Technical Report 60 Characteristics of Low Performing Special Education and Non-special Education



In collaboration with:

Council of Chief State School Officers (CCSSO) National Association of State Directors of Special Education (NASDSE)

Students on Large-scale Assessments

Supported by:

U.S. Office of Special Education Programs

Technical Report 60

Characteristics of Low Performing Special Education and Non-special Education Students on Large-scale Assessments

Yi-Chen Wu • Kristin K. Liu • Martha L. Thurlow • Sheryl S. Lazarus • Jason Altman • Elizabeth Christian

March 2012

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Wu, Y. C., Liu, K. K., Thurlow, M. L., Lazarus, S. S., Altman, J., & Christian, E. (2012). *Characteristics of low performing special education and non-special education students on large-scale assessments* (Technical Report 60). Minneapolis, MN: University of Minnesota, National Center on Educational Outcomes.



The Center is supported through a Cooperative Agreement (#H326G050007) with the Research to Practice Division, Office of Special Education Programs, U.S. Department of Education. The Center is affiliated with the Institute on Community Integration at the College of Education and Human Development, University of Minnesota. This report was funded with partial support from the Multi-state GSEG Toward a Defensible AA-MAS. This project is supported by General Supervision Enhancement Grants (#H373X070021) from the Research to Practice Division, Office of Special Education Programs, U.S. Department of Education. Opinions expressed herein do not necessarily reflect those of the U.S. Department of Education or Offices within it.



NCEO Core Staff

Martha L. Thurlow, Director Sheryl S. Lazarus
Deb A. Albus Kristi K. Liu
Manuel T. Barrera Ross E. Moen
Laurene L. Christensen Michael L. Moore
Kamarrie Davis Rachel F. Quenemoen

Linda Goldstone Rebekah Rieke
James Hatten Christopher Rogers

Christopher J. Johnstone Miong Vang Jane L. Krentz Yi-Chen Wu

National Center on Educational Outcomes University of Minnesota • 207 Pattee Hall 150 Pillsbury Dr. SE • Minneapolis, MN 55455 Phone 612/624-8561 • Fax 612/624-0879 http://www.nceo.info

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Executive Summary

Federal legislation requires that all students participate in state assessments for accountability purposes. Most students with disabilities participate in the general assessment, with or without accommodations. Several states offer an additional assessment option for students with disabilities—the alternate assessment based on modified achievement standards (AA-MAS). In order to take the AA-MAS, students must have an Individualized Education Program (IEP) containing goals aligned with grade level content. Students must also be able to make significant progress, but not be expected to reach grade-level proficiency in the year covered by their IEP.

States that choose to offer an AA-MAS must also develop participation guidelines (subject to federal approval) that IEP teams can use to determine which special education students may participate in the assessment. Previous NCEO reports have demonstrated that the participation guidelines outlined by states with an AA-MAS assessment option differ. Many states target students with disabilities who score at the lowest levels on the regular state assessment as potential AA-MAS participants. Researchers who have examined the characteristics of low-performing students have concluded that low performing students are more often male, from racial or ethnic minority groups, receiving free or reduced price lunch, and receiving special education services. However, many students with low scores on standards-based assessments do not have disabilities.

The purpose of the current report is to investigate whether the characteristics of the lowest performing students in special education differ from the characteristics of the lowest performing students who are not in special education. The investigation in this report used data from low performing students in four states: Alabama, Hawaii, South Dakota, and Wisconsin. Achievement data were disaggregated by three demographic characteristics (gender, race/ethnicity, and income status) for students taking the reading or mathematics assessments in fifth or eighth grade. In addition, we tracked data for each student over three years to identify how students moved in and out of the low performing category (low performing was defined as the tenth percentile and below for this report) across time.

Results revealed that the demographic characteristics of students who performed at the lowest levels on the state assessment over several years were similar regardless of whether students received special education services. In both groups, the lowest performers were more likely to be students of racial or ethnic minority, and students from low-income backgrounds. However, students receiving special education services were more likely than their non-special education peers to score below the 10th percentile for several years in a row. Among students receiving special education, those from racial/ethnic minority backgrounds and low-income families were more likely than their peers to score at the lowest levels on state assessments for several consecutive years. These results suggest widespread issues with low achievement in minority and low income groups that states must address when assessing students for accountability purposes.

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Overview

Federal laws require states to include all students, including students in special education, in state assessments used for accountability purposes. Most students with disabilities participate in the general assessment, with or without accommodations (Altman, Thurlow, & Vang, 2010). Students with significant cognitive disabilities may participate in alternate assessments based on alternate achievement standards (AA-AAS) (Quenemoen, 2008). Several states offer an additional assessment option—alternate assessments based on modified achievement standards (AA-MAS) (Albus, Lazarus, Thurlow, & Cormier, 2009; Cortiella, 2007; U.S. Department of Education, 2007).

According to federal regulations, students who participate in an AA-MAS must have an Individualized Education Program (IEP). They also must be able to make significant progress, but not be expected to reach grade-level proficiency within the year covered by their IEP. The regulations require that students who participate in an AA-MAS have access to grade level content and they may be from any disability category (U.S. Department of Education, 2007). The AA-MAS is an optional assessment and many states do not offer it.

Federal regulations require states that offer an AA-MAS to develop participation guidelines (subject to federal approval) that IEP teams can use to determine which special education students may participate in this option. Research has shown that state participation policies differ, and that most states include previous poor performance on state assessments or multiple measures in their participation guidelines for AA-MAS (Lazarus, Hodgson, Price, & Thurlow, 2011).

In an effort to identify who might be potential AA-MAS participants if they were selected from among the lowest performing students, we embarked on a detailed longitudinal analysis of four states' assessment data. The analysis used three years of demographic and performance data. The four states—Alabama, Hawaii, South Dakota, and Wisconsin—are all members of a state consortium that studies ways to identify students who are eligible for an AA-MAS. Some of the analyses shown in this report were included in a previous NCEO Brief (Lazarus, Wu, Altman, & Thurlow, 2010). However, that brief examined the characteristics of all low performing students. It did not disaggregate the data reported to show the characteristics of special education students who may be eligible to take an AA-MAS.

This report examines the characteristics of low performing special education students. This approach is consistent with federal regulations which indicate that students must have an IEP to be eligible to take the AA-MAS. To provide additional context, we compared the data on low performing special education students to those of low performing non-special education students. For this analysis, **low performing** (LP) students were defined as students who scored at the 10th percentile or below on the statewide assessment in any one of the three years of

data we examined. Students who scored at the 10th percentile or below for all three years were identified as **persistently low performing** (PLP) students. Three research questions guide the investigations presented in this report:

- 1. Are the demographic characteristics of persistently low performing special education students different from the characteristics of persistently low performing students who are not in special education?
- 2. Are special education students who were low performing in the first year more or less likely to move out of the low performing group than non-special education students? Is there any variation in movement by content area (reading vs. math)?
- 3. Are low performing special education students in some demographic subgroups more or less likely to move out of the low performing group than their low performing peers who are not in special education?

Related Research =

Since the AA-MAS assessment option was made available to states in 2007, several studies have been conducted to identify the population of students who might qualify to take the AA-MAS. States have found this to be a difficult task because many students with low scores on standards-based assessments do not have identified disabilities (Lazarus & Quenemoen, 2011; Marion, Gong, & Simpson, 2006).

Some of the earliest research on the characteristics of low-performing students was conducted in Colorado. In an effort to learn more about the characteristics of students "in the gap," a study committee in Colorado conducted research focusing on students with IEPs who scored at the lowest levels on the general state assessment, but who were not eligible for the state's alternate assessment for students with significant cognitive disabilities (HB 05-1246 Study Committee, 2005). The study committee found that students "in the gap" were more often American Indian, African American, or Hispanic than "non-gap" students. Male students outnumbered female students "in the gap" by nearly two to one. The committee noted that there was a small percentage of students who scored at the lowest levels on the state assessment, and did not have an IEP. However, these students were mentioned only briefly in the report and their demographic characteristics were not examined.

The characteristics of low-performing students have been studied in other states as well. Hess, McDivitt, and Fincher (2008) examined research conducted in Georgia on the characteristics of students who might qualify for an AA-MAS. In examining the population of students within the state who were "persistently low performing" (defined as those students scoring at the low-

est performance level on the regular state assessment for three consecutive years), it was found that these students were more often African American, male, receiving free and reduced lunch, and often had an IEP and/or mild intellectual disabilities.

Research on the characteristics of low performers in the New England Compact states included teacher judgments about this population. It was found that though the group of lowest performers included students with and without disabilities, more than half of the group had IEPs. Additionally, students who performed poorly on standardized tests but received higher teacher judgments were far less likely to have an IEP (Bechard & Godin, 2007). Lazarus and Quenemoen (2011) concluded that the results of these related studies (e.g., Colorado, Georgia, New England Compact states) indicate that the lowest performing students are often from historically underserved populations such as students of ethnic minority background, students of low socioeconomic status, or students in special education.

The Center on Education Policy has issued a series of reports in which they investigated achievement differences among subgroups on state tests. The multi-state results have shown that females tend to outperform males in reading and that the gap is not narrowing (Chudowsky & Chudowsky, 2010). Additional analyses focused on differences between the performance of students from different racial/ethnic backgrounds, students with low socio-economic status (Chudowsky, Chudowsky & Kober, 2009), and students in special education (Chudowsky & Chudowsky, 2009). Performance gains were seen in each of these subgroups at all achievement levels. Achievement gaps narrowed for Latino and African American students to a greater extent than for students from other racial/ethnic groups (Kober, Chudowsky, & Chudowsky, 2010). The authors note that test data for students in special education were imprecise, so interpretations of these data provided only a rough indicator of the achievement trends of these students. Notably, none of these analyses examined students with more than one of these characteristics (e.g., low-income students in special education).

A number of National Center on Educational Outcomes (NCEO) investigations of assessment data reported on state websites showed that students in special education score proficient at different rates across states and that achievement gaps between this population and students without disabilities also vary extensively between states (Albus, Thurlow, & Bremer, 2009; Thurlow, Bremer, & Albus, 2008; VanGetson & Thurlow, 2007). Also, an analysis of assessment performance of students in special education within states compared to the state targets for this subgroup showed that states were making gains but were challenged to keep up with the ambitious targets that they had set (Altman, Rogers, Bremer, & Thurlow, 2010).

