text of Chapters 4 and 11 (State Sampling and Weighting Procedures and Variance Estimation). It contains summary information for the 1998 NAEP state samples and includes the following tables:

Table B-1 Weighted Mean Values Derived from Sampled Public Schools - Grade 4, Reading

Table B-2 Weighted Mean Values Derived from Sampled Public Schools - Grade 8, Reading

Table B-3 Weighted Mean Values Derived from Sampled Public Schools - Grade 8, Writing

Table B-4 Weighted Mean Values Derived from Sampled Nonpublic Schools - Grade 4, Reading

Table B-5 Weighted Mean Values Derived from Sampled Nonpublic Schools - Grade 8, Reading

Table B-6 Weighted Mean Values Derived from Sampled Nonpublic Schools - Grade 8, Writing

Table B-7 Weighted Student Percentages Derived From Sampled Public Schools - Grade 4,
Reading

Table B-8 Weighted Student Percentages Derived From Sampled Public Schools - Grade 8,
Reading

Table B-9 Weighted Student Percentages Derived from Sampled Public Schools - Grade 8,
Writing

Table B-10 Weighted Student Percentages Derived From All Schools Sampled - Grade 4, Reading

Table B-11 Weighted Student Percentages Derived From All Schools Sampled - Grade 8, Reading

Table B-12 Weighted Student Percentages Derived From All Schools Sampled - Grade 8, Writing

Table B-13 Final Collapsed Levels Used for Raking Dimensions for All Jurisdictions - Grade 4
Reading

Table B-14 Final Collapsed Levels Used for Raking Dimensions for All Jurisdictions - Grade 8
Reading

Table B-15 Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Table B-16 Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Table B-17 Distribution of Selected Nonpublic Schools by Sampling Strata, Fourth Grade

- Table B-18 Distribution of Selected Nonpublic Schools by Sampling Strata, Eighth Grade
- Table B-19 Weighted School Participation Rates and Sample Counts - Grade 4, Reading for Public Schools
- Table B-20 Weighted School Participation Rates and Sample Counts - Grade 4, Reading for Nonpublic Schools
- Table B-21 Weighted School Participation Rates and Sample Counts - Grade 8, Reading and Writing for Public Schools
- Table B-22 Weighted School Participation Rates and Sample Counts - Grade 8, Reading and Writing for Nonpublic Schools
- Table B-23 Weighted School Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples - Grade 4, Reading for Public Schools
- Table B-24 Weighted School Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples - Grade 4, Reading for Nonpublic Schools
- Table B-25 Weighted School Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples - Grade 8, Reading for Public Schools
- Table B-26 Weighted School Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples - Grade 8, Reading for Nonpublic Schools
- Table B-27 Weighted School Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples - Grade 8, Writing for Public Schools
- Table B-28 Weighted School Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples - Grade 8, Writing for Nonpublic Schools
- Table B-29 Results of the Logistic Regression Analysis of School Nonresponse - Grade 4 Reading
- Table B-30 Results of the Logistic Regression Analysis of School Nonresponse - Grade 8 Reading
- Table B-31 Results of the Logistic Regression Analysis of School Nonresponse - Grade 8 Writing

Table B-1
Weighted Mean Values Derived from Sampled Public Schools - Grade 4, Reading

Jurisdiction	Weighted Participation Rate After Substitution (%)	Weighted Mean Value Derived from Full Sample				Weighted Mean Value Derived from Responding Sample with Substitutes and School Nonresponse Adjustment			
		Percent Black	Percent Hispanic	Median Income	Type of Location	Percent Black	Percent Hispanic	Median Income	Type of Location
Alabama	90.81	35.11	0.37	\$23,727	4.43	34.19	0.33	\$24,267	4.35
Arizona	97.86	3.89	29.31	\$30,835	2.50	3.97	29.59	\$30,897	2.46
Arkansas	97.39	22.46	1.04	\$22,164	4.88	23.31	1.03	\$22,180	4.91
California	79.92	7.79	38.31	\$35,521	2.64	7.05	37.10	\$36,059	2.55
Colorado	95.43	6.19	14.44	\$33,220	3.45	6.54	14.01	\$33,073	3.44
Connecticut	98.22	12.54	11.61	\$47,008	3.87	12.75	11.73	\$46,816	3.86
Delaware	100.00	28.96	3.74	\$28,464	3.54	28.96	3.74	\$28,464	3.54
District of Columbia	100.00	86.04	6.88	\$28,020	1.00	86.04	6.88	\$28,020	1.00
DoDEA/ DDESS	100.00	—	—	\$23,976	3.61	—	—	\$23,976	3.61
DoDEA/ DoDDS	100.00	—	—	—	—	—	—	—	—
Florida	99.04	26.76	13.68	\$28,805	3.07	26.61	13.64	\$28,775	3.07
Georgia	99.05	38.77	1.65	\$30,325	4.22	39.58	1.63	\$30,167	4.19
Hawaii	100.00	3.31	4.69	\$35,848	3.48	3.31	4.69	\$35,848	3.48
Illinois	84.13	20.92	11.54	\$34,772	3.18	26.33	12.89	\$33,986	2.71
Iowa	83.94	3.71	1.78	\$27,640	5.01	4.29	1.96	\$27,782	4.93
Kansas	70.42	8.89	5.80	\$30,715	4.48	10.19	6.14	\$29,960	4.49
Kentucky	92.39	9.95	0.28	\$24,466	4.75	9.41	0.28	\$24,361	4.83
Louisiana	100.00	43.59	0.86	\$23,560	3.97	44.94	0.86	\$23,560	3.94
Maine	95.99	0.78	0.42	\$28,760	5.89	0.82	0.42	\$28,828	5.89
Maryland	88.42	33.69	3.19	\$40,410	3.34	33.67	3.36	\$40,583	3.36
Massachusetts	88.15	7.94	8.72	\$41,555	3.75	7.75	8.70	\$40,595	3.76
Michigan	89.62	17.00	3.15	\$32,952	3.78	18.78	3.22	\$32,174	3.82
Minnesota	85.82	5.81	1.58	\$33,160	4.17	5.91	1.69	\$32,920	4.19

(continued)

Table B-1 (continued)
Weighted Mean Values Derived from Sampled Public Schools - Grade 4, Reading

Jurisdiction	Weighted Participation Rate After Substitution (%)	Weighted Mean Value Derived from Full Sample				Weighted Mean Value Derived from Responding Sample with Substitutes and School Nonresponse Adjustment			
		Percent Black	Percent Hispanic	Median Income	Type of Location	Percent Black	Percent Hispanic	Median Income	Type of Location
Mississippi	94.12	47.48	0.25	\$21,459	5.39	47.68	0.26	\$21,440	5.38
Missouri	99.03	14.93	1.03	\$28,886	4.10	14.96	1.05	\$28,870	4.08
Montana	78.48	0.59	1.68	\$24,569	5.34	0.62	1.52	\$24,679	5.29
Nevada	100.00	10.32	16.02	\$32,280	2.76	10.32	16.02	\$32,280	2.76
New Hampshire	70.48	0.86	0.85	\$40,014	4.98	0.83	0.84	\$39,927	4.97
New Mexico	99.06	2.66	47.20	\$24,434	3.99	2.67	46.93	\$24,488	3.99
New York	83.92	17.90	16.39	\$34,708	2.96	19.77	16.23	\$34,077	2.89
North Carolina	99.05	29.41	1.91	\$28,065	4.36	29.35	1.96	\$28,170	4.36
Oklahoma	100.00	9.94	4.83	\$25,948	4.06	9.94	4.83	\$25,948	4.06
Oregon	94.23	2.17	7.27	\$30,173	3.78	2.37	7.08	\$30,601	3.76
Rhode Island	100.00	7.20	10.21	\$31,644	3.75	7.20	10.21	\$31,644	3.75
South Carolina	97.02	41.37	0.62	\$27,099	4.59	41.65	0.61	\$26,915	4.59
Tennessee	97.15	24.30	0.58	\$25,857	3.78	24.40	0.61	\$26,071	3.74
Texas	97.08	16.14	34.49	\$28,298	2.90	15.92	34.93	\$28,322	2.87
Utah	100.00	0.62	5.68	\$32,177	3.94	0.62	5.68	\$32,177	3.94
Virgin Islands	100.00	82.83	14.89	—	7.00	82.83	14.89	—	7.00
Virginia	100.00	25.72	3.25	\$38,201	3.83	25.72	3.25	\$38,201	3.83
Washington	89.25	4.79	7.77	\$34,636	3.53	4.76	7.85	\$34,527	3.54
West Virginia	100.00	3.81	0.21	\$22,356	5.55	3.81	0.21	\$22,356	5.55
Wisconsin	82.04	10.03	3.65	\$32,285	3.96	10.37	3.93	\$32,058	4.00
Wyoming	100.00	1.04	6.40	\$30,865	5.15	1.04	6.40	\$30,865	5.15

Table B-2
Weighted Mean Values Derived from Sampled Public Schools - Grade 8, Reading

Jurisdiction	Weighted Participation Rate After Substitution (%)	Weighted Mean Value Derived From Full Sample				Weighted Mean Value Derived from Responding Sample with Substitutes and School Nonresponse Adjustment			
		Percent Black	Percent Hispanic	Median Income	Type of Location	Percent Black	Percent Hispanic	Median Income	Type of Location
Alabama	90.94	36.04	0.46	\$23,757	4.51	36.11	0.46	\$24,546	4.44
Arizona	97.48	4.17	27.95	\$30,706	2.61	4.17	27.85	\$30,711	2.57
Arkansas	96.79	23.18	0.99	\$22,166	5.00	23.98	0.98	\$22,175	4.94
California	83.74	8.64	36.69	\$36,334	2.58	9.12	38.89	\$36,126	2.55
Colorado	96.57	4.80	18.18	\$32,528	3.38	5.17	18.76	\$32,016	3.38
Connecticut	99.07	12.71	10.13	\$45,855	4.06	12.71	10.13	\$45,905	4.06
Delaware	100.00	29.33	3.49	\$35,472	3.89	29.33	3.49	\$35,472	3.89
District of Columbia	100.00	87.33	6.90	\$30,015	1.00	87.33	6.90	\$30,015	1.00
DoDEA/DDESS	100.00	—	—	\$23,801	3.13	—	—	\$23,801	3.13
DoDEA/DoDDS	100.00	—	—	—	—	—	—	—	—
Florida	100.00	27.56	12.02	\$28,843	2.88	27.56	12.02	\$28,843	2.88
Georgia	100.00	37.20	1.72	\$30,407	4.20	37.58	1.75	\$30,484	4.21
Hawaii	100.00	2.32	4.96	\$35,496	3.69	2.32	4.96	\$35,496	3.69
Illinois	81.12	20.86	11.93	\$34,509	3.15	24.16	13.22	\$33,802	2.98
Kansas	70.60	7.97	5.15	\$31,206	4.48	8.87	5.34	\$30,095	4.48
Kentucky	87.32	10.26	0.28	\$23,952	4.70	10.11	0.24	\$23,797	4.69
Louisiana	100.00	41.69	1.03	\$23,383	4.00	40.74	1.05	\$23,518	4.09
Maine	97.33	0.68	0.37	\$28,822	5.83	0.67	0.39	\$28,803	5.83
Maryland	85.45	34.50	2.89	\$41,452	3.33	34.61	3.11	\$42,032	3.30
Massachusetts	89.20	7.86	9.61	\$41,967	3.72	7.84	9.89	\$42,087	3.75
Minnesota	73.73	4.69	1.79	\$33,552	4.15	5.56	1.94	\$34,415	4.14

(continued)

Table B-2 (continued)
Weighted Mean Values Derived from Sampled Public Schools - Grade 8, Reading

Jurisdiction	Weighted Participation Rate After Substitution (%)	Weighted Mean Value Derived From Full Sample				Weighted Mean Value Derived from Responding Sample with Substitutes and School Nonresponse Adjustment			
		Percent Black	Percent Hispanic	Median Income	Type of Location	Percent Black	Percent Hispanic	Median Income	Type of Location
Mississippi	92.16	49.41	0.11	\$21,266	5.38	49.81	0.12	\$21,272	5.37
Missouri	96.51	16.07	0.66	\$28,409	4.15	16.41	0.64	\$28,465	4.14
Montana	77.81	0.32	1.51	\$24,647	5.46	0.38	1.53	\$24,357	5.37
Nevada	99.08	9.26	15.33	\$32,757	2.72	9.31	15.36	\$32,733	2.72
New Mexico	96.37	2.11	45.88	\$24,403	4.18	2.13	45.85	\$24,525	4.18
New York	77.27	19.20	16.29	\$35,042	3.06	20.29	19.15	\$34,111	2.88
North Carolina	99.94	30.84	1.39	\$28,520	4.32	30.83	1.38	\$28,518	4.32
Oklahoma	100.00	8.95	3.56	\$25,690	4.31	8.95	3.56	\$25,690	4.31
Oregon	87.53	2.41	5.56	\$30,064	3.81	2.62	5.58	\$30,411	3.71
Rhode Island	100.00	6.14	8.07	\$32,573	3.76	6.14	8.07	\$32,573	3.76
South Carolina	94.51	41.24	0.51	\$27,018	4.51	41.45	0.51	\$27,031	4.51
Tennessee	89.03	22.51	0.58	\$26,085	3.76	21.91	0.51	\$26,615	3.77
Texas	95.78	13.09	33.47	\$28,382	3.09	12.68	32.84	\$28,330	3.09
Utah	100.00	0.49	4.63	\$32,171	3.94	0.49	4.63	\$32,171	3.94
Virgin Islands	100.00	84.29	15.45	—	7.00	84.29	15.45	—	7.00
Virginia	100.00	26.61	2.35	\$38,728	3.82	26.61	2.35	\$38,728	3.82
Washington	86.13	4.58	6.26	\$34,473	3.61	4.52	6.40	\$34,681	3.64
West Virginia	100.00	3.28	0.13	\$22,394	5.48	3.28	0.13	\$22,394	5.48
Wisconsin	73.18	7.99	3.15	\$32,278	4.13	9.56	3.67	\$31,386	4.15
Wyoming	94.91	0.84	6.33	\$31,294	5.15	0.87	6.32	\$31,584	5.15

Table B-3
Weighted Mean Values Derived from Sampled Public Schools - Grade 8, Writing

Jurisdiction	Weighted Participation Rate After Substitution (%)	Weighted Mean Value Derived from Full Sample				Weighted Mean Value Derived from Responding Sample with Substitutes and School Nonresponse Adjustment			
		Percent Black	Percent Hispanic	Median Income	Type of Location	Percent Black	Percent Hispanic	Median Income	Type of Location
Alabama	90.31	36.11	0.46	\$23,703	4.50	35.96	0.46	\$24,467	4.44
Arizona	97.84	4.23	27.28	\$30,917	2.55	4.22	27.20	\$30,954	2.51
Arkansas	96.79	23.73	0.98	\$22,211	5.00	24.54	0.97	\$22,222	4.94
California	83.15	8.35	36.80	\$36,356	2.59	8.77	39.24	\$36,184	2.55
Colorado	96.57	4.92	18.20	\$32,609	3.35	5.16	18.49	\$32,136	3.35
Connecticut	99.07	12.71	10.13	\$45,855	4.06	12.71	10.13	\$45,905	4.06
Delaware	100.00	29.31	3.49	\$35,484	3.89	29.31	3.49	\$35,484	3.89
District of Columbia	100.00	87.33	6.90	\$29,977	1.00	87.33	6.90	\$29,977	1.00
DoDEA/DDESS	100.00	—	—	\$24,229	3.26	—	—	\$24,229	3.26
DoDEA/DoDDS	100.00	—	—	—	—	—	—	—	—
Florida	100.00	27.38	11.95	\$28,800	2.91	27.38	11.95	\$28,800	2.91
Georgia	100.00	37.20	1.72	\$30,407	4.20	37.58	1.75	\$30,484	4.21
Hawaii	100.00	2.34	4.84	\$35,546	3.66	2.34	4.84	\$35,546	3.66
Illinois	80.28	20.91	11.39	\$34,569	3.21	24.30	12.59	\$33,968	3.04
Kentucky	87.14	10.41	0.29	\$24,020	4.67	10.25	0.25	\$23,851	4.66
Louisiana	100.00	42.61	1.02	\$23,443	3.97	42.08	1.03	\$23,562	4.04
Maine	97.34	0.63	0.39	\$28,769	5.85	0.63	0.41	\$28,753	5.85
Maryland	86.42	34.50	2.89	\$41,452	3.33	34.63	3.11	\$41,845	3.30
Massachusetts	89.28	7.81	9.54	\$41,838	3.75	7.79	9.82	\$41,943	3.77
Minnesota	73.51	4.72	1.80	\$33,491	4.16	5.60	1.95	\$34,356	4.15
Mississippi	92.16	49.25	0.11	\$21,275	5.38	49.66	0.12	\$21,277	5.37

(continued)

Table B-3 (continued)
Weighted Mean Values Derived from Sampled Public Schools - Grade 8, Writing

Jurisdiction	Weighted Participation Rate After Substitution (%)	Weighted Mean Value Derived from Full Sample				Weighted Mean Value Derived from Responding Sample with Substitutes and School Nonresponse Adjustment			
		Percent Black	Percent Hispanic	Median Income	Type of Location	Percent Black	Percent Hispanic	Median Income	Type of Location
Missouri	97.08	16.37	0.67	\$28,644	4.10	16.72	0.65	\$28,717	4.09
Montana	77.60	0.34	1.45	\$24,700	5.45	0.36	1.53	\$24,505	5.36
Nevada	99.08	9.26	15.57	\$32,788	2.72	9.32	15.61	\$32,764	2.72
New Mexico	96.40	2.09	45.88	\$24,324	4.21	2.12	45.99	\$24,469	4.19
New York	77.27	19.20	16.29	\$35,042	3.06	20.29	19.15	\$34,111	2.88
North Carolina	100.00	30.84	1.38	\$28,472	4.31	30.84	1.38	\$28,472	4.31
Oklahoma	100.00	8.99	3.56	\$25,777	4.31	8.99	3.56	\$25,777	4.31
Oregon	87.53	2.42	5.84	\$30,089	3.83	2.64	5.91	\$30,473	3.73
Rhode Island	100.00	6.14	8.10	\$32,571	3.77	6.14	8.10	\$32,571	3.77
South Carolina	94.48	41.42	0.51	\$27,090	4.50	41.63	0.51	\$27,103	4.50
Tennessee	89.03	22.48	0.58	\$26,073	3.76	21.88	0.52	\$26,604	3.77
Texas	96.41	12.83	33.97	\$28,487	3.07	12.55	33.34	\$28,433	3.07
Utah	100.00	0.49	4.63	\$32,148	3.94	0.49	4.63	\$32,148	3.94
Virgin Islands	100.00	84.29	15.45	—	7.00	84.29	15.45	—	7.00
Virginia	100.00	26.61	2.35	\$38,728	3.82	26.61	2.35	\$38,728	3.82
Washington	86.59	4.63	6.33	\$34,606	3.58	4.57	6.49	\$34,764	3.60
West Virginia	100.00	3.36	0.12	\$22,408	5.49	3.36	0.12	\$22,408	5.49
Wisconsin	72.91	8.02	3.16	\$32,321	4.11	9.63	3.67	\$31,384	4.13
Wyoming	100.00	0.87	6.23	\$31,336	5.13	0.87	6.23	\$31,336	5.13

Table B-4
Weighted Mean Values Derived from Sampled Nonpublic Schools – Grade 4, Reading

Jurisdiction	Weighted Participation Rate after Substitution (%)	Weighted Mean Value Derived from Full Sample		Weighted Mean Values Derived from Responding Sample, with Substitutes and School Nonresponse Adjustment	
		Percent Catholic	Percent Urban	Percent Catholic	Percent Urban
Colorado	85.98	38	94	49	100
Connecticut	81.59	76	94	77	92
Florida	78.21	35	95	45	94
Georgia	80.08	12	80	15	84
Hawaii	85.46	39	84	42	86
Iowa	91.89	75	48	82	48
Louisiana	80.86	57	86	57	79
Massachusetts	84.12	72	100	79	100
Michigan	73.38	49	89	49	85
Minnesota	81.21	65	75	66	69
Missouri	79.81	70	85	80	91
Montana	87.76	56	5	64	0
Nebraska	98.90	75	64	80	62
Nevada	88.57	29	98	37	98
New Mexico	91.48	23	57	32	68
North Carolina	90.44	10	81	12	76
Rhode Island	95.94	80	94	89	93
South Carolina	95.80	17	70	20	69
Utah	75.49	29	96	39	95
Virgin Islands	96.29	14	0	14	0
Washington	76.74	36	97	33	96
West Virginia	85.63	74	58	95	75
Wyoming	96.10	51	49	68	43

Table B-5*Weighted Mean Values Derived from Sampled Nonpublic Schools – Grade 8, Reading*

Jurisdiction	Weighted Participation Rate After Substitution (%)	Weighted Mean Value Derived from Full Sample		Weighted Mean Values Derived from Responding Sample, with Substitutes and School Nonresponse Adjustment	
		Percent Catholic	Percent Urban	Percent Catholic	Percent Urban
Arkansas	85.71	23	80	26	93
California	79.46	53	97	66	96
Colorado	100.00	44	100	37	100
Connecticut	84.02	75	93	81	100
Florida	73.72	34	100	46	100
Georgia	100.00	21	72	21	72
Louisiana	77.87	70	92	70	93
Maryland	82.35	57	98	69	100
Missouri	89.62	85	83	91	81
Montana	81.78	64	24	67	30
Nebraska	89.01	70	62	79	62
Nevada	88.29	39	100	49	100
New Mexico	83.14	35	60	37	50
New York	72.51	52	93	71	95
North Carolina	83.60	13	73	16	81
Rhode Island	85.33	80	97	86	96
Virgin Islands	100.00	13	0	13	0
Washington	100.00	61	100	49	100
West Virginia	87.38	58	71	67	81
Wyoming	95.33	49	56	51	58

Table B-6*Weighted Mean Values Derived from Sampled Nonpublic Schools – Grade 8, Writing*

Jurisdiction	Weighted Participation Rate After Substitution (%)	Weighted Mean Value Derived from Full Sample		Weighted Mean Values Derived from Responding Sample, with Substitutes and School Nonresponse Adjustment	
		Percent Catholic	Percent Urban	Percent Catholic	Percent Urban
Arkansas	82.74	0.34	0.70	0.47	0.87
California	84.12	0.44	0.96	0.53	0.95
Florida	84.97	0.38	0.94	0.50	0.92
Georgia	87.91	0.14	0.84	0.16	0.81
Louisiana	90.30	0.74	0.89	0.74	0.88
Maryland	78.57	0.51	0.91	0.55	0.95
Massachusetts	70.49	0.69	1.00	0.84	1.00
Montana	100.00	0.47	0.27	0.52	0.20
Nebraska	91.58	0.71	0.60	0.71	0.62
Nevada	95.06	0.67	0.77	0.70	0.81
New Mexico	80.00	0.32	0.63	0.36	0.50
New York	80.16	0.57	0.99	0.57	1.00
North Carolina	78.35	0.00	0.88	0.00	0.92
Rhode Island	82.09	0.81	0.92	0.86	0.95
Virgin Islands	82.01	0.24	0.00	0.30	0.00
Washington	92.25	0.33	0.89	0.30	0.88
West Virginia	84.99	0.58	0.49	0.68	0.58
Wyoming	76.55	0.39	0.37	0.52	0.17

Table B-7

Weighted Student Percentages Derived from Sampled Public Schools – Grade 4, Reading

Jurisdiction	Weighted Student Participation (%)	Weighted Estimates Derived from Full Sample							Weighted Estimates Derived from Assessed Sample with Student Nonresponse Adjustment						
		Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)
Alabama	96.00	51.11	60.44	31.02	5.34	5.18	0.13	121.40	51.19	61.19	30.17	5.68	5.30	0.11	121.43
Arizona	93.84	49.22	54.35	4.66	33.81	5.57	8.49	120.29	49.43	54.09	4.63	33.92	5.49	8.47	120.29
Arkansas	95.06	50.53	69.94	21.53	5.91	5.86	0.52	120.81	50.43	70.48	20.47	6.14	5.76	0.51	120.77
California	93.19	48.12	41.90	9.01	33.58	3.01	15.48	117.42	47.54	42.48	8.56	33.49	2.83	15.81	117.45
Colorado	94.08	49.90	69.24	5.71	20.17	6.82	2.40	120.17	49.50	68.77	5.82	20.48	6.81	2.42	120.14
Connecticut	94.04	47.93	72.74	10.53	12.37	6.24	1.55	117.78	47.95	72.64	10.57	12.34	6.24	1.54	117.75
Delaware	93.88	50.79	60.14	26.26	9.42	10.22	2.10	117.82	51.01	59.97	26.03	9.64	10.20	2.12	117.77
District of Columbia	93.06	48.64	6.77	75.98	13.98	3.12	4.20	118.56	48.05	6.98	74.81	14.68	3.03	4.30	118.50
DoDEA/DDESS	95.53	49.10	46.83	28.39	18.58	3.65	0.39	119.27	49.35	46.73	28.60	18.89	3.63	0.41	119.27
DoDEA/DoDDS	94.03	50.26	47.31	17.48	15.31	3.17	0.94	118.78	50.31	47.22	17.88	15.63	3.15	0.97	118.77
Florida	93.87	49.85	52.68	24.28	19.68	8.71	3.17	120.47	49.91	52.08	24.38	20.14	8.62	3.24	120.45
Georgia	95.51	49.57	50.85	37.85	7.50	4.73	0.40	120.95	49.73	51.16	37.37	7.54	4.74	0.47	120.92
Hawaii	94.50	50.65	19.72	5.12	19.76	6.75	4.32	116.50	50.43	19.95	5.26	20.75	6.75	4.34	116.50
Illinois	94.84	50.45	56.87	22.24	14.76	5.77	2.50	120.35	50.56	61.97	18.61	13.09	4.96	2.14	120.35
Iowa	96.10	50.71	86.36	3.97	6.19	8.67	0.75	120.83	50.55	86.49	3.80	6.20	8.31	0.66	120.83
Kansas	93.36	53.13	74.33	9.80	10.42	6.47	1.26	121.41	52.86	73.93	9.83	10.70	6.39	1.29	121.36
Kentucky	95.97	50.40	86.27	8.37	3.22	4.69	0.12	120.47	50.04	85.60	8.83	3.41	4.70	0.12	120.42
Louisiana	95.19	49.82	47.58	41.90	7.29	5.48	0.54	121.01	49.34	50.10	39.58	7.11	5.46	0.52	121.01
Maine	92.99	51.46	91.15	1.58	4.02	7.24	0.70	120.11	51.42	90.57	1.57	4.31	7.18	0.75	120.12
Maryland	95.05	50.32	52.70	32.49	8.41	4.88	1.26	116.73	49.68	52.61	32.16	8.72	4.80	1.35	116.71
Massachusetts	94.90	48.44	78.27	6.32	9.95	11.14	2.46	119.27	48.39	77.77	6.49	10.10	11.05	2.59	119.28
Michigan	93.38	50.03	70.63	16.96	8.65	2.82	0.89	119.38	49.37	72.49	13.99	8.99	3.03	0.84	119.32
Minnesota	93.91	50.87	82.27	5.59	6.28	9.24	3.00	120.74	50.59	81.93	5.73	6.56	9.24	3.02	120.69
Mississippi	94.96	49.44	50.16	42.71	5.59	2.89	0.09	122.63	49.28	50.00	42.55	5.87	2.89	0.09	122.58

(continued)

Table B-7 (continued)

Weighted Student Percentages Derived from Sampled Public Schools – Grade 4, Reading

Jurisdiction	Weighted Student Participation (%)	Weighted Estimates Derived from Full Sample							Weighted Estimates Derived from Assessed Sample with Student Nonresponse Adjustment						
		Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)
		Missouri	95.31	51.12	75.35	15.15	6.60	7.42	0.47	122.12	51.46	75.51	14.74	6.73	7.33
Montana	95.43	50.38	83.04	1.19	6.85	6.70	0.27	121.67	50.51	82.99	1.15	6.98	6.75	0.27	121.73
Nevada	94.40	50.50	60.20	9.12	22.93	4.53	4.57	119.13	50.31	59.53	8.77	23.67	4.48	4.62	119.14
New Hampshire	92.91	51.16	89.35	1.60	5.52	10.00	0.47	120.04	50.81	89.02	1.61	5.80	9.99	0.48	120.06
New Mexico	94.45	49.47	39.39	3.38	45.86	6.81	13.07	120.40	49.48	39.09	3.44	46.02	6.76	13.31	120.41
New York	95.09	48.91	57.15	17.28	19.57	4.76	2.47	117.54	48.71	59.78	15.91	18.38	4.84	2.31	117.62
North Carolina	94.00	50.18	62.61	26.74	6.89	6.12	1.28	119.64	49.71	62.01	26.86	7.15	6.03	1.39	119.66
Oklahoma	94.92	49.96	69.79	7.58	9.65	4.65	2.00	123.03	49.85	70.22	7.62	9.49	4.66	2.00	123.02
Oregon	94.54	49.60	74.75	3.13	13.04	9.41	4.85	119.85	49.15	74.58	2.97	13.09	9.25	5.07	119.81
Rhode Island	94.23	52.30	74.93	6.68	13.92	9.80	4.27	117.93	52.88	74.59	6.77	14.11	9.85	4.24	117.91
South Carolina	95.45	48.80	54.38	37.06	5.84	7.04	0.51	119.06	48.59	53.58	37.47	6.14	7.03	0.51	119.09
Tennessee	94.43	50.00	69.68	23.79	4.30	8.73	0.47	120.80	50.11	69.89	23.37	4.46	8.83	0.50	120.78
Texas	95.32	51.42	48.64	14.57	32.94	8.97	6.71	120.76	50.14	47.13	15.10	33.86	8.41	7.07	120.69
Utah	95.26	52.00	78.63	1.79	13.79	6.39	2.83	119.94	52.07	78.26	1.88	14.18	6.28	2.94	119.92
Virgin Islands	95.62	47.55	3.16	75.45	19.33	0.64	1.55	118.73	47.37	3.28	75.10	19.47	0.60	1.60	118.66
Virginia	94.79	49.98	62.85	23.67	7.92	6.62	1.82	119.61	49.96	62.51	23.57	8.22	6.61	1.84	119.63
Washington	94.42	50.92	73.82	4.58	10.28	7.82	3.07	120.40	51.03	73.45	4.44	10.71	7.82	3.04	120.36
West Virginia	94.03	48.50	88.10	3.63	5.30	3.36	0.11	120.73	48.25	87.63	3.63	5.61	3.36	0.12	120.67
Wisconsin	94.95	50.98	79.07	9.17	8.05	6.33	1.29	120.71	50.71	79.00	8.85	8.21	6.21	1.33	120.70
Wyoming	95.19	51.34	80.91	1.20	11.70	9.97	0.51	121.06	51.41	80.51	1.23	11.95	9.95	0.53	121.05

Table B-8

Weighted Student Percentages Derived from Sampled Public Schools – Grade 8, Reading

Jurisdiction	Weighted Student Participation (%)	Weighted Estimates Derived from Full Sample							Weighted Estimates Derived from Assessed Sample with Student Nonresponse Adjustment						
		Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)
		Alabama	92.73	50.07	59.48	33.81	4.39	5.93	0.15	170.16	49.94	62.04	31.49	4.18	5.96
Arizona	90.61	50.70	57.72	4.23	29.99	5.42	7.06	169.18	50.59	57.16	4.19	30.38	5.12	7.29	169.14
Arkansas	92.23	51.50	72.67	21.49	3.29	5.43	0.44	169.73	51.45	73.06	20.68	3.60	5.62	0.46	169.63
California	90.86	49.53	35.90	9.18	41.56	5.58	13.95	166.64	50.22	37.43	8.33	41.03	5.73	13.86	166.63
Colorado	91.07	52.19	68.12	4.63	22.40	7.01	3.03	169.04	52.19	68.28	4.63	22.07	6.94	3.08	168.99
Connecticut	91.38	52.27	74.04	11.64	9.87	8.28	0.59	166.93	52.01	74.05	11.42	9.78	8.30	0.58	166.87
Delaware	90.73	50.48	62.72	27.20	6.75	9.04	1.31	167.38	50.41	62.77	26.48	7.24	9.07	1.37	167.35
District of Columbia	85.62	46.28	4.31	84.37	8.76	5.95	1.53	168.33	47.36	4.44	82.74	9.99	5.78	1.74	168.16
DoDEA/DDESS	95.02	53.32	41.09	27.04	26.13	5.59	0.76	167.75	52.52	41.24	26.59	26.30	5.52	0.83	167.70
DoDEA/DoDDS	93.59	51.45	46.94	19.01	14.20	4.93	0.80	167.07	51.24	46.68	19.10	14.86	4.95	0.78	167.05
Florida	89.41	49.42	52.68	25.03	18.34	9.86	2.78	169.79	49.37	51.88	24.36	19.50	9.62	3.04	169.68
Georgia	90.33	50.95	57.26	34.31	4.64	6.28	1.09	170.12	51.13	57.31	34.01	4.84	6.42	1.08	170.07
Hawaii	90.80	50.30	16.20	2.53	15.13	7.33	2.81	165.58	50.47	15.89	2.70	16.48	7.10	3.00	165.51
Illinois	92.99	46.83	58.19	21.62	15.95	6.23	2.01	168.61	47.51	64.51	17.40	14.24	6.01	1.68	168.55
Kansas	91.56	50.49	80.50	8.05	7.84	6.49	1.13	169.91	50.25	79.98	8.15	8.17	6.53	1.10	169.89
Kentucky	93.17	51.80	87.54	9.14	1.75	5.50	0.30	169.92	51.83	87.33	9.07	1.93	5.51	0.30	169.85
Louisiana	91.38	49.80	55.98	37.63	4.50	6.91	—	171.41	50.04	55.09	38.15	4.73	6.87	—	171.19
Maine	91.98	50.55	93.47	1.07	1.90	8.16	0.25	169.97	50.17	93.12	1.10	2.08	8.13	0.28	169.89
Maryland	88.89	50.61	56.52	32.38	6.17	6.51	0.55	165.59	50.51	57.38	30.62	6.87	6.44	0.70	165.52
Massachusetts	90.50	50.75	76.45	6.93	11.12	11.18	0.96	168.28	50.87	75.92	6.88	11.43	11.11	1.04	168.25
Minnesota	92.92	51.21	83.93	4.17	4.49	8.40	2.74	169.44	51.62	84.16	3.82	4.42	8.42	2.70	169.40
Mississippi	92.18	48.87	49.94	44.20	4.14	4.31	0.18	172.43	48.49	49.88	44.02	4.50	4.28	0.22	172.27
Missouri	92.30	51.56	80.38	14.82	2.39	7.79	0.28	170.45	51.74	81.16	13.91	2.53	7.82	0.25	170.42
Montana	91.53	47.98	86.93	0.69	3.85	7.74	0.34	169.94	48.31	87.04	0.76	4.00	7.90	0.34	170.01
Nevada	90.78	51.98	62.49	8.05	21.90	5.91	3.39	167.87	51.84	61.77	8.14	22.40	5.85	3.48	167.86

(continued)

Table B-8 (continued)

Weighted Student Percentages Derived from Sampled Public Schools – Grade 8, Reading

Jurisdiction	Weighted Student Participation (%)	Weighted Estimates Derived from Full Sample							Weighted Estimates Derived from Assessed Sample with Student Nonresponse Adjustment						
		Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)
New York	88.35	49.57	54.97	18.14	20.43	5.83	2.09	167.20	49.74	56.80	16.59	19.87	5.69	1.94	167.07
North Carolina	92.34	48.67	63.34	27.76	3.83	6.60	0.56	168.64	48.48	63.15	27.75	3.95	6.56	0.59	168.54
Oklahoma	91.20	48.99	71.06	8.49	6.84	3.74	1.40	171.49	49.37	71.66	8.51	7.20	3.68	1.46	171.41
Oregon	89.34	50.38	81.20	2.56	8.43	8.85	2.24	168.49	51.06	81.13	2.54	8.14	8.81	2.19	168.48
Rhode Island	88.47	50.69	79.34	5.86	10.29	9.85	1.93	167.42	50.18	78.88	5.92	10.61	9.79	1.96	167.32
South Carolina	92.55	48.55	56.29	37.53	4.08	6.20	0.23	168.89	48.37	55.99	37.45	4.36	6.18	0.26	168.79
Tennessee	90.45	48.90	73.42	21.33	3.32	8.98	0.28	170.02	48.86	73.49	20.79	3.63	8.89	0.26	169.86
Texas	92.76	50.31	47.80	11.96	35.59	8.67	5.53	169.99	49.83	47.53	12.20	35.46	8.71	5.41	169.94
Utah	89.68	50.96	85.95	0.55	7.60	5.97	1.64	167.97	51.06	85.70	0.52	7.71	5.92	1.59	168.01
Virgin Islands	87.84	48.63	0.96	80.19	17.35	—	—	170.89	47.66	1.11	78.88	18.48	—	—	170.72
Virginia	91.20	49.93	64.99	24.65	5.71	6.54	0.63	168.06	49.89	64.81	24.35	5.99	6.52	0.66	167.96
Washington	90.95	51.80	75.05	3.52	10.30	7.41	1.77	168.77	51.22	74.92	3.52	10.41	7.34	1.85	168.71
West Virginia	91.07	50.03	92.46	3.39	1.87	6.57	0.06	169.56	49.69	92.03	3.45	2.07	6.56	0.06	169.50
Wisconsin	92.44	50.50	81.27	9.42	4.96	7.78	0.59	169.56	50.51	81.71	8.88	5.22	7.72	0.60	169.54
Wyoming	91.15	51.88	84.34	1.20	9.12	8.08	0.28	169.78	52.30	84.22	1.25	9.22	8.08	0.27	169.75