These findings raise the question of whether the characteristics of the lowest performing students in special education differ from the characteristics of the lowest performing non-special education students. This question will be investigated in depth in this report. This analysis is also

distinctive in its investigation of the movement of students in various demographic subgroups across performance levels.

Method =

Procedures

Preparation of Data Sets

The data for the current study are based on students who took the regular statewide assessment in reading or mathematics and had valid scores for three consecutive years. In Alabama, Hawaii, and South Dakota, we selected students who were in grades 5 and 8 during the 2006-07 school year and then collected assessment data for these same students in the previous two years as well (2005-2006 and 2004-2005). In Wisconsin, we followed a similar procedure beginning with fifth and eighth graders in the 2007-2008 school year and following their scores backward for two years (2006-2007 and 2005-2006).

For each state, the older test scores were merged with the scores from the most recent year in order to examine student performance across time. Demographic information such as incomelevel, race/ethnicity, and gender were based on the characteristics in the most recent year of data.

Identifying Low-performing Students

For the purposes of this report, we identified fifth and eighth grade low performing students whose scale score on state reading or math assessments was at or below the tenth percentile. To make this determination, we examined the cumulative frequency distributions of scale scores for reading and math tests in each year of the available data. Any student who had a score less than or equal to the 10% cut point was classified as low performing for that particular assessment and year. For three years, we tracked the performance of all students who were identified as low performing in the first year of our data set. (For a table comparing the cut scores across states, see Appendix A, Table A1). Students who were not identified as low performing in the first year of three years of data collection were excluded from this analysis.

Defining Variables and Terms

All of the analyses in this report compare low performing non-special education students to low-performing special education students to determine whether there are demographic and performance differences in low performing students between these two groups. We perform the same analyses at grades five and eight and for reading and math assessments.

States' definitions of demographic variables vary considerably. In this report, we only selected the demographic variables available across most, or all, of the states. The research cited in the literature review section of this paper suggested that students who are low performing are more likely to be males, students of color, and low-income students (cf. HB 05-1246 Study Commit-

tee, 2005; Hess, McDivitt, & Fincher, 2008). For that reason we focused our analyses on these groups of students. For purposes of clarity we chose to use the terms "white" and "non-white" students for these analyses.

In other instances, we ran data using a variable from state databases as an indicator of a demographic characteristic but we chose not to use the data variable name in our discussions of tables and figures. For example, we used the term "Free/Reduced Lunch," representing students who are eligible for free or reduced price lunches at school, as indicator of students from low-income backgrounds. Our figures and tables present data for students who receive free or reduced lunch but our text explaining those figures refers to low-income students.

Identifying Movement Categories

Some of the analyses in this document examine whether students identified as low performing in year one of our data set moved out of the low performing group in subsequent years. To clearly communicate the results of these movement analyses we use the term "initially low performing" to mean students who were in the bottom 10th percentile the first year of our analyses, but not in the second, or third years. We use the term "persistently low performing" (PLP) to indicate students who were in the bottom 10th percentile all three years of our analyses.

Analyses

Descriptive analyses were performed to explore the characteristics of low performing students in special education and not in special education. We performed crosstabs to provide the information by selected demographic variables, and performance groups at grades five and eight and for reading and math assessments.

Participants

Table 1 shows the total number of non-special education and special education students in each state who had three years of test results for reading and math assessments. The grade levels listed in the table are the grades students were in during the final year of analysis.

Of the four states in this study, Wisconsin had the largest number of students with three years of data. For example, for fifth grade reading 45,467 non-special education students and 6,383 special education students are included in this analysis. South Dakota had the fewest students with three years of data. Of the 5th graders, 6,916 non-special education students had three years of reading assessment scores and 1,014 special education students had three years of reading scores. In each of the four states, the number of students with three years of data for the reading assessment is slightly different from in the math assessment.

Table 1. Number of Grade 5 and 8 Special Education and Non-Special Education Students with Three Years of Data on the State Reading and Math Assessments

		Alabama		Hawaii		South Da	akota	Wisconsin		
Grade	Subject	Non-SpEd	SpEd	Non-SpEd	SpEd	Non-SpEd SpEd		Non-SpEd	SpEd	
5	Reading	35706	3578	10377	1182	6916	1014	45467	6383	
	Math	35666	3579	10372	1179	6967	1028	45577	6551	
8	Reading	36410	3829	9954	1335	7793	893	48936	7140	
	Math	36335	3805	9950	1336	7794	893	48918	7155	

Note: The numbers in this table are based on school years 2004-05 through 2006-07 for Alabama, Hawaii, and South Dakota. The data for Wisconsin is based on school years 2005-06 through 2007-08.

Results =

Research Question 1: Are the demographic characteristics of persistently low performing special education students different from the characteristics of persistently low performing non-special education students?

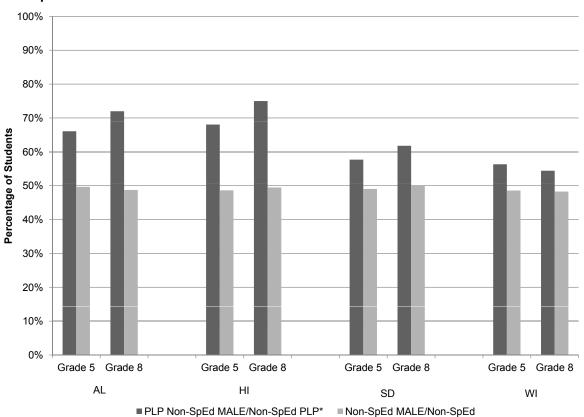
As the discussion of Figures 1 through 12 will highlight, the demographic characteristics of persistently low performing students in these four states are more complex than previous research findings have suggested. Findings for gender are mixed and do not show a consistent pattern across tests, across the persistently low performing versus total population of students, or across special education and non-special education students. There is, however, a clear pattern of a greater percentage of non-white and low income students in the persistently low performing groups, regardless of whether those students are in special education or not. The tendency for the persistently low-performing group to have a higher percentage of non-white students is magnified in the non-special education group on both the reading and math assessments. Similarly, our findings suggest that the increased percentage of low income students is magnified in the persistently low-performing non-special education group compared to the special education group.

Gender

Reading. To answer our first research question, we began by examining the gender of persistently low performing students (i.e., below the 10th percentile for three consecutive years) in both non-special education and special education. Figure 1 shows the percentage of males in the persistently low performing non-special education population on the reading test at fifth and eighth grade compared to the percentage of males in the total non-special education population in those same grades (see Appendix A, Table A2 for more detail). Looking at the data in this way allows us to see whether the proportion of males

in the persistently low performing non-special education group relates in some way to the proportion of males in the non-special education population. For example, in Alabama approximately 66% of the grade 5 persistently low performing non-special education students were male, compared with about 50% of the students in the total grade 5 non-special education population.

Figure 1. Percentage of Non-Special Education Grades 5 and 8 Males in the Persistently Low Performing Group on the State Reading Test Compared to the Percentage of Males Among all Non-Special Education Students



*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

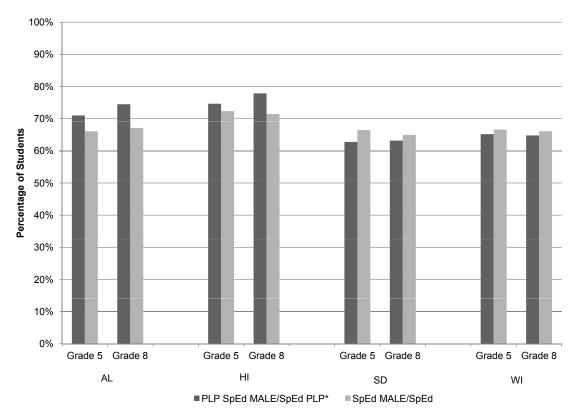
In Figure 1 we see that across states males represented approximately 50% of the total non-special education group taking the reading test (shown in the lighter bars). The percentage of males in the non-special education group (shown in the darker bars) was similar at fifth and eighth grade. The percentage of males in the persistently low performing non-special education group ranged from 54% in Wisconsin at grade 8 to 75% in Hawaii at grade 8 and did show small variations (10% or less) across grades (See Appendix A, Table A2 for more detail).

In all four states there was a larger percentage of males in the persistently low performing non-special education group compared to the total non-special education population taking the reading test. The size of these differences varied. In South Dakota for grade 5 and in Wisconsin

at both grades, the size of the difference was small (10% or less). In South Dakota for grade 8, and in Alabama and Hawaii at both grades, the size of the difference was large (more than 10%).

Figure 2 presents similar data to Figure 1 for the special education students. This figure shows, for example, that in Alabama 72% of the grade 5 persistently low performing special education students (darker bar) was male, compared with about 65% of the students in the total grade 5 special education population (lighter bar).

Figure 2. Percentage of Special Education Grades 5 and 8 Males in the Persistently Low Performing Group on the State Reading Test Compared to the Percentage of Males Among all Special Education Students



*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

Figure 2 indicates that males represented more than half of the overall special education population taking the reading test at fifth and eighth grades (lighter bars). The percentage of males in the special education population ranged from a low of 65% for South Dakota eighth graders to a high of 72% for Hawaii fifth graders (see Appendix A, Table A3 for detail). The percentage of males in the total special education population was fairly similar at grades five and eight for each state with only small (10% or less) variations evident. The percentage of males in the subgroup of persistently low performing special education students (darker bars) ranged from a

low of 63% in South Dakota at both grades to a high of 78% in Hawaii at grade 8. This percentage was similar at grades 5 and 8 with only small differences (10% or less).

The percentage of males varied in the persistently low performing special education student group (darker bars) compared to the total special education group (lighter bars). In two states, Alabama and Hawaii, there was a slightly higher percentage of males in the group of persistently low performing special education students than there was in the total group of special education students. In the other two states, South Dakota and Wisconsin, the percentage of males in the persistently low performing special education students was similar to the percentage of males in the total special education population. The size of these differences was small (10% or less)

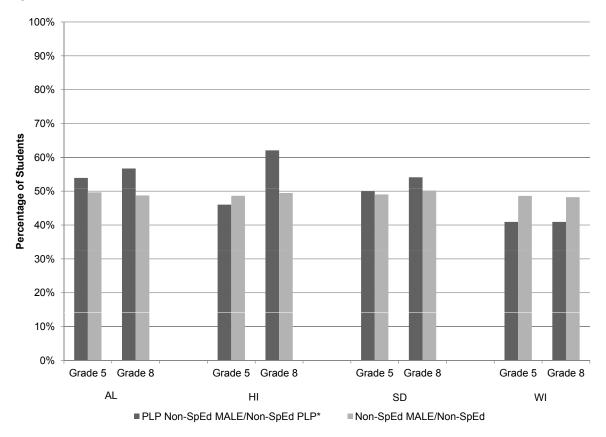
Math. Figures 3 and 4 examine mathematics data for the same states at the same grades. Figure 3 presents fifth and eighth grade non-special education data, while Figure 4 presents the special education data (see Appendix A, Tables A4 and A5 for more detail).

Figure 3 shows the percentage of males in the persistently low-performing non-special education population on the math test at fifth and eighth grade compared to the percentage of males in the total non-special education population in those same grades. For example, in Alabama approximately 50% of the students in the grade 5 non-special education group were male (shown by the lighter bar). In comparison, 54% of the grade 5 persistently low performing non-special education students (shown by the darker bar) were male.

Across the four states shown in Figure 3, males represented roughly half, 48% to 50%, of the fifth and eighth grade non-special education population taking the math test (lighter bars). In comparison, the percentage of males in the persistently low performing group of non-special education students (darker bars) ranged from a low of 41% in Wisconsin at both grades to a high of 62% in Hawaii at eighth grade. With the exception of Hawaii, the difference in the percentage of males across grades within a group was typically small (10% or less). Hawaii showed a large difference (more than 10%) from grade 5 to grade 8 in the percentage of males in the persistently low performing non-special education group.

There was no consistent pattern when we compared the percentage of males in the persistently low performing non-special education population (darker bars) to the percentage of males in the total non-special education population (lighter bars). Two states, Alabama and South Dakota, had a greater percentage of males in the persistently low performing non-special education group than in the entire non-special education population. In contrast, Wisconsin had a smaller percentage of males in the persistently low performing population than in the total non-special education population. In the remaining state, Hawaii, the pattern differed across grades. At fifth grade, the percentage of males was slightly smaller in the persistently low performing group in Hawaii than it was in the total non-special education group. In contrast, at eighth grade the

Figure 3. Percentage of Grades 5 and 8 Males in the Non-Special Education Persistently Low Performing Group on the State Math Test Compared to the Percentage of Males Among Non-Special Education Students



*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

percentage of males in the non-special education persistently low performing group was 13% greater than the percentage in the total non-special education population. Other than in Hawaii at eighth grade, most states in Figure 3 did not show a large difference (i.e. greater than 10%) in the percentage of males across grades in the same group.

Figure 4 provides the percentage of males in the persistently low performing special education group on the math test and in the total special education group. The data in this figure indicate that more than half (65% to 72%) of all special education students taking the math test were male (lighter bars). Similarly, more than half (55% to 69%) of persistently low performing special education students (darker bars) were male. Except for in Wisconsin at grade 5, there did not appear to be a sizeable difference (larger than 10%) in the percentage of males in either group across grade levels.

100% 90% 80% 70% Percentage of Students 60% 50% 40% 30% 20% 10% 0% Grade 5 Grade 8 Grade 5 Grade 8 Grade 5 Grade 8 Grade 5 Grade 8 AL WI SD

Figure 4. Percentage of Special Education Grades 5 and 8 Males in the Persistently Low Performing Group on the State Math Test Compared to the Percentage of Males Among all Special Education Students

*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

■ SpEd MALE/SpEd

■ PLP SpEd MALE/SpEd PLP*

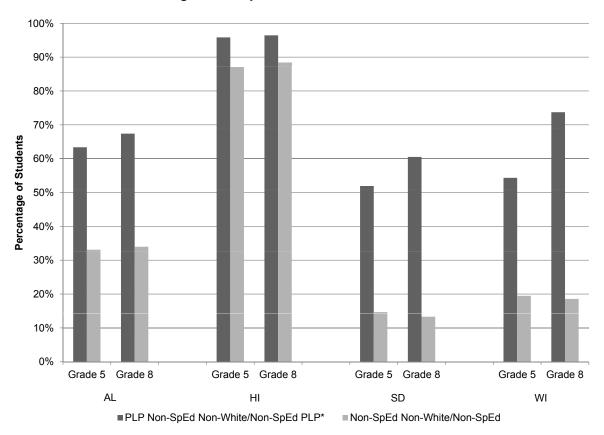
On the math tests the percentage of males in the persistently low performing special education group (darker bars) was either similar to, or smaller than, the percentage in the total special education population (lighter bars) on the math test. Alabama had roughly the same percentage of males in the two groups at each grade. In Wisconsin at grade 5 there was a large (greater than 10%) difference in the percentage of males in the two groups, with a smaller percentage in the persistently low performing special education group (55%) compared to the total population (67%). In the remaining states the difference in the percentage of males across groups within one grade level was small (10% or less).

Race/Ethnicity

Reading. Another demographic variable that we examined was the race/ethnicity of persistently low performing students. The data in these figures are labeled "white" and "non-white students." Figures five and six highlight these data from the reading assessments at

grades 5 and 8. Figure 5 presents the non-special education data and Figure 6 presents the special education data (see Appendix A, Tables A6 and A7 for more detail).

Figure 5. Percentage of Non-Special Education Grades 5 and 8 Non-White Students in the Persistently Low Performing Group on the State Reading Test Compared to the Percentage of Non-White Students Among all Non-Special Education Students



*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

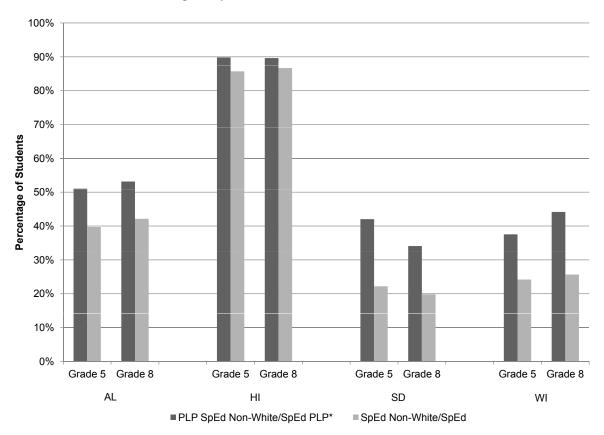
Figure 5 shows that there was a great deal of variability in the percentage of non-white students in both groups on the reading assessment. In the total non-special education group the percentage of students who were non-white ranged from a low of approximately 13% to 15% in South Dakota to a high of 87% to 88% in Hawaii (lighter bars). Differences across grades were minimal (10% or less). The range in the percentage of non-white students in the persistently low performing non-special education group was slightly smaller with a low of 52% non-white students at grade 5 in South Dakota to a high of 96% in Hawaii at both grades 5 and 8 (darker bars). There were some differences in the percentage of males across grades for this population, but the size of the differences varied from small (10% or less) in Alabama, Hawaii, and South Dakota, to large (greater than 10%) in Wisconsin. When examining Figure 5, we caution

the reader to keep in mind that small group sizes can affect the appearance of the magnitude of changes in student demographics.

Persistently low performing non-special education students in all states were more likely to be non-white compared to the total population of non-special education students. In Alabama, South Dakota, and Wisconsin there were substantially larger differences (30% or larger) in the percentage of non-white students in the persistently low performing group (darker bars) compared to the total non-special education group (lighter bars). In Hawaii there was a small (less than 10%) difference in the percentage of non-white students across the two groups.

Figure 6 provides a look at the percentage of non-white students in the persistently low performing group and in the total population of special education students (see Appendix A, Table A7 for more detail). Figure 6 indicates that the amount of racial and ethnic diversity varied considerably in the total special education population (lighter bars) and the persistently low performing special education group (darker bars) of the four project states. The percentage of non-white students in the total special education population at grades 5 and 8 (lighter bars) ranged from

Figure 6. Percentage of Special Education Grades 5 and 8 Non-White Students in the Persistently Low Performing Group on the State Reading Test Compared to the Percentage of Non-White Students Among all Special Education Students



*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

roughly 20% in South Dakota at grade 8 to 87% in Hawaii. This range is similar to the range in the percentage of non-white non-special education students taking the reading test (See Figure 5). In the persistently low performing special education group (darker bars) the percentage of males ranged from 34% in South Dakota at grade 8 to 90% in Hawaii at grade 5.

Across states, the percentage of non-white students in the persistently low performing special education group was consistently higher than the percentage of non-white students in the total special education population. In some states such as Hawaii, the size of this difference was relatively small (less than 10%) and in others such as South Dakota it was relatively large (more than 10%). Again, we caution the reader to keep in mind that the size of the total student population and state demographics play a role in the size of this difference.

Comparing bars across grade levels, the percentages in Figure 6 do not highlight any sizeable differences (e.g., 10% or above) between fifth and eighth grade in the percentage of non-white students in the persistently low performing special education students on the state reading assessment.

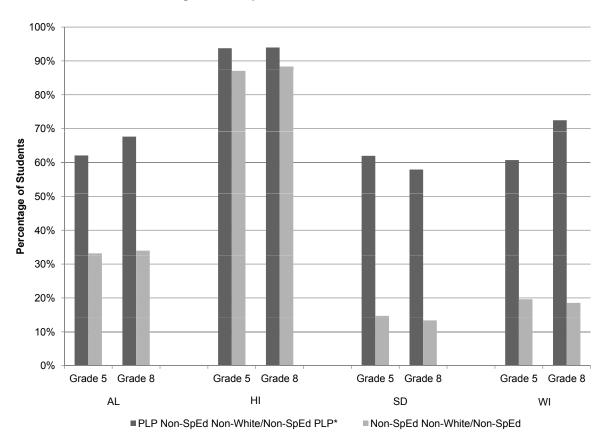
Math. Figures 7 and 8 present similar data to Figures 5 and 6 but they show data for math instead of reading. Figure 7 includes the non-special education data and Figure 8 includes the special education data (see Appendix A, Tables A8 and A9 for more detail).