Table B-9

Weighted Student Percentages Derived from Sampled Public Schools – Grade 8, Writing

Jurisdiction	Weighted Student Participation (%)	Weighted Estimates Derived from Full Sample							Weighted Estimates Derived from Assessed Sample with Student Nonresponse Adjustment						
		Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)
		Alabama	92.42	49.82	62.44	30.83	4.17	6.28	0.29	170.13	49.25	64.05	28.82	4.43	6.22
Arizona	89.23	51.19	55.02	3.83	31.01	5.83	7.50	169.14	50.85	54.75	3.87	31.25	6.08	7.44	169.08
Arkansas	92.28	50.05	71.01	21.85	4.56	6.71	0.44	169.79	49.94	71.11	21.38	4.79	6.94	0.38	169.72
California	91.78	47.92	34.75	7.95	44.30	5.34	13.71	166.34	47.71	36.88	7.15	43.18	4.92	13.95	166.30
Colorado	90.78	50.80	69.54	4.49	20.75	6.59	2.88	168.97	50.79	69.06	4.48	20.99	6.54	2.94	168.91
Connecticut	90.21	50.64	73.78	11.79	11.48	8.51	0.32	166.98	50.28	73.88	11.35	11.75	8.53	0.30	166.94
Delaware	90.95	50.81	63.15	25.19	7.72	10.71	0.86	167.24	50.70	63.47	24.04	8.27	10.68	0.89	167.22
District of Columbia	84.59	48.49	3.96	84.05	8.83	5.79	2.00	168.40	48.27	4.10	82.82	9.67	5.73	2.14	168.13
DoDEA/DDESS	95.45	50.37	41.56	26.73	25.99	6.31	0.88	167.82	50.61	41.24	26.08	26.98	6.31	0.88	167.77
DoDEA/DoDDS	92.77	49.32	47.11	17.64	15.90	4.55	1.11	167.17	49.42	46.47	18.03	16.79	4.52	1.14	167.12
Florida	88.60	49.67	52.08	25.70	18.36	9.36	2.55	169.78	49.01	50.61	26.04	19.18	9.24	2.72	169.74
Georgia	90.08	51.63	57.50	34.02	5.02	5.95	0.95	169.94	51.69	57.81	33.50	5.13	5.95	0.87	169.90
Hawaii	91.62	52.58	14.52	3.16	18.67	7.67	3.80	165.71	52.59	14.93	3.21	19.94	7.69	3.84	165.68
Illinois	92.42	51.29	59.54	21.37	15.76	6.87	2.19	168.83	52.00	64.34	17.52	14.57	6.74	2.08	168.66
Kentucky	92.82	49.39	85.50	9.58	2.84	6.89	0.38	169.41	49.50	85.43	9.49	2.96	6.86	0.36	169.35
Louisiana	90.65	47.39	55.85	37.62	4.10	8.00	0.19	170.91	47.32	55.20	37.59	4.67	8.10	0.20	170.73
Maine	91.04	49.49	92.03	1.59	2.16	8.36	0.45	169.45	49.40	91.53	1.59	2.39	8.35	0.46	169.42
Maryland	88.53	50.69	55.25	33.37	5.94	10.64	0.60	165.91	50.02	55.89	31.94	6.26	10.62	0.61	165.84
Massachusetts	91.89	50.82	77.89	5.41	11.29	12.25	0.68	168.09	51.00	77.61	5.53	11.34	12.30	0.62	168.02
Minnesota	90.23	51.61	82.44	4.76	5.20	8.69	3.20	169.52	51.14	82.25	4.83	5.68	8.41	3.46	169.52
Mississippi	92.20	49.57	48.72	44.43	4.61	4.90	0.07	171.98	49.31	48.55	44.11	4.97	4.94	0.04	171.81
Missouri	91.84	51.01	79.92	13.51	4.05	10.41	0.38	170.73	50.58	80.34	12.80	4.20	10.25	0.38	170.70
Montana	92.50	49.82	86.17	1.09	5.68	8.39	0.29	170.39	50.36	85.90	1.25	6.02	8.56	0.31	170.40
Nevada	89.22	50.94	59.46	8.40	23.53	7.33	4.11	167.88	50.49	58.68	8.24	24.17	7.17	4.28	167.88
New York	87.35	51.20	53.49	18.29	21.48	8.04	1.96	167.03	50.64	55.21	16.63	20.72	7.98	2.01	167.07

(continued)

Table B-9 (continued)
Weighted Student Percentages Derived from Sampled Public Schools – Grade 8, Writing

Jurisdiction	Weighted Student Participation (%)	Weighted Estimates Derived from Full Sample							Weighted Estimates Derived from Assessed Sample with Student Nonresponse Adjustment						
		Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)
North Carolina	92.50	51.36	62.14	27.11	4.45	9.52	0.93	169.01	50.91	61.81	26.97	4.83	9.33	1.12	169.02
Oklahoma	92.16	52.05	73.50	7.23	7.46	4.17	0.81	171.38	51.90	73.04	7.07	7.97	4.20	0.78	171.28
Oregon	89.36	51.54	79.82	2.36	9.87	10.50	1.76	168.38	51.21	79.82	2.44	9.66	10.28	1.75	168.36
Rhode Island	88.92	50.97	76.08	7.17	11.86	10.93	2.43	167.39	50.81	75.46	7.01	12.22	10.84	2.50	167.28
South Carolina	91.43	51.35	54.73	36.74	5.06	7.19	0.08	169.11	51.22	54.46	36.46	5.46	7.17	0.09	168.98
Tennessee	90.97	48.24	73.97	20.59	3.29	8.94	0.54	170.13	48.21	73.29	20.81	3.69	8.73	0.56	169.97
Texas	92.77	49.05	47.70	11.92	36.25	9.52	4.60	170.04	49.14	47.65	12.15	36.08	9.49	4.62	170.00
Utah	89.86	49.51	84.23	1.17	8.93	5.45	1.23	167.86	48.80	83.60	1.19	9.24	5.50	1.22	167.84
Virgin Islands	86.97	46.60	0.85	76.63	20.54	0.14	—	170.83	44.43	0.99	76.46	20.43	0.14	—	170.64
Virginia	90.91	51.80	64.62	24.24	6.09	8.95	0.89	168.21	51.94	64.57	23.88	6.35	8.91	0.93	168.11
Washington	89.17	49.21	74.38	4.31	10.96	7.65	2.37	168.83	48.92	73.60	3.99	11.58	7.56	2.49	168.82
West Virginia	90.97	52.03	90.33	3.96	2.83	9.23	0.03	169.65	51.55	89.83	4.08	3.10	9.27	—	169.58
Wisconsin	92.14	50.85	80.31	8.89	6.15	6.75	0.76	169.38	50.93	80.50	7.99	6.62	6.60	0.93	169.36
Wyoming	92.13	52.46	83.09	1.35	10.34	6.86	0.11	169.83	52.18	82.87	1.45	10.66	6.86	0.09	169.76

Table B-10
Weighted Student Percentages Derived from All Schools Sampled – Grade 4, Reading

Jurisdiction	Weighted Student Participation (%)		Weighted Estimates Derived from Full Sample							Weighted Estimates Derived from Assessed Sample with Student Nonresponse Adjustment						
	Public	Non Public	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)
Arkansas	95.06	96.98	50.75	71.06	20.49	5.77	5.69	0.49	120.79	50.57	71.89	19.17	6.00	5.53	0.47	120.79
Colorado	94.08	95.32	50.09	70.23	5.39	19.46	6.61	2.23	120.14	49.53	70.02	5.42	19.58	6.50	2.21	120.15
Connecticut	94.04	95.31	47.49	72.91	9.99	12.93	5.96	1.40	117.71	47.54	72.79	10.07	12.89	5.97	1.39	117.68
Florida	93.87	93.85	49.92	55.32	21.75	19.47	8.11	2.80	120.48	49.93	54.84	21.85	19.80	8.02	2.87	120.47
Georgia	95.51	97.18	49.73	51.20	37.30	7.63	4.45	0.41	120.85	49.92	51.36	36.93	7.71	4.50	0.47	120.84
Hawaii	94.50	96.79	50.94	19.68	4.64	18.83	5.93	3.83	116.65	50.88	19.95	4.72	19.58	5.88	3.82	116.66
Illinois	94.84	96.20	50.69	61.00	18.54	15.27	4.63	2.00	120.13	50.66	64.20	16.35	13.88	4.18	1.83	120.17
Iowa	96.10	98.11	51.16	87.45	3.61	5.85	7.74	0.68	120.89	51.01	87.42	3.51	5.91	7.53	0.61	120.88
Louisiana	95.19	94.91	49.46	53.50	36.24	6.88	5.24	0.44	120.79	49.04	55.41	34.38	6.81	5.24	0.43	120.82
Maine	92.99	94.01	51.37	91.12	1.55	4.13	7.16	0.76	120.09	51.25	90.53	1.53	4.48	7.05	0.80	120.10
Maryland	95.05	98.02	50.10	54.85	30.97	8.21	4.43	1.09	116.80	49.59	54.71	30.70	8.50	4.35	1.17	116.77
Massachusetts	94.90	93.50	48.45	79.02	6.05	9.77	9.96	2.22	119.33	48.45	78.65	6.12	9.93	9.87	2.33	119.34
Michigan	93.38	94.69	49.92	73.20	15.16	8.25	2.48	0.76	119.33	49.26	74.43	12.82	8.60	2.72	0.74	119.28
Minnesota	93.91	95.07	51.26	83.57	4.97	5.92	8.40	2.64	120.73	50.93	83.24	5.10	6.19	8.39	2.65	120.68
Mississippi	94.96	97.94	49.12	52.69	40.19	5.36	2.65	0.08	122.48	49.01	52.81	39.75	5.61	2.62	0.15	122.39
Missouri	95.31	95.89	51.31	76.24	14.78	6.20	6.60	0.41	122.01	51.31	76.44	14.37	6.35	6.46	0.41	121.99
Montana	95.43	93.62	50.55	82.44	1.18	7.15	6.66	0.26	121.68	50.68	82.36	1.14	7.29	6.72	0.26	121.74
Nevada	94.40	95.32	50.69	60.44	8.87	23.00	4.35	4.39	119.15	50.39	60.11	8.45	23.52	4.27	4.41	119.18
New Hampshire	92.91		51.16	89.35	1.60	5.52	10.00	0.47	120.04	50.81	89.02	1.61	5.80	9.99	0.48	120.06
New Mexico	94.45	95.25	49.91	38.32	3.23	44.99	6.88	12.25	120.38	49.92	36.96	3.20	43.99	6.71	13.07	120.36
New York	95.09	95.54	49.50	54.91	18.84	20.08	3.93	2.04	117.47	49.28	57.36	17.50	19.07	4.07	1.94	117.54
North Carolina	94.00	95.40	50.23	63.68	25.95	6.68	6.23	1.24	119.63	49.84	63.27	25.90	6.83	6.05	1.32	119.62

(continued)

Table B-10 (continued)
Weighted Student Percentages Derived from All Schools Sampled – Grade 4, Reading

Jurisdiction	Weighted Student Participation (%)		Weighted Estimates Derived from Full Sample							Weighted Estimates Derived from Assessed Sample with Student Nonresponse Adjustment						
	Public	Non Public	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)
Rhode Island	94.23	94.57	51.77	76.39	6.17	13.21	8.96	3.83	117.80	52.48	76.13	6.20	13.30	8.91	3.77	117.78
South Carolina	95.45	94.42	48.74	56.89	34.59	5.66	6.56	0.47	119.10	48.43	56.53	34.53	5.87	6.48	0.47	119.13
Virgin Islands	95.62	95.95	46.62	7.13	71.17	18.72	0.50	1.19	118.12	46.58	7.27	70.86	18.93	0.46	1.23	118.06
Washington	94.42	94.90	50.38	74.20	4.44	10.13	7.34	2.86	120.38	50.45	73.84	4.31	10.52	7.34	2.83	120.34
West Virginia	94.03	100.00	48.15	88.43	3.51	5.08	3.25	0.10	120.69	47.84	87.99	3.49	5.40	3.23	0.11	120.64
Wisconsin	94.95	96.43	51.30	80.41	7.73	8.10	5.33	1.07	120.60	51.02	79.58	7.40	8.34	5.19	1.10	120.54
Wyoming	95.19	90.68	51.43	80.89	1.16	11.89	9.67	0.50	121.02	51.64	80.54	1.19	12.09	9.57	0.51	121.01

Table B-11
Weighted Student Percentages Derived from All Schools Sampled – Grade 8, Reading

Jurisdiction	Weighted Student Participation (%)		Weighted Estimates Derived from Full Sample							Weighted Estimates Derived from Assessed Sample with Student Nonresponse Adjustment						
	Public	Non Public	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)
Arizona	90.61	89.53	50.20	54.64	4.28	29.03	5.35	6.63	169.09	50.33	53.77	4.28	29.39	5.11	7.11	169.14
Arkansas	92.23	96.96	51.33	73.46	20.77	3.23	5.18	0.42	169.68	51.34	73.83	19.99	3.53	5.36	0.44	169.59
California	90.86	96.6	50.75	37.94	8.30	39.55	4.93	12.21	166.52	51.27	39.10	7.66	39.38	5.14	12.34	166.52
Colorado	91.07	96.94	51.82	68.75	4.62	21.91	6.73	2.91	169.02	51.86	69.03	4.60	21.52	6.63	2.94	168.96
Connecticut	91.38	94.65	52.25	74.96	10.84	9.77	8.40	0.54	166.86	52.03	74.96	10.62	9.69	8.41	0.54	166.79
Florida	89.41	92.73	49.33	54.30	23.25	17.89	9.04	2.58	169.66	49.48	53.60	22.67	18.95	8.81	2.82	169.56
Georgia	90.33	95.24	50.84	58.81	32.73	4.71	5.83	1.01	169.95	51.07	58.72	32.55	4.92	5.98	1.01	169.93
Illinois	92.99	97.51	46.96	60.66	19.89	14.80	5.42	1.66	168.38	47.54	65.66	16.61	13.47	5.38	1.44	168.37
Louisiana	91.38	94.9	50.73	62.47	31.36	4.19	6.27	—	170.81	50.80	61.33	32.14	4.43	6.27	—	170.66
Maine	91.98	95.7	50.65	93.32	1.07	2.09	7.90	0.24	169.90	50.22	92.98	1.10	2.28	7.86	0.27	169.83
Maryland	88.89	95.63	50.98	59.98	29.56	5.91	5.81	0.48	165.56	50.90	60.68	28.02	6.55	5.75	0.61	165.49
Massachusetts	90.50	95.86	49.23	77.60	6.77	10.39	10.17	0.97	168.11	49.43	77.18	6.68	10.65	10.11	1.05	168.09
Missouri	92.30	96.15	52.30	80.93	14.29	2.30	7.30	0.25	170.36	52.40	81.61	13.47	2.44	7.34	0.22	170.34
Montana	91.53	98.34	47.93	87.08	0.73	3.72	7.33	0.32	169.94	48.25	87.17	0.79	3.87	7.50	0.32	170.01
Nevada	90.78	96.33	52.05	62.66	7.91	21.79	5.74	3.25	167.87	51.84	62.21	7.96	22.13	5.63	3.31	167.85
New Mexico	89.71	95.48	48.98	37.49	1.98	49.26	9.79	6.91	169.21	48.69	37.58	2.05	49.53	9.86	6.83	169.16
New York	88.35	94.92	50.20	56.87	17.72	19.32	5.37	1.81	166.91	50.29	58.16	16.49	18.98	5.28	1.71	166.81
North Carolina	92.34	95.56	48.67	64.39	26.70	3.94	6.26	0.53	168.60	48.56	63.95	26.89	4.09	6.27	0.57	168.52
Rhode Island	88.47	94.3	50.27	79.43	6.33	9.86	8.76	1.69	167.32	49.76	78.95	6.42	10.16	8.71	1.72	167.23
Virgin Islands	87.84	96.19	48.39	4.84	76.64	16.31	—	—	169.81	47.68	5.19	75.48	17.18	—	—	169.64
Washington	90.95	94.04	51.69	75.68	3.41	9.87	7.20	1.67	168.75	50.95	75.72	3.36	9.90	7.02	1.72	168.69
West Virginia	91.07	93.08	49.67	92.39	3.29	1.85	6.46	0.05	169.51	49.37	92.00	3.35	2.04	6.46	0.06	169.45
Wyoming	91.15	98.57	52.02	84.32	1.28	9.06	7.95	0.27	169.80	52.45	84.19	1.33	9.16	7.93	0.27	169.77

Table B-12
Weighted Student Percentages Derived from All Schools Sampled – Grade 8, Writing

Jurisdiction	Weighted Student Participation (%)		Weighted Estimates Derived from Full Sample							Weighted Estimates Derived from Assessed Sample with Student Nonresponse Adjustment						
	Public	Non Public	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)	Percent Male	Percent White	Percent Black	Percent Hispanic	Percent SD	Percent LEP	Mean Age (Months)
Arizona	89.23	96.03	51.35	54.77	3.98	31.23	5.73	7.11	169.19	51.15	54.73	4.01	31.33	6.03	7.10	169.12
Arkansas	92.28	95.89	49.76	72.36	20.67	4.37	6.36	0.42	169.74	49.57	72.48	20.13	4.57	6.51	0.36	169.67
California	91.78	97.52	47.26	36.37	7.65	42.59	4.91	12.48	166.30	47.16	38.11	6.97	41.75	4.57	12.85	166.27
Colorado	90.78	93.39	50.35	69.39	4.49	20.76	7.04	2.80	168.97	50.34	69.06	4.42	20.96	6.92	2.83	168.96
Connecticut	90.21	92.76	50.59	74.31	11.62	11.14	8.10	0.29	166.90	50.18	74.33	11.29	11.38	8.12	0.27	166.86
Florida	88.60	94.21	49.66	54.15	24.30	17.49	9.01	2.36	169.74	49.06	52.90	24.49	18.16	8.85	2.49	169.70
Georgia	90.08	94.18	51.38	59.51	32.00	4.99	5.57	0.89	169.82	51.43	59.79	31.54	5.07	5.58	0.82	169.78
Illinois	92.42	96.26	51.26	64.60	17.91	14.13	5.75	1.78	168.69	51.88	67.68	15.31	13.47	5.84	1.76	168.56
Louisiana	90.65	96.78	48.35	60.15	33.36	4.07	7.27	0.15	170.32	48.34	59.23	33.68	4.57	7.40	0.17	170.22
Maine	91.04	96.25	49.72	91.74	1.57	2.42	7.93	0.43	169.41	49.68	91.24	1.57	2.65	7.93	0.43	169.37
Maryland	88.53	96.39	50.75	57.18	31.36	5.60	9.37	0.55	165.91	50.41	57.98	29.84	5.84	9.26	0.55	165.83
Massachusetts	91.89	92.21	49.44	78.44	5.36	10.65	11.32	0.67	168.01	49.51	78.08	5.52	10.74	11.37	0.62	167.95
Missouri	91.84	96.2	50.90	81.41	12.07	4.03	9.34	0.37	170.62	50.97	81.84	11.45	4.13	9.11	0.37	170.56
Montana	92.50	95.68	49.92	84.82	1.06	6.02	7.95	0.27	170.33	50.36	84.64	1.20	6.36	8.17	0.29	170.33
Nevada	89.22	92.47	50.87	59.80	8.20	23.45	7.11	3.95	167.86	50.36	58.96	8.06	24.14	6.96	4.12	167.85
New Mexico	88.95	95.79	52.01	35.37	2.44	49.33	11.27	8.21	169.03	51.59	35.84	2.60	49.18	11.10	7.98	168.96
New York	87.35	95.56	51.07	53.80	19.71	20.13	6.98	2.62	166.62	50.60	55.12	18.24	19.65	7.02	2.60	166.70
North Carolina	92.50	95.16	51.21	63.52	25.83	4.50	8.97	0.86	168.99	50.82	63.15	25.73	4.87	8.80	1.04	169.00
Rhode Island	88.92	95.87	51.02	76.70	7.16	11.60	9.62	2.10	167.19	50.99	76.08	7.02	11.97	9.54	2.16	167.10
Virgin Islands	86.97	98.09	45.90	4.88	71.76	19.96	0.11	—	169.46	44.26	5.10	71.58	19.94	0.11	—	169.31
Washington	89.17	94.43	49.23	74.78	4.43	10.64	7.49	2.25	168.85	48.99	74.00	4.14	11.27	7.37	2.36	168.82
West Virginia	90.97	97.69	51.66	90.32	3.89	2.88	8.90	0.03	169.57	51.18	89.87	4.01	3.14	8.93	—	169.49
Wyoming	92.13	94.81	52.80	82.12	1.34	10.37	6.94	0.11	169.87	52.54	81.98	1.43	10.69	6.94	0.08	169.81

Table B-13
Final Collapsed Levels Used for Raking Dimensions for All Jurisdictions
Grade 4, Reading

Jurisdiction	Gender	Age	Race	SD	LEP
Alabama	X	X	W / *	—	—
Arizona	X	X	H / *	X	X
Arkansas	X	X	W / *	—	—
California	X	X	W / H / *	X	X
Colorado	X	X	W / H / *	X	X
Connecticut	X	X	W / H / *	X	X
Delaware	X	X	W / B / *	—	—
District of Columbia	X	X	B / *	X	X
DoDEA/DDESS	X	X	W / *	—	—
DoDEA/DoDDS	X	X	W / *	—	—
Florida	X	X	W / H / *	X	X
Georgia	X	X	W / *	—	—
Hawaii	X	X	H / A / *	X	X
Illinois	X	X	W / H / *	X	X
Iowa	X	X	—	—	—
Kansas	X	X	W / *	—	—
Kentucky	X	X	—	—	—
Louisiana	X	X	B / *	—	—
Maine	X	X	—	—	—
Maryland	X	X	W / *	—	—
Massachusetts	X	X	W / H / *	X	X
Michigan	X	X	—	—	-
Minnesota	X	X	W / *	X	X
Mississippi	—	X	B / *	—	—
Missouri	X	X	W / *	—	—
Montana	X	X	—	—	—
Nevada	X	X	W / H / *	X	X
New Hampshire	X	X	—	—	—
New Mexico	X	X	W / H / *	X	X

LEGEND

- X = Variable was not collapsed for raking
- W = White
- B = Black
- A = Asian or Pacific Islander
- N = American Indian or Alaskan Native
- = Variable was not used as a raking dimension (i.e., all levels were combined)
- * = All other levels of the dimension were combined into one level (e.g., in fourth grade for Florida, there are three levels of race: White, Hispanic, and all others combined)

(continued)

Table B-13 (continued)
Final Collapsed Levels Used for Raking Dimensions for All Jurisdictions
Grade 4, Reading

Jurisdiction	Gender	Age	Race	SD	LEP
New York	X	X	W / *	X	X
North Carolina	X	X	W / B / *	—	—
Oklahoma	X	X	W / N / *	—	—
Oregon	X	X	W / *	X	X
Rhode Island	X	X	W / *	X	X
South Carolina	X	X	W / *	—	—
Tennessee	X	X	W / *	—	—
Texas	X	X	W / H / *	X	X
Utah	X	X	W / *	X	X
Virgin Islands	—	—	—	—	—
Virginia	X	X	W / B / *	—	—
Washington	X	X	W / H / *	X	X
West Virginia	X	X	-	-	-
Wisconsin	X	X	W / B / *	X	X
Wyoming	X	X	W / *	-	-

LEGEND

- X = Variable was not collapsed for raking
- W = White
- B = Black
- A = Asian or Pacific Islander
- N = American Indian or Alaskan Native
- = Variable was not used as a raking dimension (i.e., all levels were combined)
- * = All other levels of the dimension were combined into one level (e.g., in fourth grade for Florida, there are three levels of race: White, Hispanic, and all others combined)

Table B-14
Final Collapsed Levels Used for Raking Dimensions for All Jurisdictions
Grade 8, Reading

Jurisdiction	Gender	Age	Race	SD	LEP
Alabama	X	X	W / *	—	—
Arizona	X	X	W / H / *	X	X
Arkansas	X	X	W / *	—	—
California	X	X	H / *	X	X
Colorado	X	X	H / *	X	X
Connecticut	X	X	W / *	—	—
Delaware	X	X	W / *	—	—
District of Columbia	X	X	—	—	—
DoDEA/DDESS	—	—	—	—	—
DoDEA/DoDDS	X	—	—	—	—
Florida	X	X	W / H / *	X	X
Georgia	X	X	W / *	—	—
Hawaii	X	X	W / A / *	X	X
Illinois	X	X	W / *	—	X
Kansas	X	X	—	—	—
Kentucky	—	X	—	—	—
Louisiana	X	X	W / *	—	—
Maine	X	X	—	—	—
Maryland	X	—	W / *	—	—
Massachusetts	X	X	W / *	—	—
Minnesota	X	X	W / *	X	X
Mississippi	—	X	B / *	—	—
Missouri	X	X	W / *	—	—
Montana	X	X	—	—	—
Nevada	X	X	H / *	X	X
New Mexico	X	X	H / *	X	X
New York	X	X	W / *	X	X
North Carolina	X	X	W / *	—	—
Oklahoma	X	X	W / N / *	—	—

LEGEND

- X = Variable was not collapsed for raking
- W = White
- B = Black
- A = Asian or Pacific Islander
- N = American Indian or Alaskan Native
- = Variable was not used as a raking dimension (i.e., all levels were combined)
- * = All other levels of the dimension were combined into one level (e.g., in eighth grade for Oklahoma, there are three levels of race: White, American Indian, and all others combined)

(continued)

Table B-14 (continued)
Final Collapsed Levels Used for Raking Dimensions for All Jurisdictions
Grade 8, Reading

Jurisdiction	Gender	Age	Race	SD	LEP
Oregon	X	X	W / *	X	X
Rhode Island	X	X	W / *	X	X
South Carolina	X	X	/ *	—	—
Tennessee	X	X	W / *	—	—
Texas	X	X	W / H / *	X	X
Utah	X	—	W / *	—	X
Virgin Islands	—	—	—	—	—
Virginia	X	X	W / *	—	—
Washington	X	X	W / *	X	X
West Virginia	X	X	—	—	—
Wisconsin	X	X	—	—	—
Wyoming	X	X	W / *	—	—

LEGEND

- X = Variable was not collapsed for raking
- W = White
- B = Black
- A = Asian or Pacific Islander
- N = American Indian or Alaskan Native
- = Variable was not used as a raking dimension (i.e., all levels were combined)
- * = All other levels of the dimension were combined into one level (e.g., in eighth grade for Oklahoma, there are three levels of race: White, American Indian, and all others combined)

Table B-15*Distribution of Selected Public Schools by Sampling Strata, Fourth Grade*

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Alabama				
Small	Small	Large/Small Town	Low	1
Small	Large	Large/Mid-Size Central City	Low	11
Small	Large	Large/Mid- size Central City	Medium	10
Small	Large	Large/Mid- size Central City	High	11
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	8
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	8
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	9
Small	Large	Large/Small Town	Low	8
Small	Large	Large/Small Town	Medium	7
Small	Large	Large/Small Town	High	7
Small	Large	Rural	Low	8
Small	Large	Rural	Medium	9
Small	Large	Rural	High	9
Arizona				
Small	Small	Large Central City	High	1
Small	Small	Large/Small Town/Rural	Medium	1
Small	Large	Large Central City	Low	16
Small	Large	Large Central City	Medium	16
Small	Large	Large Central City	High	16
Small	Large	Mid-Size Central City	Low	4
Small	Large	Mid-Size Central City	Medium	4
Small	Large	Mid-Size Central City	High	4
Small	Large	Urban Fringe of Large Central City	Low	9
Small	Large	Urban Fringe of Large Central City	Medium	8
Small	Large	Urban Fringe of Large Central City	High	8
Small	Large	Large/Small Town/Rural	Low	6
Small	Large	Large/Small Town/Rural	Medium	6
Small	Large	Large/Small Town/Rural	High	6
Arkansas				
Small	Small	Rural	Low	1
Small	Small	Rural	High	1
Small	Large	Mid-Size Central City	Low	10
Small	Large	Mid-Size Central City	Medium	10
Small	Large	Mid-Size Central City	High	10
Small	Large	Urban Fringe of Large Central City	None	11
Small	Large	Large/Small Town	Low	12
Small	Large	Large/Small Town	Medium	11
Small	Large	Large/Small Town	High	12
Small	Large	Rural	Low	10
Small	Large	Rural	Medium	9
Small	Large	Rural	High	10

Table B-15 (continued)

Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
California				
Small	Small	Large Central City	Low	1
Small	Small	Large/Small Town/Rural	Low	1
Small	Large	Large Central City	Low	9
Small	Large	Large Central City	Medium	9
Small	Large	Large Central City	High	9
Small	Large	Mid-Size Central City	Low	5
Small	Large	Mid-Size Central City	Medium	6
Small	Large	Mid-Size Central City	High	5
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	18
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	18
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	18
Small	Large	Large/Small Town/Rural	Low	2
Small	Large	Large/Small Town/Rural	Medium	2
Small	Large	Large/Small Town/Rural	High	3
Colorado				
Small	Small	Rural	Low	2
Small	Small	Rural	High	1
Small	Large	Large Central City	Low	7
Small	Large	Large Central City	Medium	7
Small	Large	Large Central City	High	7
Small	Large	Mid-Size Central City	Low	5
Small	Large	Mid-Size Central City	Medium	5
Small	Large	Mid-Size Central City	High	4
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	15
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	15
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	15
Small	Large	Large/Small Town	Low	4
Small	Large	Large/Small Town	Medium	4
Small	Large	Large/Small Town	High	4
Small	Large	Rural	Low	4
Small	Large	Rural	Medium	4
Small	Large	Rural	High	4

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Connecticut				
Small	Large	Mid-Size Central City	Low Black/Low Hispanic	8
Small	Large	Mid-Size Central City	Low Black/High Hispanic	7
Small	Large	Mid-Size Central City	High Black/Low Hispanic	7
Small	Large	Mid-Size Central City	High Black/High Hispanic	7
Small	Large	Urban Fringe of Large Central City	None	23
Small	Large	Urban Fringe of Mid-Size Central City	Low	7
Small	Large	Urban Fringe of Mid-Size Central City	Medium	7
Small	Large	Urban Fringe of Mid-Size Central City	High	8
Small	Large	Large/Small Town	None	17
Small	Large	Rural	None	15
Florida				
Small	Large	Large Central City	Low Black/Low Hispanic	4
Small	Large	Large Central City	Low Black/High Hispanic	5
Small	Large	Large Central City	High Black/Low Hispanic	4
Small	Large	Large Central City	High Black/High Hispanic	4
Small	Large	Mid-Size Central City	Low	9
Small	Large	Mid-Size Central City	Medium	10
Small	Large	Mid-Size Central City	High	11
Small	Large	Urban Fringe of Large Central City	Low	8
Small	Large	Urban Fringe of Large Central City	Medium	8
Small	Large	Urban Fringe of Large Central City	High	8
Small	Large	Urban Fringe of Mid-Size Central City	Low	7
Small	Large	Urban Fringe of Mid-Size Central City	Medium	6
Small	Large	Urban Fringe of Mid-Size Central City	High	7
Small	Large	Large/Small Town/Rural	Low	5
Small	Large	Large/Small Town/Rural	Medium	4
Small	Large	Large/Small Town/Rural	High	5

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Georgia				
Small	Large	Large/Mid-Size Central City	Low	6
Small	Large	Large/Mid-Size Central City	Medium	6
Small	Large	Large/Mid-Size Central City	High	6
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	15
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	14
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	15
Small	Large	Large/Small Town	Low	8
Small	Large	Large/Small Town	Medium	9
Small	Large	Large/Small Town	High	7
Small	Large	Rural	Low	6
Small	Large	Rural	Medium	6
Small	Large	Rural	High	7
Hawaii				
Large	Small	Rural	None	1
Large	Large	Large Central City	None	30
Large	Large	Urban Fringe of Large/Mid-Size Central City	None	42
Large	Large	Large/Small Town	None	20
Large	Large	Rural	None	13

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Illinois				
Small	Small	Large Central City	Low Black/Low Hispanic	5
Small	Small	Large Central City	Low Black/High Hispanic	6
Small	Small	Large Central City	High Black/Low Hispanic	6
Small	Small	Large Central City	High Black/High Hispanic	6
Small	Large	Large/Small Town/Rural	None	2
Small	Large	Large Central City	Low Black/Low Hispanic	1
Small	Large	Mid-Size Central City	Low	4
Small	Large	Mid-Size Central City	Medium	5
Small	Large	Mid-Size Central City	High	4
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	16
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	15
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	15
Small	Large	Large/Small Town/Rural	None	22
Iowa				
Small	Small	Rural	None	3
Small	Large	Mid-Size Central City	Low	9
Small	Large	Mid-Size Central City	Medium	9
Small	Large	Mid-Size Central City	High	9
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	11
Small	Large	Large/Small Town	None	32
Small	Large	Rural	None	35

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Kansas				
Small	Small	Large/Small Town	Low	1
Small	Small	Rural	None	8
Small	Large	Large Central City	Low	4
Small	Large	Large Central City	Medium	4
Small	Large	Large Central City	High	4
Small	Large	Mid-Size Central City	Low	6
Small	Large	Mid-Size Central City	Medium	6
Small	Large	Mid-Size Central City	High	6
Small	Large	Urban Fringe of Large Central City	None	19
Small	Large	Large/Small Town	Low	9
Small	Large	Large/Small Town	Medium	10
Small	Large	Large/Small Town	High	9
Small	Large	Rural	None	26
Kentucky				
Small	Small	Rural	None	2
Small	Large	Large Central City	Low	4
Small	Large	Large Central City	Medium	3
Small	Large	Large Central City	High	4
Small	Large	Mid-Size Central City	Low	5
Small	Large	Mid-Size Central City	Medium	4
Small	Large	Mid-Size Central City	High	4
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	19
Small	Large	Large/Small Town	None	27
Small	Large	Rural	None	35

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Louisiana				
Small	Small	Large/Small Town	Low	1
Small	Large	Large Central City	Low	3
Small	Large	Large Central City	Medium	4
Small	Large	Large Central City	High	4
Small	Large	Mid-Size Central City	Low	9
Small	Large	Mid-Size Central City	Medium	9
Small	Large	Mid-Size Central City	High	8
Small	Large	Urban Fringe of Large Central City	Low	5
Small	Large	Urban Fringe of Large Central City	Medium	4
Small	Large	Urban Fringe of Large Central City	High	5
Small	Large	Urban Fringe of Mid-Size Central City	Low	5
Small	Large	Urban Fringe of Mid-Size Central City	Medium	6
Small	Large	Urban Fringe of Mid-Size Central City	High	5
Small	Large	Large/Small Town	Low	6
Small	Large	Large/Small Town	Medium	5
Small	Large	Large/Small Town	High	6
Small	Large	Rural	Low	7
Small	Large	Rural	Medium	7
Small	Large	Rural	High	7
Maine				
Small	Small	Mid-Size Central City	None	1
Small	Small	Small Town	None	1
Small	Small	Rural	None	12
Small	Large	Mid-Size Central City	None	11
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	12
Small	Large	Small Town	None	27
Small	Large	Rural	None	52

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Maryland				
Small	Small	Small Town/Rural	Low	1
Small	Large	Large/Mid-Size Central City	Low	7
Small	Large	Large/Mid-Size Central City	Medium	7
Small	Large	Large/Mid-Size Central City	High	8
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	22
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	21
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	21
Small	Large	Small Town/Rural	Low	6
Small	Large	Small Town/Rural	Medium	6
Small	Large	Small Town/Rural	High	6
Massachusetts				
Small	Large	Large/Mid-Size Central City	Low Black/Low Hispanic	7
Small	Large	Large/Mid-Size Central City	Low Black/High Hispanic	8
Small	Large	Large/Mid-Size Central City	High Black/Low Hispanic	8
Small	Large	Large/Mid-Size Central City	High Black/High Hispanic	7
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	43
Small	Large	Large/Small Town	None	20
Small	Large	Rural	None	12

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Michigan				
Small	Small	Large/Small Town/Rural	None	1
Small	Large	Large Central City	Low	3
Small	Large	Large Central City	Medium	4
Small	Large	Large Central City	High	4
Small	Large	Mid-Size Central City	Low	6
Small	Large	Mid-Size Central City	Medium	7
Small	Large	Mid-Size Central City	High	7
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	44
Small	Large	Large/Small Town/Rural	None	30
Minnesota				
Small	Small	Rural	None	2
Small	Large	Large/Mid-Size Central City	Low	5
Small	Large	Large/Mid-Size Central City	Medium	6
Small	Large	Large/Mid-Size Central City	High	6
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	46
Small	Large	Large/Small Town	None	18
Small	Large	Rural	None	23
Mississippi				
Small	Large	Mid-Size Central City	Low	4
Small	Large	Mid-Size Central City	Medium	4
Small	Large	Mid-Size Central City	High	5
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	6
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	5
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	5
Small	Large	Large/Small Town	Low	15
Small	Large	Large/Small Town	Medium	14
Small	Large	Large/Small Town	High	14
Small	Large	Rural	Low	11
Small	Large	Rural	Medium	11
Small	Large	Rural	High	11

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Missouri				
Small	Small	Rural	None	4
Small	Large	Large/Mid-Size Central City	Low	8
Small	Large	Large/Mid-Size Central City	Medium	8
Small	Large	Large/Mid-Size Central City	High	8
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	13
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	13
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	13
Small	Large	Large/Small Town	None	18
Small	Large	Rural	None	23
Montana				
Small	Small	Mid-Size Central City/Urban Fringe	None	1
Small	Small	Small Town	None	4
Small	Small	Rural	None	23
Small	Large	Mid-Size Central City/Urban Fringe	None	21
Small	Large	Large Town	None	11
Small	Large	Small Town	None	30
Small	Large	Rural	None	25