Figure 7 shows that there was a great deal of variability across states in the percentage of non-white students in the non-special education group taking the math test. The percentage of non-white students in the total non-special education population (lighter bars) ranged from a low of 13% to 15% in South Dakota to a high of 87% to 88% in Hawaii. The percentage of non-white students in the persistently low performing non-special education group (darker bars) ranged from 58% in South Dakota at grade 8 to about 94% in Hawaii at both grades.

In each state, the percentage of non-white students in the persistently low performing non-special education group (darker bars) was greater than the percentage in the total non-special education population at the same grade. In Alabama, South Dakota, and Wisconsin the size of this difference was quite large (approximately 30%). In Hawaii the difference between the percentages of non-white students in the two groups was fairly small (less than 10%). As with previous figures, the size of these differences should be interpreted cautiously because it relates to the size of the student population in each state and to that state's overall student demographics.

Except for Wisconsin, there were only small differences (<10%) across grades in the percentage of non-white non-special education students who were persistently low performing on the math test.

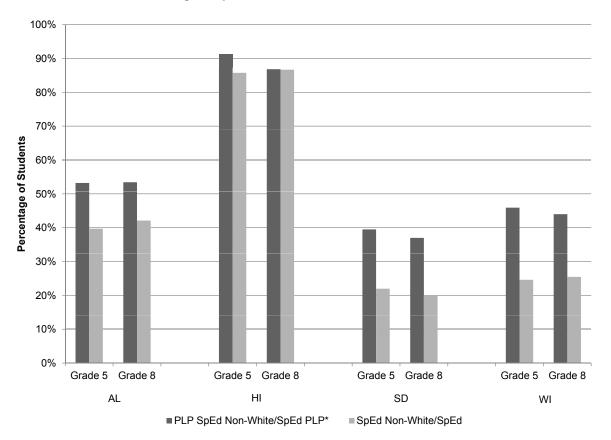
Figure 7. Percentage of Non-Special Education Grades 5 and 8 Non-White Students in the Persistently Low Performing Group on the State Math Test Compared to the Percentage of Non-White Students Among all Non-Special Education Students



*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

Figure 8 shows similar data for the fifth and eighth grade special education population on the math test. As shown in this figure, the percentage of non-white students in the total special education population taking the math test (lighter bars) varied a great deal across the four states. The range in the percentage of non-white special education students stretched from a low of 37% in South Dakota at grade eight to a high of 86% in Hawaii at grade 8. The percentage of non-white students in the persistently low performing group of special education students was also extremely variable. South Dakota, with 37% at grade 8, had the smallest percentage of non-white persistently low performers. Hawaii, with approximately 91% at grade 5, had the largest percentage of non-white persistently low performers in special education. The substantial number of non-white students in special education in Hawaii reflects the overall diversity of the state's total student population.

Figure 8. Percentage of Special Education Grades 5 and 8 Non-White Students in the Persistently Low Performing Group on the State Math Test Compared to the Percentage of Non-White Students Among all Special Education Students



*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

For most states there is a general pattern of a larger percentage of non-white students in the persistently low performing special education population (darker bar) compared to the total special education population (lighter bar) on the math test. With the variations in the overall degree of student diversity the size of this difference fluctuated. There was no difference in the percentage of non-white students in the two groups for Hawaii's eighth grade. A small difference (less than 10%) existed for Hawaii's fifth grade. In the remaining three states there were large (greater than 10%) differences between the percentage of non-white students in the persistently low performing special education group and in the total population of special education students.

There was a small difference (10%) across grade levels in the percentage of non-white special education and persistently low performing special education students.

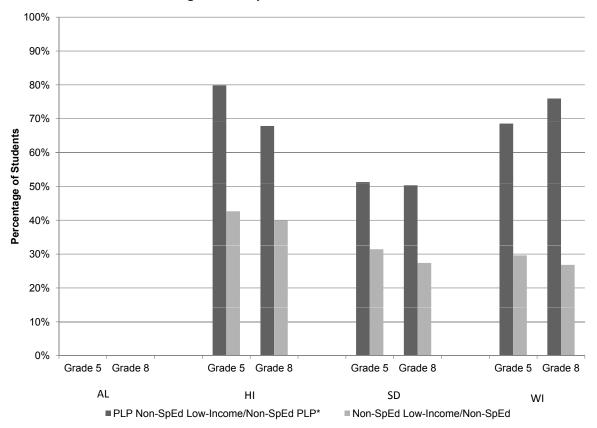
Low-income Background

Reading. The final student characteristic that we investigated in our analyses was income level. Figures 9 and 10 present the percentages of low-income students in the persistently low

performing and total populations of special education and non-special education students. The data variable used for these analyses was the percent of students receiving free or reduced lunch at school. Students receive free or reduced lunch at school on the basis of their family's income level. Alabama did not have data on free or reduced lunch status in the state database. Therefore, the column for Alabama is left blank in the figures in this section. Figure 9 presents the non-special education data at grades 5 and 8, and Figure 10 presents the special education data at grades 5 and 8 (see Appendix A, Tables A10 and A11 for more detail).

In Figure 9 the percentage of low-income students in the non-special education population (lighter bars) ranged from 27% for South Dakota and Wisconsin eighth graders to 43% for Hawaii's fifth graders (lighter bars). In the persistently low performing non-special education group (darker bars) the percentage ranged from 50% in South Dakota at eighth grade to 80% in Hawaii at fifth grade. For the most part, differences across grades within either group were small (10% or less) except in Hawaii where there were 12% more low income persistently low performing students in fifth grade compared to eighth grade (i.e., a large difference).

Figure 9. Percentage of Non-Special Education Grades 5 and 8 Low-Income Students in the Persistently Low Performing Group on the State Reading Test Compared to the Percentage of Low-income Students Among all Non-Special Education Students

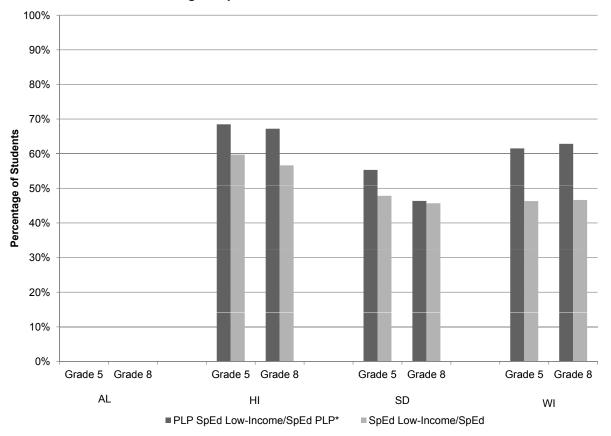


*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

In the figure we can see a consistent pattern of higher percentages of low-income students in the persistently low performing non-special education population (darker bars) compared to the total non-special education population (lighter bars). The differences in the percentage of low income students across the two groups were sizeable (greater than 20%) for the three states with data.

Figure 10 presents the data for fifth and eighth grade special education students on the reading assessment. There were varying percentages of low income students in the special education population overall and in the persistently low performing special education group. Low income students represent slightly less than half (46% to 48%) of the total special education population (lighter bars) in South Dakota and Wisconsin, but more than half of the population (57% to 60%) in Hawaii. In the persistently low performing special education group (darker bars) in South Dakota, low income students made up about half (46% and 55%) of the students while in both Wisconsin and Hawaii they made up greater than 60% of the group. Differences across grade levels in the percentage of low-income persistently low performing special education students were minimal (10% or less) and represented some increases and some decreases.

Figure 10. Percentage of Special Education Grades 5 and 8 Low-Income Students in the Persistently Low Performing Group on the State Reading Test Compared to the Percentage of Low-Income Students Among all Special Education Students

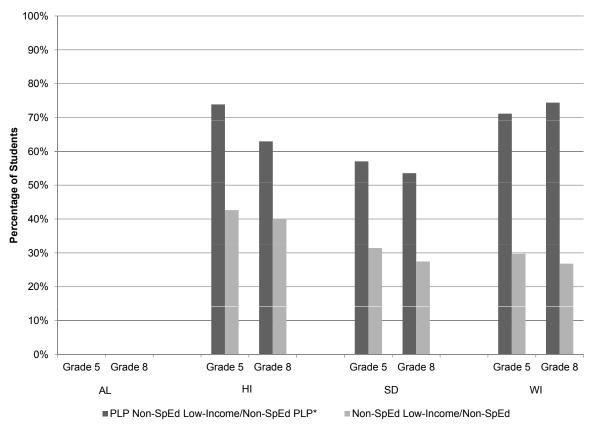


*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

In all three states with income data, there was a greater percentage of low income students in the persistently low performing special education group compared to the total special education population. However, the magnitude of the difference varied. In Wisconsin the size of the difference was large (greater than 10%) while in the other two states, South Dakota and Hawaii, it was small (10% or less).

Math. Figures 11 and 12 contain graphs that show the percentages of low-income students in the persistently low performing student groups on the state math test. Figure 11 shows the non-special education group, and Figure 12 shows the special education group (see Appendix A, Tables A12 and A13 for more detail).

Figure 11. Percentage of Non-Special Education Grades 5 and 8 Low-Income Students in the Persistently Low Performing Group on the State Math Test Compared to the Percentage of Low-Income Students Among all Non-Special Education Students



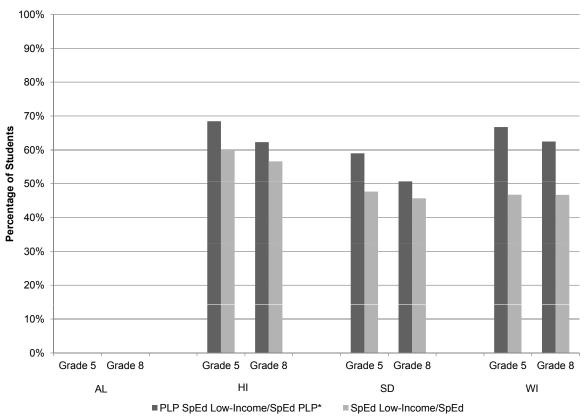
*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

Figure 11 highlights the varying percentages of low income students in the total non-special education and persistently low performing non-special education groups on the math test. The percentage of low income students in the total population (lighter bars) ranged from 27% for South Dakota and Wisconsin eighth graders, to 43% for Hawaii fifth graders. In comparison, the percentage of low income students in the subgroup of persistently low performers (darker bars) ranged from 54% in South Dakota at eighth grade to 74% in Hawaii at fifth grade and Wisconsin at eighth grade. Differences within a group across grades were typically small (10% or less) except in Hawaii where there was a large difference (greater than 10%) with fewer low income students in the persistently low performing group at grade 8 compared to grade 5.

In each of the three states with data on family income, the percentage of low income students in the persistently low performing non-special education group was substantially higher, 26% to 47% more, than the percentage of low-income non-special education students overall.

Figure 12 shows data for all special education students and persistently low performing special education students taking the state math test at grades 5 and 8.

Figure 12. Percentage of Special Education Grades 5 and 8 Low-Income Students in the Persistently Low Performing Group on the State Math Test Compared to the Percentage of Low-Income Students Among all Special Education Students



*PLP: Persistently Low Performing students were students who scored at the 10th percentile or below for three consecutive years.

On the math test, the percentage of low-income students in the total special education population (lighter bars) varied from just under 50% in South Dakota and Wisconsin to over 57% to 60% in Hawaii. These percentages did show small differences (10% or less) across grades in two of the three states with income data. In the subgroup of persistently low performing special education students, those from low income backgrounds represented between 51% (South Dakota, grade 8) and 68% (Hawaii grade 5) of the group. Again, there were small differences across grades (10% or less).

Across the three states with data, there was a larger percentage of low-income students in the persistently low performing group of special education students (darker bars) than there was in the total special education population (lighter bars). The size of this difference varied from small (10% or less) in Hawaii at both grades and South Dakota at grade 8 to large (more than 10%) in South Dakota at grade 5 and Wisconsin at both grades.

Conclusion for Research Question 1

The discussion of Figures 1-12 highlighted that there are more nuances to the demographic data on persistently low performers in special education and non-special education settings than previous research has suggested. If we use the percentage of students with a particular demographic characteristic in the total population as our point of comparison for the persistently low performers we see that there are mixed findings on whether or not there are more males in the persistently low performing subgroup of either non-special education or special education students. Patterns varied for males on the reading test versus the math test and for special education students versus non-special education students. In comparison, there were clear indications that persistently low performers, in both the special education and non-special education groups, were more likely to be non-white and low-income than their higher performing peers. These results were true on the reading and the math test. There were few consistent differences in the demographic make-up of the groups across grade levels.

Although we did not specifically compare variations in the demographic characteristics of a group taking the math test versus the reading test, we did note that for gender, there were different patterns of gender representation across the two tests for the non-special education group.

Research Question 2: Are special education students more or less likely to move out of the persistently low performing group than non-special education students? Is there any variation in movement by content area?

As Tables 2 and 3, along with Figures 13 through 16, will demonstrate, low performing special education students were more likely to be identified as persistently low performing across three years than their non-special education peers at the same grade. There were no major differences in the percentages of students moving out of the low performing groups for mathematics

compared to reading and patterns were similar across grades. These findings are described in more detail in the sections that follow.

Overall Movement Out of the Low-performing Category

Table 2 shows the total number of all fifth and eighth grade students who were identified as low performing (i.e., at or below the 10th percentile) in the first year in our data set. We grouped the students into what we call "movement categories" according to the years in which they were identified as low performing.

In the left-hand column of the table, Persistently Low Performing (PLP) students are those who were low performing in each of the three years in our data set. In the middle two rows under "Movement Category" for each grade are students who were identified as low performing twice within three consecutive years, including the first year. In the last row in each grade, "Initially low performing" students are those who were identified as low performing only in the first year of our data set. The second and third years these students obtained a score above the 10th percentile.

Table 2. Total Number and Percentage of Fifth Grade and Eighth Grade Low Performing Students in Different Movement Categories in the Reading Assessment

		AL HI		SD		WI			
Grade	Movement Category	Count	%	Count	%	Count	%	Count	%
5	Persistently low performing	1,778	48.4	566	47.1	344	40.1	2,200	42.0
	Low performing in year 1 and 3	333	9.1	145	12.1	96	11.2	584	11.1
	Low performing in year 1 and 2	598	16.3	196	16.3	182	21.2	976	18.6
	Initially low performing	962	26.2	295	24.5	236	27.5	1,479	28.2
	Total	3,671	100.0	1,202	100.0	858	100.0	5,239	100.0
8	Persistently low performing	1,740	43.8	478	42.2	377	41.1	2,757	48.3
	Low performing in year 1 and 3	343	8.6	144	12.7	114	12.4	689	12.1
	Low performing in year 1 and 2	824	20.8	200	17.7	186	20.3	873	15.3
	Initially low performing	1,064	26.8	310	27.4	240	26.2	1,389	24.3
	Total	3,971	100.0	1,132	100.0	917	100.0	5,708	100.0

In Table 2 students who were persistently low performers (i.e., low performing for three years) made up the largest percentage of all low performing students on the reading test (from 40.1% to 48.4%). Students who were initially low performing in year one and scored higher than the tenth percentile in years two and three represented the next largest group (24.3% to 28.2%).

There were no obvious differences across grade levels in the percentage of students who fell into a particular movement category on the reading assessment.

We also looked at the total number of students in each state who fell into a particular performance category in math (see Table 3) to see whether there were any differences across grade levels.

Table 3. Total Number and Percentage of Fifth Grade and Eighth Grade Low Performing Students in Different Movement Categories in the Math Assessment

		AL		HI		SD		WI	
Grade	Movement Category	Count	%	Count	%	Count	%	Count	%
	Persistently low performing	1,616	40.6	531	43.8	337	42.2	2,071	39.9
	Low performing in year 1 and 3	393	9.9	172	14.2	109	13.7	603	11.6
5	Low performing in year 1 and 2	733	18.4	196	16.2	131	16.4	931	17.9
	Initially low performing	1,239	31.1	314	25.9	221	27.7	1,587	30.6
	Total	3,981	100.0	1,213	100.0	798	100.0	5,192	100.0
8	Persistently low performing	1,201	28.2	450	39.4	402	41.0	2,630	46.0
	Low performing in year 1 and 3	600	14.1	143	12.5	119	12.1	672	11.7
	Low performing in year 1 and 2	1,162	27.3	264	23.1	198	20.2	975	17.0
	Initially low performing	1,293	30.4	285	25.0	262	26.7	1,444	25.2
	Total	4,256	100.0	1,142	100.0	981	100.0	5,721	100.0

As Table 3 shows, in math there was some variability in the percentage of students within a particular performance group across grades and states, but persistently low performing students still represented the largest group of low performers in most cases. Similar to reading, the second largest group of low performers was typically those who were initially low performing in year one of the data and who scored above the tenth percentile in years two and three. The one exception to this pattern was the state of Alabama, where a large difference (greater than 10%) was observed in the percentage of persistently low performing students at grade eight compared to grade five. In the same state a small difference (10% or less) was observed in the percentage of low performing in years one and two students.

Movement on the Reading Test

Figure 13 uses stacked bar charts to represent the percentage of non-special education and special education fifth graders in each state and the movement category into which they fell on the state reading test (see Appendix B, Table B1 for more detail). This figure includes all fifth grade students who were identified as low performing (i.e., at or below the 10th percentile) in year one (2005-2006 in Wisconsin; 2004-2005 in all other states) of our data set. The non-special

education bar is on the left side of each column and the special education bar is on the right side. The darkest colored tier, at the bottom, shows the percentage of students in either general or special education who were persistently low performing (i.e., below the 10th percentile each of three years). The second tier from the bottom is the percentage of students who were low performing in years one and three only. The third tier from the bottom shows the students who were low performing in years one and two only, followed by the students who were initially low performing (i.e., low performing only in year one).

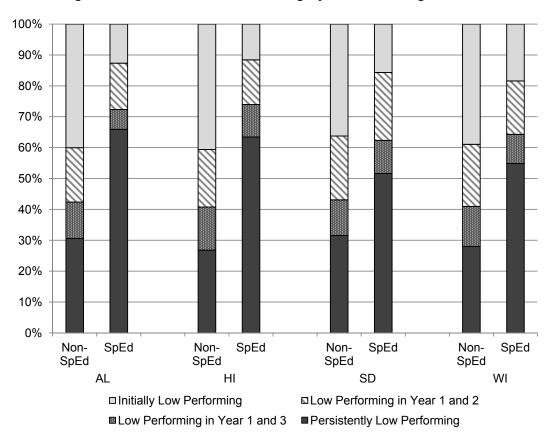


Figure 13. Percentage of Fifth Grade Non-Special Education and Special Education Low Performing Students in Each Movement Category on the Reading Test

The left-hand bar of each state in Figure 13, shows that on the state reading assessment a higher overall percentage of fifth grade special education students were identified as persistently low performing compared to their non-special education peers (right-hand bar in each state). Across the four states, 27% to 32% of low performing non-special education fifth graders on the reading test were persistently low performing. In contrast, 52% to 66% of low performing fifth grade special education students (the right hand bar in each column) were persistently low performing.

Of the students who initially scored below the tenth percentile, non-special education students were more likely to move out of the low-performing category over time in comparison to the

special education students. These students are represented by the top two tiers of each bar. Adding together these two tiers for each state, a range of 57% to 60% of non-special education students who were initially low performing were no longer low performing by year three on the reading test. They scored above the 10th percentile in years two and three. In contrast, only 26% to 38% of fifth grade special education students who were initially low performing (see the top two tiers of the right hand bar in each column) were no longer low performing by year three.

Figure 14 shows comparable data for all eighth grade students who took the reading assessment and who were identified as low performing in year one of our data set (see Appendix B, Table B1 for more detail). Similar to Figure 13, each state's column includes a bar for non-special education students on the left side, and a bar for special education students on the right side. The bottom tier of each bar represents the students who continued to be identified as low performing in each of the three years (i.e., persistently low performing). The second and third tiers represent the percentage of students identified as low performing in only two out of the three years. The top tier of each bar represents the percentage of students who were identified as low performing only in year one (i.e., initially low performing). By years two and three these students scored at or above the 10th percentile on the reading assessment.