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Nevada				
Large	Small	Large/Small Town/Rural	Low	1
Large	Large	Large Central City	Low	12
Large	Large	Large Central City	Medium	12
Large	Large	Large Central City	High	13
Large	Large	Mid-Size Central City	Low	2
Large	Large	Mid-Size Central City	Medium	6
Large	Large	Mid-Size Central City	High	4
Large	Large	Urban Fringe of Large/Mid-Size Central City	Low	5
Large	Large	Urban Fringe of Large/Mid-Size Central City	Medium	4
Large	Large	Urban Fringe of Large/Mid-Size Central City	High	6
Large	Large	Large/Small Town/Rural	High	1
Small	Small	Large/Small Town/Rural	Low	1
Small	Small	Large/Small Town/Rural	High	1
Small	Large	Mid-Size Central City	Low	7
Small	Large	Mid-Size Central City	Medium	1
Small	Large	Mid-Size Central City	High	4
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	3
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	4
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	1
Small	Large	Large/Small Town/Rural	Low	6
Small	Large	Large/Small Town/Rural	Medium	6
Small	Large	Large/Small Town/Rural	High	7
New Hampshire				
Small	Small	Rural	None	5
Small	Large	Mid-Size Central City	None	20
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	21
Small	Large	Large/Small Town	None	25
Small	Large	Rural	None	38

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
New Mexico				
Large	Large	Large Central City	Low	9
Large	Large	Large Central City	Medium	8
Large	Large	Large Central City	High	9
Large	Large	Rural	Low	1
Small	Small	Rural	Low	1
Small	Small	Rural	Medium	2
Small	Small	Rural	High	1
Small	Large	Mid-Size Central City	Low	4
Small	Large	Mid-Size Central City	Medium	4
Small	Large	Mid-Size Central City	High	5
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	4
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	4
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	4
Small	Large	Large Town	Low	6
Small	Large	Large Town	Medium	4
Small	Large	Large Town	High	5
Small	Large	Small Town	Low	8
Small	Large	Small Town	Medium	8
Small	Large	Small Town	High	8
Small	Large	Rural	Low	5
Small	Large	Rural	Medium	4
Small	Large	Rural	High	5

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
New York				
Large	Large	Large/Mid-Size Central City	Low Black/Low Hispanic	6
Large	Large	Large/Mid-Size Central City	Low Black/High Hispanic	11
Large	Large	Large/Mid-Size Central City	High Black/Low Hispanic	12
Large	Large	Large/Mid-Size Central City	High Black/High Hispanic	7
Large	Large	Large/Small Town/Rural	None	1
Small	Large	Large/Mid-Size Central City	Low Black/Low Hispanic	6
Small	Large	Large/Mid-Size Central City	Low Black/High Hispanic	1
Small	Large	Large/Mid-Size Central City	High Black/Low Hispanic	1
Small	Large	Large/Mid-Size Central City	High Black/High Hispanic	4
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	12
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	12
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	12
Small	Large	Large/Small Town/Rural	None	20
North Carolina				
Small	Small	Rural	High	1
Small	Large	Large/Mid-Size Central City	Low	12
Small	Large	Large/Mid-Size Central City	Medium	12
Small	Large	Large/Mid-Size Central City	High	11
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	8
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	7
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	8
Small	Large	Large/Small Town	Low	6
Small	Large	Large/Small Town	Medium	6
Small	Large	Large/Small Town	High	6
Small	Large	Rural	Low	10
Small	Large	Rural	Medium	9
Small	Large	Rural	High	9

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Oklahoma				
Small	Small	Large/Small Town	None	1
Small	Small	Rural	None	6
Small	Large	Large/Mid-Size Central City	Low	10
Small	Large	Large/Mid-Size Central City	Medium	10
Small	Large	Large/Mid-Size Central City	High	9
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	28
Small	Large	Large/Small Town	None	25
Small	Large	Rural	None	21
Oregon				
Small	Small	Mid-Size Central City	Low	1
Small	Small	Urban Fringe of Large/Mid-Size Central City	Low	1
Small	Small	Large/Small Town	Low	1
Small	Small	Rural	Low	2
Small	Small	Rural	High	1
Small	Large	Large Central City	Low	4
Small	Large	Large Central City	Medium	5
Small	Large	Large Central City	High	4
Small	Large	Mid-Size Central City	Low	5
Small	Large	Mid-Size Central City	Medium	5
Small	Large	Mid-Size Central City	High	6
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	12
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	13
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	13
Small	Large	Large/Small Town	Low	8
Small	Large	Large/Small Town	Medium	8
Small	Large	Large/Small Town	High	7
Small	Large	Rural	Low	4
Small	Large	Rural	Medium	4
Small	Large	Rural	High	5

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Rhode Island				
Small	Large	Mid-Size Central City	Low	13
Small	Large	Mid-Size Central City	Medium	12
Small	Large	Mid-Size Central City	High	12
Small	Large	Urban Fringe of Large Central City	None	11
Small	Large	Urban Fringe of Mid-Size Central City	None	30
Small	Large	Large/Small Town	None	17
Small	Large	Rural	None	10
South Carolina				
Small	Large	Mid-Size Central City	Low	9
Small	Large	Mid-Size Central City	Medium	9
Small	Large	Mid-Size Central City	High	8
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	11
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	11
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	11
Small	Large	Small Town	Low	8
Small	Large	Small Town	Medium	7
Small	Large	Small Town	High	8
Small	Large	Rural	Low	8
Small	Large	Rural	Medium	7
Small	Large	Rural	High	8

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Tennessee				
Small	Small	Large/Small Town	Low	1
Small	Small	Rural	None	1
Small	Large	Large Central City	Low	8
Small	Large	Large Central City	Medium	8
Small	Large	Large Central City	High	9
Small	Large	Mid-Size Central City	Low	6
Small	Large	Mid-Size Central City	Medium	6
Small	Large	Mid-Size Central City	High	6
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	21
Small	Large	Large/Small Town	Low	7
Small	Large	Large/Small Town	Medium	6
Small	Large	Large/Small Town	High	7
Small	Large	Rural	None	21
Texas				
Small	Small	Rural	Low	1
Small	Small	Rural	High	1
Small	Large	Large Central City	Low Hispanic/Low Black	9
Small	Large	Large Central City	Low Hispanic/High Black	9
Small	Large	Large Central City	High Hispanic/Low Black	10
Small	Large	Large Central City	High Hispanic/High Black	9
Small	Large	Mid-Size Central City	Low	6
Small	Large	Mid-Size Central City	Medium	6
Small	Large	Mid-Size Central City	High	6
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	9
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	9
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	10
Small	Large	Large/Small Town	Low	4
Small	Large	Large/Small Town	Medium	4
Small	Large	Large/Small Town	High	4
Small	Large	Rural	Low	3
Small	Large	Rural	Medium	4
Small	Large	Rural	High	3

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Utah				
Small	Small	Rural	None	1
Small	Large	Mid-Size Central City	Low	11
Small	Large	Mid-Size Central City	Medium	12
Small	Large	Mid-Size Central City	High	11
Small	Large	Urban Fringe of Mid-Size Central City	None	45
Small	Large	Large/Small Town	None	15
Small	Large	Rural	None	11
Vermont				
Small	Small	Small Town	None	2
Small	Small	Rural	None	25
Small	Large	Mid-Size Central City/Urban Fringe	None	13
Small	Large	Small Town	None	26
Small	Large	Rural	None	58
Virginia				
Small	Small	Rural	Low	1
Small	Large	Large Central City	Low	4
Small	Large	Large Central City	Medium	3
Small	Large	Large Central City	High	4
Small	Large	Mid-Size Central City	Low	8
Small	Large	Mid-Size Central City	Medium	8
Small	Large	Mid-Size Central City	High	7
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	13
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	13
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	12
Small	Large	Large/Small Town/Rural	Low	11
Small	Large	Large/Small Town/Rural	Medium	11
Small	Large	Large/Small Town/Rural	High	11

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Washington				
Small	Small	Large/Mid-Size Central City	High	1
Small	Small	Rural	Low	1
Small	Large	Large/Mid-Size Central City	Low	13
Small	Large	Large/Mid-Size Central City	Medium	12
Small	Large	Large/Mid-Size Central City	High	13
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	13
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	12
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	13
Small	Large	Large/Small Town	Low	4
Small	Large	Large/Small Town	Medium	5
Small	Large	Large/Small Town	High	4
Small	Large	Rural	Low	5
Small	Large	Rural	Medium	6
Small	Large	Rural	High	5
West Virginia				
Small	Small	Mid-Size Central City	None	1
Small	Small	Large/Small Town	None	1
Small	Small	Rural	None	6
Small	Large	Mid-Size Central City	None	14
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	18
Small	Large	Large/Small Town	None	20
Small	Large	Rural	None	51

Table B-15 (continued)
Distribution of Selected Public Schools by Sampling Strata, Fourth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Wisconsin				
Small	Small	Large/Small Town	None	1
Small	Small	Rural	None	2
Small	Large	Large Central City	Low	5
Small	Large	Large Central City	Medium	5
Small	Large	Large Central City	High	5
Small	Large	Mid-Size Central City	None	25
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	24
Small	Large	Large/Small Town	None	17
Small	Large	Rural	None	24
Wyoming				
Small	Small	Mid-Size Central City	Low	1
Small	Small	Large/Small Town	None	4
Small	Small	Rural	None	13
Small	Large	Mid-Size Central City/Urban Fringe	Low	10
Small	Large	Mid-Size Central City/Urban Fringe	Medium	10
Small	Large	Mid-Size Central City/Urban Fringe	High	10
Small	Large	Large/Small Town	None	52
Small	Large	Rural	None	21

Table B-16
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Alabama				
Small	Small	Large/Mid-Size Central City	Low	1
Small	Small	Rural	Low	1
Small	Large	Large/Mid-Size Central City	Low	9
Small	Large	Large/Mid-Size Central City	Medium	11
Small	Large	Large/Mid-Size Central City	High	10
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	8
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	9
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	8
Small	Large	Large/Small Town	Low	8
Small	Large	Large/Small Town	Medium	7
Small	Large	Large/Small Town	High	9
Small	Large	Rural	Low	10
Small	Large	Rural	Medium	10
Small	Large	Rural	High	11
Arizona				
Small	Small	Mid-Size Central City	Low	1
Small	Small	Large/Small Town/Rural	Medium	1
Small	Small	Large/Small Town/Rural	High	1
Small	Large	Large Central City	Low	17
Small	Large	Large Central City	Medium	15
Small	Large	Large Central City	High	16
Small	Large	Mid-Size Central City	Low	5
Small	Large	Mid-Size Central City	Medium	5
Small	Large	Mid-Size Central City	High	5
Small	Large	Urban Fringe of Large Central City	Low	8
Small	Large	Urban Fringe of Large Central City	Medium	7
Small	Large	Urban Fringe of Large Central City	High	6
Small	Large	Large/Small Town/Rural	Low	8
Small	Large	Large/Small Town/Rural	Medium	7
Small	Large	Large/Small Town/Rural	High	8

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Arkansas				
Small	Small	Large/Small Town	Low	1
Small	Small	Rural	Low	1
Small	Small	Rural	High	1
Small	Large	Mid-Size Central City	Low	9
Small	Large	Mid-Size Central City	Medium	10
Small	Large	Mid-Size Central City	High	9
Small	Large	Urban Fringe of Large Central City	None	10
Small	Large	Large/Small Town	Low	13
Small	Large	Large/Small Town	Medium	12
Small	Large	Large/Small Town	High	13
Small	Large	Rural	Low	12
Small	Large	Rural	Medium	11
Small	Large	Rural	High	13
California				
Small	Small	Large/Small Town/Rural	Low	1
Small	Small	Large/Small Town/Rural	Medium	1
Small	Large	Large Central City	Low	9
Small	Large	Large Central City	Medium	7
Small	Large	Large Central City	High	9
Small	Large	Mid-Size Central City	Low	6
Small	Large	Mid-Size Central City	Medium	6
Small	Large	Mid-Size Central City	High	5
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	18
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	19
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	20
Small	Large	Large/Small Town/Rural	Low	2
Small	Large	Large/Small Town/Rural	Medium	3
Small	Large	Large/Small Town/Rural	High	2

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Colorado				
Small	Small	Large Central City	High	1
Small	Small	Rural	Low	1
Small	Small	Rural	Medium	1
Small	Small	Rural	High	1
Small	Large	Large Central City	Low	7
Small	Large	Large Central City	Medium	7
Small	Large	Large Central City	High	7
Small	Large	Mid-Size Central City	Low	5
Small	Large	Mid-Size Central City	Medium	5
Small	Large	Mid-Size Central City	High	5
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	14
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	14
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	14
Small	Large	Large/Small Town	Low	5
Small	Large	Large/Small Town	Medium	4
Small	Large	Large/Small Town	High	4
Small	Large	Rural	Low	6
Small	Large	Rural	Medium	5
Small	Large	Rural	High	6

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Connecticut				
Small	Large	Mid-Size Central City	Low Black/Low Hispanic	5
Small	Large	Mid-Size Central City	Low Black/High Hispanic	6
Small	Large	Mid-Size Central City	High Black/Low Hispanic	7
Small	Large	Mid-Size Central City	High Black/High Hispanic	7
Small	Large	Urban Fringe of Large Central City	Low	7
Small	Large	Urban Fringe of Large Central City	Medium	8
Small	Large	Urban Fringe of Large Central City	High	7
Small	Large	Urban Fringe of Mid-Size Central City	Low	9
Small	Large	Urban Fringe of Mid-Size Central City	Medium	8
Small	Large	Urban Fringe of Mid-Size Central City	High	8
Small	Large	Large/Small Town	None	17
Small	Large	Rural	None	17

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Florida				
Small	Small	Large/Small Town/Rural	Low	1
Small	Large	Large Central City	Low Black/Low Hispanic	5
Small	Large	Large Central City	Low Black/High Hispanic	4
Small	Large	Large Central City	High Black/Low Hispanic	4
Small	Large	Large Central City	High Black/High Hispanic	5
Small	Large	Mid-Size Central City	Low	10
Small	Large	Mid-Size Central City	Medium	10
Small	Large	Mid-Size Central City	High	10
Small	Large	Urban Fringe of Large Central City	Low	8
Small	Large	Urban Fringe of Large Central City	Medium	8
Small	Large	Urban Fringe of Large Central City	High	8
Small	Large	Urban Fringe of Mid-Size Central City	Low	7
Small	Large	Urban Fringe of Mid-Size Central City	Medium	7
Small	Large	Urban Fringe of Mid-Size Central City	High	7
Small	Large	Large/Small Town/Rural	Low	4
Small	Large	Large/Small Town/Rural	Medium	4
Small	Large	Large/Small Town/Rural	High	3

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Georgia				
Small	Large	Large/Mid-Size Central City	Low	5
Small	Large	Large/Mid-Size Central City	Medium	5
Small	Large	Large/Mid-Size Central City	High	6
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	16
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	15
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	16
Small	Large	Large/Small Town	Low	10
Small	Large	Large/Small Town	Medium	9
Small	Large	Large/Small Town	High	9
Small	Large	Rural	Low	5
Small	Large	Rural	Medium	5
Small	Large	Rural	High	5
Illinois				
Large	Small	Large Central City	High Black/Low Hispanic	1
Large	Large	Large Central City	Low Black/Low Hispanic	6
Large	Large	Large Central City	Low Black/High Hispanic	6
Large	Large	Large Central City	High Black/Low Hispanic	7
Large	Large	Large Central City	High Black/High Hispanic	6
Small	Small	Rural	None	2
Small	Large	Mid-Size Central City	Low	4
Small	Large	Mid-Size Central City	Medium	4
Small	Large	Mid-Size Central City	High	5
Small	Large	Urban Fringe of Large Central City	Low	15
Small	Large	Urban Fringe of Large Central City	Medium	16
Small	Large	Urban Fringe of Large Central City	High	15
Small	Large	Large/Small Town	None	12
Small	Large	Rural	None	14

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Kansas				
Small	Small	Urban Fringe of Large/Mid-Size Central City	None	1
Small	Small	Rural	None	10
Small	Large	Large/Mid-Size Central City	Low	10
Small	Large	Large/Mid-Size Central City	Medium	9
Small	Large	Large/Mid-Size Central City	High	10
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	19
Small	Large	Large/Small Town	Low	10
Small	Large	Large/Small Town	Medium	9
Small	Large	Large/Small Town	High	10
Small	Large	Rural	None	37
Kentucky				
Small	Small	Urban Fringe of Large/Mid-Size Central City	None	1
Small	Small	Rural	None	1
Small	Large	Large Central City	Low	4
Small	Large	Large Central City	Medium	3
Small	Large	Large Central City	High	4
Small	Large	Mid-Size Central City	Low	4
Small	Large	Mid-Size Central City	Medium	4
Small	Large	Mid-Size Central City	High	5
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	19
Small	Large	Large/Small Town	None	34
Small	Large	Rural	None	32

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Louisiana				
Small	Small	Large/Small Town	Low	1
Small	Small	Rural	High	1
Small	Large	Large/Mid-Size Central City	Low	13
Small	Large	Large/Mid-Size Central City	Medium	13
Small	Large	Large/Mid-Size Central City	High	11
Small	Large	Urban Fringe of Large Central City	Low	4
Small	Large	Urban Fringe of Large Central City	Medium	5
Small	Large	Urban Fringe of Large Central City	High	4
Small	Large	Urban Fringe of Mid-Size Central City	Low	6
Small	Large	Urban Fringe of Mid-Size Central City	Medium	7
Small	Large	Urban Fringe of Mid-Size Central City	High	6
Small	Large	Large/Small Town	Low	6
Small	Large	Large/Small Town	Medium	6
Small	Large	Large/Small Town	High	5
Small	Large	Rural	Low	8
Small	Large	Rural	Medium	8
Small	Large	Rural	High	8
Maine				
Small	Small	Rural	None	14
Small	Large	Mid-Size Central City	None	8
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	12
Small	Large	Small Town	None	31
Small	Large	Rural	None	49

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Maryland				
Small	Small	Urban Fringe of Large Central City	Medium	1
Small	Large	Large/Mid-Size Central City	Low	7
Small	Large	Large/Mid-Size Central City	Medium	6
Small	Large	Large/Mid-Size Central City	High	6
Small	Large	Urban Fringe of Large Central City	Low	22
Small	Large	Urban Fringe of Large Central City	Medium	22
Small	Large	Urban Fringe of Large Central City	High	23
Small	Large	Small Town/Rural	Low	7
Small	Large	Small Town/Rural	Medium	6
Small	Large	Small Town/Rural	High	6
Massachusetts				
Small	Large	Large/Mid-Size Central City	Low	10
Small	Large	Large/Mid-Size Central City	Medium	11
Small	Large	Large/Mid-Size Central City	High	9
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	42
Small	Large	Large/Small Town	None	21
Small	Large	Rural	None	12
Minnesota				
Small	Small	Rural	None	2
Small	Large	Large/Mid-Size Central City	Low	5
Small	Large	Large/Mid-Size Central City	Medium	5
Small	Large	Large/Mid-Size Central City	High	5
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	49
Small	Large	Large/Small Town	None	18
Small	Large	Rural	None	26

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Mississippi				
Small	Large	Mid-Size Central City	Low	3
Small	Large	Mid-Size Central City	Medium	4
Small	Large	Mid-Size Central City	High	4
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	5
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	5
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	5
Small	Large	Large/Small Town	Low	14
Small	Large	Large/Small Town	Medium	15
Small	Large	Large/Small Town	High	15
Small	Large	Rural	Low	12
Small	Large	Rural	Medium	11
Small	Large	Rural	High	12
Missouri				
Small	Small	Large/Small Town	None	2
Small	Small	Rural	None	6
Small	Large	Large/Mid-Size Central City	Low	8
Small	Large	Large/Mid-Size Central City	Medium	8
Small	Large	Large/Mid-Size Central City	High	8
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	13
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	13
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	12
Small	Large	Large/Small Town	None	20
Small	Large	Rural	None	30

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Montana				
Small	Small	Mid-Size Central City/Urban Fringe	None	1
Small	Small	Small Town	None	5
Small	Small	Rural	None	36
Small	Large	Mid-Size Central City/Urban Fringe	None	10
Small	Large	Large Town	None	6
Small	Large	Small Town	None	27
Small	Large	Rural	None	31
North Carolina				
Small	Large	Large/Mid-Size Central City	Low	12
Small	Large	Large/Mid-Size Central City	Medium	11
Small	Large	Large/Mid-Size Central City	High	11
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	8
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	9
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	9
Small	Large	Large/Small Town	Low	7
Small	Large	Large/Small Town	Medium	7
Small	Large	Large/Small Town	High	7
Small	Large	Rural	Low	9
Small	Large	Rural	Medium	8
Small	Large	Rural	High	9

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Nevada				
Large	Large	Large Central City	Low	5
Large	Large	Large Central City	Medium	5
Large	Large	Large Central City	High	6
Large	Large	Mid-Size Central City	Medium	1
Large	Large	Mid-Size Central City	High	1
Large	Large	Urban Fringe of Large/Mid-Size Central City	Low	3
Large	Large	Urban Fringe of Large/Mid-Size Central City	Medium	2
Large	Large	Urban Fringe of Large/Mid-Size Central City	High	3
Large	Large	Large/Small Town/Rural	Medium	1
Large	Large	Large/Small Town/Rural	High	1
Small	Small	Large/Small Town/Rural	Low	2
Small	Small	Large/Small Town/Rural	Medium	1
Small	Small	Large/Small Town/Rural	High	1
Small	Large	Mid-Size Central City	Low	3
Small	Large	Mid-Size Central City	Medium	3
Small	Large	Mid-Size Central City	High	2
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	2
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	2
Small	Large	Large/Small Town/Rural	Low	6
Small	Large	Large/Small Town/Rural	Medium	4
Small	Large	Large/Small Town/Rural	High	5

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
New Mexico				
Large	Large	Large Central City	Low	6
Large	Large	Large Central City	Medium	6
Large	Large	Large Central City	High	7
Large	Large	Rural	Medium	1
Small	Small	Rural	Low	1
Small	Small	Rural	Medium	1
Small	Small	Rural	High	1
Small	Large	Mid-Size Central City	Low	3
Small	Large	Mid-Size Central City	Medium	2
Small	Large	Mid-Size Central City	High	3
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	3
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	4
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	3
Small	Large	Large Town	Low	5
Small	Large	Large Town	Medium	4
Small	Large	Large Town	High	5
Small	Large	Small Town	Low	8
Small	Large	Small Town	Medium	8
Small	Large	Small Town	High	7
Small	Large	Rural	Low	6
Small	Large	Rural	Medium	5
Small	Large	Rural	High	6

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
New York				
Large	Large	Large/Mid-Size Central City	Low Black/Low Hispanic	6
Large	Large	Large/Mid-Size Central City	Low Black/High Hispanic	10
Large	Large	Large/Mid-Size Central City	High Black/Low Hispanic	12
Large	Large	Large/Mid-Size Central City	High Black/High Hispanic	7
Small	Large	Large/Mid-Size Central City	Low Black/Low Hispanic	6
Small	Large	Large/Mid-Size Central City	High Black/Low Hispanic	1
Small	Large	Large/Mid-Size Central City	High Black/High Hispanic	4
Small	Large	Urban Fringe of Large Central City	Low	9
Small	Large	Urban Fringe of Large Central City	Medium	9
Small	Large	Urban Fringe of Large Central City	High	10
Small	Large	Urban Fringe of Mid-Size Central City	None	10
Small	Large	Large/Small Town/Rural	None	22
Oklahoma				
Small	Small	Urban Fringe of Large/Mid-Size Central City	None	1
Small	Small	Large/Small Town	None	2
Small	Small	Rural	None	9
Small	Large	Large Central City	Low	6
Small	Large	Large Central City	Medium	7
Small	Large	Large Central City	High	6
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	30
Small	Large	Large/Small Town	None	25
Small	Large	Rural	None	29

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Oregon				
Small	Small	Urban Fringe of Large/Mid-Size Central City	None	1
Small	Small	Large/Small Town	High	1
Small	Small	Rural	None	6
Small	Large	Large Central City	Low	5
Small	Large	Large Central City	Medium	4
Small	Large	Large Central City	High	4
Small	Large	Mid-Size Central City	None	16
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	38
Small	Large	Large/Small Town	Low	9
Small	Large	Large/Small Town	Medium	8
Small	Large	Large/Small Town	High	8
Small	Large	Rural	None	13
South Carolina				
Small	Small	Rural	Low	1
Small	Large	Mid-Size Central City	Low	9
Small	Large	Mid-Size Central City	Medium	9
Small	Large	Mid-Size Central City	High	9
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	11
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	11
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	11
Small	Large	Small Town	Low	8
Small	Large	Small Town	Medium	6
Small	Large	Small Town	High	8
Small	Large	Rural	Low	7
Small	Large	Rural	Medium	9
Small	Large	Rural	High	7

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Tennessee				
Small	Small	Large/Small Town	Low	1
Small	Small	Rural	None	2
Small	Large	Large Central City	Low	8
Small	Large	Large Central City	Medium	7
Small	Large	Large Central City	High	8
Small	Large	Mid-Size Central City	Low	7
Small	Large	Mid-Size Central City	Medium	5
Small	Large	Mid-Size Central City	High	6
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	23
Small	Large	Large/Small Town	Low	7
Small	Large	Large/Small Town	Medium	7
Small	Large	Large/Small Town	High	7
Small	Large	Rural	None	24

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Texas				
Small	Small	Rural	Low	1
Small	Small	Rural	Medium	1
Small	Small	Rural	High	1
Small	Large	Large Central City	Low	11
Small	Large	Large Central City	Medium	12
Small	Large	Large Central City	High	11
Small	Large	Mid-Size Central City	Low	6
Small	Large	Mid-Size Central City	Medium	6
Small	Large	Mid-Size Central City	High	6
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	10
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	9
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	10
Small	Large	Large/Small Town	Low	4
Small	Large	Large/Small Town	Medium	4
Small	Large	Large/Small Town	High	4
Small	Large	Rural	Low	4
Small	Large	Rural	Medium	5
Small	Large	Rural	High	4
Utah				
Small	Small	Large/Small Town/Rural	None	1
Small	Large	Mid-Size Central City	Low	8
Small	Large	Mid-Size Central City	Medium	10
Small	Large	Mid-Size Central City	High	11
Small	Large	Urban Fringe of Mid-Size Central City	None	40
Small	Large	Large/Small Town/Rural	None	27

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Virginia				
Small	Large	Large Central City	Low	4
Small	Large	Large Central City	Medium	4
Small	Large	Large Central City	High	3
Small	Large	Mid-Size Central City	Low	7
Small	Large	Mid-Size Central City	Medium	7
Small	Large	Mid-Size Central City	High	7
Small	Large	Urban Fringe of Large/Mid-Size Central City	Low	14
Small	Large	Urban Fringe of Large/Mid-Size Central City	Medium	12
Small	Large	Urban Fringe of Large/Mid-Size Central City	High	13
Small	Large	Large/Small Town/Rural	Low	11
Small	Large	Large/Small Town/Rural	Medium	11
Small	Large	Large/Small Town/Rural	High	11
Washington				
Small	Small	Large/Small Town	Low	1
Small	Small	Rural	Low	2
Small	Large	Large/Mid-Size Central City	Low	12
Small	Large	Large/Mid-Size Central City	Medium	12
Small	Large	Large/Mid-Size Central City	High	12
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	41
Small	Large	Large/Small Town	Low	4
Small	Large	Large/Small Town	Medium	4
Small	Large	Large/Small Town	High	4
Small	Large	Rural	Low	6
Small	Large	Rural	Medium	5
Small	Large	Rural	High	6

Table B-16 (continued)
Distribution of Selected Public Schools by Sampling Strata, Eighth Grade

Small or Large District	Small or Large School	Urbanization	Percent of Minority	Originally Selected Schools
Wisconsin				
Small	Small	Large/Small Town	None	1
Small	Small	Rural	None	1
Small	Large	Large/Mid-Size Central City	Low	11
Small	Large	Large/Mid-Size Central City	Medium	11
Small	Large	Large/Mid-Size Central City	High	13
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	27
Small	Large	Large/Small Town	None	21
Small	Large	Rural	None	27
West Virginia				
Small	Small	Large/Small Town	None	1
Small	Small	Rural	None	2
Small	Large	Mid-Size Central City	None	14
Small	Large	Urban Fringe of Large/Mid-Size Central City	None	17
Small	Large	Large/Small Town	None	28
Small	Large	Rural	None	48
Wyoming				
Small	Small	Large/Small Town	None	4
Small	Small	Rural	None	12
Small	Large	Mid-Size Central City	Low	3
Small	Large	Mid-Size Central City	Medium	2
Small	Large	Mid-Size Central City	High	2
Small	Large	Large/Small Town	None	24
Small	Large	Rural	None	32

Table B-17
Distribution of Selected Nonpublic Schools by Sampling Strata, Fourth Grade

Small or Large School	Metro Status	School Type	Originally Selected Schools
Arkansas			
Small	Not In Metro Area	Other Nonpublic	3
Small	In Metro Area	Other Nonpublic	2
Large	Not In Metro Area	Other Nonpublic	2
Large	In Metro Area	Catholic	2
Large	In Metro Area	Other Nonpublic	4
Colorado			
Small	Not In Metro Area	Other Nonpublic	2
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	4
Large	In Metro Area	Catholic	4
Large	In Metro Area	Other Nonpublic	5
Connecticut			
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	4
Large	Not In Metro Area	Catholic	1
Large	In Metro Area	Catholic	9
Large	In Metro Area	Other Nonpublic	3
Florida			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Other Nonpublic	5
Large	In Metro Area	Catholic	5
Large	In Metro Area	Other Nonpublic	9
Georgia			
Small	Not In Metro Area	Other Nonpublic	2
Small	In Metro Area	Other Nonpublic	2
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	1
Large	In Metro Area	Other Nonpublic	5
Hawaii			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	3
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	6
Large	In Metro Area	Other Nonpublic	8

Table B-17 (continued)
Distribution of Selected Nonpublic Schools by Sampling Strata, Fourth Grade

Small or Large School	Metro Status	School Type	Originally Selected Schools
Iowa			
Small	Not In Metro Area	Catholic	2
Small	Not In Metro Area	Other Nonpublic	3
Small	In Metro Area	Other Nonpublic	1
Large	Not In Metro Area	Catholic	4
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	6
Large	In Metro Area	Other Nonpublic	1
Illinois			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	5
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	12
Large	In Metro Area	Other Nonpublic	4
Louisiana			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	11
Large	In Metro Area	Other Nonpublic	7
Massachusetts			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	4
Large	In Metro Area	Catholic	10
Large	In Metro Area	Other Nonpublic	3
Maryland			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Other Nonpublic	5
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	8
Large	In Metro Area	Other Nonpublic	9
Maine			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	6
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	2
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	2
Large	In Metro Area	Catholic	1
Large	In Metro Area	Other Nonpublic	2

Table B-17 (continued)*Distribution of Selected Nonpublic Schools by Sampling Strata, Fourth Grade*

Small or Large School	Metro Status	School Type	Originally Selected Schools
Michigan			
Small	Not In Metro Area	Other Nonpublic	2
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	5
Large	Not In Metro Area	Catholic	1
Large	In Metro Area	Catholic	6
Large	In Metro Area	Other Nonpublic	6
Minnesota			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	4
Small	In Metro Area	Catholic	2
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Catholic	2
Large	In Metro Area	Catholic	7
Large	In Metro Area	Other Nonpublic	3
Missouri			
Small	Not In Metro Area	Catholic	2
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	4
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	10
Large	In Metro Area	Other Nonpublic	4
Mississippi			
Small	Not In Metro Area	Other Nonpublic	2
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	1
Large	Not In Metro Area	Other Nonpublic	6
Large	In Metro Area	Catholic	1
Large	In Metro Area	Other Nonpublic	3
Montana			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	5
Small	In Metro Area	Other Nonpublic	1
Large	Not In Metro Area	Catholic	3
Large	Not In Metro Area	Other Nonpublic	2
Large	In Metro Area	Other Nonpublic	1
North Carolina			
Small	Not In Metro Area	Other Nonpublic	2
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	1
Large	In Metro Area	Other Nonpublic	5

Table B-17 (continued)
Distribution of Selected Nonpublic Schools by Sampling Strata, Fourth Grade

Small or Large School	Metro Status	School Type	Originally Selected Schools
Nebraska			
Small	Not In Metro Area	Catholic	4
Small	Not In Metro Area	Other Nonpublic	4
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	2
Large	Not In Metro Area	Catholic	2
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	9
Large	In Metro Area	Other Nonpublic	3
New Mexico			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	3
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	3
Large	In Metro Area	Catholic	2
Large	In Metro Area	Other Nonpublic	3
Nevada			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Other Nonpublic	3
Large	In Metro Area	Catholic	2
Large	In Metro Area	Other Nonpublic	4
New York			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Catholic	1
Large	In Metro Area	Catholic	12
Large	In Metro Area	Other Nonpublic	9
Rhode Island			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Catholic	3
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Catholic	1
Large	In Metro Area	Catholic	11
Large	In Metro Area	Other Nonpublic	4
South Carolina			
Small	Not In Metro Area	Other Nonpublic	2
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Other Nonpublic	2
Large	In Metro Area	Catholic	1
Large	In Metro Area	Other Nonpublic	6
Utah			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Other Nonpublic	3
Large	In Metro Area	Catholic	2
Large	In Metro Area	Other Nonpublic	4

Table B-17 (continued)
Distribution of Selected Nonpublic Schools by Sampling Strata, Fourth Grade

Small or Large School	Metro Status	School Type	Originally Selected Schools
Washington			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Catholic	1
Large	In Metro Area	Catholic	3
Large	In Metro Area	Other Nonpublic	5
Wisconsin			
Small	Not In Metro Area	Catholic	2
Small	Not In Metro Area	Other Nonpublic	5
Small	In Metro Area	Catholic	3
Small	In Metro Area	Other Nonpublic	6
Large	Not In Metro Area	Catholic	3
Large	Not In Metro Area	Other Nonpublic	2
Large	In Metro Area	Catholic	9
Large	In Metro Area	Other Nonpublic	5
West Virginia			
Small	Not In Metro Area	Other Nonpublic	5
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	2
Large	Not In Metro Area	Catholic	1
Large	In Metro Area	Catholic	3
Large	In Metro Area	Other Nonpublic	1
Wyoming			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	4
Small	In Metro Area	Other Nonpublic	2
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	1
Large	In Metro Area	Other Nonpublic	1

Table B-18
Distribution of Selected Nonpublic Schools by Sampling Strata, Eighth Grade

Small or Large School	Metro Status	School Type	Originally Selected Schools
Arkansas			
Small	Not In Metro Area	Other Nonpublic	4
Small	In Metro Area	Other Nonpublic	4
Large	Not In Metro Area	Other Nonpublic	3
Large	In Metro Area	Catholic	3
Large	In Metro Area	Other Nonpublic	4
Arizona			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Other Nonpublic	6
Large	Not In Metro Area	Catholic	1
Large	In Metro Area	Catholic	3
Large	In Metro Area	Other Nonpublic	7
California			
Small	In Metro Area	Other Nonpublic	9
Large	Not In Metro Area	Catholic	1
Large	In Metro Area	Catholic	9
Large	In Metro Area	Other Nonpublic	14
Colorado			
Small	Not In Metro Area	Other Nonpublic	3
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	7
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	4
Large	In Metro Area	Other Nonpublic	7
Connecticut			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Catholic	2
Small	In Metro Area	Other Nonpublic	8
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	18
Large	In Metro Area	Other Nonpublic	7
Florida			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Other Nonpublic	9
Large	In Metro Area	Catholic	6
Large	In Metro Area	Other Nonpublic	13

Table B-18 (continued)*Distribution of Selected Nonpublic Schools by Sampling Strata, Eighth Grade*

Small or Large School	Metro Status	School Type	Originally Selected Schools
Georgia			
Small	Not In Metro Area	Other Nonpublic	3
Small	In Metro Area	Other Nonpublic	5
Large	Not In Metro Area	Other Nonpublic	3
Large	In Metro Area	Catholic	2
Large	In Metro Area	Other Nonpublic	7
Illinois			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	2
Small	In Metro Area	Catholic	2
Small	In Metro Area	Other Nonpublic	8
Large	Not In Metro Area	Catholic	2
Large	In Metro Area	Catholic	19
Large	In Metro Area	Other Nonpublic	9
Louisiana			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	5
Large	Not In Metro Area	Catholic	2
Large	Not In Metro Area	Other Nonpublic	2
Large	In Metro Area	Catholic	20
Large	In Metro Area	Other Nonpublic	9
Massachusetts			
Small	In Metro Area	Catholic	2
Small	In Metro Area	Other Nonpublic	11
Large	In Metro Area	Catholic	18
Large	In Metro Area	Other Nonpublic	8
Maryland			
Small	Not In Metro Area	Other Nonpublic	2
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	8
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	14
Large	In Metro Area	Other Nonpublic	12
Maine			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	10
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	4
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	5
Large	In Metro Area	Catholic	3
Large	In Metro Area	Other Nonpublic	4

Table B-18 (continued)
Distribution of Selected Nonpublic Schools by Sampling Strata, Eighth Grade