Figure 14. Percentage of Eighth Grade Non-Special Education and Special Education Low Performing Students in Each Movement Category on the Reading Test

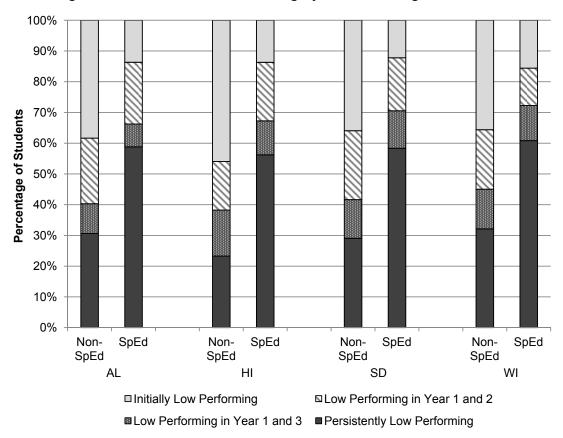


Figure 14 indicates that for eighth graders taking the state reading assessment, a greater percentage of special education students were identified as persistently low performing compared to their non-special education peers. Twenty-three percent to 32% of non-special education students who were low performing in the first year of the data set (see the left hand bar in each column) were persistently low performing across three years. In contrast, 56% to 61% of eighth grade special education students (see the right hand bar in each column) were persistently low performing.

Of the eighth grade students who initially scored below the tenth percentile, special education students were less likely than their non-special education peers to score above the tenth percentile in reading in later years. Fifty-five percent to 62% of eighth grade non-special education students who were low performing (see left-hand bars in each column) in year one moved out of the low-performing group by year three on the reading test. In contrast, only 28% to 34% of eighth grade special education students who were initially identified as low performing (see the right hand bars in each column) moved out of the low performing group by year three.

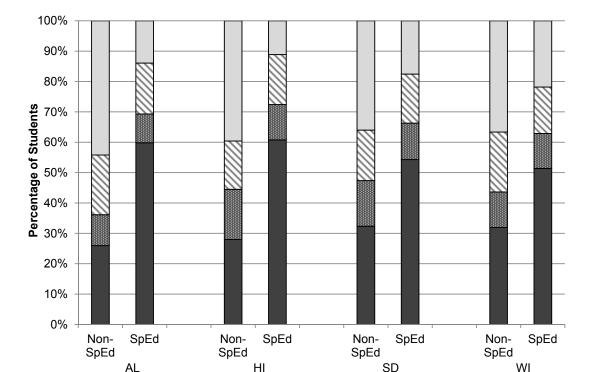
Movement on the Math Test

Figures 15 and 16 show the percentage of non-special education and special education fifth and eighth graders in the various movement categories on the state math test (see Appendix B, Table B2 for more details). Figure 15 presents all fifth grade students who took the state math assessment and were identified as low performing in year one of our data set. The tiers within each bar indicate the percentage of those students who either remained low performing in each subsequent year, or moved out of the low-performing group at least temporarily. Each state's column includes a bar for non-special education students on the left side, and a bar for special education students on the right side. The bottom tier of each bar represents the students who were persistently low performing. The two middle tiers represent the percentage of students identified as low performing twice within three consecutive years, including the first year of data collection. The top tier of each bar represents the percentage of students who were identified as low performing only in year one. In years two and three these students scored above the 10th percentile on the math test.

Figure 15 shows that on the fifth grade math test a greater percentage of low performing special education students were persistently low performing compared to their non-special education peers. Between 26% and 32% of fifth grade non-special education students who were initially identified as low performing in math (the left-hand bar in each column) were persistently low performing. In contrast, 51% to 61% of low performing fifth grade special education students were persistently low performing.

Of the students who were low performing, non-special education students were more likely than special education students to score higher than the tenth percentile at some time during the three-year period. Between 53% and 64% percent of initially low performing non-special educa-

tion students moved out of the low-performing group by year three (see the top two tiers of the left-hand bar in each state). In contrast, only 27% to 37% of low performing special education students moved out of the low-performing group on the math test by year three.



□ Initially Low Performing

Figure 15. Percentage of Fifth Grade Non-Special Education and Special Education Low Performing Students in Each Movement Category on the Math Test

Figure 16 presents data for eighth grade non-special education and special education students who took the state math test.

■ Low Performing in Year 1 and 3
■ Persistently Low Performing

■Low Performing in Year 1 and 2

Figure 16 shows that on the eighth grade math test a greater percentage of low performing special education students were persistently low performing over a three year period compared to non-special education students. Twenty-one percent to 35% of eighth grade non-special education students who were initially identified as low performing in math (the left hand bar in each column) were persistently low performing. In contrast, 38% to 56% of low performing special education students were persistently low performing across three years.

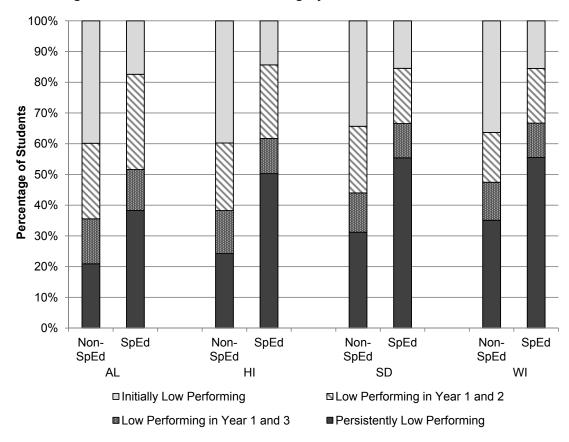


Figure 16. Percentage of Eighth Grade Non-Special Education and Special Education Low Performing Students in Each Movement Category on the Math Test

Examining all of the low performing students who made some kind of movement in their test scores, initially low performing non-special education students were much more likely than their special education peers to score above the tenth percentile in years two or three. For non-special education students, 52% to 65% of the low performing eighth graders in math (the right hand column) in year one had moved out of the low-performing group by year three. In contrast, only 33% to 48% of low-performing students in special education (the left hand column) moved out of the low-performing group by year three.

Conclusion for Research Question 2

The discussion of Tables 5 and 6 and Figures 13-16 indicate that low performing special education students tend to stay low performing (i.e., become persistently low performing) more frequently than the low-performing non-special education students in the same grade level. These results were true for both reading and math and for fifth grade as well as eighth grade.

Although our analyses did not specifically compare the percentages of persistently low performing students on the reading versus the math test, we did note that there appear to be some large

differences in the percent of either special education or non-special education persistently low performers across tests.

Research Question #3: Are low performing special education students in some demographic groups more or less likely to move out of the low performing group than their peers in non-special education?

For this research question, which contains multi-categorical analyses, we narrowed the focus solely to fifth grade reading data because the data are extremely complex. The fifth grade math data generally show similar patterns (see Appendix C, Tables C4, C5, and C6 for more details).

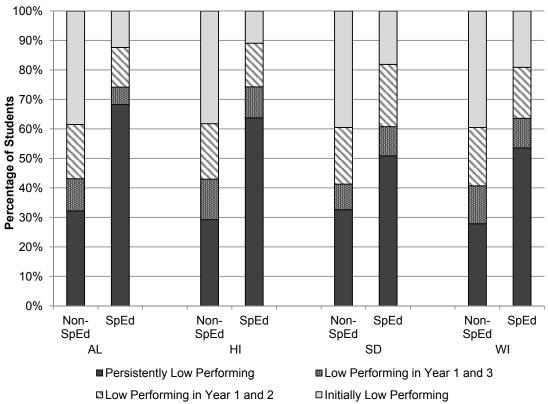
The discussion of Figures 17 through 19 indicate that low-performing special education students who were male, non-white and low income were more likely than their non-special education peers to be identified as persistently low performing on the reading test (i.e., low performing for all three years of the data analysis). In this section we provide more detailed description of the data to support this finding.

Gender

Figure 17 provides data for all fifth grade male students who took the state reading assessment and were identified as low performing in year one of our data set (see Appendix C, Table C1 for more detail). Each state's column includes a bar for non-special education male students on the left side, and a bar for special education male students on the right side. Each bar is then divided into tiers that represent performance levels. The bottom tier of each bar represents the persistently low performing students (i.e., those identified as low performing in each of the three years). The two middle tiers of each bar represent the percentage of students identified as low performing in the first year of the dataset, and in one additional year. Thus, the students in the middle tiers were not low performing in one year of the study. The top tier of each bar represents the percentage of students who were identified as low performing only in year one. After the first year, these students moved out of the low performing group.

Figure 17 shows that on the state reading assessment a greater percentage of low performing special education males were persistently low performing across three years in comparison to their non-special education peers. Twenty-eight percent to 33% of fifth grade low performing non-special education males (the left hand bar in each column), were persistently low performing. In comparison, 51% to 68% of low performing males in special education (the bottom tier of the right-hand bar) were persistently low performing. The percentage of persistently low performing males in special education was higher in Alabama (68%) and Hawaii (64%) compared to Wisconsin (54%) and South Dakota (51%).

Figure 17. Percentage of Fifth Grade Male Non-Special Education and Special Education Low Performing Students in Each Movement Category on the Reading Test



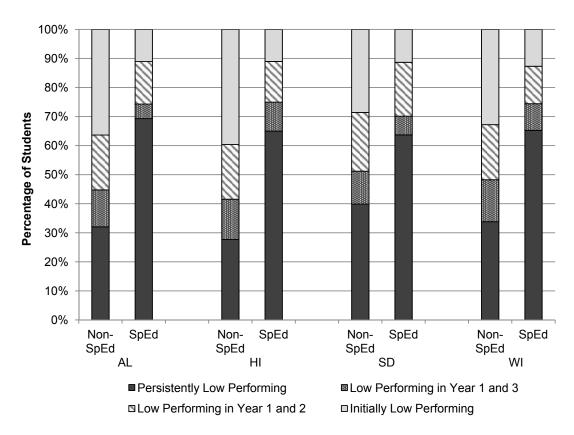
A larger percentage of low-performing males in the non-special education group, compared to those in special education, moved out of the low-performing group on the reading test by year three. Across states, roughly 57% to 60% of fifth grade non-special education low-performing male students (left-hand bar of each column) scored higher than the 10th percentile by year three. A much smaller percentage of low-performing male students in special education (right-hand bar of each column) moved out of the low-performing group by year three (26% to 39%).