Small or Large School	Metro Status	School Type	Originally Selected Schools
Missouri			
Small	Not In Metro Area	Catholic	2
Small	Not In Metro Area	Other Nonpublic	3
Small	In Metro Area	Catholic	2
Small	In Metro Area	Other Nonpublic	6
Large	Not In Metro Area	Catholic	2
Large	Not In Metro Area	Other Nonpublic	2
Large	In Metro Area	Catholic	16
Large	In Metro Area	Other Nonpublic	6
Montana			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	11
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Catholic	5
Large	Not In Metro Area	Other Nonpublic	3
Large	In Metro Area	Catholic	2
Large	In Metro Area	Other Nonpublic	1
North Carolina			
Small	Not In Metro Area	Other Nonpublic	4
Small	In Metro Area	Other Nonpublic	6
Large	Not In Metro Area	Other Nonpublic	2
Large	In Metro Area	Catholic	1
Large	In Metro Area	Other Nonpublic	7
Nebraska			
Small	Not In Metro Area	Catholic	3
Small	Not In Metro Area	Other Nonpublic	7
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	4
Large	Not In Metro Area	Catholic	4
Large	Not In Metro Area	Other Nonpublic	2
Large	In Metro Area	Catholic	12
Large	In Metro Area	Other Nonpublic	3
New Mexico			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	3
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	6
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	3
Large	In Metro Area	Catholic	4
Large	In Metro Area	Other Nonpublic	4

Table B-18 (continued)*Distribution of Selected Nonpublic Schools by Sampling Strata, Eighth Grade*

Small or Large School	Metro Status	School Type	Originally Selected Schools
Nevada			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Catholic	1
Large	In Metro Area	Catholic	4
Large	In Metro Area	Other Nonpublic	5
New York			
Small	Not In Metro Area	Other Nonpublic	2
Small	In Metro Area	Catholic	1
Small	In Metro Area	Other Nonpublic	7
Large	Not In Metro Area	Catholic	1
Large	In Metro Area	Catholic	19
Large	In Metro Area	Other Nonpublic	15
Rhode Island			
Small	Not In Metro Area	Other Nonpublic	1
Small	In Metro Area	Catholic	5
Small	In Metro Area	Other Nonpublic	7
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	23
Large	In Metro Area	Other Nonpublic	8
Washington			
Small	Not In Metro Area	Other Nonpublic	2
Small	In Metro Area	Other Nonpublic	6
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	6
Large	In Metro Area	Other Nonpublic	6
West Virginia			
Small	Not In Metro Area	Catholic	1
Small	Not In Metro Area	Other Nonpublic	8
Small	In Metro Area	Catholic	2
Small	In Metro Area	Other Nonpublic	2
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	3
Large	In Metro Area	Other Nonpublic	2
Wyoming			
Small	Not In Metro Area	Other Nonpublic	8
Small	In Metro Area	Other Nonpublic	3
Large	Not In Metro Area	Catholic	1
Large	Not In Metro Area	Other Nonpublic	1
Large	In Metro Area	Catholic	2
Large	In Metro Area	Other Nonpublic	1

Table B-19
Weighted School Participation Rates and Sample Counts
Grade 4 Reading for Public Schools

Jurisdiction	Weighted Participation Rate After Substitution (%)	Number of Schools in Original Sample	Total Number of Schools That Participated (Including Substitutes)
Alabama	91	108	98
Arizona	98	111	108
Arkansas	97	107	102
California	80	107	84
Colorado	95	110	104
Connecticut	98	109	107
Delaware	100	65	65
District of Columbia	100	114	104
DoDEA/DoDDS	100	41	39
DoDEA/DDESS	100	104	103
Florida	99	105	103
Georgia	99	105	104
Hawaii	100	108	105
Illinois	84	107	89
Iowa	84	109	92
Kansas	70	112	79
Kentucky	92	108	99
Louisiana	100	110	109
Maine	96	119	106
Maryland	88	105	92
Massachusetts	88	111	95
Michigan	90	107	95
Minnesota	86	107	92
Mississippi	94	105	96
Missouri	99	110	105
Montana	78	115	83
Nevada	100	113	113
New Hampshire	70	109	74
New Mexico	99	110	109
New York	84	106	89
North Carolina	99	106	103
Oklahoma	100	110	109
Oregon	94	109	102

(continued)

Table B-19 (continued)
Weighted School Participation Rates and Sample Counts
Grade 4 Reading for Public Schools

Jurisdiction	Weighted Participation Rate After Substitution (%)	Number of Schools in Original Sample	Total Number of Schools That Participated (Including Substitutes)
Rhode Island	100	107	106
South Carolina	97	105	98
Tennessee	97	108	103
Texas	97	108	102
Utah	100	107	106
Virgin Islands	100	24	24
Virginia	100	106	106
Washington	89	107	93
West Virginia	100	111	110
Wisconsin	82	108	88
Wyoming	100	121	117

Table B-20
Weighted School Participation Rates and Sample Counts
Grade 4 Reading for Nonpublic Schools

Jurisdiction	Weighted Participation Rate After Substitution (%)	Number of Schools in Original Sample	Total Number of Schools That Participated (Including Substitutes)
Arkansas	76	13	7
Colorado	86	16	11
Connecticut	82	18	12
Florida	78	20	12
Georgia	80	13	9
Hawaii	85	23	18
Illinois	70	25	14
Iowa	92	18	16
Louisiana	81	24	17
Maine	80	16	10
Maryland	66	24	14
Massachusetts	84	19	13
Michigan	73	21	13
Minnesota	81	22	17
Mississippi	74	14	10
Missouri	80	24	17
Montana	88	14	5
Nebraska	99	26	22
Nevada	89	10	9
New Mexico	91	20	16
New York	67	27	17
North Carolina	90	13	10
Rhode Island	96	23	18
South Carolina	96	15	11
Utah	75	10	8
Virgin Islands	96	27	24
Washington	77	15	10
West Virginia	86	13	7
Wisconsin	75	36	24
Wyoming	96	11	7

Table B-21
Weighted School Participation Rates and Sample Counts
Grade 8 Reading and Writing for Public Schools

Jurisdiction	Reading			Writing		
	Weighted Percentage School Participation After Substitution	Number of Schools in Original Sample	Total Number of Schools That Participated (Including Substitutes)	Weighted Percentage School Participation After Substitution	Number of Schools in Original Sample	Total Number of Schools That Participated (Including Substitutes)
Alabama	91	113	102	90	113	101
Arizona	97	110	105	98	111	104
Arkansas	97	113	105	97	114	105
California	84	108	90	83	107	88
Colorado	97	110	106	97	110	106
Connecticut	99	107	104	99	107	104
Delaware	100	32	31	100	31	30
District of Columbia	100	37	30	100	38	31
DoDEA/DoDDS	100	11	11	100	12	12
DoDEA/DDESS	100	59	57	100	57	55
Florida	100	104	103	100	105	104
Georgia	100	106	104	100	106	104
Hawaii	100	55	51	100	53	49
Illinois	81	111	89	80	110	88
Kansas	71	116	81	—	—	—
Kentucky	87	108	91	87	109	89
Louisiana	100	112	110	100	113	112
Maine	97	104	97	97	104	98
Maryland	85	107	88	86	108	89
Massachusetts	89	105	91	89	106	92
Minnesota	74	109	81	74	108	80
Mississippi	92	103	92	92	104	92
Missouri	97	117	109	97	115	108
Montana	78	92	59	78	93	62
Nevada	99	58	55	99	58	55
New Mexico	96	93	88	96	94	89
New York	77	109	81	77	108	81
North Carolina	100	107	104	100	107	104
Oklahoma	100	105	103	100	104	101
Oregon	88	109	96	88	109	96
Rhode Island	100	51	50	100	51	50

(continued)

Table B-21 (continued)
Weighted School Participation Rates and Sample Counts
Grade 8 Reading and Writing for Public Schools

Jurisdiction	Reading			Writing		
	Weighted Percentage School Participation After Substitution	Number of Schools in Original Sample	Total Number of Schools That Participated (Including Substitutes)	Weighted Percentage School Participation After Substitution	Number of Schools in Original Sample	Total Number of Schools That Participated (Including Substitutes)
South Carolina	95	105	99	94	105	99
Tennessee	89	109	95	89	109	95
Texas	96	109	100	96	108	100
Utah	100	96	94	100	96	94
Virgin Islands	100	6	6	100	6	6
Virginia	100	104	103	100	104	103
Washington	86	108	93	87	107	92
West Virginia	100	107	106	100	107	106
Wisconsin	73	111	81	73	111	80
Wyoming	95	69	67	100	70	65

Table B-22
Weighted School Participation Rates and Sample Counts
Grade 8 Reading and Writing for Nonpublic Schools

Jurisdiction	Reading			Writing		
	Weighted Percentage School Participation After Substitution	Number of Schools in Original Sample	Total Number of Schools That Participated (Including Substitutes)	Weighted Percentage School Participation After Substitution	Number of Schools in Original Sample	Total Number of Schools That Participated (Including Substitutes)
Arizona	78	13	9	76	12	7
Arkansas	86	12	8	83	11	9
California	79	20	13	84	20	9
Colorado	100	15	10	78	14	8
Connecticut	84	27	19	70	23	13
Florida	74	19	11	85	19	11
Georgia	100	13	11	88	13	9
Illinois	61	28	14	59	28	14
Louisiana	78	31	22	90	33	27
Maine	78	16	8	58	17	5
Maryland	82	23	14	79	25	16
Massachusetts	65	22	10	70	25	15
Missouri	90	23	16	69	26	16
Montana	82	15	9	100	15	13
Nebraska	89	25	20	92	25	21
Nevada	88	10	8	95	9	7
New Mexico	83	18	13	80	16	11
New York	73	31	18	80	29	19
North Carolina	84	13	9	78	13	8
Rhode Island	85	30	21	82	30	20
Virgin Islands	100	15	14	82	14	10
Washington	100	15	11	92	13	8
West Virginia	87	10	7	85	11	7
Wyoming	95	9	6	77	9	6

Table B-23

Weighted Student Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples
Grade 4 Reading for Public Schools*

Jurisdiction	Weighted Percentage Student Participation After Makeups	Number of Students Sampled	Number of Non- accommodated Students† Assessed	Total Number of Students Assessed	Weighted Percentage of Students Identified as SD or LEP	Weighted Percentage of Students Excluded
Alabama	96	2,819	2,506	2,506	15	9
Arizona	94	2,901	2,432	2,432	22	10
Arkansas	95	2,956	2,580	2,580	11	5
California	93	2,112	1,722	1,722	30	15
Colorado	94	2,899	2,528	2,528	15	7
Connecticut	94	2,940	2,484	2,484	17	12
Delaware	94	2,684	2,309	2,309	18	8
District of Columbia	93	2,815	2,353	2,353	15	10
DoDEA/DDESS	96	3,122	2,647	2,647	10	5
DoDEA/DDESS	94	3,175	2,609	2,609	8	5
Florida	94	2,953	2,463	2,463	17	9
Georgia	96	3,051	2,647	2,647	10	7
Hawaii	95	2,943	2,600	2,600	15	5
Illinois	95	2,459	2,161	2,161	13	9
Iowa	96	2,456	2,232	2,232	15	8
Kansas	93	2,116	1,845	1,845	13	6
Kentucky	96	2,787	2,442	2,442	13	10
Louisiana	95	3,029	2,587	2,587	16	13
Maine	93	2,687	2,355	2,355	14	8
Maryland	95	2,600	2,241	2,241	13	10
Massachusetts	95	2,604	2,306	2,306	20	9
Michigan	93	2,723	2,365	2,365	10	7
Minnesota	94	2,535	2,271	2,271	15	4
Mississippi	95	2,842	2,552	2,552	7	4
Missouri	95	2,858	2,482	2,482	13	7
Montana	95	2,024	1,847	1,847	9	4
Nevada	94	3,159	2,597	2,597	20	12
New Hampshire	93	2,056	1,805	1,805	15	5
New Mexico	94	2,726	2,284	2,284	28	11
New York	95	2,474	2,221	2,221	13	8
North Carolina	94	2,960	2,514	2,514	16	11
Oklahoma	95	3,035	2,576	2,576	16	10

* The reporting samples for reading include all non SD/LEP students plus SD/LEP students from sample type 2.

† No accommodated students were assessed.

(continued)

Table B-23 (continued)

Weighted Student Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples
Grade 4 Reading for Public Schools*

Jurisdiction	Weighted Percentage Student Participation After Makeups	Number of Students Sampled	Number of Non- accommodated Students† Assessed	Total Number of Students Assessed	Weighted Percentage of Students Identified as SD or LEP	Weighted Percentage of Students Excluded
Oregon	95	2,783	2,396	2,396	23	8
Rhode Island	94	2,919	2,533	2,533	21	8
South Carolina	95	2,799	2,411	2,411	18	12
Tennessee	94	2,972	2,627	2,627	14	5
Texas	95	2,694	2,241	2,241	28	14
Utah	95	3,034	2,678	2,678	15	6
Virgin Islands	96	1,645	1,469	1,469	10	8
Virginia	95	2,999	2,602	2,602	16	9
Washington	94	2,635	2,378	2,378	17	6
West Virginia	94	2,927	2,518	2,518	13	10
Wisconsin	95	2,343	2,071	2,071	14	9
Wyoming	95	2,948	2,642	2,642	14	4

* The reporting samples for reading include all non SD/LEP students plus SD/LEP students from sample type 2.

† No accommodated students were assessed.

Table B-24

Weighted Student Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples
Grade 4 Reading for Nonpublic Schools*

Jurisdiction	Weighted Percentage Student Participation After Makeups	Number of Students Sampled	Number of Non- accommodated Students† Assessed	Total Number of Students Assessed	Weighted Percentage of Students Identified as SD or LEP	Weighted Percentage of Students Excluded
Arkansas	97	168	163	163	0	0
Colorado	95	233	221	221	2	0
Connecticut	95	277	261	261	7	1
Florida	94	291	271	271	5	1
Georgia	97	298	266	266	2	1
Hawaii	97	395	379	379	1	0
Illinois	96	368	353	353	0	0
Iowa	98	336	329	329	3	0
Louisiana	95	439	413	413	5	2
Maine	94	135	127	127	3	0
Maryland	98	306	297	297	4	1
Massachusetts	94	308	282	282	3	3
Michigan	95	280	264	264	1	1
Minnesota	95	356	335	335	3	1
Mississippi	98	230	224	224	2	0
Missouri	96	333	317	317	2	1
Montana	94	108	99	99	7	2
Nebraska	96	498	476	476	2	1
Nevada	95	159	150	150	1	1
New Mexico	95	246	221	221	13	6
New York	96	404	377	377	2	2
North Carolina	95	246	227	227	5	0
Rhode Island	95	405	379	379	3	0
South Carolina	94	245	227	227	2	1
Utah	94	114	107	107	0	0
Virgin Islands	96	444	426	426	0	0
Washington	95	186	175	175	2	0
West Virginia	100	125	124	124	0	0
Wisconsin	96	443	424	424	0	0
Wyoming	91	105	95	95	0	0

* The reporting samples for reading include all non SD/LEP students plus SD/LEP students from sample type 2.

† No accommodated students were assessed.

Table B-25

Weighted Student Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples
Grade 8 Reading for Public Schools*

Jurisdiction	Weighted Percentage Student Participation After Makeups	Number of Students Sampled	Number of Non- accommodated Students† Assessed	Total Number of Students Assessed	Weighted Percentage of Students Identified as SD or LEP	Weighted Percentage of Students Excluded
Alabama	93	2,820	2,428	2,428	14	7
Arizona	91	2,788	2,325	2,325	15	6
Arkansas	92	2,904	2,412	2,412	12	7
California	91	2,331	1,944	1,944	23	8
Colorado	91	2,971	2,542	2,542	15	5
Connecticut	91	2,928	2,489	2,489	15	8
Delaware	91	2,396	1,987	1,987	17	8
District of Columbia	86	1,968	1,528	1,528	15	9
DoDEA/DoDDS	95	732	610	610	13	7
DoDEA/DDESS	94	2,578	2,138	2,138	7	3
Florida	89	2,928	2,392	2,392	16	5
Georgia	90	3,007	2,499	2,499	12	6
Hawaii	91	2,877	2,461	2,461	14	6
Illinois	93	2,316	2,051	2,051	12	6
Kansas	92	2,164	1,857	1,857	11	5
Kentucky	93	2,649	2,282	2,282	11	5
Louisiana	91	3,001	2,479	2,479	13	9
Maine	92	2,712	2,363	2,363	13	6
Maryland	89	2,539	2,087	2,087	12	7
Massachusetts	91	2,495	2,141	2,141	16	6
Minnesota	93	2,218	1,926	1,926	12	4
Mississippi	92	2,676	2,274	2,274	11	7
Missouri	92	2,935	2,526	2,526	13	6
Montana	92	2,142	1,877	1,877	10	3
Nevada	91	3,020	2,449	2,449	16	8
New Mexico	90	2,700	2,183	2,183	20	7
New York	88	2,244	1,842	1,842	14	9
North Carolina	92	2,954	2,487	2,487	14	9
Oklahoma	91	2,682	2,182	2,182	14	9
Oregon	89	2,624	2,169	2,169	14	4
Rhode Island	88	2,838	2,393	2,393	17	5

* The reporting samples for reading include all non SD/LEP students plus SD/LEP students from sample type 2.

† No accommodated students were assessed.

(continued)

Table B-25 (continued)

Weighted Student Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples
Grade 8 Reading for Public Schools*

Jurisdiction	Weighted Percentage Student Participation After Makeups	Number of Students Sampled	Number of Non- accommodated Students† Assessed	Total Number of Students Assessed	Weighted Percentage of Students Identified as SD or LEP	Weighted Percentage of Students Excluded
South Carolina	93	2,838	2,429	2,429	12	6
Tennessee	90	2,558	2,159	2,159	14	4
Texas	93	2,730	2,318	2,318	18	7
Utah	90	3,004	2,510	2,510	12	5
Virgin Islands	88	767	643	643	5	5
Virginia	91	2,958	2,493	2,493	13	7
Washington	91	2,573	2,205	2,205	12	4
West Virginia	91	2,916	2,442	2,442	12	8
Wisconsin	92	2,209	1,918	1,918	14	8
Wyoming	91	2,891	2,509	2,509	11	2

* The reporting samples for reading include all non SD/LEP students plus SD/LEP students from sample type 2.

† No accommodated students were assessed.

Table B-26

Weighted Student Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples
Grade 8 Reading for Nonpublic Schools*

Jurisdiction	Weighted Percentage Student Participation After Makeups	Number of Students Sampled	Number of Non- accommodated Students† Assessed	Total Number of Students Assessed	Weighted Percentage of Students Identified as SD or LEP	Weighted Percentage of Students Excluded
Arizona	90	204	174	174	17	2
Arkansas	97	140	132	132	4	4
California	97	305	295	295	1	0
Colorado	97	159	154	154	0	0
Connecticut	95	367	343	343	1	0
Florida	93	204	189	189	1	0
Georgia	95	194	185	185	0	0
Illinois	98	298	288	288	3	1
Louisiana	95	480	453	453	4	0
Maine	96	82	78	78	0	0
Maryland	96	344	326	326	1	0
Massachusetts	96	191	183	183	0	0
Missouri	96	300	288	288	0	0
Montana	98	151	147	147	0	0
Nebraska	95	384	362	362	2	2
Nevada	96	138	129	129	4	2
New Mexico	95	184	166	166	26	2
New York	95	368	345	345	4	2
North Carolina	96	259	238	238	8	5
Rhode Island	94	423	401	401	2	1
Virgin Islands	96	238	228	228	0	0
Washington	94	247	229	229	7	3
West Virginia	93	105	96	96	0	0
Wyoming	99	52	51	51	0	0

* The reporting samples for reading include all non SD/LEP students plus SD/LEP students from sample type 2.

† No accommodated students were assessed.

Table B-27
*Weighted Student Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples**
Grade 8 Writing for Public Schools

Jurisdiction	Weighted Percentage Student Participation After Makeups	Number of Students Sampled	Number of Nonaccommodated Students Assessed	Number of Accommodated Students Assessed	Total Number of Students Assessed	Weighted Percentage of Students Identified as SD or LEP	Weighted Percentage of Students Excluded
Alabama	92	2,938	2,427	22	2,449	12	6
Arizona	89	3,111	2,437	62	2,499	17	5
Arkansas	92	3,041	2,428	34	2,462	13	6
California	92	2,618	2,122	35	2,157	23	6
Colorado	91	3,197	2,619	78	2,697	13	4
Connecticut	90	3,186	2,514	78	2,592	15	7
Delaware	91	2,522	2,048	71	2,119	14	3
District of Columbia	85	2,115	1,571	21	1,592	13	6
DoDEA/DoDDS	95	765	628	22	650	10	3
DoDEA/DDESS	93	2,650	2,144	38	2,182	7	1
Florida	89	3,222	2,518	56	2,574	16	5
Georgia	90	3,208	2,550	55	2,605	11	5
Hawaii	92	3,092	2,584	63	2,647	15	4
Illinois	92	2,457	2,096	49	2,145	12	4
Kentucky	93	2,713	2,235	106	2,341	10	2
Louisiana	91	3,222	2,530	123	2,653	13	5
Maine	91	2,970	2,431	77	2,508	14	5
Maryland	89	2,726	2,119	144	2,263	13	2
Massachusetts	92	2,806	2,273	126	2,399	17	5
Minnesota	90	2,344	1,923	57	1,980	14	3
Mississippi	92	2,839	2,378	23	2,401	9	5
Missouri	92	3,080	2,510	111	2,621	13	3
Montana	93	2,326	1,981	43	2,024	11	2

* The reporting samples for writing included both accommodated and nonaccommodated students.

(continued)

Table B-27 (continued)
*Weighted Student Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples**
Grade 8 Writing for Public Schools

Jurisdiction	Weighted Percentage Student Participation After Makeups	Number of Students Sampled	Number of Nonaccommodated Students Assessed	Number of Accommodated Students Assessed	Total Number of Students Assessed	Weighted Percentage of Students Identified as SD or LEP	Weighted Percentage of Students Excluded
Nevada	89	3,258	2,482	71	2,553	16	6
New Mexico	89	3,109	2,339	87	2,426	23	6
New York	87	2,443	1,865	116	1,981	15	5
North Carolina	93	3,147	2,505	164	2,669	14	4
Oklahoma	92	2,868	2,233	25	2,258	13	9
Oregon	89	2,851	2,257	66	2,323	15	3
Rhode Island	89	3,071	2,441	75	2,516	17	4
South Carolina	91	2,993	2,425	44	2,469	12	5
Tennessee	91	2,739	2,253	22	2,275	13	4
Texas	93	3,068	2,467	63	2,530	19	6
Utah	90	3,152	2,564	24	2,588	10	4
Virgin Islands	87	777	614	0	614	8	8
Virginia	91	3,156	2,523	82	2,605	14	4
Washington	89	2,753	2,223	63	2,286	13	4
West Virginia	91	3,168	2,525	86	2,611	14	5
Wisconsin	92	2,332	1,952	54	2,006	11	4
Wyoming	92	3,142	2,668	58	2,726	9	2

* The reporting samples for writing included both accommodated and nonaccommodated students.

Table B-28
*Weighted Student Participation Rates, Exclusion Rates, and Sample Counts for the Reporting Samples**
Grade 8 Writing for Nonpublic Schools

Jurisdiction	Weighted Percentage Student Participation After Makeups	Number of Students Sampled	Number of Nonaccommodated Students Assessed	Number of Accommodated Students Assessed	Total Number of Students Assessed	Weighted Percentage of Students Identified as SD or LEP	Weighted Percentage of Students Excluded
Arizona	96	149	129	1	130	14	8
Arkansas	96	146	140	0	140	1	1
California	98	232	224	0	224	0	0
Colorado	93	147	137	0	137	14	0
Connecticut	93	261	235	5	240	5	1
Florida	94	235	210	3	213	5	0
Georgia	94	156	144	0	144	1	1
Illinois	96	328	313	1	314	1	0
Louisiana	97	603	570	10	580	4	0
Maine	96	100	95	0	95	0	0
Maryland	96	367	347	3	350	1	0
Massachusetts	92	288	255	8	263	5	0
Missouri	96	314	300	3	303	2	0
Montana	96	217	203	3	206	3	1
Nebraska	97	370	346	8	354	2	0
Nevada	92	122	108	0	108	2	0
New Mexico	96	223	198	6	204	16	1
New York	96	403	378	2	380	9	2
North Carolina	95	271	247	1	248	2	1
Rhode Island	96	453	434	0	434	1	0
Virgin Islands	98	198	193	0	193	0	0
Washington	94	168	153	2	155	4	0
West Virginia	98	122	117	0	117	2	0
Wyoming	95	64	59	2	61	9	0

* The reporting samples for writing included both accommodated and nonaccommodated students.

Table B-29
Results of Logistic Regression Analysis of School Nonresponse – Grade 4 Reading

Jurisdiction	School Participation Rate (%)	Percent of Population Covered by Model	Model with All Variables			Test: Y_{ij}'s = 0	
			Degrees of Freedom	Significance	Significant Variables	Degrees of Freedom	Significance
California	83.15	85.83	8	p=0.646	none	4	p=0.684
Illinois	80.28	100.00	9	p=0.003	percent black, p=0.006	4	p=0.067
Kentucky	87.14	73.23	9	p=0.677	none	4	p=0.256
Massachusetts	89.28	77.42	10	p=0.218	none	4	p=0.839
Maryland	86.42	81.62	8	p=0.494	none	4	p=0.468
Minnesota	73.51	100.00	7	p=0.018	estimated grade enrollment, p=0.001	4	p=0.010
Montana	77.60	82.51	6	p=0.045	None	4	p=0.146
New York	77.27	100.00	8	p=0.099	None	4	p=0.588
Oregon	87.53	86.66	11	p=0.079	estimated grade enrollment, p=0.038	4	p=0.268
Tennessee	89.03	60.07	8	p=0.354	None	4	p=0.140
Washington	86.59	95.16	11	p=0.506	None	4	p=0.852
Wisconsin	72.91	100.00	8	p=0.246	percent of black students, p=0.007	4	p=0.044

Table B-30
Results of Logistic Regression Analysis of School Nonresponse – Grade 8 Reading

Jurisdiction	School Participation Rate (%)	Percent of Population Covered by Model	Model with All Variables			Test: Y_{ij} 's = 0	
			Degrees of Freedom	Significance	Significant Variables	Degrees of Freedom	Significance
California	83.74	79.87	7	p=0.400	none	4	p=0.598
Illinois	81.12	100.00	9	p=0.001	none	4	p=0.126
Kansas	70.60	100.00	9	p=0.748	none	4	p=0.353
Kentucky	87.32	72.63	9	p=0.701	none	4	p=0.510
Massachusetts	89.20	77.59	10	p=0.818	none	4	p=0.691
Maryland	85.45	81.62	8	p=0.413	none	4	p=0.243
Minnesota	73.73	100.00	7	p=0.009	estimated grade enrollment, p=0.001	4	p=0.003
Montana	77.81	79.74	6	p=0.008	nonresponse cell 5, p=0.028	4	p=0.003
New York	77.27	100.00	8	p=0.198	none	4	p=0.282
Oregon	87.53	86.66	11	p=0.000	none	4	p=0.232
Tennessee	89.03	60.09	8	p=0.203	none	4	p=0.083
Washington	86.13	95.22	11	p=0.701	none	4	p=0.897
Wisconsin	73.18	100.00	8	p=0.331	percent black, p=0.013	4	p=0.075

Table B-31
Results of Logistic Regression Analysis of School Nonresponse – Grade 8 Writing

Jurisdiction	School Participation Rate (%)	Percent of Population Covered by Model	Model with All Variables			Test: Y_{ij}'s = 0	
			Degrees of Freedom	Significance	Significant Variables	Degrees of Freedom	Significance
California	83.15	85.83	8	p=0.646	none	4	p=0.684
Illinois	80.28	100.00	9	p=0.003	percent black, p=0.006	4	p=0.067
Kentucky	87.14	73.23	9	p=0.677	None	4	p=0.256
Massachusetts	89.28	77.42	10	p=0.218	None	4	p=0.839
Maryland	86.42	81.62	8	p=0.494	None	4	p=0.468
Minnesota	73.51	100.00	7	p=0.018	estimated grade enrollment, p=0.001	4	p=0.010
Montana	77.60	82.51	6	p=0.045	None	4	p=0.146
New York	77.27	100.00	8	p=0.099	None	4	p=0.588
Oregon	87.53	86.66	11	p=0.079	estimated grade enrollment, p=0.038	4	p=0.268
Tennessee	89.03	60.07	8	p=0.354	None	4	p=0.140
Washington	86.59	95.16	11	p=0.506	None	4	p=0.852
Wisconsin	72.91	100.00	8	p=0.246	percent of black students, p=0.007	4	p=0.044

Appendix C

CONSTRUCTED-RESPONSE ITEM SCORE STATISTICS

This appendix contains information about the constructed-response items included in the scaling of data from the 1998 assessments of reading, writing, and civics. For each subject area and grade, the information in the tables includes the NAEP item numbers for each of the constructed-response items included in scaling, and the block that contains the item. The tables also indicate the codes from the NAEP database that denote the range of responses and the correct responses where appropriate. A portion of the responses to the constructed-response items were scored twice for the purpose of examining rater reliability. For each item, the number of papers with responses that were scored a second time is listed, along with the percent agreement between raters and an index of reliability based on those responses. Cohen's Kappa (Cohen, 1968) is the reliability estimate used for dichotomized items. For items that are not dichotomized (i.e., polytomous items), the intraclass correlation coefficient is used as the index of reliability. See Chapter 9 for more information about score reliability for constructed-response items.

Table C-1
*Score Range, Percent Agreement, and Cohen's Kappa**
for the Dichotomously Scored Constructed-Response Reading Items
Used in 1998 National Main Assessment Scaling, Grade 4 †

Item	Block	Range of Response Codes	Correct Response Codes	Sample Size	Percent Agreement	Cohen's Kappa
R012102	R4	1-2	2	1,923	98	0.970
R012104	R4	1-2	2	1,900	96	0.910
R012106	R4	1-2	2	1,862	93	0.859
R012108	R4	1-2	2	1,761	97	0.920
R012109	R4	1-2	2	1,752	97	0.922
R012112	R4	1-2	2	1,299	94	0.870
R012201	R6	1-2	2	1,925	96	0.923
R012206	R6	1-2	2	1,697	98	0.956
R012208	R6	1-2	2	1,547	93	0.852
R012210	R6	1-2	2	1,452	95	0.820
R012503	R10	1-2	2	1,921	96	0.922
R012504	R10	1-2	2	1,897	98	0.969
R012506	R10	1-2	2	1,865	97	0.949
R012508	R10	1-2	2	1,794	98	0.956
R012511	R10	1-2	2	1,637	97	0.941
R012601	R5	1-2	2	1,897	90	0.759
R012604	R5	1-2	2	1,855	93	0.834
R012611	R5	1-2	2	1,475	89	0.779
R012702	R7	1-2	2	1,908	97	0.913
R012703	R7	1-2	2	1,878	94	0.877
R012705	R7	1-2	2	1,798	94	0.860
R012706	R7	1-2	2	1,765	87	0.705
R012710	R7	1-2	2	1,227	92	0.839
R015802	R9	1-2	2	1,909	92	0.786
R017001	R3	1-2	2	2,035	96	0.902
R017004	R3	1-2	2	1,988	97	0.927
R017006	R3	1-2	2	1,938	96	0.908

* Cohen's Kappa is a measure of reliability that is appropriate for items that are dichotomized. These items are dichotomized into right and wrong.

† Rescored responses from the national and state assessment samples contributed to these statistics.

Table C-2
*Score Range, Percent Agreement, and Cohen's Kappa**
for the Dichotomously Scored Constructed-Response Reading Items
Used in 1998 National Main Assessment Scaling, Grade 8[†]

Item	Block	Range of Response Codes	Correct Response Codes	Sample Size	Percent Agreement	Cohen's Kappa
R012601	R5	1-2	2	1,323	85	0.713
R012604	R5	1-2	2	1,326	91	0.824
R012611	R5	1-2	2	1,258	87	0.699
R012702	R7	1-2	2	1,233	97	0.872
R012703	R7	1-2	2	1,222	91	0.819
R012705	R7	1-2	2	1,231	89	0.785
R012706	R7	1-2	2	1,229	85	0.703
R012710	R7	1-2	2	1,180	92	0.829
R012713	R7	1-2	2	1,065	99	0.979
R013001	R11	1-2	2	1,237	94	0.816
R013003	R11	1-2	2	1,239	100	0.996
R013005	R11	1-2	2	1,215	96	0.891
R013007	R11	1-2	2	1,183	99	0.957
R013008	R11	1-2	2	1,152	91	0.832
R013009	R11	1-2	2	1,131	96	0.874
R013010	R11	1-2	2	1,115	97	0.920
R013011	R11	1-2	2	1,098	86	0.747
R013203	R6	1-2	2	1,236	99	0.932
R013205	R6	1-2	2	1,232	96	0.836
R013207	R6	1-2	2	1,226	90	0.772
R013209	R6	1-2	2	1,210	98	0.944
R013211	R6	1-2	2	1,088	84	0.665
R013402	R10	1-2	2	1,233	98	0.964
R013405	R10	1-2	2	1,229	96	0.922
R013407	R10	1-2	2	1,184	95	0.900
R013409	R10	1-2	2	1,151	96	0.924
R013411	R10	1-2	2	1,049	94	0.868
R013412	R10	1-2	2	998	94	0.741
R015901	R4	1-2	2	1,219	94	0.894
R017101	R3	1-2	2	1,238	94	0.891
R017108	R3	1-2	2	1,136	98	0.972
R017210	R8	1-2	2	1,075	91	0.705

* Cohen's Kappa is a measure of reliability that is appropriate for items that are dichotomized. These items are dichotomized into right and wrong.

[†] Rescored responses from the national and state assessment samples contributed to these statistics.

Table C-3
*Score Range, Percent Agreement, and Cohen's Kappa**
for the Dichotomously Scored Constructed-Response Reading Items
Used in 1998 National Main Assessment Scaling, Grade 12

Item	Block	Range of Response Codes	Correct Response Codes	Sample Size	Percent Agreement	Cohen's Kappa
R013203	R6	1-2	2	536	100	0.967
R013205	R6	1-2	2	529	98	0.873
R013207	R6	1-2	2	527	89	0.666
R013209	R6	1-2	2	520	97	0.939
R013211	R6	1-2	2	496	85	0.709
R013402	R10	1-2	2	508	98	0.962
R013405	R10	1-2	2	503	94	0.835
R013407	R10	1-2	2	485	94	0.839
R013409	R10	1-2	2	475	94	0.844
R013411	R10	1-2	2	426	94	0.798
R013412	R10	1-2	2	416	89	0.596
R013501	R4	1-2	2	489	92	0.864
R013503	R4	1-2	2	485	97	0.949
R013505	R4	1-2	2	467	89	0.749
R013508	R4	1-2	2	358	90	0.797
R013509	R4	1-2	2	333	92	0.831
R013701	R7	1-2	2	494	84	0.672
R013702	R7	1-2	2	496	83	0.677
R013704	R7	1-2	2	493	90	0.785
R013708	R7	1-2	2	474	86	0.734
R013710	R7	1-2	2	460	95	0.890
R013712	R7	1-2	2	405	84	0.689
R013902	R11	1-2	2	508	97	0.933
R013903	R11	1-2	2	508	98	0.965
R013904	R11	1-2	2	505	98	0.932
R013906	R11	1-2	2	505	93	0.882
R013908	R11	1-2	2	503	89	0.806
R013910	R11	1-2	2	497	97	0.945
R013913	R11	1-2	2	488	94	0.889
R015503	R13	1-2	2	506	95	0.714
R015505	R13	1-2	2	502	89	0.804
R015509	R13	1-2	2	504	90	0.838
R015512	R13	1-2	2	498	94	0.863
R017101	R3	1-2	2	496	96	0.908
R017108	R3	1-2	2	464	96	0.949

*Cohen's Kappa is a measure of reliability that is appropriate for items that are dichotomized. These items are dichotomized into right and wrong.

Table C-4
*Score Range, Percent Agreement, and Intraclass Correlation
 for the Polytomously Scored Constructed-Response Reading Items
 Used in 1998 National Main Assessment Scaling, Grade 4**

Item	Block	Range of Response Codes[†]	Sample Size	Percent Agreement	Intraclass Correlation
R012111	R4	1-4	1,555	91	0.946
R012204	R6	1-4	1,894	81	0.906
R012512	R10	1-4	1,591	90	0.957
R012607	R5	1-4	1,770	85	0.867
R012708	R7	1-4	1,637	87	0.908
R015702	R8	1-3	2,036	87	0.841
R015703	R8	1-3	2,017	89	0.862
R015704	R8	1-3	1,978	84	0.870
R015705	R8	1-3	1,963	90	0.942
R015707	R8	1-4	1,834	89	0.904
R015709	R8	1-3	1,558	88	0.881
R015803	R9	1-3	1,891	88	0.841
R015804	R9	1-4	1,845	83	0.873
R015806	R9	1-3	1,706	87	0.884
R015807	R9	1-3	1,548	87	0.880
R015809	R9	1-3	1,389	89	0.858
R017003	R3	1-3	2,019	90	0.917
R017007	R3	1-4	1,868	78	0.899
R017009	R3	1-3	1,613	87	0.821

* Rescored responses from the national and state assessment samples contributed to these statistics.

† Response codes used here are from the scoring process. They do not reflect the credit students received for the responses. See the subject-area analysis chapters (Reading-Chapter 15, Writing-Chapter 19; Civics-Chapter 23) for the scoring categories used in all other analyses.

Table C-5
*Score Range, Percent Agreement, and Intraclass Correlation
for the Polytomously Scored Constructed-Response Reading Items
Used in 1998 National Main Assessment Scaling, Grade 8**

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
R012607	R5	1-4	1,315	84	0.882
R012708	R7	1-4	1,210	86	0.913
R013004	R11	1-4	1,234	88	0.950
R013201	R6	1-4	1,244	80	0.867
R013212	R6	1-4	1,106	87	0.914
R013403	R10	1-4	1,233	98	0.987
R013406	R10	1-4	1,217	91	0.963
R015902	R4	1-3	1,222	94	0.949
R015904	R4	1-3	1,203	92	0.881
R015905	R4	1-3	1,157	91	0.918
R015906	R4	1-4	1,155	82	0.781
R015907	R4	1-3	1,063	84	0.791
R015908	R4	1-3	899	88	0.888
R016101	R9	1-3	1,317	94	0.953
R016104	R9	1-3	1,315	91	0.894
R016107	R9	1-3	1,151	94	0.950
R016108	R9	1-3	1,250	85	0.837
R016109	R9	1-3	1,248	93	0.911
R016201	R13	1-3	1,251	98	0.824
R016202	R13	1-3	1,247	94	0.886
R016204	R13	1-4	1,243	91	0.831
R016205	R13	1-3	1,244	92	0.906
R016207	R13	1-3	1,248	96	0.977
R016210	R13	1-4	1,112	82	0.839
R016211	R13	1-3	1,220	93	0.890
R016212	R13	1-3	1,189	92	0.939
R016213	R13	1-3	1,201	89	0.818
R017102	R3	1-3	1,240	90	0.929
R017104	R3	1-3	1,228	96	0.964
R017105	R3	1-4	1,219	84	0.909
R017107	R3	1-3	1,171	88	0.925
R017110	R3	1-3	1,034	94	0.940
R017204	R8	1-3	1,230	84	0.822
R017205	R8	1-4	1,227	64	0.761
R017208	R8	1-3	1,167	92	0.928

* Rescored responses from the national and state assessment samples contributed to these statistics.

Table C-6
*Score Range, Percent Agreement, and Intraclass Correlation
 for the Polytomously Scored Constructed-Response Reading Items
 Used in 1998 National Main Assessment Scaling, Grade 12*

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
R013201	R6	1-4	540	81	0.910
R013212	R6	1-4	497	86	0.914
R013403	R10	1-4	505	97	0.987
R013406	R10	1-4	498	88	0.960
R013506	R4	1-4	444	85	0.913
R013706	R7	1-4	488	80	0.852
R013915	R11	1-4	414	97	0.992
R015507	R13	1-4	505	83	0.927
R015514	R13	1-4	497	90	0.957
R016101	R9	1-3	549	93	0.950
R016104	R9	1-3	543	87	0.798
R016107	R9	1-3	486	94	0.933
R016108	R9	1-3	513	82	0.811
R016109	R9	1-3	518	94	0.930
R016301	R5	1-3	495	85	0.862
R016302	R5	1-3	491	83	0.828
R016303	R5	1-3	480	85	0.884
R016305	R5	1-3	459	77	0.774
R016306	R5	1-3	419	84	0.856
R016307	R5	1-3	381	81	0.864
R016308	R5	1-4	373	85	0.920
R016401	R8	1-3	497	85	0.850
R016402	R8	1-3	494	66	0.669
R016403	R8	1-3	497	82	0.840
R016404	R8	1-3	493	88	0.886
R016405	R8	1-3	490	94	0.934
R016407	R8	1-3	430	83	0.866
R016408	R8	1-4	450	86	0.916
R016501	R14	1-3	509	90	0.859
R016502	R14	1-3	491	92	0.881
R016601	R14	1-3	499	79	0.715
R016602	R14	1-3	491	89	0.904
R016603	R14	1-3	502	82	0.762
R016604	R14	1-3	493	83	0.785
R016605	R14	1-3	479	80	0.668
R016701	R14	1-4	488	81	0.821

(continued)

Table C-6 (continued)
*Score Range, Percent Agreement, and Intraclass Correlation
 for the Polytomously Scored Constructed-Response Reading Items
 Used in 1998 National Main Assessment Scaling, Grade 12*

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
R017102	R3	1-3	498	87	0.930
R017104	R3	1-3	499	93	0.954
R017105	R3	1-4	487	79	0.899
R017107	R3	1-3	473	89	0.939
R017110	R3	1-3	421	91	0.924

Table C-7
*Score Range, Percent Agreement, and Cohen's Kappa**
for the Dichotomously Scored Constructed-Response Reading Items
from 1994 That Were Rescored in 1998, Grade 4

Item	Block	Range of Response Codes	Correct Response Code	Sample Size	Percent Agreement	Cohen's Kappa
R012102	R4	1 - 2	2	1,004	95.518	0.918
R012104	R4	1 - 2	2	1,004	92.331	0.871
R012106	R4	1 - 2	2	1,004	87.351	0.792
R012108	R4	1 - 2	2	1,004	95.717	0.919
R012109	R4	1 - 2	2	1,004	94.323	0.898
R012112	R4	1 - 2	2	1,004	93.526	0.900
R012201	R6	1 - 2	2	995	93.266	0.871
R012206	R6	1 - 2	2	995	96.482	0.944
R012208	R6	1 - 2	2	995	92.965	0.890
R012210	R6	1 - 2	2	995	93.367	0.892
R012503	R10	1 - 2	2	887	88.726	0.797
R012504	R10	1 - 2	2	887	95.265	0.924
R012506	R10	1 - 2	2	887	92.559	0.883
R012508	R10	1 - 2	2	887	95.378	0.925
R012511	R10	1 - 2	2	887	93.574	0.896
R012601	R5	1 - 2	2	848	87.736	0.753
R012604	R5	1 - 2	2	848	94.222	0.889
R012611	R5	1 - 2	2	848	92.335	0.884
R012702	R7	1 - 2	2	1,151	93.571	0.860
R012703	R7	1 - 2	2	1,151	90.791	0.841
R012705	R7	1 - 2	2	1,151	93.831	0.886
R012706	R7	1 - 2	2	1,151	88.358	0.786
R012710	R7	1 - 2	2	1,151	95.743	0.930
R015802	R9	1 - 2	2	958	85.908	0.722

* Cohen's Kappa is a measure of reliability that is appropriate for items that are dichotomized. These items are dichotomized into right and wrong.

Table C-8
*Score Range, Percent Agreement, and Intraclass Correlation
for the Polytomously Scored Constructed-Response Reading Items
from 1994 That Were Rescored in 1998, Grade 4*

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
R012111	R4	1 - 4	1,004	90.438	0.968
R012204	R6	1 - 4	995	78.291	0.914
R012512	R10	1 - 4	887	82.976	0.946
R012607	R5	1 - 4	848	86.792	0.880
R012708	R7	1 - 4	1,151	85.491	0.911
R015702	R8	1 - 3	908	83.921	0.858
R015703	R8	1 - 3	908	86.013	0.886
R015704	R8	1 - 3	908	82.159	0.894
R015705	R8	1 - 3	908	88.436	0.949
R015707	R8	1 - 4	908	86.344	0.913
R015709	R8	1 - 3	908	91.520	0.942
R015803	R9	1 - 3	958	84.760	0.855
R015804	R9	1 - 4	958	80.167	0.892
R015806	R9	1 - 3	958	81.315	0.888
R015807	R9	1 - 3	958	82.463	0.923
R015809	R9	1 - 3	958	87.265	0.936

Table C-9
*Score Range, Percent Agreement, and Cohen's Kappa**
for the Dichotomously Scored Constructed-Response Reading Items
from 1994 That Were Rescored in 1998, Grade 8

Item	Block	Range of Response Codes	Correct Response Code	Sample Size	Percent Agreement	Cohen's Kappa
R012601	R5	1 - 2	2	1,090	86.330	0.742
R012604	R5	1 - 2	2	1,090	91.284	0.844
R012611	R5	1 - 2	2	1,090	89.083	0.786
R012702	R7	1 - 2	2	887	95.716	0.824
R012703	R7	1 - 2	2	887	83.766	0.706
R012705	R7	1 - 2	2	887	88.050	0.791
R012706	R7	1 - 2	2	887	83.315	0.678
R012710	R7	1 - 2	2	887	91.657	0.857
R012713	R7	1 - 2	2	887	98.760	0.979
R013001	R11	1 - 2	2	820	92.927	0.825
R013003	R11	1 - 2	2	820	99.146	0.983
R013005	R11	1 - 2	2	820	89.512	0.766
R013007	R11	1 - 2	2	820	97.927	0.953
R013008	R11	1 - 2	2	820	91.341	0.861
R013009	R11	1 - 2	2	820	92.561	0.838
R013010	R11	1 - 2	2	820	92.927	0.863
R013011	R11	1 - 2	2	820	84.512	0.760
R013203	R6	1 - 2	2	1,004	92.729	0.758
R013205	R6	1 - 2	2	1,004	94.920	0.883
R013207	R6	1 - 2	2	1,004	87.948	0.780
R013209	R6	1 - 2	2	1,004	96.215	0.910
R013211	R6	1 - 2	2	1,004	87.450	0.791
R013402	R10	1 - 2	2	824	97.937	0.962
R013405	R10	1 - 2	2	824	90.413	0.827
R013407	R10	1 - 2	2	824	97.816	0.961
R013409	R10	1 - 2	2	824	90.777	0.849
R013411	R10	1 - 2	2	824	93.447	0.890
R013412	R10	1 - 2	2	824	88.107	0.790
R015901	R4	1 - 2	2	973	90.236	0.834

* Cohen's Kappa is a measure of reliability that is appropriate for items that are dichotomized. These items are dichotomized into right and wrong.

Table C-10
*Score Range, Percent Agreement, and Intraclass Correlation
for the Polytomously Scored Constructed-Response Reading Items
from 1994 That Were Rescored in 1998, Grade 8*

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
R012607	R5	1 - 4	1,090	77.523	0.848
R012708	R7	1 - 4	887	77.339	0.866
R013004	R11	1 - 4	820	63.659	0.856
R013201	R6	1 - 4	1,004	83.865	0.906
R013212	R6	1 - 4	1,004	89.044	0.923
R013403	R10	1 - 4	824	95.995	0.978
R013406	R10	1 - 4	824	85.194	0.946
R015902	R4	1 - 3	973	87.770	0.914
R015904	R4	1 - 3	973	87.359	0.821
R015905	R4	1 - 3	973	86.639	0.899
R015906	R4	1 - 4	973	73.895	0.807
R015907	R4	1 - 3	973	84.275	0.896
R015908	R4	1 - 3	973	86.228	0.913
R016101	R9	1 - 3	794	86.272	0.902
R016104	R9	1 - 3	794	83.879	0.798
R016107	R9	1 - 3	794	93.451	0.973
R016108	R9	1 - 3	794	80.101	0.863
R016109	R9	1 - 3	794	88.791	0.897
R016201	R13	1 - 3	794	94.081	0.804
R016202	R13	1 - 3	794	88.917	0.832
R016204	R13	1 - 4	794	87.531	0.851
R016205	R13	1 - 3	794	87.154	0.886
R016207	R13	1 - 3	794	88.665	0.930
R016210	R13	1 - 4	794	73.552	0.890
R016211	R13	1 - 3	794	85.642	0.851
R016212	R13	1 - 3	794	89.924	0.944
R016213	R13	1 - 3	794	87.406	0.914

Table C-11
*Score Range, Percent Agreement, and Cohen's Kappa**
for the Dichotomously Scored Constructed-Response Reading Items
from 1994 That Were Rescored in 1998, Grade 12

Item	Block	Range of Response Codes	Correct Response Code	Sample Size	Percent Agreement	Cohen's Kappa
R013203	R6	1 - 2	2	987	96.150	0.775
R013205	R6	1 - 2	2	987	98.176	0.910
R013207	R6	1 - 2	2	987	87.335	0.691
R013209	R6	1 - 2	2	987	96.150	0.926
R013211	R6	1 - 2	2	987	83.992	0.736
R013402	R10	1 - 2	2	716	97.626	0.952
R013405	R10	1 - 2	2	716	91.480	0.801
R013407	R10	1 - 2	2	716	94.832	0.887
R013409	R10	1 - 2	2	716	90.922	0.801
R013411	R10	1 - 2	2	716	94.972	0.894
R013412	R10	1 - 2	2	716	86.173	0.740
R013501	R4	1 - 2	2	1,074	90.782	0.838
R013503	R4	1 - 2	2	1,074	93.948	0.905
R013505	R4	1 - 2	2	1,074	88.082	0.777
R013508	R4	1 - 2	2	1,074	90.223	0.846
R013509	R4	1 - 2	2	1,074	91.993	0.877
R013701	R7	1 - 2	2	894	76.510	0.535
R013702	R7	1 - 2	2	894	79.866	0.616
R013704	R7	1 - 2	2	894	88.479	0.777
R013708	R7	1 - 2	2	894	84.452	0.729
R013710	R7	1 - 2	2	894	89.597	0.797
R013712	R7	1 - 2	2	894	86.242	0.789
R013902	R11	1 - 2	2	731	90.971	0.800
R013903	R11	1 - 2	2	731	93.844	0.890
R013904	R11	1 - 2	2	731	95.486	0.866
R013906	R11	1 - 2	2	731	90.424	0.831
R013908	R11	1 - 2	2	731	85.636	0.745
R013910	R11	1 - 2	2	731	94.938	0.919
R013913	R11	1 - 2	2	731	92.886	0.883
R015503	R13	1 - 2	2	789	94.297	0.745
R015505	R13	1 - 2	2	789	87.706	0.787
R015509	R13	1 - 2	2	789	86.946	0.788
R015512	R13	1 - 2	2	789	91.255	0.841

* Cohen's Kappa is a measure of reliability that is appropriate for items that are dichotomized. These items are dichotomized into right and wrong.

Table C-12
*Score Range, Percent Agreement, and Intraclass Correlation
for the Polytomously Scored Constructed-Response Reading Items
from 1994 That Were Rescored in 1998, Grade 12*

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
R013201	R6	1 - 4	987	78.014	0.892
R013212	R6	1 - 4	987	85.816	0.935
R013403	R10	1 - 4	716	94.972	0.974
R013406	R10	1 - 4	716	85.894	0.949
R013506	R4	1 - 4	1,074	83.426	0.906
R013706	R7	1 - 4	894	76.063	0.826
R015507	R13	1 - 4	789	83.650	0.927
R015514	R13	1 - 4	789	83.523	0.926
R016101	R9	1 - 3	717	88.703	0.907
R016104	R9	1 - 3	717	82.287	0.699
R016107	R9	1 - 3	717	92.608	0.962
R016108	R9	1 - 3	717	77.964	0.834
R016109	R9	1 - 3	717	89.958	0.920
R016301	R5	1 - 3	1,073	69.059	0.762
R016302	R5	1 - 3	1,073	84.716	0.873
R016303	R5	1 - 3	1,073	87.512	0.915
R016305	R5	1 - 3	1,073	80.336	0.899
R016306	R5	1 - 3	1,073	80.522	0.888
R016307	R5	1 - 3	1,073	85.834	0.913
R016308	R5	1 - 4	1,073	82.665	0.897
R016401	R8	1 - 3	992	84.375	0.861
R016402	R8	1 - 3	992	62.500	0.744
R016403	R8	1 - 3	992	82.157	0.876
R016404	R8	1 - 3	992	88.710	0.908
R016405	R8	1 - 3	992	88.306	0.908
R016407	R8	1 - 3	992	81.754	0.911
R016408	R8	1 - 4	992	85.181	0.909
R016501	R14	1 - 3	746	84.584	0.812
R016502	R14	1 - 3	746	87.399	0.871
R016601	R14	1 - 4	746	76.810	0.781
R016602	R14	1 - 3	746	80.965	0.861
R016603	R14	1 - 3	746	81.769	0.779
R016604	R14	1 - 3	746	78.552	0.803
R016605	R14	1 - 3	746	79.893	0.698
R016701	R14	1 - 4	746	82.440	0.879

Table C-13
*Score Range, Percent Agreement, and Intraclass Correlation
 for the Polytomously Scored Constructed-Response Writing Items
 Used in 1998 National Main Assessment Scaling, Grade 4*

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
W004002	W3	1-6	433	76	0.943
W004102	W4	1-6	507	68	0.883
W004202	W5	1-6	540	72	0.903
W004302	W6	1-6	440	78	0.930
W004402	W7	1-6	446	78	0.917
W004502	W8	1-6	432	82	0.942
W004602	W9	1-6	449	78	0.918
W004702	W10	1-6	448	80	0.953
W004802	W11	1-6	467	76	0.926
W004902	W12	1-6	494	78	0.925
W005002	W13	1-6	454	80	0.905
W005102	W14	1-6	457	79	0.886
W005202	W15	1-6	536	75	0.915
W005302	W16	1-6	548	78	0.893
W005402	W17	1-6	751	81	0.927
W005502	W18	1-6	444	76	0.922
W005602	W19	1-6	641	70	0.911
W005702	W20	1-6	440	79	0.928
W005802	W21	1-6	432	78	0.932
W005902	W22	1-6	444	75	0.911

Table C-14
*Score Range, Percent Agreement, and Intraclass Correlation
 for the Polytomously Scored Constructed-Response Writing Items
 Used in 1998 National Main Assessment Scaling, Grade 8**

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
W006002	W3	1-6	1,127	69	0.866
W006102	W4	1-6	1,120	66	0.809
W006202	W5	1-6	1,135	76	0.896
W006302	W6	1-6	1,129	64	0.828
W006402	W7	1-6	1,438	72	0.892
W006502	W8	1-6	1,132	83	0.921
W006602	W9	1-6	1,141	81	0.909
W006702	W10	1-6	478	62	0.797
W006802	W11	1-6	1,116	71	0.850
W006902	W12	1-6	1,137	78	0.893
W007002	W13	1-6	1,130	72	0.822
W007102	W14	1-6	1,120	68	0.793
W007202	W15	1-6	1,120	79	0.888
W007302	W16	1-6	1,129	69	0.851
W007402	W17	1-6	1,130	75	0.893
W007502	W18	1-6	483	73	0.863
W007602	W19	1-6	1,452	74	0.887
W007702	W20	1-6	1,129	71	0.847
W007802	W21	1-6	1,129	66	0.842
W007902	W22	1-6	1,127	68	0.824
W008002	W23	1-6	1,134	76	0.875
W008102	W24	1-6	1,129	64	0.834
W008202	W25	1-6	563	67	0.881

* Rescored responses from the national and state assessment samples contributed to these statistics.

Table C-15
*Score Range, Percent Agreement, and Intraclass Correlation
 for the Polytomously Scored Constructed-Response Writing Items
 Used in 1998 National Main Assessment Scaling, Grade 12*

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
W008302	W3	1-6	435	87	0.924
W008402	W4	1-6	449	74	0.857
W008502	W5	1-6	526	86	0.933
W008602	W6	1-6	466	73	0.815
W008702	W7	1-6	463	79	0.884
W008802	W8	1-6	454	65	0.832
W008902	W9	1-6	447	84	0.906
W009002	W10	1-6	496	73	0.878
W009102	W11	1-6	535	76	0.888
W009202	W12	1-6	436	81	0.925
W009302	W13	1-6	444	63	0.833
W009402	W14	1-6	430	79	0.917
W009502	W15	1-6	433	85	0.936
W009602	W16	1-6	519	76	0.882
W009702	W17	1-6	455	75	0.886
W009802	W18	1-6	507	76	0.870
W009902	W19	1-6	437	68	0.843
W010002	W20	1-6	515	63	0.789
W010102	W21	1-6	607	70	0.861
W010202	W22	1-6	449	58	0.790
W010302	W23	1-6	513	66	0.864
W010402	W24	1-6	439	79	0.914
W010502	W25	1-6	446	69	0.873

Table C-16
*Score Range, Percent Agreement, and Intraclass Correlation
for the Polytomously Scored Constructed-Response Civics Items
Used in 1998 National Main Assessment Scaling, Grade 4*

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
P030004	C3	1-3	533	82	0.868
P030005	C3	1-3	522	92	0.913
P030007	C3	1-3	513	85	0.875
P030010	C3	1-4	489	91	0.942
P040102	C4	1-3	457	90	0.898
P040105	C4	1-3	452	86	0.868
P040109	C4	1-3	441	95	0.943
P040111	C4	1-3	414	93	0.946
P040203	C5	1-4	534	89	0.900
P040206	C5	1-3	529	95	0.946
P040209	C5	1-3	490	81	0.826
P040304	C6	1-3	474	94	0.959
P040310	C6	1-3	468	94	0.941
P040311	C6	1-3	456	98	0.974
P040402	C7	1-4	486	90	0.868
P040404	C7	1-4	484	82	0.867
P040409	C7	1-3	478	84	0.802
P040412	C7	1-4	447	81	0.905
P040502	C8	1-4	479	86	0.934
P040507	C8	1-3	470	92	0.839
P040510	C8	1-3	435	83	0.834

Table C-17
*Score Range, Percent Agreement, and Intraclass Correlation
 for the Polytomously Scored Constructed-Response Civics Items
 Used in 1998 National Main Assessment Scaling, Grade 8*

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
P040602	C10	1-3	500	89	0.938
P040608	C10	1-4	502	84	0.922
P040613	C10	1-3	490	85	0.906
P040703	C3	1-3	502	90	0.900
P040705	C3	1-3	500	92	0.898
P040708	C3	1-3	499	78	0.793
P040715	C3	1-3	479	86	0.911
P040803	C4	1-3	552	84	0.904
P040807	C4	1-4	551	95	0.964
P040813	C4	1-4	539	84	0.891
P040903	C5	1-3	491	68	0.707
P040906	C5	1-3	492	89	0.917
P040910	C5	1-3	487	85	0.834
P040913	C5	1-3	476	96	0.974
P041003	C6	1-3	551	86	0.898
P041007	C6	1-3	558	83	0.849
P041013	C6	1-3	553	88	0.846
P041014	C6	1-3	549	91	0.923
P041102	C7	1-3	494	90	0.942
P041106	C7	1-4	494	84	0.839
P041111	C7	1-3	474	92	0.933
P041116	C7	1-3	449	85	0.873
P041202	C8	1-3	500	89	0.918
P041205	C8	1-3	498	87	0.860
P041213	C8	1-4	494	83	0.905
P041307	C9	1-4	498	86	0.932
P041309	C9	1-3	496	92	0.952
P041315	C9	1-3	491	86	0.924

Table C-18
*Score Range, Percent Agreement, and Intraclass Correlation
 for the Polytomously Scored Constructed-Response Civics Items
 Used in 1998 National Main Assessment Scaling, Grade 12*

Item	Block	Range of Response Codes	Sample Size	Percent Agreement	Intraclass Correlation
P041404	C10	1-4	482	77	0.813
P041408	C10	1-3	476	81	0.888
P041412	C10	1-3	463	90	0.928
P041413	C10	1-3	463	83	0.871
P041503	C3	1-3	504	91	0.958
P041505	C3	1-3	510	75	0.840
P041509	C3	1-4	503	82	0.891
P041511	C3	1-3	500	87	0.923
P041606	C4	1-3	514	81	0.856
P041613	C4	1-3	506	93	0.958
P041614	C4	1-3	510	90	0.950
P041705	C5	1-3	459	73	0.806
P041706	C5	1-4	460	83	0.889
P041711	C5	1-3	449	88	0.913
P041713	C5	1-3	430	88	0.939
P041804	C6	1-3	487	72	0.815
P041806	C6	1-3	482	92	0.962
P041815	C6	1-3	473	87	0.903
P041902	C7	1-3	465	87	0.918
P041905	C7	1-4	466	79	0.829
P041907	C7	1-4	465	91	0.949
P041912	C7	1-3	459	80	0.792
P042002	C8	1-3	472	85	0.927
P042008	C8	1-3	472	82	0.904
P042009	C8	1-3	469	88	0.926
P042012	C8	1-3	464	93	0.971
P042102	C9	1-3	479	86	0.917
P042103	C9	1-4	479	86	0.887

Appendix D

DIFFERENTIAL ITEM FUNCTIONING (DIF) RESULTS

Differential item functioning (DIF) results for the reading and civics assessments are given in the tables below. Results for the writing assessment DIF analysis are detailed in Chapter 19.

Table D-1

*1998 Reading Items Identified as “C” or “CC” Items in at Least One Comparison**

Item	Block	Scale	Category	Grade	Comparison	Group Favored
R017203	R8	Reading to Gain Information	C	8	Male/Female	Male

* For each grade for which an item was administered, three comparisons were performed: Male/Female, White/Black, and White/Hispanic.

Table D-2

*1998 Civics Items Identified as “C” or “CC” Items in at Least One Comparison**

Item	Block	Scale	Category	Grade	Comparison	Group Favored
P040505	C8	Overall	C	4	White/Black	Black
P040801	C4	Overall	C	8	White/Hispanic	Hispanic
P040905	C5	Overall	C	8	Male/Female	Male
P040608	C10	Overall	CC	8	Male/Female	Female
P041816	C6	Overall	C	12	White/Black	Black
P042013	C8	Overall	C	12	White/Black	Black
P041705	C5	Overall	CC	12	White/Black	Black
P041804	C6	Overall	CC	12	White/Black	White
P042008	C8	Overall	CC	12	White/Black	White
P042012	C8	Overall	CC	12	White/Black	White
P041507	C3	Overall	C	12	Male/Female	Female

* For each grade for which an item was administered, three comparisons were performed: Male/Female, White/Black, and White/Hispanic.

Appendix E

IRT PARAMETERS

This appendix contains tables of IRT (item response theory) parameters for NAEP items that were scaled in each subject area for which IRT scales were created, as well as the block in which each item appears for each age class (*Block*) and the position of each item within its block (*Item*). Note that item parameters shown in this appendix are in the metrics used for the original calibration of the scales.

Table E-1
IRT Parameters for the 1998 Reading Items
Reading for Literary Experience Scale, Grade 4

NAEP ID	Block	Item	a_j (s.e.)		b_j (s.e.)		c_j (s.e.)		d_{j1} (s.e.)		d_{j2} (s.e.)		d_{j3} (s.e.)	
1R017001	R3	1A	0.623	(0.038)	-0.872	(0.069)	0.000	(0.000)						
1R017002	R3	2	1.506	(0.110)	-0.495	(0.056)	0.215	(0.030)						
1R017003	R3	3A	0.476	(0.026)	0.431	(0.040)	0.000	(0.000)	0.012	(0.073)	-0.012	(0.078)		
1R017004	R3	4A	0.920	(0.059)	1.008	(0.050)	0.000	(0.000)						
1R017005	R3	5	0.607	(0.094)	0.712	(0.136)	0.251	(0.041)						
1R017006	R3	6A	1.052	(0.066)	1.009	(0.045)	0.000	(0.000)						
1R017007	R3	7A	0.641	(0.030)	0.407	(0.026)	0.000	(0.000)	0.359	(0.065)	0.138	(0.066)	-0.497	(0.070)
1R017008	R3	8	1.288	(0.126)	0.554	(0.052)	0.190	(0.024)						
1R017009	R3	9A	0.496	(0.021)	-0.278	(0.058)	0.000	(0.000)	1.842	(0.102)	-1.842	(0.079)		
1R012101	R4	1	1.798	(0.105)	-0.899	(0.044)	0.248	(0.025)						
1R012102	R4	2A	0.754	(0.031)	0.015	(0.029)	0.000	(0.000)						
1R012103	R4	3	1.342	(0.068)	-0.456	(0.042)	0.175	(0.021)						
1R012104	R4	4A	0.763	(0.031)	-0.284	(0.032)	0.000	(0.000)						
1R012105	R4	5	1.110	(0.073)	0.148	(0.049)	0.244	(0.021)						
1R012106	R4	6A	1.025	(0.039)	0.107	(0.023)	0.000	(0.000)						
1R012107	R4	7	1.228	(0.083)	0.259	(0.044)	0.247	(0.020)						
1R012108	R4	8A	0.647	(0.029)	-1.008	(0.054)	0.000	(0.000)						
1R012109	R4	9A	0.520	(0.027)	-1.425	(0.080)	0.000	(0.000)						
1R012110	R4	10	0.951	(0.068)	-0.864	(0.103)	0.319	(0.039)						
1R012111	R4	11A	1.026	(0.037)	1.248	(0.024)	0.000	(0.000)	0.851	(0.025)	-0.851	(0.056)		
1R012112	R4	12A	0.757	(0.038)	-0.630	(0.048)	0.000	(0.000)						
1R012601	R5	1A	0.832	(0.040)	1.118	(0.042)	0.000	(0.000)						
1R012602	R5	2	1.472	(0.108)	1.204	(0.036)	0.167	(0.010)						
1R012603	R5	3	1.859	(0.110)	0.213	(0.030)	0.265	(0.017)						
1R012604	R5	4A	1.123	(0.050)	1.057	(0.031)	0.000	(0.000)						
1R012605	R5	5	1.133	(0.113)	0.916	(0.048)	0.297	(0.018)						
1R012606	R5	6	1.374	(0.092)	0.307	(0.041)	0.269	(0.019)						
1R012607	R5	7A	1.212	(0.041)	1.102	(0.016)	0.000	(0.000)	0.627	(0.023)	-0.059	(0.031)	-0.568	(0.052)
1R012608	R5	8	0.504	(0.044)	-0.932	(0.199)	0.247	(0.051)						
1R012609	R5	9	1.415	(0.134)	0.891	(0.039)	0.271	(0.016)						
1R012610	R5	10	2.303	(0.177)	0.609	(0.030)	0.418	(0.015)						
1R012611	R5	11A	0.814	(0.037)	0.306	(0.030)	0.000	(0.000)						
1R015801	R9	1	0.966	(0.059)	-1.318	(0.099)	0.244	(0.039)						

Table E-1 (continued)
IRT Parameters for the 1998 Reading Items
Reading for Literary Experience Scale, Grade 4

NAEP ID	Block	Item	a_j (s.e.)		b_j (s.e.)		c_j (s.e.)		d_{j1} (s.e.)		d_{j2} (s.e.)		d_{j3} (s.e.)	
1R015802	R9	2A	0.506	(0.035)	-1.272	(0.099)	0.000	(0.000)						
1R015803	R9	3A	0.646	(0.024)	-0.386	(0.040)	0.000	(0.000)	1.573	(0.074)	-1.573	(0.052)		
1R015804	R9	4A	0.659	(0.017)	0.693	(0.024)	0.000	(0.000)	2.081	(0.046)	-0.361	(0.038)	-1.720	(0.082)
1R015805	R9	5	1.029	(0.082)	0.327	(0.059)	0.300	(0.023)						
1R015806	R9	6A	0.698	(0.021)	0.268	(0.026)	0.000	(0.000)	1.089	(0.039)	-1.089	(0.040)		
1R015807	R9	7A	0.625	(0.027)	-0.087	(0.042)	0.000	(0.000)	1.293	(0.071)	-1.293	(0.059)		
1R015808	R9	8	0.721	(0.053)	-1.193	(0.142)	0.247	(0.046)						
1R015809	R9	9A	0.623	(0.019)	0.106	(0.032)	0.000	(0.000)	1.381	(0.052)	-1.381	(0.048)		

Table E-2
IRT Parameters for the 1998 Reading Items
Reading to Gain Information Scale, Grade 4

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)	d_{j3} (s.e.)
2R012201	R6	1A	0.269 (0.020)	-0.904 (0.097)	0.000 (0.000)			
2R012202	R6	2	0.941 (0.073)	0.401 (0.061)	0.264 (0.023)			
2R012203	R6	3	0.793 (0.071)	0.642 (0.069)	0.247 (0.024)			
2R012204	R6	4A	0.509 (0.017)	0.133 (0.022)	0.000 (0.000)	1.139 (0.055)	-0.350 (0.051)	-0.789 (0.059)
2R012205	R6	5	1.032 (0.082)	0.507 (0.054)	0.248 (0.022)			
2R012206	R6	6A	1.172 (0.045)	0.645 (0.024)	0.000 (0.000)			
2R012207	R6	7	0.533 (0.042)	-0.835 (0.159)	0.218 (0.045)			
2R012208	R6	8A	0.877 (0.036)	-0.523 (0.034)	0.000 (0.000)			
2R012209	R6	9	1.203 (0.074)	0.257 (0.042)	0.165 (0.019)			
2R012210	R6	10A	0.761 (0.036)	-1.242 (0.058)	0.000 (0.000)			
2R012701	R7	1	1.104 (0.066)	-0.155 (0.057)	0.247 (0.026)			
2R012702	R7	2A	0.619 (0.028)	-1.113 (0.056)	0.000 (0.000)			
2R012703	R7	8A	1.154 (0.042)	0.645 (0.023)	0.000 (0.000)			
2R012704	R7	4	1.464 (0.093)	0.774 (0.028)	0.138 (0.012)			
2R012705	R7	5A	1.536 (0.067)	1.192 (0.027)	0.000 (0.000)			
2R012706	R7	6A	0.597 (0.034)	1.341 (0.065)	0.000 (0.000)			
2R012707	R7	3	2.300 (0.146)	0.416 (0.025)	0.264 (0.014)			
2R012708	R7	10A	0.673 (0.024)	1.734 (0.028)	0.000 (0.000)	1.378 (0.037)	0.441 (0.049)	-1.819 (0.172)
2R012709	R7	9	0.562 (0.055)	-0.073 (0.150)	0.237 (0.044)			
2R012710	R7	11A	0.970 (0.048)	0.906 (0.035)	0.000 (0.000)			
2R015701	R8	1	0.883 (0.059)	-1.015 (0.109)	0.310 (0.042)			
2R015702	R8	2A	0.718 (0.025)	0.161 (0.038)	0.000 (0.000)	1.517 (0.056)	-1.517 (0.057)	
2R015703	R8	3A	0.716 (0.018)	0.077 (0.026)	0.000 (0.000)	1.417 (0.040)	-1.417 (0.038)	
2R015704	R8	4A	0.621 (0.022)	-0.145 (0.024)	0.000 (0.000)	0.402 (0.043)	-0.402 (0.038)	
2R015705	R8	5A	0.823 (0.027)	0.275 (0.021)	0.000 (0.000)	0.740 (0.032)	-0.740 (0.033)	
2R015706	R8	6	1.261 (0.113)	1.084 (0.039)	0.206 (0.014)			
2R015707	R8	7A	0.562 (0.018)	0.419 (0.030)	0.000 (0.000)	1.209 (0.045)	-1.209 (0.051)	
2R015708	R8	8	0.597 (0.043)	-0.206 (0.102)	0.156 (0.033)			
2R015709	R8	9A	0.524 (0.025)	1.137 (0.044)	0.000 (0.000)	0.366 (0.050)	-0.366 (0.069)	
2R012501	R10	1	0.609 (0.222)	3.921 (1.005)	0.309 (0.013)			
2R012502	R10	2	0.938 (0.063)	-1.691 (0.121)	0.294 (0.046)			
2R012503	R10	3A	1.086 (0.037)	-0.060 (0.022)	0.000 (0.000)			
2R012504	R10	4A	0.795 (0.030)	-0.238 (0.029)	0.000 (0.000)			

Table E-2 (continued)
IRT Parameters for the 1998 Reading Items
Reading to Gain Information Scale, Grade 4

NAEP ID	Block	Item	a_j (s.e.)		b_j (s.e.)		c_j (s.e.)		d_{j1} (s.e.)		d_{j2} (s.e.)		d_{j3} (s.e.)	
2R012505	R10	5	1.414	(0.080)	-0.608	(0.051)	0.275	(0.027)						
2R012506	R10	6A	0.838	(0.032)	-0.076	(0.027)	0.000	(0.000)						
2R012507	R10	7	1.185	(0.074)	-0.590	(0.067)	0.312	(0.031)						
2R012508	R10	8A	1.031	(0.037)	-0.310	(0.026)	0.000	(0.000)						
2R012509	R10	9	0.579	(0.049)	-0.688	(0.167)	0.276	(0.048)						
2R012510	R10	10	0.970	(0.062)	-0.502	(0.078)	0.270	(0.032)						
2R012511	R10	11A	1.002	(0.039)	-0.530	(0.031)	0.000	(0.000)						
2R012512	R10	12A	0.413	(0.016)	0.512	(0.029)	0.000	(0.000)	0.892	(0.069)	0.242	(0.067)	-1.133	(0.083)

Table E-3
IRT Parameters for the 1998 Reading Items
Reading for Literary Experience Scale, Grade 8

NAEP ID	Block	Item	a_j (s.e.)		b_j (s.e.)		c_j (s.e.)		d_{j1} (s.e.)		d_{j2} (s.e.)		d_{j3} (s.e.)	
1R017101	R3	1A	1.169	(0.052)	-0.299	(0.032)	0.000	(0.000)						
1R017102	R3	2A	0.566	(0.032)	1.150	(0.052)	0.000	(0.000)	0.182	(0.058)	-0.182	(0.081)		
1R017103	R3	3	0.664	(0.080)	0.423	(0.116)	0.218	(0.038)						
1R017104	R3	4A	1.240	(0.055)	0.784	(0.021)	0.000	(0.000)	0.269	(0.030)	-0.269	(0.037)		
1R017105	R3	5A	0.892	(0.035)	0.922	(0.023)	0.000	(0.000)	0.716	(0.042)	0.392	(0.044)	-1.108	(0.077)
1R017106	R3	6	0.858	(0.182)	1.754	(0.161)	0.247	(0.022)						
1R017107	R3	7A	0.556	(0.030)	0.724	(0.041)	0.000	(0.000)	0.437	(0.059)	-0.437	(0.072)		
1R017108	R3	8A	1.491	(0.092)	1.106	(0.036)	0.000	(0.000)						
1R017109	R3	9	0.759	(0.067)	-0.801	(0.146)	0.243	(0.052)						
1R017110	R3	10A	1.221	(0.063)	0.063	(0.031)	0.000	(0.000)						
1R015901	R4	1A	0.517	(0.023)	-0.176	(0.040)	0.000	(0.000)						
1R015902	R4	2A	0.650	(0.020)	0.241	(0.024)	0.000	(0.000)	0.977	(0.037)	-0.977	(0.039)		
1R015903	R4	3	0.849	(0.064)	0.241	(0.069)	0.241	(0.025)						
1R015904	R4	4A	0.595	(0.020)	1.682	(0.036)	0.000	(0.000)	1.293	(0.036)	-1.293	(0.084)		
1R015905	R4	5A	0.548	(0.020)	0.422	(0.027)	0.000	(0.000)	0.606	(0.043)	-0.606	(0.047)		
1R015906	R4	6A	0.506	(0.015)	2.189	(0.032)	0.000	(0.000)	2.803	(0.045)	0.245	(0.058)	-3.048	(0.326)
1R015907	R4	7A	0.488	(0.013)	0.378	(0.038)	0.000	(0.000)	1.836	(0.055)	-1.836	(0.063)		
1R015908	R4	8A	0.673	(0.027)	0.986	(0.032)	0.000	(0.000)	0.881	(0.040)	-0.881	(0.058)		
1R012601	R5	1A	0.751	(0.028)	0.061	(0.028)	0.000	(0.000)						
1R012602	R5	2	1.029	(0.063)	0.398	(0.042)	0.158	(0.018)						
1R012603	R5	3	1.147	(0.065)	-0.928	(0.073)	0.258	(0.035)						
1R012604	R5	4A	0.818	(0.029)	0.053	(0.027)	0.000	(0.000)						
1R012605	R5	5	0.671	(0.049)	-0.210	(0.108)	0.217	(0.036)						
1R012606	R5	6	1.490	(0.082)	-0.703	(0.051)	0.259	(0.027)						
1R012607	R5	7A	0.635	(0.027)	0.502	(0.027)	0.000	(0.000)	1.141	(0.059)	-0.066	(0.055)	-1.075	(0.075)
1R012608	R5	8	0.616	(0.041)	-1.548	(0.173)	0.257	(0.058)						
1R012609	R5	9	1.331	(0.076)	-0.173	(0.047)	0.254	(0.022)						
1R012610	R5	10	1.365	(0.090)	-0.438	(0.064)	0.396	(0.027)						
1R012611	R5	11A	0.635	(0.038)	-0.768	(0.064)	0.000	(0.000)						