Race/Ethnicity

Figure 18 presents all fifth grade non-white students who took the state reading assessment and were identified as low performing in year one of our data set (see Appendix C, Table C2 for more detail). Each state's column includes a bar for non-white non-special education students on the left side, and a bar for non-white students in special education on the right side. Each bar is then divided into tiers that correspond to the different performance groups. The bottom tier of each bar represents the students who were persistently low performing. The two middle tiers of each bar represent the percentage of students identified as low performing in the first year of the dataset, and in one additional year, indicating that they were not low performing in one year out of three. The top tier of each bar represents the percentage of students who were

identified as low performing only in year one. After the first year, these students were no longer low performing (i.e., achieved at or above the 10th percentile).

Figure 18. Percentage of Fifth Grade Non-White Non-Special Education and Special Education Low Performing Students in Each Movement Category on the Reading Test



In Figure 18 we can see that, of the fifth grade low-performing students, a larger percentage of non-white students in special education (right-hand bar in each column) were persistently low performing compared to their non-special education peers (left-hand bars). Twenty-eight percent to 40% of low performing non-white non-special education students were persistently low performing. In comparison, the right-hand bar in each state shows that 64% to 69% of low performing non-white students in special education were persistently low performing.

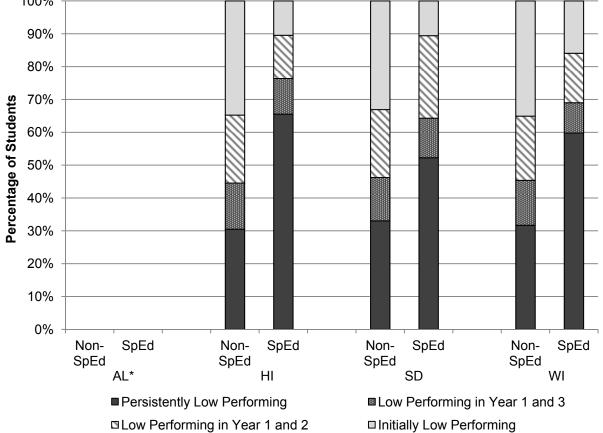
The top two tiers of each bar, representing students moving out of the low performing category after year 1, illustrate that a larger percentage of non-special education students move out of the low performing category over time, in comparison to their special education peers. Of the fifth grade low-performing students, 49% to 59% of non-white non-special education students moved out of the low performing group by year three. In contrast, the right hand bar shows that only 26% to 30% of non-white low-performing students in special education moved out of the low performing group by year three.

Income Level

Figure 19 illustrates the movement of all fifth grade low-income students who took the state reading assessment and were identified as low performing in year one of our data set (see Appendix C, Table C3 for more detail). Similar to previous figures, each state's column includes a bar for non-special education low-income students on the left side, and a bar for low-income students in special education on the right side. The bottom tier of each bar represents the students who continued to be identified as low performing in each of the three years (i.e., persistently low performing). The two middle tiers of each bar represent the percentage of students identified as low performing in the first year of the dataset and in one additional year, indicating that they were not low performing in one year out of three. The top tier represents the percentage of students who were identified as low performing only in year one. After the first year, these students were no longer low performing.



Figure 19. Percentage of Fifth Grade Low-Income Non-Special Education and Special



^{*}Alabama does not have income data available.

Figure 19 shows that, of fifth grade low performing low-income students, a larger percentage in special education (right hand bar in each column) were persistently low performing compared to their non-special education peers (left-hand bar in each column). Thirty-one percent to 33% of fifth grade low performing low income non-special education students were persistently low performing. In contrast, 52% to 66%, of low performing low income students in special education were identified as persistently low performing.

Of the low performing low income students, those who were not in special education were more likely than those in special education to score higher than the tenth percentile by year three. Looking at the top two tiers of the left-hand bar in each state we can see that 54% to 56% of low income non-special education students moved out of the low-performing group by year three compared to 23% to 36% of low income special education students.

Conclusion for Research Question 3

The discussion of Figures 17 through 19 indicates that there are some identifiable patterns of movement in the low performing group on the reading assessments that are different for students from certain demographic categories. Low performing special education students who are male, non-white and low income are be more likely to become persistently low performing. Their non-special education classmates from the same demographic groups are more likely to score in the low performing range once and move out of the group in later years.

Discussion and Conclusions —

The results of this study suggest three key findings. First, the demographic characteristics of persistently low performing students were generally similar regardless of whether students received special education services. In both groups, the lowest performers were more likely to be non-white students and students from low-income backgrounds. The data from the four states we studied did not conclusively show a pattern of more persistently low performing males, compared to females, across all content areas and grade levels. Second, of the students who were identified as low performing in the first year of our data, special education students were more likely than their non-special education peers to remain low performing across the three years of the study. Non-special education students were more likely to score higher in subsequent years while the special education students' scores remained relatively unchanged. Third, looking at only the low performing special education students, those who were non-white and from low income backgrounds were more likely than their white, higher-income level peers, to be identified as persistently low performing across three years. The findings for males were less consistent.

There are some important implications of these findings for K-12 standards-based assessment and instruction. The results show that many low performing students on state assessments do

not have disabilities, and therefore would not be eligible to take an alternate assessment based on modified achievement standards (AA-MAS). Because low performing non-special education students are not eligible for the AA-MAS, state departments of education should consider other actions to help these students succeed in the grade-level standards-based curriculum. There is a wide-ranging variety of system-level factors that might play into differential performance patterns by particular subgroups of students. These factors include: school poverty levels and resource availability, teacher availability, teacher qualifications and training, student attendance, student health, school violence, an emphasis on remedial instruction rather than grade-level standards-based instruction, a teacher-student culture and relationship gap, and appropriate state assessment design and implementation for a particular population of students (cf. Archibald, 2006; Belfiore, Auld, & Lee, 2005; Cooper & Jackson, 2011; Goodwin, Englert, & Cicchinelli, 2003; Jackson, 2011). It is not within the scope of this report to address all the possible ways in which state departments of education and policymakers might address issues related to low levels of academic achievement by low income and minority students with, and without, disabilities. However, from an assessment fairness perspective (cf. Goodwin et al., 2002) there are three key issues state departments of education could investigate when faced with data showing differential achievement outcomes of this magnitude for certain subgroups of students:

- Examine whether existing assessment items function differently for some groups of students
 compared to others. Test items should be designed to allow the greatest possible number of
 students to demonstrate their knowledge and skills in the grade-level content. Barriers such
 as biased test content or inaccessible test item formats should be identified and attended to
 early.
- 2. Examine whether correct test participation and administration policies and procedures are adhered to. Are all students participating in the appropriate state assessments according to state-determined participation criteria? Do students receive the test accommodations that they need as indicated by their IEPs, or more generally by state accommodations policies if accommodations are offered to any student? Are accommodations administered correctly?
- 3. Examine whether all students have had sufficient opportunity to learn the grade-level standards-based content that is measured on the state test. Are high academic expectations the norm for all students or only for some? For the lowest performing students on the state assessment, how well are their curricula aligned with grade-level standards? If students are instructed in classrooms where curricula are well-aligned with state standards, what strategies are teachers using to get to know the skills and interests of their low-income, non-white students so that content instruction can build on students' strengths and develop their academic potential? A part of addressing students' opportunity to learn would also include investigation of the progress monitoring and feedback processes educators use to

adapt daily instruction and provide targeted interventions for specific students who have learning challenges.

Federal legislation describing the AA-MAS option states that students with disabilities who are being considered as possible candidates for participation in the AA-MAS must have access to grade-level content (U.S. Department of Education, 2007). Further research is needed to get a better understanding of whether low performing students with disabilities have access to grade-level content—though preliminary evidence indicates that some may not have access (see, for example, Altman, Cormier, Lazarus & Thurlow, 2011; Lazarus et al., 2011). Taking steps to ensure that all low performing students with disabilities have access to grade level content is a crucial part of improving their academic outcomes. Improving the opportunity to learn for low performing students with disabilities can also have far-reaching effects that improve academic outcomes for low performing students who are not in special education and vice versa (see Telfer, 2011). Given that students with disabilities may move in and out of special education status repeatedly over time (cf. Ysseldyke & Bielinski, 2002), our data indicate the importance of addressing the instruction and assessment needs of all low performing students simultaneously, regardless of which assessment they take.

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Appendix A

Tables Supporting Research Question 1

Table A1. 10th Percentile Cut Scores by State, Content Area, Test Year, and Grade

State	Year	5th G	rade	8th G	irade
State	I eai	Math	Reading	Math	Reading
	2005	569	570	615	611
Alabama	2006	589	590	621	622
	2007	601	600	647	628
	2005	579	588	629	624
South Dakota	2006	599	601	642	637
	2007	621	614	665	652
	2006	377	418	458	445
Wisconsin	2007	415	425	485	457
	2008	435	431	482	468
	2005	175	210	158	194
Hawaii	2006	171	220	165	202
	2007	241	257	231	257

Table A2. Percentage of Students in the Non-Special Education Population by Gender an Different Performance Group on the Reading Assessment across States

Grade	State	Gender	Persistently low performing	tently v ming	Potentially persistently low low performing	tially tently <i>N</i> ming	Low performing	w ming	10th or above all three years	above ree rs	Total	_
			Count	%	Count	%	Count	%	Count	%	Count	%
	VIohomo	Female	189	34%	340	%9 E	828	39%	16,594	25%	17,981	20%
	Alaballa	Male	368	%99	605	64%	1,369	61%	15,383	48%	17,725	%09
	::0;;;;;	Female	46	32%	86	%98	260	39%	4,926	23%	5,330	21%
()	ם אמ מ	Male	86	%89	174	64%	403	61%	4,372	47%	5,047	49%
Glade 5	South	Female	99	42%	111	46%	235	45%	3,112	25%	3,524	21%
	Dakota	Male	06	28%	128	54%	288	22%	2,886	48%	3,392	49%
	VA/iococion	Female	307	44%	552	46%	1,109	46%	21,418	25%	23,386	21%
	VISCOILS	Male	396	%99	652	54%	1,325	54%	19,708	48%	22,081	46%
	000000	Female	181	28%	310	%67	006	37%	17,274	24%	18,665	21%
	Alaballa	Male	465	72%	754	71%	1,549	63%	14,977	46%	17,745	49%
	II O	Female	28	25%	99	27%	293	39%	4,645	25%	5,031	21%
0	la wa	Male	84	75%	177	73%	452	61%	4,210	48%	4,923	49%
olade o	South	Female	09	38%	115	44%	234	43%	3,473	21%	3,882	20%
	Dakota	Male	26	62%	145	%95	306	21%	3,363	49%	3,911	%09
	Miscopin	Female	998	46%	519	%57	1,034	45%	23,401	25%	25,320	25%
	VVISCOIISIII	Male	437	54%	625	55%	1,281	22%	21,273	48%	23,616	48%