Table E-4
IRT Parameters for the 1998 Reading Items
Reading to Gain Information Scale, Grade 8

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)	d_{j3} (s.e.)
2R013201	R6	1A	0.709 (0.022)	0.743 (0.019)	0.000 (0.000)	0.969 (0.035)	-0.020 (0.037)	-0.948 (0.056)
2R013202	R6	2	0.733 (0.056)	-0.234 (0.101)	0.266 (0.034)			
2R013203	R6	3A	1.173 (0.050)	-1.793 (0.048)	0.000 (0.000)			
2R013204	R6	4	1.036 (0.070)	-0.176 (0.067)	0.316 (0.027)			
2R013205	R6	5A	1.078 (0.040)	-1.210 (0.038)	0.000 (0.000)			
2R013206	R6	6	0.772 (0.051)	0.065 (0.067)	0.160 (0.025)			
2R013207	R6	7A	0.720 (0.028)	-0.574 (0.037)	0.000 (0.000)			
2R013208	R6	8	1.531 (0.086)	-0.116 (0.038)	0.239 (0.020)			
2R013209	R6	9A	0.788 (0.038)	1.223 (0.047)	0.000 (0.000)			
2R013210	R6	10	1.530 (0.146)	1.694 (0.073)	0.283 (0.009)			
2R013211	R6	11A	0.580 (0.030)	0.797 (0.045)	0.000 (0.000)			
2R013212	R6	12A	0.593 (0.025)	1.756 (0.044)	0.000 (0.000)	1.903 (0.054)	-0.604 (0.090)	-1.299 (0.254)
2R012701	R7	1	1.052 (0.062)	-1.389 (0.092)	0.281 (0.041)			
2R012702	R7	2A	0.662 (0.030)	-1.996 (0.078)	0.000 (0.000)			
2R012707	R7	3	1.984 (0.127)	-0.676 (0.045)	0.373 (0.024)			
2R012704	R7	4	1.119 (0.063)	-0.424 (0.056)	0.219 (0.025)			
2R012705	R7	5A	0.966 (0.034)	0.040 (0.023)	0.000 (0.000)			
2R012706	R7	6A	0.510 (0.026)	0.500 (0.043)	0.000 (0.000)			
2R012711	R7	7	1.309 (0.109)	0.019 (0.061)	0.252 (0.029)			
2R012703	R7	8A	0.942 (0.033)	-0.205 (0.025)	0.000 (0.000)			
2R012709	R7	9	0.899 (0.071)	-0.415 (0.103)	0.400 (0.034)			
2R012708	R7	10A	0.584 (0.016)	0.668 (0.023)	0.000 (0.000)	1.594 (0.047)	0.275 (0.040)	-1.869 (0.077)
2R012710	R7	11A	0.833 (0.032)	-0.580 (0.033)	0.000 (0.000)			
2R012712	R7	12	0.995 (0.087)	0.340 (0.067)	0.367 (0.024)			
2R012713	R7	13A	1.251 (0.047)	-0.591 (0.028)	0.000 (0.000)			
2R017201	R8	1	0.808 (0.075)	-0.740 (0.143)	0.301 (0.049)			
2R017202	R8	2A	0.583 (0.029)	-0.389 (0.038)	0.000 (0.000)	0.555 (0.068)	-0.555 (0.054)	
2R017203	R8	3	0.888 (0.077)	-0.300 (0.099)	0.237 (0.038)			
2R017204	R8	4A	0.760 (0.030)	0.721 (0.033)	0.000 (0.000)	1.086 (0.043)	-1.086 (0.060)	
2R017205	R8	5A	0.632 (0.023)	0.598 (0.032)	0.000 (0.000)	1.902 (0.064)	-0.216 (0.052)	-1.686 (0.100)
2R017206	R8	6	0.808 (0.103)	0.637 (0.094)	0.271 (0.033)			
2R017207	R8	7A	0.360 (0.025)	1.523 (0.088)	0.000 (0.000)	0.859 (0.084)	-0.859 (0.130)	
2R017208	R8	8A	0.767 (0.028)	1.045 (0.036)	0.000 (0.000)	1.419 (0.043)	-1.419 (0.082)	

Table E-4 (continued)
IRT Parameters for the 1998 Reading Items
Reading to Gain Information Scale, Grade 8

NAEP ID	Block	Item	a _j (s.e.)	b _j (s.e.)	c _j (s.e.)	d _{j1} (s.e.)	d _{j2} (s.e.)	d _{j3} (s.e.)
2R017209	R8	9	1.635 (0.155)	0.445 (0.048)	0.314 (0.023)			
2R017210	R8	10A	0.586 (0.055)	1.799 (0.137)	0.000 (0.000)			
2R016201	R13	1A	0.491 (0.025)	-3.618 (0.144)	0.000 (0.000)	-0.077 (0.207)	0.077 (0.085)	
2R016202	R13	2A	0.677 (0.016)	-0.757 (0.035)	0.000 (0.000)	2.431 (0.074)	-2.431 (0.039)	
2R016203	R13	3	0.461 (0.041)	-0.765 (0.209)	0.270 (0.051)			
2R016204	R13	4A	0.556 (0.012)	-0.418 (0.034)	0.000 (0.000)	2.900 (0.110)	0.813 (0.043)	-3.713 (0.080)
2R016205	R13	5A	0.641 (0.016)	0.690 (0.028)	0.000 (0.000)	1.571 (0.037)	-1.571 (0.053)	
2R016206	R13	6	0.986 (0.062)	-0.879 (0.091)	0.318 (0.036)			
2R016207	R13	7A	0.570 (0.020)	0.276 (0.024)	0.000 (0.000)	0.184 (0.042)	-0.184 (0.044)	
2R016208	R13	8	0.824 (0.053)	-1.046 (0.110)	0.291 (0.041)			
2R016209	R13	9	1.119 (0.062)	-0.750 (0.066)	0.246 (0.030)			
2R016210	R13	10A	0.606 (0.023)	0.881 (0.034)	0.000 (0.000)	1.952 (0.062)	-0.058 (0.056)	-1.894 (0.128)
2R016211	R13	11A	0.500 (0.016)	-2.064 (0.039)	0.000 (0.000)	2.272 (0.128)	-2.272 (0.040)	
2R016212	R13	12A	0.395 (0.017)	-0.001 (0.033)	0.000 (0.000)	0.200 (0.062)	-0.200 (0.060)	
2R016213	R13	13A	0.396 (0.018)	-2.137 (0.074)	0.000 (0.000)	1.131 (0.118)	-1.131 (0.055)	

Table E-5
IRT Parameters for the 1998 Reading Items
Reading to Perform a Task Scale, Grade 8

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)	d_{j3} (s.e.)
3R016101	R9	1A	0.534 (0.018)	-0.111 (0.025)	0.000 (0.000)	0.069 (0.049)	-0.069 (0.045)	
3R016102	R9	2	1.015 (0.068)	-0.624 (0.084)	0.348 (0.033)			
3R016103	R9	3	1.525 (0.102)	0.418 (0.036)	0.308 (0.016)			
3R016104	R9	4A	0.739 (0.032)	-1.823 (0.065)	0.000 (0.000)			
3R016105	R9	5	1.437 (0.078)	-0.572 (0.046)	0.253 (0.024)			
3R016106	R9	6	1.020 (0.082)	0.996 (0.044)	0.180 (0.015)			
3R016107	R9	7A	0.700 (0.019)	-0.150 (0.020)	0.000 (0.000)	-0.162 (0.041)	0.162 (0.037)	
3R016108	R9	8A	0.396 (0.012)	0.069 (0.030)	0.000 (0.000)	-1.046 (0.071)	1.046 (0.070)	
3R016109	R9	9A	0.441 (0.012)	0.780 (0.038)	0.000 (0.000)	1.793 (0.052)	-1.793 (0.071)	
3R013401	R10	1	1.096 (0.064)	0.248 (0.042)	0.175 (0.019)			
3R013402	R10	2A	0.829 (0.031)	0.114 (0.026)	0.000 (0.000)			
3R013403	R10	3A	0.455 (0.011)	0.503 (0.026)	0.000 (0.000)	-2.178 (0.084)	2.178 (0.087)	
3R013404	R10	4	1.090 (0.075)	-0.043 (0.063)	0.337 (0.025)			
3R013405	R10	5A	0.971 (0.034)	-0.280 (0.025)	0.000 (0.000)			
3R013406	R10	6A	0.637 (0.028)	0.576 (0.037)	0.000 (0.000)			
3R013407	R10	7A	0.648 (0.027)	-0.626 (0.040)	0.000 (0.000)			
3R013408	R10	8	0.605 (0.048)	-0.004 (0.107)	0.203 (0.034)			
3R013409	R10	9A	0.714 (0.029)	-0.355 (0.034)	0.000 (0.000)			
3R013410	R10	10	0.875 (0.066)	-0.357 (0.096)	0.328 (0.035)			
3R013411	R10	11A	0.510 (0.026)	-1.023 (0.064)	0.000 (0.000)			
3R013412	R10	12A	0.405 (0.027)	-1.923 (0.128)	0.000 (0.000)			
3R013001	R11	1A	0.960 (0.036)	-1.069 (0.037)	0.000 (0.000)			
3R013002	R11	2	1.564 (0.079)	-0.351 (0.036)	0.198 (0.020)			
3R013003	R11	3A	0.975 (0.034)	-0.498 (0.027)	0.000 (0.000)			
3R013004	R11	4A	0.452 (0.025)	0.598 (0.045)	0.000 (0.000)	0.235 (0.072)	-0.235 (0.082)	
3R013005	R11	5A	0.825 (0.032)	-1.033 (0.041)	0.000 (0.000)			
3R013006	R11	6	0.886 (0.054)	-0.351 (0.073)	0.206 (0.030)			
3R013007	R11	7A	0.691 (0.030)	-1.292 (0.055)	0.000 (0.000)			
3R013008	R11	8A	0.730 (0.030)	-0.085 (0.031)	0.000 (0.000)			
3R013009	R11	9A	1.010 (0.041)	-1.258 (0.043)	0.000 (0.000)			
3R013010	R11	10A	0.846 (0.035)	-1.035 (0.043)	0.000 (0.000)			
3R013011	R11	11A	0.477 (0.025)	-0.316 (0.049)	0.000 (0.000)			
3R013012	R11	12	1.134 (0.075)	0.021 (0.055)	0.249 (0.025)			

Table E-6
IRT Parameters for the 1998 Reading Items
Reading for Literary Experience Scale, Grade 12

NAEP ID	Block	Item	a _j (s.e.)	b _j (s.e.)	c _j (s.e.)	d _{j1} (s.e.)	d _{j2} (s.e.)	d _{j3} (s.e.)
1R017101	R3	1A	1.210 (0.061)	-0.945 (0.043)	0.000 (0.000)			
1R017102	R3	2A	0.610 (0.028)	0.309 (0.032)	0.000 (0.000)	0.012 (0.059)	-0.012 (0.061)	
1R017103	R3	3	0.618 (0.061)	-0.449 (0.151)	0.220 (0.045)			
1R017104	R3	4A	1.011 (0.042)	0.021 (0.022)	0.000 (0.000)	0.205 (0.040)	-0.205 (0.036)	
1R017105	R3	5A	0.649 (0.025)	0.406 (0.027)	0.000 (0.000)	0.752 (0.065)	0.641 (0.057)	-1.394 (0.072)
1R017106	R3	6	0.549 (0.079)	0.824 (0.139)	0.228 (0.038)			
1R017107	R3	7A	0.457 (0.025)	0.382 (0.046)	0.000 (0.000)	0.828 (0.073)	-0.828 (0.080)	
1R017108	R3	8A	1.229 (0.063)	0.486 (0.029)	0.000 (0.000)			
1R017109	R3	9	0.594 (0.049)	-1.237 (0.157)	0.177 (0.045)			
1R017110	R3	10A	0.910 (0.050)	-0.473 (0.046)	0.000 (0.000)			
1R013501	R4	1A	0.985 (0.035)	-0.294 (0.026)	0.000 (0.000)			
1R013502	R4	2	1.463 (0.084)	-0.617 (0.050)	0.254 (0.026)			
1R013503	R4	3A	0.420 (0.024)	0.308 (0.050)	0.000 (0.000)			
1R013504	R4	4	0.646 (0.045)	-0.353 (0.104)	0.177 (0.035)			
1R013505	R4	5A	0.624 (0.027)	-1.020 (0.052)	0.000 (0.000)			
1R013506	R4	6A	0.413 (0.014)	1.632 (0.055)	0.000 (0.000)	-2.273 (0.107)	2.273 (0.122)	
1R013507	R4	7	1.011 (0.067)	0.234 (0.050)	0.183 (0.021)			
1R013508	R4	8A	0.319 (0.027)	1.410 (0.126)	0.000 (0.000)			
1R013509	R4	9A	0.709 (0.037)	0.623 (0.041)	0.000 (0.000)			
1R016301	R5	1A	0.452 (0.022)	0.394 (0.048)	0.000 (0.000)	1.214 (0.074)	-1.214 (0.082)	
1R016302	R5	2	0.395 (0.021)	0.108 (0.052)	0.000 (0.000)	1.153 (0.087)	-1.153 (0.087)	
1R016303	R5	3A	0.619 (0.022)	0.691 (0.027)	0.000 (0.000)	0.787 (0.037)	-0.787 (0.048)	
1R016304	R5	4	1.500 (0.098)	0.017 (0.044)	0.341 (0.021)			
1R016305	R5	5A	0.441 (0.024)	-0.351 (0.050)	0.000 (0.000)	0.953 (0.089)	-0.953 (0.074)	
1R016306	R5	6	0.540 (0.021)	0.484 (0.028)	0.000 (0.000)	0.211 (0.047)	-0.211 (0.052)	
1R016307	R5	7A	0.634 (0.026)	0.816 (0.030)	0.000 (0.000)	0.515 (0.041)	-0.515 (0.052)	
1R016308	R5	8A	0.469 (0.021)	1.586 (0.052)	0.000 (0.000)	0.312 (0.056)	-0.324 (0.092)	0.012 (0.129)

Table E-7
IRT Parameters for the 1998 Reading Items
Reading to Gain Information Scale, Grade 12

NAEP ID	Block	Item	a _j (s.e.)	b _j (s.e.)	c _j (s.e.)	d _{j1} (s.e.)	d _{j2} (s.e.)	d _{j3} (s.e.)
2R013201	R6	1A	0.567 (0.018)	0.020 (0.021)	0.000 (0.000)	1.096 (0.053)	-0.106 (0.044)	-0.991 (0.049)
2R013202	R6	2	0.654 (0.044)	-1.243 (0.140)	0.227 (0.046)			
2R013203	R6	3A	1.095 (0.053)	-2.293 (0.068)	0.000 (0.000)			
2R013204	R6	4	0.745 (0.049)	-1.573 (0.140)	0.250 (0.049)			
2R013205	R6	5A	1.102 (0.050)	-1.999 (0.059)	0.000 (0.000)			
2R013206	R6	6	0.752 (0.048)	-0.625 (0.096)	0.206 (0.036)			
2R013207	R6	7A	0.733 (0.045)	-1.455 (0.085)	0.000 (0.000)			
2R013208	R6	8	1.384 (0.087)	-1.127 (0.069)	0.302 (0.034)			
2R013209	R6	9A	0.524 (0.027)	0.756 (0.048)	0.000 (0.000)			
2R013210	R6	10	0.823 (0.092)	1.227 (0.066)	0.224 (0.020)			
2R013211	R6	11A	0.292 (0.030)	0.266 (0.098)	0.000 (0.000)			
2R013212	R6	12A	0.444 (0.013)	1.602 (0.037)	0.000 (0.000)	2.196 (0.052)	-0.694 (0.072)	-1.502 (0.163)
2R013701	R7	1A	0.418 (0.024)	0.298 (0.049)	0.000 (0.000)			
2R013702	R7	2A	0.558 (0.026)	0.125 (0.037)	0.000 (0.000)			
2R013703	R7	3	0.780 (0.051)	-2.151 (0.151)	0.239 (0.054)			
2R013704	R7	4A	0.577 (0.056)	2.371 (0.189)	0.000 (0.000)			
2R013705	R7	5	1.156 (0.070)	-1.140 (0.078)	0.281 (0.036)			
2R013706	R7	6A	0.611 (0.027)	-0.209 (0.036)	0.000 (0.000)			
2R013707	R7	7	0.678 (0.042)	-0.149 (0.075)	0.135 (0.027)			
2R013708	R7	8	0.202 (0.021)	1.130 (0.145)	0.000 (0.000)			
2R013709	R7	9	0.486 (0.062)	0.833 (0.140)	0.248 (0.037)			
2R013710	R7	10A	0.724 (0.038)	1.333 (0.057)	0.000 (0.000)			
2R013711	R7	11	0.376 (0.054)	1.134 (0.186)	0.223 (0.041)			
2R013712	R7	12A	0.558 (0.029)	-0.066 (0.042)	0.000 (0.000)			
2R016401	R8	1A	0.633 (0.030)	-0.667 (0.040)	0.000 (0.000)	0.963 (0.074)	-0.963 (0.049)	
2R016402	R8	2A	0.324 (0.017)	-1.164 (0.075)	0.000 (0.000)	1.627 (0.138)	-1.627 (0.092)	
2R016403	R8	3A	0.643 (0.020)	-0.149 (0.025)	0.000 (0.000)	0.989 (0.043)	-0.989 (0.037)	
2R016404	R8	4A	0.449 (0.011)	0.115 (0.041)	0.000 (0.000)	2.211 (0.062)	-2.211 (0.063)	
2R016405	R8	5A	0.422 (0.015)	-0.565 (0.045)	0.000 (0.000)	-2.853 (0.161)	2.853 (0.154)	
2R016406	R8	6	0.467 (0.045)	-0.889 (0.238)	0.288 (0.057)			
2R016407	R8	7A	0.547 (0.021)	-0.074 (0.028)	0.000 (0.000)	0.670 (0.050)	-0.670 (0.046)	
2R016408	R8	8A	0.437 (0.015)	1.190 (0.032)	0.000 (0.000)	0.334 (0.063)	1.048 (0.069)	-1.382 (0.104)
2R015501	R13	1	0.808 (0.056)	-0.765 (0.107)	0.306 (0.038)			

Table E-7 (continued)
IRT Parameters for the 1998 Reading Items
Reading to Gain Information Scale, Grade 12

NAEP ID	Block	Item	a _j (s.e.)	b _j (s.e.)	c _j (s.e.)	d _{j1} (s.e.)	d _{j2} (s.e.)	d _{j3} (s.e.)
2R015502	R13	2	0.798 (0.059)	0.147 (0.074)	0.224 (0.028)			
2R015503	R13	3A	0.517 (0.030)	-2.991 (0.149)	0.000 (0.000)			
2R015504	R13	4	0.650 (0.048)	-0.174 (0.101)	0.206 (0.033)			
2R015505	R13	5A	0.562 (0.025)	-0.099 (0.037)	0.000 (0.000)			
2R015506	R13	6	0.800 (0.061)	0.067 (0.081)	0.263 (0.029)			
2R015507	R13	7A	0.786 (0.021)	0.304 (0.018)	0.000 (0.000)	1.376 (0.039)	0.002 (0.031)	-1.378 (0.046)
2R015508	R13	8	0.953 (0.052)	-0.711 (0.068)	0.183 (0.029)			
2R015509	R13	9A	1.064 (0.038)	0.394 (0.022)	0.000 (0.000)			
2R015510	R13	10	1.770 (0.107)	0.108 (0.034)	0.308 (0.018)			
2R015511	R13	11	0.768 (0.051)	-0.742 (0.103)	0.243 (0.037)			
2R015512	R13	12A	0.842 (0.032)	-0.551 (0.032)	0.000 (0.000)			
2R015513	R13	13	0.895 (0.051)	-0.898 (0.080)	0.197 (0.033)			
2R015514	R13	14A	0.501 (0.022)	0.358 (0.034)	0.000 (0.000)	1.353 (0.081)	0.141 (0.069)	-1.494 (0.093)
2R015515	R13	15	0.809 (0.060)	0.922 (0.049)	0.112 (0.016)			
2R015516	R13	16	0.674 (0.060)	-0.068 (0.121)	0.315 (0.037)			
2R016501	R14	1A	1.001 (0.022)	0.325 (0.023)	0.000 (0.000)	1.564 (0.031)	-1.564 (0.037)	
2R016502	R14	2A	1.009 (0.025)	0.842 (0.021)	0.000 (0.000)	1.242 (0.024)	-1.242 (0.044)	
2R016601	R14	3A	0.578 (0.016)	0.269 (0.029)	0.000 (0.000)	1.343 (0.043)	-1.343 (0.047)	
2R016602	R14	4A	0.379 (0.023)	0.631 (0.055)	0.000 (0.000)	0.790 (0.083)	-0.790 (0.097)	
2R016604	R14	6A	0.567 (0.016)	-0.608 (0.031)	0.000 (0.000)	1.513 (0.058)	-1.513 (0.040)	
2R016605	R14	7A	0.230 (0.009)	1.718 (0.085)	0.000 (0.000)	-2.207 (0.123)	2.207 (0.146)	
2R016701	R14	8A	0.773 (0.017)	0.572 (0.023)	0.000 (0.000)	2.301 (0.044)	-0.763 (0.035)	-1.538 (0.073)

Table E-8
IRT Parameters for the 1998 Reading Items
Reading to Perform a Task Scale, Grade 12

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)
3R016101	R9	1A	0.548 (0.018)	-0.583 (0.030)	0.000 (0.000)	0.073 (0.053)	-0.073 (0.043)
3R016102	R9	2	1.008 (0.063)	-1.628 (0.103)	0.260 (0.043)		
3R016103	R9	3	1.135 (0.073)	-0.417 (0.069)	0.355 (0.029)		
3R016104	R9	4A	0.767 (0.035)	-2.040 (0.076)	0.000 (0.000)		
3R016105	R9	5	1.027 (0.066)	-1.651 (0.106)	0.277 (0.044)		
3R016106	R9	6	0.899 (0.054)	-0.324 (0.069)	0.208 (0.029)		
3R016107	R9	7A	0.619 (0.018)	-0.949 (0.032)	0.000 (0.000)	-0.310 (0.058)	0.310 (0.044)
3R016108	R9	8A	0.369 (0.013)	-0.608 (0.040)	0.000 (0.000)	-0.628 (0.078)	0.628 (0.067)
3R016109	R9	9A	0.406 (0.011)	0.214 (0.041)	0.000 (0.000)	1.953 (0.062)	-1.953 (0.065)
3R013401	R10	1	0.906 (0.055)	-0.152 (0.064)	0.202 (0.026)		
3R013402	R10	2A	0.717 (0.029)	-0.495 (0.035)	0.000 (0.000)		
3R013403	R10	3A	0.464 (0.011)	-0.146 (0.026)	0.000 (0.000)	-2.073 (0.083)	2.073 (0.081)
3R013404	R10	4	0.775 (0.056)	-0.909 (0.127)	0.343 (0.042)		
3R013405	R10	5A	0.953 (0.036)	-0.960 (0.036)	0.000 (0.000)		
3R013406	R10	6A	0.694 (0.029)	0.361 (0.031)	0.000 (0.000)		
3R013407	R10	7A	0.636 (0.028)	-1.120 (0.053)	0.000 (0.000)		
3R013408	R10	8	0.646 (0.045)	-0.355 (0.104)	0.196 (0.035)		
3R013409	R10	9A	0.688 (0.030)	-1.218 (0.054)	0.000 (0.000)		
3R013410	R10	10	0.696 (0.055)	-1.410 (0.178)	0.348 (0.054)		
3R013411	R10	11A	0.560 (0.028)	-1.619 (0.081)	0.000 (0.000)		
3R013412	R10	12A	0.324 (0.025)	-2.605 (0.200)	0.000 (0.000)		
3R013901	R11	1	1.181 (0.088)	0.220 (0.054)	0.355 (0.021)		
3R013902	R11	2A	0.776 (0.030)	-0.977 (0.041)	0.000 (0.000)		
3R013903	R11	3A	0.964 (0.035)	0.381 (0.024)	0.000 (0.000)		
3R013904	R11	4A	0.742 (0.031)	-1.476 (0.055)	0.000 (0.000)		
3R013905	R11	5	1.262 (0.156)	1.890 (0.102)	0.241 (0.010)		
3R013906	R11	6A	0.549 (0.027)	0.727 (0.045)	0.000 (0.000)		
3R013907	R11	7	0.909 (0.061)	0.206 (0.057)	0.210 (0.023)		
3R013908	R11	8A	0.485 (0.025)	0.638 (0.049)	0.000 (0.000)		
3R013909	R11	9	0.783 (0.058)	0.020 (0.080)	0.242 (0.029)		
3R013910	R11	10A	0.968 (0.035)	0.340 (0.024)	0.000 (0.000)		
3R013911	R11	11	0.673 (0.051)	-1.236 (0.165)	0.334 (0.050)		
3R013912	R11	12	0.567 (0.075)	0.967 (0.114)	0.294 (0.031)		
3R013913	R11	13A	0.511 (0.035)	-0.248 (0.061)	0.000 (0.000)		

Table E-8 (continued)
IRT Parameters for the 1998 Reading Items
Reading to Perform a Task Scale, Grade 12

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)
3R013914	R11	14	0.513 (0.074)	0.396 (0.199)	0.428 (0.042)		
3R013915	R11	15A	0.349 (0.018)	2.073 (0.108)	0.000 (0.000)	-3.845 (0.249)	3.845 (0.273)

Table E-9
IRT Parameters for the 1998 Writing Items, Grade 4

NAEP ID	Block	Item	a_j (s.e.)		b_j (s.e.)		d_{j1} (s.e.)		d_{j2} (s.e.)		d_{j3} (s.e.)		d_{j4} (s.e.)		d_{j5} (s.e.)	
1W004002	W3	1	1.004	(0.034)	-0.244	(0.022)	2.429	(0.144)	1.391	(0.059)	-0.087	(0.038)	-1.741	(0.055)	-1.990	(0.085)
1W004102	W4	1	0.974	(0.032)	0.173	(0.021)	2.524	(0.095)	1.283	(0.045)	-0.354	(0.040)	-1.165	(0.056)	-2.287	(0.112)
1W004202	W5	1	1.215	(0.043)	0.049	(0.018)	1.904	(0.071)	1.235	(0.043)	-0.118	(0.034)	-1.039	(0.043)	-1.982	(0.075)
1W004302	W6	1	1.279	(0.044)	-0.051	(0.018)	2.320	(0.095)	1.163	(0.043)	0.086	(0.032)	-1.253	(0.040)	-2.317	(0.082)
1W004402	W7	1	1.228	(0.041)	-0.307	(0.018)	1.971	(0.103)	1.276	(0.055)	0.277	(0.034)	-1.162	(0.035)	-2.362	(0.067)
1W004502	W8	1	1.342	(0.045)	-0.222	(0.018)	1.948	(0.088)	1.202	(0.049)	0.388	(0.032)	-1.263	(0.035)	-2.276	(0.067)
1W004602	W9	1	1.336	(0.045)	-0.503	(0.017)	2.035	(0.118)	1.153	(0.055)	0.269	(0.034)	-1.183	(0.032)	-2.273	(0.054)
1W004702	W10	1	0.908	(0.031)	-0.186	(0.021)	1.749	(0.111)	1.416	(0.071)	0.406	(0.044)	-1.155	(0.046)	-2.416	(0.087)
1W004802	W11	1	0.720	(0.025)	0.192	(0.024)	1.817	(0.101)	1.668	(0.069)	-0.035	(0.052)	-1.210	(0.070)	-2.240	(0.127)
1W004902	W12	1	0.788	(0.024)	0.280	(0.025)	2.065	(0.109)	2.172	(0.069)	-0.071	(0.044)	-1.614	(0.073)	-2.552	(0.167)
1W005002	W13	1	0.969	(0.032)	0.389	(0.021)	2.457	(0.085)	1.605	(0.047)	-0.063	(0.038)	-1.392	(0.062)	-2.607	(0.158)
1W005102	W14	1	1.334	(0.042)	-0.090	(0.018)	2.420	(0.104)	1.480	(0.046)	0.204	(0.029)	-1.560	(0.040)	-2.544	(0.093)
1W005202	W15	1	0.903	(0.030)	0.309	(0.022)	2.317	(0.091)	1.536	(0.053)	0.150	(0.040)	-1.571	(0.066)	-2.433	(0.150)
1W005302	W16	1	1.678	(0.055)	-0.113	(0.016)	2.115	(0.086)	1.602	(0.045)	-0.006	(0.024)	-1.503	(0.036)	-2.208	(0.067)
1W005402	W17	1	1.085	(0.034)	0.057	(0.020)	2.521	(0.105)	1.595	(0.050)	0.058	(0.033)	-1.615	(0.051)	-2.559	(0.114)
1W005502	W18	1	0.850	(0.028)	-0.208	(0.024)	2.374	(0.145)	1.460	(0.072)	0.413	(0.045)	-1.537	(0.054)	-2.709	(0.116)
1W005602	W19	1	0.831	(0.028)	0.176	(0.022)	2.051	(0.086)	1.313	(0.057)	0.365	(0.045)	-1.396	(0.060)	-2.333	(0.127)
1W005702	W20	1	1.098	(0.037)	0.103	(0.020)	1.893	(0.080)	1.426	(0.052)	0.305	(0.036)	-1.529	(0.052)	-2.095	(0.098)
1W005802	W21	1	0.948	(0.031)	0.109	(0.024)	2.189	(0.111)	1.747	(0.064)	0.386	(0.039)	-1.860	(0.063)	-2.462	(0.137)
1W005902	W22	1	0.795	(0.026)	0.281	(0.025)	1.886	(0.110)	2.059	(0.075)	0.477	(0.045)	-1.647	(0.070)	-2.775	(0.186)

Table E-10
IRT Parameters for the 1998 Writing Items, Grade 8

NAEP ID	Block	Item	a_j (s.e.)		b_j (s.e.)		d_{j1} (s.e.)		d_{j2} (s.e.)		d_{j3} (s.e.)		d_{j4} (s.e.)		d_{j5} (s.e.)	
1W006002	W3	1	0.859	(0.029)	-0.298	(0.021)	2.718	(0.145)	0.996	(0.056)	-0.134	(0.043)	-1.374	(0.051)	-2.206	(0.080)
1W006102	W4	1	1.062	(0.035)	-0.257	(0.019)	2.634	(0.127)	1.089	(0.048)	-0.064	(0.035)	-1.508	(0.045)	-2.151	(0.075)
1W006202	W5	1	0.941	(0.030)	-0.025	(0.020)	2.669	(0.111)	1.070	(0.046)	-0.132	(0.038)	-1.420	(0.051)	-2.187	(0.092)
1W006302	W6	1	1.031	(0.034)	-0.123	(0.018)	1.351	(0.080)	1.434	(0.062)	0.475	(0.039)	-0.898	(0.039)	-2.362	(0.078)
1W006402	W7	1	0.750	(0.025)	-0.343	(0.022)	1.894	(0.114)	1.088	(0.073)	0.401	(0.052)	-1.239	(0.053)	-2.144	(0.083)
1W006502	W8	1	1.065	(0.034)	-0.322	(0.020)	2.283	(0.126)	1.360	(0.061)	0.431	(0.038)	-1.228	(0.038)	-2.846	(0.094)
1W006602	W9	1	1.120	(0.035)	-0.359	(0.018)	2.379	(0.115)	0.940	(0.050)	0.297	(0.036)	-1.461	(0.040)	-2.155	(0.067)
1W006802	W11	1	0.898	(0.029)	-0.237	(0.022)	2.557	(0.144)	1.489	(0.062)	0.099	(0.039)	-1.596	(0.050)	-2.549	(0.099)
1W006902	W12	1	1.048	(0.032)	-0.070	(0.021)	2.440	(0.112)	1.507	(0.054)	0.393	(0.034)	-1.790	(0.051)	-2.551	(0.115)
1W007002	W13	1	0.940	(0.028)	-0.263	(0.022)	2.312	(0.126)	1.475	(0.063)	0.318	(0.038)	-1.838	(0.052)	-2.267	(0.095)
1W007102	W14	1	1.261	(0.039)	-0.122	(0.018)	1.956	(0.086)	1.497	(0.052)	0.417	(0.031)	-1.320	(0.036)	-2.550	(0.087)
1W007202	W15	1	0.730	(0.023)	0.184	(0.025)	2.553	(0.119)	1.682	(0.062)	-0.057	(0.046)	-1.709	(0.073)	-2.469	(0.153)
1W007302	W16	1	0.869	(0.027)	0.048	(0.022)	1.988	(0.099)	1.548	(0.062)	0.402	(0.041)	-1.944	(0.066)	-1.994	(0.117)
1W007402	W17	1	0.994	(0.031)	-0.147	(0.019)	1.920	(0.094)	1.390	(0.057)	0.314	(0.036)	-1.346	(0.043)	-2.279	(0.080)
1W007602	W19	1	1.480	(0.047)	0.009	(0.015)	1.953	(0.060)	1.329	(0.037)	0.041	(0.026)	-1.144	(0.034)	-2.179	(0.067)
1W007702	W20	1	1.309	(0.042)	0.189	(0.017)	2.154	(0.070)	1.405	(0.040)	0.220	(0.029)	-1.366	(0.043)	-2.413	(0.105)
1W007802	W21	1	1.149	(0.037)	0.045	(0.017)	1.694	(0.069)	1.337	(0.047)	0.251	(0.033)	-1.112	(0.039)	-2.171	(0.077)
1W007902	W22	1	0.778	(0.024)	0.036	(0.025)	2.404	(0.131)	1.830	(0.069)	0.156	(0.043)	-2.176	(0.075)	-2.214	(0.134)
1W008002	W23	1	1.203	(0.038)	0.056	(0.018)	2.499	(0.098)	1.373	(0.043)	0.115	(0.030)	-1.479	(0.043)	-2.508	(0.101)
1W008102	W24	1	0.991	(0.032)	0.066	(0.019)	1.886	(0.081)	1.266	(0.053)	0.455	(0.038)	-1.213	(0.044)	-2.394	(0.095)

Table E-11
IRT Parameters for the 1998 Writing Items, Grade 12

NAEP ID	Block	Item	a_j (s.e.)		b_j (s.e.)		c_j (s.e.)		d_{1j} (s.e.)		d_{2j} (s.e.)		d_{3j} (s.e.)			
1W008302	W3	1	0.558	(0.017)	0.169	(0.030)	0.671	(0.165)	2.533	(0.145)	1.464	(0.072)	-1.106	(0.068)	-3.562	(0.198)
1W008402	W4	1	0.649	(0.021)	-0.236	(0.029)	1.449	(0.165)	1.785	(0.126)	1.393	(0.071)	-0.705	(0.052)	-3.922	(0.164)
1W008502	W5	1	0.711	(0.024)	-0.508	(0.028)	2.267	(0.201)	1.605	(0.106)	0.789	(0.062)	-0.554	(0.047)	-4.107	(0.154)
1W008602	W6	1	0.769	(0.025)	-0.710	(0.027)	3.195	(0.357)	1.616	(0.101)	0.505	(0.052)	-1.500	(0.046)	-3.815	(0.133)
1W008702	W7	1	1.040	(0.033)	-0.467	(0.020)	2.491	(0.162)	1.230	(0.062)	0.269	(0.038)	-1.367	(0.039)	-2.623	(0.075)
1W008902	W9	1	1.250	(0.041)	-0.730	(0.019)	2.347	(0.173)	1.193	(0.067)	0.436	(0.038)	-1.212	(0.031)	-2.764	(0.061)
1W009002	W10	1	1.102	(0.037)	-0.361	(0.019)	1.433	(0.101)	1.524	(0.070)	0.355	(0.038)	-0.964	(0.036)	-2.349	(0.066)
1W009102	W11	1	0.941	(0.029)	-0.263	(0.022)	2.019	(0.125)	1.314	(0.070)	0.586	(0.044)	-1.703	(0.051)	-2.216	(0.086)
1W009202	W12	1	0.980	(0.033)	-0.146	(0.021)	1.891	(0.099)	1.302	(0.064)	0.641	(0.044)	-0.699	(0.039)	-3.135	(0.115)
1W009302	W13	1	0.842	(0.029)	-0.661	(0.022)	1.753	(0.139)	1.041	(0.083)	0.501	(0.053)	-1.134	(0.044)	-2.161	(0.062)
1W009402	W14	1	0.841	(0.029)	0.019	(0.022)	1.844	(0.101)	1.363	(0.069)	0.720	(0.048)	-0.756	(0.046)	-3.171	(0.138)
1W009502	W15	1	0.897	(0.029)	-0.301	(0.022)	1.581	(0.109)	1.234	(0.077)	0.832	(0.050)	-0.963	(0.042)	-2.684	(0.088)
1W009702	W17	1	1.163	(0.038)	-0.121	(0.018)	1.860	(0.083)	1.318	(0.050)	0.165	(0.033)	-1.199	(0.039)	-2.144	(0.069)
1W009802	W18	1	0.830	(0.026)	-0.289	(0.022)	1.927	(0.117)	1.129	(0.072)	0.642	(0.048)	-1.537	(0.051)	-2.162	(0.085)
1W009902	W19	1	0.859	(0.027)	-0.154	(0.021)	1.898	(0.103)	1.290	(0.063)	0.326	(0.043)	-1.671	(0.058)	-1.844	(0.089)
1W010002	W20	1	0.868	(0.028)	-0.355	(0.022)	2.076	(0.122)	1.080	(0.069)	0.624	(0.048)	-1.266	(0.045)	-2.514	(0.085)
1W010102	W21	1	1.210	(0.040)	0.199	(0.017)	2.288	(0.066)	0.924	(0.036)	0.076	(0.033)	-1.224	(0.046)	-2.065	(0.088)
1W010202	W22	1	0.702	(0.023)	-0.175	(0.025)	2.055	(0.129)	1.339	(0.078)	0.445	(0.054)	-1.351	(0.059)	-2.487	(0.108)
1W010302	W23	1	0.880	(0.029)	-0.163	(0.020)	2.088	(0.101)	1.087	(0.058)	0.223	(0.043)	-1.183	(0.048)	-2.215	(0.082)
1W010402	W24	1	0.760	(0.026)	-0.474	(0.022)	1.890	(0.143)	1.272	(0.081)	0.190	(0.052)	-1.235	(0.051)	-2.118	(0.074)

Table E-12
IRT Parameters for the 1998 Civics Items, Grade 4

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{1j} (s.e.)	d_{2j} (s.e.)	d_{3j} (s.e.)
P030001	C3	1	0.884 (0.080)	-0.470 (0.104)	0.279 (0.038)			
P030002	C3	2	0.679 (0.070)	-0.439 (0.141)	0.263 (0.044)			
P030003	C3	3	1.345 (0.118)	0.361 (0.048)	0.234 (0.023)			
P030004	C3	4A	0.581 (0.028)	-0.707 (0.042)	0.000 (0.000)	0.864 (0.075)	-0.864 (0.052)	
P030005	C3	5A	0.452 (0.026)	0.207 (0.042)	0.000 (0.000)	0.499 (0.072)	-0.499 (0.075)	
P030006	C3	6	2.673 (0.231)	0.578 (0.027)	0.248 (0.016)			
P030007	C3	7A	0.531 (0.029)	1.006 (0.049)	0.000 (0.000)	0.771 (0.057)	-0.771 (0.085)	
P030008	C3	8	1.006 (0.122)	0.643 (0.072)	0.269 (0.028)			
P030009	C3	9	0.594 (0.119)	1.680 (0.184)	0.208 (0.030)			
P030010	C3	10A	0.518 (0.029)	1.539 (0.051)	0.000 (0.000)	0.874 (0.064)	0.400 (0.084)	-1.274 (0.178)
P030011	C3	11	0.743 (0.080)	-1.578 (0.219)	0.342 (0.060)			
P030012	C3	12	0.966 (0.144)	1.260 (0.087)	0.183 (0.022)			
P030013	C3	13	1.037 (0.091)	-0.118 (0.076)	0.209 (0.033)			
P030014	C3	14	1.523 (0.203)	1.710 (0.103)	0.145 (0.011)			
P030015	C3	15	0.806 (0.074)	-0.890 (0.132)	0.240 (0.045)			
P040101	C4	1	1.274 (0.090)	-0.315 (0.055)	0.151 (0.027)			
P040102	C4	2A	0.348 (0.033)	0.330 (0.084)	0.000 (0.000)			
P040103	C4	3	0.944 (0.083)	-0.086 (0.080)	0.213 (0.033)			
P040104	C4	4	1.578 (0.173)	0.939 (0.045)	0.220 (0.017)			
P040105	C4	5A	0.483 (0.029)	0.603 (0.044)	0.000 (0.000)	0.242 (0.069)	-0.242 (0.080)	
P040106	C4	6	0.874 (0.092)	0.250 (0.088)	0.244 (0.034)			
P040107	C4	7	1.242 (0.147)	0.811 (0.058)	0.257 (0.024)			
P040108	C4	8	0.826 (0.079)	-0.126 (0.099)	0.235 (0.037)			
P040109	C4	9A	0.587 (0.035)	1.700 (0.084)	0.000 (0.000)	-0.545 (0.078)	0.545 (0.115)	
P040110	C4	10	1.685 (0.214)	1.662 (0.096)	0.244 (0.012)			
P040111	C4	11A	0.490 (0.023)	0.213 (0.037)	0.000 (0.000)	-0.565 (0.081)	0.565 (0.081)	
P040112	C4	12	1.121 (0.150)	1.220 (0.070)	0.163 (0.020)			
P040113	C4	13	1.311 (0.118)	0.266 (0.056)	0.236 (0.027)			
P040114	C4	14	1.257 (0.103)	-0.207 (0.064)	0.208 (0.032)			
P040115	C4	15	1.101 (0.154)	0.945 (0.072)	0.268 (0.026)			
P040201	C5	1	1.957 (0.155)	0.690 (0.029)	0.134 (0.014)			
P040202	C5	2	0.479 (0.060)	-0.379 (0.215)	0.269 (0.052)			
P040203	C5	3A	0.614 (0.025)	1.444 (0.040)	0.000 (0.000)	-0.737 (0.080)	1.404 (0.094)	-0.667 (0.122)
P040204	C5	4	1.145 (0.087)	-0.545 (0.074)	0.223 (0.033)			

Table E-12 (continued)
IRT Parameters for the 1998 Civics Items, Grade 4

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{1j} (s.e.)	d_{2j} (s.e.)	d_{3j} (s.e.)
P040205	C5	5	1.321 (0.103)	-0.228 (0.060)	0.239 (0.030)			
P040206	C5	6A	0.474 (0.014)	-0.276 (0.067)	0.000 (0.000)	2.959 (0.1 09)	-2.959 (0.089)	
P040207	C5	7	1.391 (0.155)	0.796 (0.052)	0.276 (0.021)			
P040208	C5	8	0.666 (0.177)	2.318 (0.320)	0.225 (0.024)			
P040209	C5	9A	0.350 (0.027)	1.859 (0.132)	0.000 (0.000)	-0.254 (0.0 99)	0.254 (0.147)	
P040210	C5	10	0.659 (0.066)	-2.391 (0.260)	0.272 (0.062)			
P040211	C5	11	0.989 (0.142)	1.251 (0.082)	0.204 (0.022)			
P040212	C5	12	0.634 (0.167)	2.304 (0.316)	0.214 (0.026)			
P040213	C5	13	2.028 (0.178)	0.417 (0.036)	0.254 (0.021)			
P040214	C5	14	1.623 (0.174)	0.765 (0.046)	0.256 (0.021)			
P040215	C5	15	1.140 (0.109)	0.215 (0.068)	0.243 (0.031)			
P040301	C6	1	0.865 (0.084)	-0.152 (0.100)	0.264 (0.038)			
P040302	C6	2	0.613 (0.061)	-0.695 (0.158)	0.232 (0.046)			
P040303	C6	3	0.957 (0.137)	1.028 (0.080)	0.259 (0.026)			
P040304	C6	4A	0.643 (0.035)	0.918 (0.042)	0.000 (0.000)	0.099 (0.0 53)	-0.099 (0.070)	
P040305	C6	5	1.008 (0.111)	0.458 (0.075)	0.274 (0.030)			
P040306	C6	6	0.691 (0.077)	-0.396 (0.153)	0.317 (0.046)			
P040307	C6	7	0.782 (0.167)	1.881 (0.189)	0.166 (0.022)			
P040308	C6	8	1.017 (0.097)	0.013 (0.082)	0.276 (0.034)			
P040309	C6	9	0.725 (0.066)	-0.463 (0.117)	0.202 (0.040)			
P040310	C6	10A	0.551 (0.033)	1.441 (0.062)	0.000 (0.000)	0.796 (0.0 56)	-0.796 (0.103)	
P040311	C6	11A	0.424 (0.033)	1.736 (0.109)	0.000 (0.000)	0.355 (0.0 77)	-0.355 (0.130)	
P040312	C6	12	0.588 (0.057)	-2.295 (0.250)	0.240 (0.057)			
P040313	C6	13	1.587 (0.179)	1.499 (0.075)	0.182 (0.012)			
P040314	C6	14	1.542 (0.119)	-0.440 (0.058)	0.217 (0.032)			
P040315	C6	15	0.880 (0.078)	-0.266 (0.093)	0.208 (0.037)			
P040401	C7	1	0.672 (0.066)	-0.045 (0.108)	0.198 (0.036)			
P040402	C7	2A	0.464 (0.027)	1.161 (0.062)	0.000 (0.000)	-0.245 (0.0 74)	0.245 (0.096)	
P040403	C7	3	0.499 (0.072)	0.388 (0.176)	0.257 (0.046)			
P040404	C7	4A	0.277 (0.014)	-0.368 (0.049)	0.000 (0.000)	1.508 (0.1 47)	-1.916 (0.142)	0.408 (0.146)
P040405	C7	5	0.935 (0.075)	-0.706 (0.096)	0.204 (0.037)			
P040406	C7	6	0.612 (0.119)	1.370 (0.150)	0.273 (0.035)			
P040407	C7	7	1.342 (0.186)	1.154 (0.061)	0.258 (0.019)			
P040408	C7	8	1.189 (0.112)	0.004 (0.075)	0.325 (0.033)			
P040409	C7	9A	0.623 (0.039)	1.684 (0.066)	0.000 (0.000)	0.707 (0.0 51)	-0.707 (0.109)	

Table E-12 (continued)
IRT Parameters for the 1998 Civics Items, Grade 4

NAEP ID	Block	Item	a_j (s.e.)		b_j (s.e.)		c_j (s.e.)		d_{j1} (s.e.)		d_{j2} (s.e.)		d_{j3} (s.e.)	
P040410	C7	10	0.807	(0.085)	-0.370	(0.132)	0.322	(0.044)						
P040411	C7	11	0.898	(0.108)	0.727	(0.078)	0.240	(0.029)						
P040412	C7	12A	0.432	(0.020)	-0.539	(0.043)	0.000	(0.000)	1.401	(0.132)	0.189	(0.085)	-1.590	(0.082)
P040413	C7	13	0.752	(0.102)	0.876	(0.097)	0.220	(0.032)						
P040414	C7	14	0.998	(0.088)	-0.009	(0.076)	0.214	(0.033)						
P040415	C7	15	0.790	(0.078)	-0.563	(0.131)	0.260	(0.044)						
P040501	C8	1	1.491	(0.213)	1.193	(0.071)	0.400	(0.018)						
P040502	C8	2A	0.580	(0.026)	0.412	(0.028)	0.000	(0.000)	0.754	(0.067)	0.364	(0.062)	-1.117	(0.079)
P040503	C8	3	1.238	(0.110)	0.017	(0.065)	0.283	(0.031)						
P040504	C8	4	0.806	(0.104)	0.890	(0.088)	0.223	(0.029)						
P040505	C8	5	0.827	(0.152)	1.561	(0.130)	0.226	(0.024)						
P040507	C8	7A	0.444	(0.028)	2.758	(0.094)	0.000	(0.000)	1.702	(0.068)	-1.702	(0.241)		
P040508	C8	8	0.486	(0.115)	2.108	(0.287)	0.230	(0.035)						
P040509	C8	9	0.930	(0.094)	0.019	(0.093)	0.284	(0.036)						
P040510	C8	10A	0.316	(0.017)	-0.278	(0.057)	0.000	(0.000)	-1.080	(0.128)	1.080	(0.120)		
P040511	C8	11	0.808	(0.084)	0.164	(0.096)	0.234	(0.036)						
P040512	C8	12	0.651	(0.088)	-0.017	(0.170)	0.328	(0.049)						
P040513	C8	13	1.637	(0.168)	0.794	(0.043)	0.201	(0.019)						
P040514	C8	14	1.059	(0.134)	0.822	(0.072)	0.256	(0.028)						
P040515	C8	15	0.746	(0.074)	-0.658	(0.139)	0.253	(0.046)						

Table E-13
IRT Parameters for the 1998 Civics Items, Grade 8

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{1j} (s.e.)	d_{2j} (s.e.)	d_{3j} (s.e.)
P040701	C3	1	1.394 (0.169)	1.414 (0.073)	0.255 (0.014)			
P040702	C3	2	0.512 (0.052)	-0.110 (0.147)	0.182 (0.041)			
P040703	C3	3	0.700 (0.038)	1.424 (0.051)	0.000 (0.000)	0.634 (0.045)	-0.634 (0.087)	
P040704	C3	4	1.945 (0.179)	0.416 (0.041)	0.333 (0.020)			
P040705	C3	5	0.928 (0.050)	1.438 (0.048)	0.000 (0.000)	0.019 (0.044)	-0.019 (0.073)	
P040706	C3	6	0.956 (0.181)	1.408 (0.107)	0.316 (0.023)			
P040707	C3	7	1.720 (0.149)	1.112 (0.041)	0.187 (0.013)			
P040708	C3	8	0.736 (0.037)	1.054 (0.039)	0.000 (0.000)	0.576 (0.043)	-0.576 (0.067)	
P040709	C3	9	1.095 (0.084)	-0.619 (0.082)	0.230 (0.037)			
P040710	C3	10	0.550 (0.062)	0.419 (0.126)	0.178 (0.037)			
P040711	C3	11	0.911 (0.075)	0.085 (0.072)	0.169 (0.029)			
P040712	C3	12	0.608 (0.079)	0.370 (0.143)	0.261 (0.042)			
P040713	C3	13	1.205 (0.106)	-0.587 (0.091)	0.337 (0.040)			
P040714	C3	14	1.049 (0.101)	-0.101 (0.093)	0.334 (0.037)			
P040715	C3	15	0.702 (0.035)	0.733 (0.034)	0.000 (0.000)	0.370 (0.047)	-0.370 (0.060)	
P040716	C3	16	1.225 (0.188)	1.732 (0.117)	0.203 (0.014)			
P040717	C3	17	0.965 (0.164)	1.111 (0.089)	0.328 (0.027)			
P040718	C3	18	0.652 (0.085)	0.698 (0.115)	0.231 (0.035)			
P040719	C3	19	1.119 (0.098)	-0.506 (0.093)	0.296 (0.040)			
P040801	C4	1	1.562 (0.132)	0.149 (0.050)	0.293 (0.024)			
P040802	C4	2	1.937 (0.151)	0.269 (0.036)	0.225 (0.020)			
P040803	C4	3	0.648 (0.031)	0.401 (0.032)	0.000 (0.000)	0.525 (0.051)	-0.525 (0.056)	
P040804	C4	4	0.543 (0.053)	-1.719 (0.248)	0.285 (0.061)			
P040805	C4	5	1.385 (0.154)	1.038 (0.048)	0.193 (0.016)			
P040806	C4	6	1.511 (0.143)	1.174 (0.044)	0.105 (0.012)			
P040807	C4	7	0.448 (0.019)	0.822 (0.042)	0.000 (0.000)	1.650 (0.073)	-0.921 (0.087)	-0.729 (0.129)
P040808	C4	8	0.710 (0.233)	2.960 (0.572)	0.183 (0.017)			
P040809	C4	9	1.386 (0.171)	1.052 (0.052)	0.237 (0.018)			
P040810	C4	10	1.140 (0.100)	0.148 (0.065)	0.250 (0.028)			
P040811	C4	11	1.393 (0.152)	0.872 (0.048)	0.239 (0.019)			
P040812	C4	12	0.826 (0.127)	1.080 (0.091)	0.270 (0.028)			
P040813	C4	13	0.689 (0.037)	1.588 (0.048)	0.000 (0.000)	0.647 (0.049)	0.051 (0.077)	-0.698 (0.153)
P040814	C4	14	1.323 (0.145)	1.198 (0.052)	0.124 (0.014)			
P040815	C4	15	1.624 (0.160)	0.910 (0.039)	0.173 (0.016)			

Table E-13 (continued)
IRT Parameters for the 1998 Civics Items, Grade 8

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{1j} (s.e.)	d_{2j} (s.e.)	d_{3j} (s.e.)
P040816	C4	16	0.877 (0.110)	0.948 (0.073)	0.184 (0.025)			
P040817	C4	17	1.072 (0.093)	-0.198 (0.082)	0.274 (0.034)			
P040818	C4	18	1.491 (0.132)	0.397 (0.048)	0.260 (0.022)			
P040819	C4	19	1.896 (0.150)	1.192 (0.042)	0.202 (0.012)			
P040901	C5	1	0.699 (0.065)	-1.133 (0.170)	0.279 (0.052)			
P040902	C5	2	0.887 (0.107)	1.225 (0.075)	0.125 (0.019)			
P040903	C5	3	0.606 (0.028)	0.307 (0.036)	0.000 (0.000)	0.905 (0.056)	-0.905 (0.060)	
P040904	C5	4	0.828 (0.088)	0.417 (0.088)	0.237 (0.032)			
P040906	C5	6	0.704 (0.035)	1.355 (0.051)	0.000 (0.000)	-0.405 (0.061)	0.405 (0.084)	
P040907	C5	7	0.739 (0.097)	0.941 (0.092)	0.205 (0.029)			
P040908	C5	8	0.891 (0.073)	-0.142 (0.082)	0.187 (0.033)			
P040909	C5	9	1.547 (0.118)	-0.277 (0.055)	0.257 (0.029)			
P040910	C5	10	0.535 (0.028)	1.386 (0.054)	0.000 (0.000)	1.080 (0.056)	-1.080 (0.103)	
P040911	C5	11	0.317 (0.061)	1.629 (0.312)	0.254 (0.044)			
P040912	C5	12	1.375 (0.179)	1.519 (0.085)	0.250 (0.014)			
P040913	C5	13	0.894 (0.041)	0.456 (0.026)	0.000 (0.000)	0.455 (0.039)	-0.455 (0.044)	
P040914	C5	14	0.995 (0.095)	0.502 (0.064)	0.179 (0.026)			
P040915	C5	15	1.649 (0.195)	1.566 (0.084)	0.291 (0.013)			
P040916	C5	16	1.484 (0.167)	1.112 (0.053)	0.261 (0.017)			
P040917	C5	17	0.765 (0.092)	0.911 (0.083)	0.165 (0.027)			
P040918	C5	18	1.090 (0.109)	0.139 (0.082)	0.307 (0.033)			
P040919	C5	19	1.097 (0.113)	0.442 (0.069)	0.245 (0.029)			
P041001	C6	1	0.674 (0.075)	0.116 (0.128)	0.259 (0.040)			
P041002	C6	2	0.822 (0.139)	1.205 (0.105)	0.332 (0.027)			
P041003	C6	3	1.150 (0.062)	0.868 (0.035)	0.000 (0.000)			
P041004	C6	4	0.901 (0.080)	-0.884 (0.128)	0.312 (0.046)			
P041005	C6	5	0.873 (0.065)	-0.167 (0.074)	0.154 (0.029)			
P041006	C6	6	1.464 (0.193)	0.936 (0.056)	0.373 (0.020)			
P041007	C6	7	0.768 (0.038)	0.971 (0.035)	0.000 (0.000)	0.200 (0.044)	-0.200 (0.060)	
P041008	C6	8	0.731 (0.065)	-0.185 (0.105)	0.201 (0.037)			
P041009	C6	9	1.283 (0.112)	0.215 (0.058)	0.259 (0.027)			
P041010	C6	10	0.724 (0.105)	1.176 (0.100)	0.219 (0.027)			
P041011	C6	11	1.437 (0.140)	0.269 (0.060)	0.356 (0.026)			
P041012	C6	12	1.415 (0.114)	-0.013 (0.056)	0.287 (0.027)			
P041013	C6	13	0.338 (0.015)	0.533 (0.063)	0.000 (0.000)	1.828 (0.094)	-1.828 (0.110)	

Table E-13 (continued)
IRT Parameters for the 1998 Civics Items, Grade 8

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{1j} (s.e.)	d_{2j} (s.e.)	d_{3j} (s.e.)
P041014	C6	14	0.330 (0.018)	-1.010 (0.071)	0.000 (0.000)	1.336 (0.1 25)	-1.336 (0.089)	
P041015	C6	15	1.298 (0.105)	0.392 (0.047)	0.178 (0.022)			
P041016	C6	16	1.364 (0.137)	0.748 (0.048)	0.229 (0.020)			
P041017	C6	17	1.886 (0.190)	0.771 (0.042)	0.344 (0.018)			
P041018	C6	18	1.377 (0.119)	-0.018 (0.063)	0.311 (0.029)			
P041019	C6	19	0.571 (0.083)	0.884 (0.130)	0.220 (0.037)			
P041101	C7	1	0.402 (0.054)	-0.866 (0.342)	0.323 (0.066)			
P041102	C7	2	0.643 (0.032)	0.743 (0.035)	0.000 (0.000)	0.171 (0.0 52)	-0.171 (0.063)	
P041103	C7	3	0.985 (0.080)	0.420 (0.055)	0.141 (0.022)			
P041104	C7	4	1.218 (0.169)	1.255 (0.064)	0.213 (0.018)			
P041105	C7	5	0.978 (0.148)	1.222 (0.080)	0.253 (0.023)			
P041106	C7	6	0.222 (0.008)	1.775 (0.065)	0.000 (0.000)	-0.287 (0.1 82)	4.257 (0.178)	-3.969 (0.268)
P041107	C7	7	1.293 (0.129)	0.084 (0.075)	0.408 (0.029)			
P041108	C7	8	1.141 (0.088)	-0.164 (0.066)	0.218 (0.029)			
P041109	C7	9	1.887 (0.261)	1.899 (0.121)	0.265 (0.011)			
P041110	C7	10	0.979 (0.142)	1.211 (0.078)	0.236 (0.022)			
P041111	C7	11	0.834 (0.036)	1.003 (0.032)	0.000 (0.000)	-0.273 (0.0 49)	0.273 (0.060)	
P041112	C7	12	0.442 (0.051)	-1.348 (0.302)	0.293 (0.064)			
P041113	C7	13	1.075 (0.141)	0.644 (0.082)	0.402 (0.027)			
P041114	C7	14	1.356 (0.235)	2.124 (0.179)	0.158 (0.011)			
P041115	C7	15	1.111 (0.189)	1.309 (0.087)	0.327 (0.021)			
P041116	C7	16	0.795 (0.043)	1.143 (0.040)	0.000 (0.000)	0.187 (0.0 46)	-0.187 (0.066)	
P041117	C7	17	0.947 (0.083)	-1.046 (0.126)	0.280 (0.045)			
P041118	C7	18	1.591 (0.158)	1.182 (0.052)	0.245 (0.015)			
P041119	C7	19	0.992 (0.104)	0.183 (0.088)	0.303 (0.033)			
P041201	C8	1	0.709 (0.074)	0.040 (0.117)	0.250 (0.038)			
P041202	C8	2	0.546 (0.028)	0.453 (0.037)	0.000 (0.000)	0.393 (0.0 59)	-0.393 (0.066)	
P041203	C8	3	0.450 (0.045)	-2.227 (0.296)	0.268 (0.062)			
P041205	C8	5	0.226 (0.016)	-2.490 (0.184)	0.000 (0.000)	-0.782 (0.2 15)	0.782 (0.150)	
P041206	C8	6	0.768 (0.064)	-0.097 (0.088)	0.173 (0.032)			
P041207	C8	7	0.972 (0.123)	0.624 (0.085)	0.360 (0.028)			
P041208	C8	8	0.850 (0.094)	0.401 (0.091)	0.279 (0.032)			
P041209	C8	9	1.280 (0.147)	0.766 (0.057)	0.305 (0.022)			

Table E-13 (continued)
IRT Parameters for the 1998 Civics Items, Grade 8

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{1j} (s.e.)	d_{2j} (s.e.)	d_{3j} (s.e.)
P041210	C8	10	0.512 (0.071)	0.472 (0.167)	0.249 (0.044)			
P041211	C8	11	1.185 (0.163)	1.088 (0.064)	0.274 (0.021)			
P041212	C8	12	0.960 (0.106)	0.354 (0.087)	0.327 (0.031)			
P041213	C8	13	0.557 (0.028)	1.314 (0.043)	0.000 (0.000)	0.487 (0.0 61)	0.375 (0.078)	-0.862 (0.128)
P041214	C8	14	1.620 (0.181)	1.411 (0.071)	0.334 (0.014)			
P041215	C8	15	1.040 (0.083)	-0.367 (0.081)	0.230 (0.034)			
P041216	C8	16	1.959 (0.177)	0.735 (0.034)	0.212 (0.016)			
P041217	C8	17	0.675 (0.139)	1.635 (0.158)	0.256 (0.029)			
P041218	C8	18	2.069 (0.209)	0.610 (0.040)	0.339 (0.019)			
P041219	C8	19	0.881 (0.073)	-0.708 (0.109)	0.238 (0.041)			
P041301	C9	1	0.975 (0.126)	0.602 (0.090)	0.371 (0.030)			
P041302	C9	2	1.170 (0.109)	0.408 (0.060)	0.246 (0.026)			
P041303	C9	3	1.460 (0.133)	0.285 (0.054)	0.320 (0.025)			
P041304	C9	4	1.637 (0.133)	-0.436 (0.061)	0.328 (0.032)			
P041305	C9	5	1.115 (0.161)	0.901 (0.077)	0.392 (0.025)			
P041306	C9	6	1.186 (0.093)	-0.702 (0.082)	0.266 (0.038)			
P041307	C9	7	0.823 (0.035)	1.018 (0.028)	0.000 (0.000)	0.851 (0.0 39)	-0.612 (0.063)	-0.239 (0.088)
P041308	C9	8	1.699 (0.166)	1.535 (0.067)	0.216 (0.011)			
P041309	C9	9	0.522 (0.026)	0.808 (0.044)	0.000 (0.000)	0.881 (0.0 58)	-0.881 (0.078)	
P041310	C9	10	1.666 (0.180)	0.795 (0.045)	0.300 (0.019)			
P041311	C9	11	0.301 (0.062)	1.997 (0.381)	0.315 (0.041)			
P041312	C9	12	1.283 (0.158)	1.441 (0.072)	0.183 (0.014)			
P041313	C9	13	1.146 (0.104)	-1.226 (0.123)	0.342 (0.049)			
P041314	C9	14	1.370 (0.142)	0.816 (0.049)	0.235 (0.020)			
P041315	C9	15	0.560 (0.028)	0.017 (0.035)	0.000 (0.000)	0.524 (0.0 62)	-0.524 (0.059)	
P041316	C9	16	1.223 (0.141)	0.746 (0.061)	0.291 (0.024)			
P041317	C9	17	1.819 (0.164)	0.869 (0.037)	0.214 (0.015)			
P041318	C9	18	0.841 (0.100)	0.574 (0.092)	0.278 (0.032)			
P041319	C9	19	0.730 (0.098)	0.607 (0.116)	0.310 (0.036)			
P040601	C10	1	0.564 (0.069)	0.189 (0.152)	0.247 (0.043)			
P040602	C10	2	0.533 (0.028)	0.361 (0.036)	0.000 (0.000)	0.374 (0.0 61)	-0.374 (0.066)	
P040603	C10	3	2.097 (0.150)	1.369 (0.044)	0.150 (0.010)			
P040604	C10	4	0.853 (0.134)	1.111 (0.094)	0.299 (0.027)			
P040605	C10	5	0.939 (0.332)	2.533 (0.464)	0.290 (0.016)			
P040606	C10	6	1.385 (0.291)	2.065 (0.207)	0.296 (0.012)			

Table E-13 (continued)
IRT Parameters for the 1998 Civics Items, Grade 8

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{1j} (s.e.)	d_{2j} (s.e.)	d_{3j} (s.e.)
P040607	C10	7	0.706 (0.062)	-0.091 (0.100)	0.176 (0.035)			
P040608	C10	8	0.567 (0.026)	0.700 (0.030)	0.000 (0.000)	0.310 (0.061)	0.021 (0.073)	-0.331 (0.085)
P040609	C10	9	0.972 (0.242)	1.895 (0.196)	0.285 (0.019)			
P040610	C10	10	1.624 (0.183)	1.697 (0.087)	0.180 (0.011)			
P040611	C10	11	0.631 (0.063)	-0.457 (0.152)	0.257 (0.046)			
P040612	C10	12	1.160 (0.102)	-0.818 (0.103)	0.343 (0.043)			
P040613	C10	13	0.667 (0.035)	1.103 (0.045)	0.000 (0.000)	0.076 (0.051)	-0.076 (0.072)	
P040614	C10	14	1.116 (0.107)	0.484 (0.060)	0.229 (0.026)			
P040615	C10	15	1.045 (0.083)	-0.559 (0.088)	0.255 (0.037)			
P040616	C10	16	1.297 (0.100)	-0.402 (0.068)	0.243 (0.033)			
P040617	C10	17	0.766 (0.101)	0.739 (0.098)	0.260 (0.033)			
P040618	C10	18	0.980 (0.103)	0.658 (0.065)	0.188 (0.026)			

Table E-14
IRT Parameters for the 1998 Civics Items, Grade 12

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)	d_{j3} (s.e.)
P041501	C3	1	0.833 (0.087)	0.354 (0.089)	0.243 (0.032)			
P041502	C3	2	0.726 (0.096)	0.721 (0.105)	0.278 (0.033)			
P041503	C3	3A	0.792 (0.038)	0.849 (0.033)	0.000 (0.000)	0.203 (0.044)	-0.203 (0.057)	
P041504	C3	4	1.945 (0.167)	0.502 (0.035)	0.229 (0.018)			
P041505	C3	5A	0.582 (0.028)	0.200 (0.035)	0.000 (0.000)	0.664 (0.058)	-0.664 (0.060)	
P041506	C3	6	1.377 (0.136)	0.392 (0.058)	0.324 (0.024)			
P041507	C3	7	1.125 (0.087)	-0.510 (0.077)	0.252 (0.033)			
P041508	C3	8	1.181 (0.126)	0.492 (0.066)	0.322 (0.026)			
P041509	C3	9A	0.647 (0.029)	0.786 (0.030)	0.000 (0.000)	0.785 (0.052)	-0.479 (0.068)	-0.306 (0.088)
P041510	C3	10	1.119 (0.122)	0.969 (0.057)	0.194 (0.019)			
P041511	C3	11A	0.726 (0.028)	0.073 (0.027)	0.000 (0.000)	-0.210 (0.054)	0.210 (0.053)	
P041512	C3	12	1.182 (0.095)	-0.428 (0.077)	0.275 (0.034)			
P041513	C3	13	1.008 (0.101)	0.275 (0.079)	0.303 (0.029)			
P041514	C3	14	1.065 (0.102)	0.797 (0.055)	0.165 (0.020)			
P041515	C3	15	2.040 (0.183)	0.619 (0.034)	0.225 (0.016)			
P041516	C3	16	1.258 (0.145)	0.689 (0.061)	0.317 (0.023)			
P041517	C3	17	1.115 (0.129)	0.202 (0.093)	0.430 (0.031)			
P041518	C3	18	1.736 (0.138)	0.566 (0.034)	0.132 (0.016)			
P041519	C3	19	1.938 (0.160)	-0.074 (0.046)	0.293 (0.025)			
P041601	C4	1	0.816 (0.070)	-1.108 (0.136)	0.261 (0.046)			
P041602	C4	2	0.806 (0.075)	-0.591 (0.127)	0.276 (0.044)			
P041603	C4	3	2.163 (0.183)	0.717 (0.031)	0.222 (0.015)			
P041604	C4	4	1.352 (0.131)	0.399 (0.058)	0.307 (0.025)			
P041605	C4	5	1.206 (0.103)	0.035 (0.066)	0.278 (0.029)			
P041606	C4	6A	0.541 (0.027)	0.175 (0.035)	0.000 (0.000)	0.175 (0.064)	-0.175 (0.065)	
P041607	C4	7	0.706 (0.097)	0.835 (0.108)	0.268 (0.033)			
P041608	C4	8	1.786 (0.155)	1.089 (0.042)	0.235 (0.014)			
P041609	C4	9	0.682 (0.071)	0.079 (0.118)	0.243 (0.038)			
P041610	C4	10	1.835 (0.150)	0.954 (0.035)	0.156 (0.013)			
P041611	C4	11	0.829 (0.088)	-0.071 (0.119)	0.354 (0.038)			
P041612	C4	12	1.369 (0.167)	1.019 (0.055)	0.282 (0.019)			
P041613	C4	13A	0.418 (0.021)	0.135 (0.049)	0.000 (0.000)	1.175 (0.081)	-1.175 (0.082)	
P041614	C4	14A	0.503 (0.025)	-0.816 (0.051)	0.000 (0.000)	0.257 (0.086)	-0.257 (0.064)	
P041615	C4	15	0.716 (0.096)	0.648 (0.115)	0.299 (0.035)			

Table E-14 (continued)
IRT Parameters for the 1998 Civics Items, Grade 12

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{1j} (s.e.)	d_{2j} (s.e.)	d_{3j} (s.e.)
P041616	C4	16	1.408 (0.241)	2.205 (0.176)	0.208 (0.011)			
P041617	C4	17	1.086 (0.101)	0.015 (0.080)	0.305 (0.032)			
P041618	C4	18	1.533 (0.149)	0.536 (0.048)	0.273 (0.022)			
P041619	C4	19	0.760 (0.094)	0.561 (0.104)	0.252 (0.035)			
P041701	C5	1	0.900 (0.083)	-0.304 (0.103)	0.264 (0.039)			
P041702	C5	2	0.943 (0.086)	0.274 (0.072)	0.204 (0.029)			
P041703	C5	3	1.224 (0.156)	0.960 (0.060)	0.264 (0.021)			
P041704	C5	4	2.180 (0.206)	1.328 (0.057)	0.375 (0.013)			
P041705	C5	5A	0.707 (0.041)	-0.106 (0.045)	0.000 (0.000)			
P041706	C5	6A	0.643 (0.032)	1.027 (0.035)	0.000 (0.000)	0.608 (0.054)	-0.076 (0.071)	-0.532 (0.101)
P041707	C5	7	1.559 (0.174)	1.069 (0.051)	0.275 (0.017)			
P041708	C5	8	1.069 (0.125)	0.780 (0.065)	0.249 (0.024)			
P041709	C5	9	1.509 (0.158)	0.226 (0.065)	0.400 (0.027)			
P041710	C5	10	0.968 (0.087)	-0.530 (0.105)	0.290 (0.041)			
P041711	C5	11A	0.712 (0.038)	1.046 (0.042)	0.000 (0.000)	0.175 (0.050)	-0.175 (0.070)	
P041712	C5	12	0.441 (0.060)	0.155 (0.214)	0.250 (0.050)			
P041713	C5	13A	0.617 (0.026)	0.120 (0.032)	0.000 (0.000)	-0.340 (0.066)	0.340 (0.065)	
P041714	C5	14	0.844 (0.137)	0.847 (0.109)	0.362 (0.033)			
P041715	C5	15	1.217 (0.137)	0.595 (0.063)	0.283 (0.025)			
P041716	C5	16	1.000 (0.103)	0.423 (0.073)	0.221 (0.029)			
P041717	C5	17	1.343 (0.116)	0.126 (0.057)	0.204 (0.027)			
P041718	C5	18	1.150 (0.115)	0.271 (0.070)	0.249 (0.029)			
P041719	C5	19	1.278 (0.123)	0.381 (0.058)	0.213 (0.025)			
P041801	C6	1	0.791 (0.091)	0.349 (0.105)	0.276 (0.036)			
P041802	C6	2	0.418 (0.044)	-2.017 (0.297)	0.271 (0.060)			
P041803	C6	3	0.829 (0.084)	-0.025 (0.111)	0.291 (0.039)			
P041804	C6	4A	0.592 (0.029)	0.058 (0.033)	0.000 (0.000)	0.277 (0.060)	-0.277 (0.058)	
P041805	C6	5	0.628 (0.057)	-2.018 (0.219)	0.278 (0.060)			
P041806	C6	6A	0.506 (0.027)	0.417 (0.038)	0.000 (0.000)	0.214 (0.066)	-0.214 (0.071)	
P041807	C6	7	0.864 (0.076)	-1.019 (0.137)	0.287 (0.048)			
P041808	C6	8	1.609 (0.175)	1.604 (0.078)	0.258 (0.013)			
P041809	C6	9	0.818 (0.102)	0.693 (0.093)	0.277 (0.031)			
P041811	C6	11	1.287 (0.143)	0.645 (0.060)	0.325 (0.024)			
P041812	C6	12	1.277 (0.118)	0.633 (0.048)	0.177 (0.021)			
P041813	C6	13	1.366 (0.150)	0.712 (0.054)	0.307 (0.022)			

Table E-14 (continued)
IRT Parameters for the 1998 Civics Items, Grade 12

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)	d_{j3} (s.e.)
P041814	C6	14	1.052 (0.169)	1.465 (0.091)	0.237 (0.020)			
P041815	C6	15A	0.926 (0.041)	0.829 (0.027)	0.000 (0.000)	0.038 (0.040)	-0.038 (0.050)	
P041816	C6	16	0.981 (0.124)	0.557 (0.091)	0.378 (0.030)			
P041817	C6	17	0.902 (0.088)	0.094 (0.093)	0.257 (0.035)			
P041818	C6	18	1.454 (0.160)	0.238 (0.073)	0.447 (0.028)			
P041819	C6	19	1.175 (0.121)	0.878 (0.052)	0.179 (0.020)			
P041901	C7	1	0.659 (0.066)	-1.283 (0.202)	0.313 (0.058)			
P041902	C7	2A	0.584 (0.023)	0.687 (0.035)	0.000 (0.000)	-0.854 (0.074)	0.854 (0.081)	
P041903	C7	3	1.113 (0.148)	0.846 (0.074)	0.351 (0.024)			
P041904	C7	4	1.569 (0.154)	0.435 (0.051)	0.316 (0.023)			
P041905	C7	5A	0.522 (0.019)	-0.383 (0.040)	0.000 (0.000)	3.043 (0.131)	-0.905 (0.062)	-2.138 (0.092)
P041906	C7	6	1.262 (0.185)	1.175 (0.071)	0.324 (0.020)			
P041907	C7	7A	0.853 (0.038)	1.152 (0.030)	0.000 (0.000)	0.193 (0.046)	0.173 (0.063)	-0.366 (0.085)
P041908	C7	8	1.160 (0.119)	0.467 (0.066)	0.287 (0.026)			
P041909	C7	9	1.164 (0.160)	1.238 (0.070)	0.229 (0.019)			
P041910	C7	10	0.860 (0.113)	0.731 (0.094)	0.312 (0.030)			
P041911	C7	11	0.890 (0.110)	0.832 (0.080)	0.233 (0.028)			
P041912	C7	12A	0.440 (0.025)	1.129 (0.060)	0.000 (0.000)	1.003 (0.070)	-1.003 (0.105)	
P041913	C7	13	1.720 (0.165)	0.984 (0.042)	0.214 (0.015)			
P041914	C7	14	0.834 (0.082)	-0.440 (0.125)	0.299 (0.044)			
P041915	C7	15	1.507 (0.191)	0.895 (0.055)	0.338 (0.020)			
P041916	C7	16	1.072 (0.128)	0.959 (0.065)	0.204 (0.022)			
P041917	C7	17	1.810 (0.172)	0.541 (0.041)	0.242 (0.020)			
P041918	C7	18	0.857 (0.110)	0.306 (0.119)	0.367 (0.038)			
P041919	C7	19	1.419 (0.136)	-0.012 (0.069)	0.337 (0.032)			
P042001	C8	1	1.118 (0.226)	1.319 (0.107)	0.468 (0.021)			
P042002	C8	2A	0.838 (0.038)	0.382 (0.026)	0.000 (0.000)	0.290 (0.042)	-0.290 (0.046)	
P042003	C8	3	0.940 (0.111)	0.122 (0.111)	0.394 (0.037)			
P042004	C8	4	1.195 (0.119)	0.320 (0.067)	0.298 (0.028)			
P042005	C8	5	0.202 (0.043)	2.503 (0.599)	0.328 (0.039)			
P042006	C8	6	1.590 (0.153)	0.375 (0.050)	0.316 (0.023)			
P042007	C8	7	2.079 (0.194)	0.615 (0.034)	0.246 (0.017)			
P042008	C8	8A	0.825 (0.038)	0.380 (0.027)	0.000 (0.000)	0.425 (0.042)	-0.425 (0.046)	
P042009	C8	9A	0.589 (0.024)	0.188 (0.031)	0.000 (0.000)	-0.415 (0.066)	0.415 (0.066)	
P042010	C8	10	0.554 (0.057)	-1.394 (0.240)	0.302 (0.061)			

Table E-14 (continued)
IRT Parameters for the 1998 Civics Items, Grade 12

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{1j} (s.e.)	d_{2j} (s.e.)	d_{3j} (s.e.)
P042011	C8	11	0.629 (0.128)	1.454 (0.156)	0.306 (0.033)			
P042012	C8	12A	0.612 (0.026)	-0.702 (0.041)	0.000 (0.000)	-0.203 (0.075)	0.203 (0.060)	
P042013	C8	13	2.380 (0.166)	1.190 (0.038)	0.211 (0.012)			
P042014	C8	14	0.476 (0.070)	0.284 (0.213)	0.286 (0.051)			
P042015	C8	15	2.674 (0.177)	1.323 (0.040)	0.193 (0.011)			
P042016	C8	16	1.343 (0.180)	1.211 (0.063)	0.234 (0.018)			
P042017	C8	17	1.791 (0.187)	1.075 (0.052)	0.350 (0.016)			
P042018	C8	18	1.460 (0.185)	1.226 (0.065)	0.287 (0.017)			
P042019	C8	19	0.869 (0.158)	1.430 (0.118)	0.275 (0.025)			
P042101	C9	1	1.073 (0.133)	0.404 (0.090)	0.420 (0.030)			
P042102	C9	2A	0.952 (0.041)	0.892 (0.029)	0.000 (0.000)	0.819 (0.035)	-0.819 (0.056)	
P042103	C9	3A	0.635 (0.028)	1.693 (0.041)	0.000 (0.000)	1.639 (0.049)	-0.333 (0.080)	-1.305 (0.224)
P042104	C9	4	0.869 (0.083)	-1.526 (0.177)	0.335 (0.059)			
P042105	C9	5	1.207 (0.130)	1.056 (0.051)	0.133 (0.017)			
P042106	C9	6	2.823 (0.258)	0.496 (0.029)	0.314 (0.017)			
P042107	C9	7	1.344 (0.166)	0.610 (0.066)	0.401 (0.025)			
P042108	C9	8	1.301 (0.131)	0.011 (0.079)	0.417 (0.031)			
P042109	C9	9	0.996 (0.124)	0.844 (0.071)	0.261 (0.025)			
P042110	C9	10A	0.458 (0.022)	0.139 (0.046)	0.000 (0.000)	1.183 (0.075)	-1.183 (0.076)	
P042111	C9	11	1.239 (0.132)	0.623 (0.058)	0.276 (0.024)			
P042112	C9	12	1.833 (0.194)	1.426 (0.068)	0.346 (0.013)			
P042113	C9	13	1.476 (0.159)	0.294 (0.065)	0.410 (0.027)			
P042114	C9	14	0.636 (0.120)	1.654 (0.160)	0.222 (0.028)			
P042115	C9	15	2.110 (0.191)	0.356 (0.038)	0.294 (0.021)			
P042116	C9	16	2.792 (0.174)	1.247 (0.035)	0.226 (0.011)			
P042117	C9	17	0.931 (0.078)	-0.415 (0.095)	0.233 (0.038)			
P042118	C9	18	0.964 (0.087)	-0.479 (0.106)	0.303 (0.041)			
P042119	C9	19	0.911 (0.101)	0.675 (0.074)	0.220 (0.027)			
P041401	C10	1	0.488 (0.051)	-0.747 (0.205)	0.244 (0.051)			
P041402	C10	2	0.822 (0.078)	-0.343 (0.117)	0.288 (0.040)			
P041403	C10	3	1.072 (0.108)	0.338 (0.072)	0.294 (0.028)			
P041404	C10	4A	0.646 (0.023)	0.431 (0.033)	0.000 (0.000)	2.034 (0.067)	-0.556 (0.054)	-1.477 (0.093)
P041405	C10	5	0.768 (0.087)	-0.462 (0.164)	0.394 (0.048)			
P041406	C10	6	1.323 (0.142)	-0.765 (0.116)	0.520 (0.041)			
P041407	C10	7	0.955 (0.207)	1.650 (0.141)	0.328 (0.022)			

Table E-14 (continued)
IRT Parameters for the 1998 Civics Items, Grade 12

NAEP ID	Block	Item	a_j (s.e.)		b_j (s.e.)		c_j (s.e.)		d_{1j} (s.e.)		d_{2j} (s.e.)		d_{3j} (s.e.)	
P041408	C10	8A	0.397	(0.023)	-0.149	(0.047)	0.000	(0.000)	0.149	(0.090)	-0.149	(0.084)		
P041409	C10	9	2.771	(0.211)	0.606	(0.027)	0.273	(0.015)						
P041410	C10	10	0.993	(0.121)	0.822	(0.070)	0.251	(0.025)						
P041411	C10	11	1.471	(0.131)	0.611	(0.042)	0.192	(0.019)						
P041412	C10	12A	1.037	(0.050)	1.424	(0.035)	0.000	(0.000)	0.784	(0.033)	-0.784	(0.080)		
P041413	C10	13A	0.798	(0.037)	1.094	(0.036)	0.000	(0.000)	0.850	(0.040)	-0.850	(0.070)		
P041414	C10	14	0.971	(0.098)	-0.080	(0.101)	0.335	(0.037)						
P041415	C10	15	0.595	(0.093)	0.779	(0.145)	0.277	(0.041)						
P041416	C10	16	1.175	(0.105)	-0.719	(0.099)	0.340	(0.041)						
P041417	C10	17	0.832	(0.081)	-0.068	(0.102)	0.248	(0.037)						
P041418	C10	18	0.457	(0.048)	-1.601	(0.261)	0.265	(0.058)						
P041419	C10	19	1.829	(0.156)	1.097	(0.042)	0.200	(0.014)						

Table E-15
IRT Parameters for the 1998 State Reading Items
Reading for Literary Experience Scale, Grade 4

NAEP ID	Block	Item	a _j (s.e.)	b _j (s.e.)	c _j (s.e.)	d _{j1} (s.e.)	d _{j2} (s.e.)	d _{j3} (s.e.)
1R017001	R3	1A	0.632 (0.020)	-0.971 (0.038)	0.000 (0.000)			
1R017002	R3	2	1.368 (0.056)	-0.517 (0.037)	0.214 (0.019)			
1R017003	R3	3A	0.461 (0.014)	0.480 (0.023)	0.000 (0.000)	0.102 (0.040)	-0.102 (0.044)	
1R017004	R3	4A	0.895 (0.031)	0.985 (0.027)	0.000 (0.000)			
1R017005	R3	5	0.690 (0.071)	0.945 (0.067)	0.285 (0.022)			
1R017006	R3	6A	0.981 (0.036)	1.113 (0.029)	0.000 (0.000)			
1R017007	R3	7A	0.539 (0.014)	0.392 (0.016)	0.000 (0.000)	0.237 (0.042)	0.201 (0.043)	-0.438 (0.045)
1R017008	R3	8	1.090 (0.056)	0.437 (0.031)	0.129 (0.014)			
1R017009	R3	9A	0.484 (0.011)	-0.160 (0.033)	0.000 (0.000)	1.963 (0.055)	-1.963 (0.046)	
1R012101	R4	1	1.841 (0.090)	-1.000 (0.039)	0.293 (0.023)			
1R012102	R4	2A	0.619 (0.021)	-0.051 (0.027)	0.000 (0.000)			
1R012103	R4	3	1.306 (0.052)	-0.514 (0.036)	0.165 (0.018)			
1R012104	R4	4A	0.694 (0.022)	-0.504 (0.029)	0.000 (0.000)			
1R012105	R4	5	0.873 (0.048)	0.046 (0.053)	0.198 (0.021)			
1R012106	R4	6A	0.857 (0.027)	0.253 (0.021)	0.000 (0.000)			
1R012107	R4	7	1.400 (0.072)	0.319 (0.030)	0.237 (0.014)			
1R012108	R4	8A	0.608 (0.022)	-1.111 (0.046)	0.000 (0.000)			
1R012109	R4	9A	0.577 (0.022)	-1.396 (0.057)	0.000 (0.000)			
1R012110	R4	10	0.935 (0.054)	-0.880 (0.090)	0.330 (0.035)			
1R012111	R4	11A	0.965 (0.026)	1.324 (0.019)	0.000 (0.000)	0.953 (0.021)	-0.953 (0.048)	
1R012112	R4	12A	0.689 (0.028)	-0.668 (0.041)	0.000 (0.000)			
1R012601	R5	1A	0.855 (0.033)	1.231 (0.036)	0.000 (0.000)			
1R012602	R5	2	1.488 (0.086)	1.212 (0.029)	0.182 (0.008)			
1R012603	R5	3	1.383 (0.068)	0.162 (0.032)	0.261 (0.016)			
1R012604	R5	4A	1.195 (0.041)	1.040 (0.023)	0.000 (0.000)			
1R012605	R5	5	0.972 (0.086)	0.979 (0.045)	0.290 (0.016)			
1R012606	R5	6	1.716 (0.098)	0.494 (0.027)	0.321 (0.013)			
1R012607	R5	7A	0.954 (0.026)	1.278 (0.017)	0.000 (0.000)	0.838 (0.021)	-0.055 (0.030)	-0.783 (0.062)
1R012608	R5	8	0.619 (0.051)	-0.504 (0.154)	0.350 (0.042)			
1R012609	R5	9	1.313 (0.096)	0.770 (0.034)	0.279 (0.015)			
1R012610	R5	10	2.155 (0.143)	0.491 (0.027)	0.420 (0.013)			
1R012611	R5	11A	0.719 (0.027)	0.302 (0.027)	0.000 (0.000)			
1R015801	R9	1	1.012 (0.048)	-1.319 (0.075)	0.247 (0.032)			
1R015802	R9	2A	0.515 (0.020)	-1.392 (0.056)	0.000 (0.000)			

Table E-15 (continued)
IRT Parameters for the 1998 State Reading Items, Grade 4

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{1j} (s.e.)	d_{2j} (s.e.)	d_{3j} (s.e.)
1R015803	R9	3A	0.570 (0.012)	-0.286 (0.025)	0.000 (0.000)	1.604 (0.042)	-1.604 (0.034)	
1R015804	R9	4A	0.572 (0.012)	0.751 (0.021)	0.000 (0.000)	2.198 (0.040)	-0.468 (0.035)	-1.730 (0.073)
1R015805	R9	5	1.166 (0.069)	0.314 (0.040)	0.277 (0.017)			
1R015806	R9	6A	0.606 (0.015)	0.375 (0.023)	0.000 (0.000)	1.198 (0.034)	-1.198 (0.038)	
1R015807	R9	7A	0.596 (0.015)	-0.101 (0.025)	0.000 (0.000)	1.292 (0.041)	-1.292 (0.036)	
1R015808	R9	8	0.709 (0.041)	-1.145 (0.113)	0.218 (0.039)			
1R015809	R9	9A	0.616 (0.016)	0.032 (0.026)	0.000 (0.000)	1.294 (0.042)	-1.294 (0.038)	

Table E-16
IRT Parameters for the 1998 State Reading Items
Reading to Gain Information Scale, Grade 4

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)	d_{j3} (s.e.)
2R012201	R6	1A	0.280 (0.016)	-1.166 (0.085)	0.000 (0.000)			
2R012202	R6	2	1.211 (0.079)	0.594 (0.040)	0.347 (0.015)			
2R012203	R6	3	0.697 (0.048)	0.531 (0.065)	0.201 (0.022)			
2R012204	R6	4A	0.471 (0.012)	0.112 (0.019)	0.000 (0.000)	1.405 (0.048)	-0.518 (0.043)	-0.887 (0.051)
2R012205	R6	5	1.434 (0.088)	0.627 (0.033)	0.308 (0.013)			
2R012206	R6	6A	1.088 (0.033)	0.685 (0.021)	0.000 (0.000)			
2R012207	R6	7	0.634 (0.040)	-0.687 (0.121)	0.245 (0.039)			
2R012208	R6	8A	0.848 (0.028)	-0.616 (0.029)	0.000 (0.000)			
2R012209	R6	9	1.310 (0.066)	0.305 (0.033)	0.186 (0.016)			
2R012210	R6	10A	0.591 (0.026)	-1.592 (0.068)	0.000 (0.000)			
2R012701	R7	1	1.207 (0.059)	-0.035 (0.041)	0.285 (0.019)			
2R012702	R7	2A	0.509 (0.020)	-1.318 (0.055)	0.000 (0.000)			
2R012703	R7	8A	1.127 (0.032)	0.637 (0.018)	0.000 (0.000)			
2R012704	R7	4	1.291 (0.063)	0.785 (0.025)	0.123 (0.010)			
2R012705	R7	5A	1.322 (0.046)	1.308 (0.026)	0.000 (0.000)			
2R012706	R7	6A	0.571 (0.025)	1.482 (0.057)	0.000 (0.000)			
2R012707	R7	3	2.009 (0.095)	0.301 (0.023)	0.246 (0.012)			
2R012708	R7	10A	0.647 (0.018)	1.653 (0.022)	0.000 (0.000)	1.285 (0.031)	0.534 (0.039)	-1.819 (0.118)
2R012709	R7	9	0.582 (0.055)	0.118 (0.145)	0.332 (0.039)			
2R012710	R7	11A	0.990 (0.038)	0.995 (0.029)	0.000 (0.000)			
2R015701	R8	1	0.877 (0.051)	-0.946 (0.098)	0.343 (0.037)			
2R015702	R8	2A	0.619 (0.011)	0.002 (0.024)	0.000 (0.000)	1.782 (0.037)	-1.782 (0.035)	
2R015703	R8	3A	0.668 (0.013)	0.100 (0.022)	0.000 (0.000)	1.527 (0.033)	-1.527 (0.032)	
2R015704	R8	4A	0.598 (0.016)	-0.294 (0.020)	0.000 (0.000)	0.387 (0.036)	-0.387 (0.031)	
2R015705	R8	5A	0.710 (0.018)	0.263 (0.018)	0.000 (0.000)	0.821 (0.028)	-0.821 (0.030)	
2R015706	R8	6	0.876 (0.074)	1.304 (0.048)	0.183 (0.014)			
2R015707	R8	7A	0.540 (0.013)	0.452 (0.025)	0.000 (0.000)	1.306 (0.036)	-1.306 (0.042)	
2R015708	R8	8	0.538 (0.032)	-0.283 (0.098)	0.145 (0.031)			
2R015709	R8	9A	0.460 (0.018)	1.083 (0.037)	0.000 (0.000)	0.347 (0.044)	-0.347 (0.058)	
2R012501	R10	1	1.343 (0.168)	2.266 (0.136)	0.311 (0.007)			
2R012502	R10	2	0.897 (0.047)	-1.902 (0.113)	0.267 (0.049)			
2R012503	R10	3A	1.067 (0.029)	-0.122 (0.018)	0.000 (0.000)			
2R012504	R10	4A	0.816 (0.024)	-0.330 (0.023)	0.000 (0.000)			
2R012505	R10	5	1.094 (0.050)	-0.829 (0.056)	0.231 (0.027)			

Table E-16 (continued)
IRT Parameters for the 1998 State Reading Items
Reading to Gain Information Scale, Grade 4

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)	d_{j3} (s.e.)
2R012506	R10	6A	0.804 (0.024)	-0.249 (0.023)	0.000 (0.000)			
2R012507	R10	7	1.103 (0.060)	-0.664 (0.065)	0.343 (0.028)			
2R012508	R10	8A	0.978 (0.029)	-0.482 (0.022)	0.000 (0.000)			
2R012509	R10	9	0.673 (0.040)	-0.651 (0.108)	0.235 (0.037)			
2R012510	R10	10	1.143 (0.064)	-0.253 (0.056)	0.353 (0.024)			
2R012511	R10	11A	1.050 (0.032)	-0.573 (0.024)	0.000 (0.000)			
2R012512	R10	12A	0.377 (0.012)	0.416 (0.024)	0.000 (0.000)	0.737 (0.060)	0.119 (0.060)	-0.856 (0.069)

Table E-17
IRT Parameters for the 1998 State Reading Items
Reading for Literary Experience Scale, Grade 8

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)	d_{j3} (s.e.)
1R017101	R3	1A	1.247 (0.039)	-0.374 (0.022)	0.000 (0.000)			
1R017102	R3	2A	0.587 (0.023)	1.192 (0.037)	0.000 (0.000)	0.235 (0.041)	-0.235 (0.058)	
1R017103	R3	3	0.737 (0.047)	0.083 (0.069)	0.140 (0.025)			
1R017104	R3	4A	1.130 (0.035)	0.759 (0.017)	0.000 (0.000)	0.265 (0.023)	-0.265 (0.029)	
1R017105	R3	5A	0.803 (0.022)	1.084 (0.019)	0.000 (0.000)	0.833 (0.032)	0.511 (0.035)	-1.344 (0.071)
1R017106	R3	6	0.705 (0.121)	1.963 (0.147)	0.234 (0.018)			
1R017107	R3	7A	0.530 (0.021)	0.883 (0.034)	0.000 (0.000)	0.494 (0.044)	-0.494 (0.058)	
1R017108	R3	8A	1.408 (0.060)	1.127 (0.027)	0.000 (0.000)			
1R017109	R3	9	0.737 (0.053)	-0.787 (0.133)	0.272 (0.047)			
1R017110	R3	10A	1.111 (0.041)	0.111 (0.024)	0.000 (0.000)			
1R015901	R4	1A	0.430 (0.021)	-0.528 (0.052)	0.000 (0.000)			
1R015902	R4	2A	0.618 (0.019)	0.139 (0.026)	0.000 (0.000)	1.092 (0.040)	-1.092 (0.041)	
1R015903	R4	3	0.873 (0.068)	0.346 (0.066)	0.244 (0.024)			
1R015904	R4	4A	0.461 (0.016)	1.907 (0.044)	0.000 (0.000)	1.661 (0.045)	-1.661 (0.105)	
1R015905	R4	5A	0.442 (0.017)	0.329 (0.032)	0.000 (0.000)	0.733 (0.053)	-0.733 (0.057)	
1R015906	R4	6A	0.470 (0.014)	2.967 (0.035)	0.000 (0.000)	3.872 (0.049)	0.817 (0.062)	-4.690 (0.816)
1R015907	R4	7A	0.489 (0.013)	0.100 (0.038)	0.000 (0.000)	1.820 (0.058)	-1.820 (0.057)	
1R015908	R4	8A	0.557 (0.022)	1.054 (0.037)	0.000 (0.000)	1.032 (0.046)	-1.032 (0.069)	
1R012601	R5	1A	0.736 (0.027)	0.026 (0.029)	0.000 (0.000)			
1R012602	R5	2	0.979 (0.058)	0.265 (0.045)	0.140 (0.019)			
1R012603	R5	3	1.191 (0.064)	-0.960 (0.067)	0.225 (0.034)			
1R012604	R5	4A	0.737 (0.027)	0.022 (0.029)	0.000 (0.000)			
1R012605	R5	5	0.584 (0.046)	-0.273 (0.134)	0.216 (0.041)			
1R012606	R5	6	1.513 (0.085)	-0.783 (0.052)	0.269 (0.028)			
1R012607	R5	7A	0.560 (0.017)	0.316 (0.021)	0.000 (0.000)	1.126 (0.049)	-0.057 (0.045)	-1.069 (0.056)
1R012608	R5	8	0.527 (0.036)	-2.010 (0.193)	0.238 (0.057)			
1R012609	R5	9	1.305 (0.082)	-0.089 (0.051)	0.301 (0.022)			
1R012610	R5	10	1.247 (0.083)	-0.613 (0.075)	0.376 (0.032)			
1R012611	R5	11A	0.627 (0.026)	-0.800 (0.045)	0.000 (0.000)			

Table E-18
IRT Parameters for the 1998 State Reading Items
Reading to Gain Information Scale, Grade 8

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)	d_{j3} (s.e.)
2R013201	R6	1A	0.609 (0.019)	0.782 (0.022)	0.000 (0.000)	1.108 (0.040)	-0.069 (0.043)	-1.039 (0.067)
2R013202	R6	2	0.713 (0.053)	-0.265 (0.105)	0.270 (0.035)			
2R013203	R6	3A	1.221 (0.059)	-1.924 (0.055)	0.000 (0.000)			
2R013204	R6	4	0.962 (0.065)	-0.189 (0.073)	0.293 (0.029)			
2R013205	R6	5A	0.978 (0.039)	-1.322 (0.043)	0.000 (0.000)			
2R013206	R6	6	0.781 (0.056)	0.116 (0.075)	0.214 (0.028)			
2R013207	R6	7A	0.717 (0.029)	-0.836 (0.042)	0.000 (0.000)			
2R013208	R6	8	1.856 (0.106)	-0.091 (0.033)	0.272 (0.019)			
2R013209	R6	9A	0.775 (0.036)	1.064 (0.042)	0.000 (0.000)			
2R013210	R6	10	1.360 (0.236)	2.338 (0.187)	0.311 (0.009)			
2R013211	R6	11A	0.414 (0.028)	1.221 (0.082)	0.000 (0.000)			
2R013212	R6	12A	0.549 (0.017)	1.904 (0.034)	0.000 (0.000)	2.069 (0.042)	-0.541 (0.070)	-1.527 (0.211)
2R012701	R7	1	1.063 (0.069)	-1.438 (0.103)	0.346 (0.045)			
2R012702	R7	2A	0.598 (0.030)	-2.244 (0.097)	0.000 (0.000)			
2R012707	R7	3	1.577 (0.093)	-1.073 (0.056)	0.286 (0.032)			
2R012704	R7	4	1.084 (0.055)	-0.486 (0.052)	0.170 (0.025)			
2R012705	R7	5A	0.871 (0.031)	-0.010 (0.025)	0.000 (0.000)			
2R012706	R7	6A	0.409 (0.023)	0.486 (0.052)	0.000 (0.000)			
2R012711	R7	7	0.957 (0.053)	-0.441 (0.063)	0.185 (0.028)			
2R012703	R7	8A	0.949 (0.033)	-0.428 (0.027)	0.000 (0.000)			
2R012709	R7	9	0.755 (0.059)	-0.712 (0.135)	0.365 (0.043)			
2R012708	R7	10A	0.579 (0.016)	0.520 (0.023)	0.000 (0.000)	1.579 (0.049)	0.354 (0.040)	-1.934 (0.071)
2R012710	R7	11A	0.798 (0.031)	-0.603 (0.034)	0.000 (0.000)			
2R012712	R7	12	0.729 (0.061)	0.163 (0.093)	0.259 (0.031)			
2R012713	R7	13A	1.191 (0.045)	-0.647 (0.028)	0.000 (0.000)			
2R017201	R8	1	0.851 (0.060)	-0.697 (0.108)	0.334 (0.039)			
2R017202	R8	2A	0.480 (0.018)	-0.518 (0.033)	0.000 (0.000)	0.715 (0.057)	-0.715 (0.046)	
2R017203	R8	3	1.109 (0.077)	-0.153 (0.067)	0.347 (0.027)			
2R017204	R8	4A	0.735 (0.021)	0.659 (0.024)	0.000 (0.000)	1.086 (0.031)	-1.086 (0.044)	
2R017205	R8	5A	0.596 (0.015)	0.464 (0.024)	0.000 (0.000)	2.107 (0.050)	-0.329 (0.040)	-1.778 (0.073)
2R017206	R8	6	0.956 (0.098)	0.866 (0.061)	0.332 (0.020)			
2R017207	R8	7A	0.315 (0.016)	1.733 (0.074)	0.000 (0.000)	1.097 (0.068)	-1.097 (0.110)	
2R017208	R8	8A	0.607 (0.017)	1.197 (0.032)	0.000 (0.000)	1.728 (0.037)	-1.728 (0.076)	
2R017209	R8	9	0.957 (0.071)	0.208 (0.064)	0.265 (0.025)			

Table E-18 (continued)
IRT Parameters for the 1998 State Reading Items
Reading to Gain Information Scale, Grade 8

NAEP ID	Block	Item	a_j (s.e.)	b_j (s.e.)	c_j (s.e.)	d_{j1} (s.e.)	d_{j2} (s.e.)	d_{j3} (s.e.)
2R017210	R8	10A	0.424 (0.035)	2.527 (0.186)	0.000 (0.000)			
2R016201	R13	1A	0.551 (0.028)	-3.547 (0.134)	0.000 (0.000)	0.096 (0.206)	-0.096 (0.079)	
2R016202	R13	2A	0.581 (0.013)	-0.928 (0.042)	0.000 (0.000)	2.836 (0.093)	-2.836 (0.046)	
2R016203	R13	3	0.539 (0.049)	-0.646 (0.191)	0.344 (0.048)			
2R016204	R13	4A	0.531 (0.011)	-0.415 (0.037)	0.000 (0.000)	3.169 (0.124)	0.887 (0.045)	-4.056 (0.092)
2R016205	R13	5A	0.585 (0.015)	0.699 (0.031)	0.000 (0.000)	1.655 (0.040)	-1.655 (0.057)	
2R016206	R13	6	1.057 (0.066)	-0.831 (0.082)	0.326 (0.035)			
2R016207	R13	7A	0.546 (0.019)	0.313 (0.025)	0.000 (0.000)	0.157 (0.044)	-0.157 (0.047)	
2R016208	R13	8	0.997 (0.065)	-0.898 (0.095)	0.354 (0.038)			
2R016209	R13	9	1.396 (0.076)	-0.694 (0.051)	0.253 (0.027)			
2R016210	R13	10A	0.664 (0.018)	0.810 (0.022)	0.000 (0.000)	1.787 (0.041)	0.249 (0.036)	-2.036 (0.086)
2R016211	R13	11A	0.407 (0.014)	-2.439 (0.047)	0.000 (0.000)	2.597 (0.158)	-2.597 (0.049)	
2R016212	R13	12A	0.394 (0.017)	-0.101 (0.034)	0.000 (0.000)	0.284 (0.063)	-0.284 (0.059)	
2R016213	R13	13A	0.425 (0.019)	-2.107 (0.069)	0.000 (0.000)	1.149 (0.115)	-1.149 (0.051)	

Table E-19
IRT Parameters for the 1998 State Reading Items
Reading to Perform a Task Scale, Grade 8

NAEP ID	Block	Item	a _j (s.e.)	b _j (s.e.)	c _j (s.e.)	d _{j1} (s.e.)	d _{j2} (s.e.)	d _{j3} (s.e.)
3R016101	R9	1A	0.609 (0.020)	-0.112 (0.024)	0.000 (0.000)	0.236 (0.043)	-0.236 (0.040)	
3R016102	R9	2	1.024 (0.066)	-0.783 (0.085)	0.315 (0.035)			
3R016103	R9	3	1.172 (0.081)	0.335 (0.048)	0.283 (0.020)			
3R016104	R9	4A	0.740 (0.036)	-2.166 (0.081)	0.000 (0.000)			
3R016105	R9	5	1.368 (0.078)	-0.442 (0.049)	0.264 (0.025)			
3R016106	R9	6	0.847 (0.077)	1.123 (0.055)	0.161 (0.017)			
3R016107	R9	7A	0.715 (0.020)	-0.187 (0.020)	0.000 (0.000)	-0.218 (0.041)	0.218 (0.038)	
3R016108	R9	8A	0.354 (0.011)	-0.127 (0.034)	0.000 (0.000)	-1.233 (0.082)	1.233 (0.079)	
3R016109	R9	9A	0.416 (0.012)	0.850 (0.042)	0.000 (0.000)	1.909 (0.055)	-1.909 (0.078)	
3R013401	R10	1	1.459 (0.091)	0.319 (0.036)	0.260 (0.017)			
3R013402	R10	2A	0.812 (0.031)	0.073 (0.027)	0.000 (0.000)			
3R013403	R10	3A	0.465 (0.011)	0.485 (0.026)	0.000 (0.000)	-2.456 (0.093)	2.456 (0.095)	
3R013404	R10	4	0.936 (0.072)	-0.101 (0.084)	0.367 (0.030)			
3R013405	R10	5A	0.896 (0.033)	-0.341 (0.027)	0.000 (0.000)			
3R013406	R10	6A	0.622 (0.028)	0.402 (0.035)	0.000 (0.000)			
3R013407	R10	7A	0.589 (0.026)	-0.627 (0.044)	0.000 (0.000)			
3R013408	R10	8	0.637 (0.059)	0.239 (0.112)	0.271 (0.034)			
3R013409	R10	9A	0.686 (0.029)	-0.370 (0.035)	0.000 (0.000)			
3R013410	R10	10	0.666 (0.053)	-0.585 (0.138)	0.291 (0.043)			
3R013411	R10	11A	0.464 (0.026)	-1.301 (0.080)	0.000 (0.000)			
3R013412	R10	12A	0.388 (0.028)	-2.743 (0.188)	0.000 (0.000)			
3R013001	R11	1A	0.909 (0.035)	-1.154 (0.041)	0.000 (0.000)			
3R013002	R11	2	1.480 (0.076)	-0.431 (0.039)	0.190 (0.022)			
3R013003	R11	3A	0.899 (0.033)	-0.547 (0.030)	0.000 (0.000)			
3R013004	R11	4A	0.378 (0.017)	0.625 (0.039)	0.000 (0.000)	0.357 (0.060)	-0.357 (0.069)	
3R013005	R11	5A	0.876 (0.035)	-1.281 (0.046)	0.000 (0.000)			
3R013006	R11	6	0.955 (0.059)	-0.381 (0.071)	0.242 (0.030)			
3R013007	R11	7A	0.599 (0.029)	-1.580 (0.073)	0.000 (0.000)			
3R013008	R11	8A	0.780 (0.031)	0.095 (0.029)	0.000 (0.000)			
3R013009	R11	9A	0.891 (0.037)	-1.165 (0.045)	0.000 (0.000)			
3R013010	R11	10A	0.749 (0.033)	-1.104 (0.050)	0.000 (0.000)			
3R013011	R11	11A	0.393 (0.024)	-0.358 (0.060)	0.000 (0.000)			
3R013012	R11	12	0.887 (0.064)	-0.084 (0.078)	0.237 (0.031)			

Table E-20
IRT Parameters for the 1998 State Writing Items, Grade 8

NAEP ID	Block	Item	a_j (s.e.)		b_j (s.e.)		d_{j1} (s.e.)		d_{j2} (s.e.)		d_{j3} (s.e.)		d_{j4} (s.e.)		d_{j5} (s.e.)	
1W006002	W3	1	0.808	(0.026)	-0.283	(0.021)	2.946	(0.160)	1.049	(0.056)	-0.163	(0.043)	-1.473	(0.052)	-2.359	(0.089)
1W006102	W4	1	0.970	(0.030)	-0.360	(0.019)	3.399	(0.216)	0.907	(0.047)	-0.175	(0.035)	-1.645	(0.045)	-2.487	(0.082)
1W006202	W5	1	0.869	(0.027)	-0.061	(0.021)	3.173	(0.151)	1.240	(0.048)	-0.365	(0.039)	-1.468	(0.055)	-2.580	(0.112)
1W006302	W6	1	0.856	(0.026)	-0.049	(0.019)	1.333	(0.088)	1.672	(0.069)	0.482	(0.042)	-0.957	(0.044)	-2.529	(0.092)
1W006402	W7	1	0.940	(0.028)	-0.341	(0.018)	1.877	(0.091)	1.132	(0.055)	0.280	(0.038)	-1.244	(0.041)	-2.045	(0.064)
1W006502	W8	1	0.884	(0.026)	-0.487	(0.022)	2.771	(0.205)	1.417	(0.071)	0.358	(0.040)	-1.465	(0.041)	-3.080	(0.097)
1W006602	W9	1	1.091	(0.032)	-0.367	(0.018)	2.599	(0.127)	0.954	(0.048)	0.278	(0.034)	-1.593	(0.039)	-2.238	(0.067)
1W006802	W11	1	0.996	(0.029)	-0.177	(0.019)	2.516	(0.117)	1.395	(0.051)	0.048	(0.033)	-1.694	(0.047)	-2.265	(0.086)
1W006902	W12	1	1.065	(0.031)	-0.091	(0.020)	2.603	(0.116)	1.452	(0.050)	0.230	(0.032)	-1.724	(0.047)	-2.561	(0.101)
1W007002	W13	1	1.066	(0.031)	-0.191	(0.020)	2.522	(0.123)	1.492	(0.054)	0.283	(0.033)	-1.632	(0.042)	-2.665	(0.095)
1W007102	W14	1	0.910	(0.025)	-0.138	(0.021)	2.164	(0.118)	1.643	(0.066)	0.608	(0.038)	-1.716	(0.047)	-2.698	(0.107)
1W007202	W15	1	1.061	(0.031)	0.245	(0.019)	2.447	(0.086)	1.567	(0.043)	-0.113	(0.031)	-1.728	(0.058)	-2.174	(0.117)
1W007302	W16	1	0.886	(0.026)	0.148	(0.022)	2.374	(0.096)	1.573	(0.054)	0.367	(0.037)	-2.197	(0.071)	-2.117	(0.131)
1W007402	W17	1	0.940	(0.029)	-0.075	(0.019)	1.884	(0.090)	1.404	(0.056)	0.268	(0.037)	-1.295	(0.045)	-2.261	(0.083)
1W007602	W19	1	1.211	(0.037)	-0.014	(0.016)	2.286	(0.074)	1.280	(0.038)	-0.120	(0.029)	-1.298	(0.040)	-2.148	(0.075)
1W007702	W20	1	1.260	(0.038)	0.236	(0.018)	2.536	(0.080)	1.515	(0.038)	0.135	(0.028)	-1.584	(0.048)	-2.602	(0.129)
1W007802	W21	1	1.238	(0.038)	0.010	(0.016)	1.631	(0.064)	1.423	(0.045)	0.249	(0.029)	-1.170	(0.037)	-2.132	(0.070)
1W007902	W22	1	0.776	(0.022)	0.044	(0.024)	2.674	(0.129)	1.681	(0.060)	0.076	(0.040)	-2.285	(0.076)	-2.145	(0.136)
1W008002	W23	1	1.109	(0.033)	0.047	(0.019)	2.898	(0.120)	1.426	(0.044)	0.152	(0.031)	-1.584	(0.046)	-2.891	(0.133)
1W008102	W24	1	0.981	(0.030)	0.050	(0.018)	1.951	(0.076)	1.384	(0.049)	0.243	(0.035)	-1.482	(0.049)	-2.096	(0.089)