A2 NCEO

Table A3. Percentage of Students in the Special Education Population by Gender and Different Performance Group on the Reading Assessment across States

Grade	State	Gender	Persistently low performing	tently v ming	Potentially persistently low low performing	tially tently v	Low performing	w ming	10th or above all three years	above ree rs	Total	_
			Count	%	Count	%	Count	%	Count	%	Count	%
	- CmcdcIV	Female	354	29%	238	%88	195	34%	427	37%	1,214	34%
	Alaballia	Male	867	71%	390	62%	371	%99	736	%89	2,364	%99
	:: 0	Female	107	25%	99	24%	62	31%	102	32%	327	28%
6	ם אמו מ	Male	315	75%	180	%92	141	%69	219	%89	855	72%
Glade 5	South	Female	02	37%	64	%9 E	25	30%	149	32%	340	34%
	Dakota	Male	118	%89	115	64%	131	%02	310	%89	674	%99
	ai adooi/V/	Female	521	35%	330	33%	345	34%	935	32%	2,131	33%
	V 190	Male	926	%59	299	%29	099	%99	1,949	%89	4,252	%29
	- cmcdcl A	Female	279	26%	200	28%	273	38%	202	39%	1,259	33%
	Alaballia	Male	815	74%	521	72%	452	62%	782	61%	2,570	%29
	::0	Female	18	22%	88	%0E	72	%87	140	34%	381	78%
0	ון מאס מוו	Male	285	78%	210	%02	188	72%	271	%99	954	71%
olane o	South	Female	18	31%	28	% 98	99	31%	119	36%	313	32%
	Dakota	Male	139	%89	107	%59	120	%69	214	64%	280	%59
	ai odoosi/V/	Female	889	32%	407	%28	298	35%	826	32%	2,420	34%
	VVISCOIISIII	Male	1,266	82%	686	63%	766	%89	2,002	%89	4,720	%99

Table A4. Percentage of Students in the Non-Special Education Population by Gender and Different Performance Group on the Math Assessment across States

Grade	State	Gender	Persistently low performing	ently v ming	Potentially persistently low low performing	tially tently w	Low performing	w ming	10th or above all three years	above ree rs	Total	_
			Count	%	Count	%	Count	%	Count	%	Count	%
	Omodoly	Female	271	46%	467	42%	1,313	41%	15,909	21%	17,960	20%
	Alaballa	Male	317	54%	644	28%	1,476	23%	15,269	49%	17,706	20%
	::0,10	Female	92	54%	142	45%	329	48%	4,732	25%	5,328	51%
7	ם אמו	Male	81	46%	176	22%	386	52%	4,401	48%	5,044	49%
Glade 5	South	Female	71	20%	116	23%	248	23%	3,116	21%	3,551	51%
	Dakota	Male	71	20%	102	47%	220	47%	3,023	49%	3,416	49%
	aioaooi/V/	Female	629	26%	802	%29	1,543	22%	20,503	21%	23,427	51%
	VVISCOIISIII	Male	401	41%	209	43%	1,264	45%	19,878	49%	22,150	49%
	Omodoly	Female	223	43%	634	42%	1,707	46%	16,061	25%	18,625	51%
	Alaballa	Male	292	21%	870	28%	2,008	54%	14,540	48%	17,710	49%
	:: 0, 6 T	Female	44	38%	109	39%	351	46%	4,525	52%	5,029	51%
7	- מ מ	Male	72	62%	173	61%	419	54%	4,257	48%	4,921	49%
Glade o	South	Female	84	46%	137	48%	267	23%	3,396	%09	3,884	%09
	Dakota	Male	66	54%	147	52%	238	47%	3,426	20%	3,910	20%
	vi ocooi/V/	Female	929	26%	889	%29	1,321	54%	22,757	21%	25,322	52%
	VVISCOLISILI	Male	385	41%	527	43%	1,114	46%	21,570	46%	23,596	48%

Table A5. Percentage of Students in the Special Education Population by Gender and Different Performance Group on the Math Assessment across States

Grade	State	Gender	Persistently low performing	tently v ming	Potentially persistently low low performing	tially tently "	Low performing	۸ ning	10th or above all three years	above ree rs	Total	
			Count	%	Count	%	Count	%	Count	%	Count	%
	Alchomo	Female	357	32%	247	37%	228	36%	380	30%	1,212	34%
	Alaballia	Male	671	%59	429	%89	401	64%	998	%02	2,367	%99
	ijĊŶĸĊIJ	Female	127	36%	62	24%	19	25%	92	23%	326	28%
7	ם אמ מ	Male	228	64%	192	%92	184	75%	249	%22	853	72%
G ade o	South	Female	74	38%	22	37%	62	37%	151	78%	344	33%
	Dakota	Male	121	62%	96	%89	105	%89	362	71%	684	%29
	aioaooi/V/	Female	492	45%	370	40%	374	34%	930	27%	2,166	33%
	VVISCOIISIII	Male	299	22%	544	%09	733	%99	2,509	73%	4,385	%29
	\ CmcdcI	Female	224	33%	351	33%	305	33%	378	33%	1,258	33%
	Alaballia	Male	462	%29	708	%29	620	%29	757	%29	2,547	%29
		Female	103	31%	96	%0E	62	28%	104	79%	381	78%
0	ם אמ מ	Male	231	%69	227	%02	205	72%	292	74%	922	71%
GIAGE O	South	Female	06	41%	20	38%	69	36%	94	78%	313	32%
	Dakota	Male	129	29%	116	62%	106	64%	229	71%	280	%59
	Al/isoposi)///	Female	747	44%	200	%07	371	33%	798	%97	2,416	34%
	VVISCOIISIII	Male	942	26%	744	%09	754	%29	2,299	74%	4,739	%99

Table A6. Percentage of Students in the Non-Special Education Population by Race/Ethnicity and Different Performance Group on the Reading Assessment across States

Grade	State	Race/Ethnicity	Persistently low performing	tently v ming	Potentially persistently low performing	tially tently "	Low performing	w ming	10th or above all three years	above ree rs	Total	_
			Count	%	Count	%	Count	%	Count	%	Count	%
	CmcdclV	White	204	31%	343	%9E	1,001	45%	22,342	%02	23,890	%29
	Alaballia	Non-White	353	%89	602	64%	1,227	22%	9,640	30%	11,822	33%
	ii civi ci	White	9	4%	19	%2	41	%9	1,275	14%	1,341	13%
, C	מא מ	Non-White	138	%96	253	83%	622	94%	8,023	%98	9,036	%28
Glade 5	South	White	22	48%	142	%69	376	72%	5,309	%68	5,902	85%
	Dakota	Non-White	81	52%	97	41%	147	28%	689	11%	1,014	15%
	diadooi/V/	White	321	46%	644	23%	1,458	%09	34,192	83%	36,615	81%
	1100000	Non-White	382	54%	260	47%	926	40%	6,934	17%	8,852	19%
	omodol V	White	211	33%	432	41%	1,082	44%	22,327	%69	24,052	%99
	Alaballia	Non-White	436	%29	633	26%	1,369	%99	9,936	31%	12,374	34%
	ii civi ci	White	4	4%	14	%9	44	%9	1,095	12%	1,157	12%
0	ם אמ מ	Non-White	108	%96	228	94%	701	94%	7,761	88%	8,798	%88
GIAGE O	South	White	62	36%	148	%29	409	%92	6,138	%06	6,757	%28
	Dakota	Non-White	92	61%	112	43%	131	24%	869	10%	1,036	13%
	diadosi///	White	211	79%	463	40%	1,295	%99	37,889	82%	39,858	81%
	VVISCOLISILI	Non-White	592	74%	681	%09	1,020	44%	6,785	15%	9,078	19%

Table A7. Percentage of Students in the Special Education Population by Race/Ethnicity and Different Performance Group on the Reading Assessment across States

Grade	State	Race/Ethnicity	Persistently low performing	tently v	Potentially persistently low	tially tently "	Low performing	w ming	10th or above all three vears	above ree	Total	
			Count	%	Count %	6 %	Count	%	Count	%	Count	%
		White	598	49%	334	%89	339	%09	887	%92	2,158	%09
	Alabama	Non-White	623	51%	294	47%	227	40%	277	24%	1,421	40%
	::0	White	43	10%	33	14%	27	13%	99	21%	169	14%
[.	ם מאמוו	Non-White	379	%06	203	%98	176	81%	255	%62	1,013	%98
Grade 5	South	White	109	28%	130	73%	155	82%	395	%98	789	%82
	Dakota	Non-White	79	42%	49	27%	33	18%	64	14%	225	22%
	aioacoci/V/	White	935	62%	714	72%	749	75%	2,441	85%	4,839	%92
	VVISCOIRS	Non-White	562	38%	283	28%	256	25%	443	15%	1,544	24%
		White	513	47%	377	25%	428	26%	899	%02	2,217	28%
	Alaballa	Non-White	582	53%	345	48%	297	41%	390	30%	1,614	45%
	::0;;;;	White	38	10%	34	11%	37	14%	69	17%	178	13%
(((((((((((((((((((חמשמו	Non-White	328	%06	264	%68	223	%98	342	83%	1,157	81%
olade o	South	White	145	%99	116	%02	156	%68	299	%06	716	%08
	Dakota	Non-White	75	34%	49	30%	19	11%	34	10%	177	20%
	diadosi///	White	1,091	%99	682	%72	988	%82	2,541	%98	2,307	74%
	VISCO181	Non-White	863	44%	304	28%	247	22%	419	14%	1,833	26%

Table A8. Percentage of Students in the Non-Special Education Population by Race/Ethnicity and Different Performance Group on the Math Assessment across States

Grade	State	Race/Ethnicity	Persistently low performing	tently v ming	Potentially persistently low	tially tently w	Low performing	w ming	10th or above all three years	above ree rs	Total	<u></u>
			Count	%	Count	%	Count	%	Count	%	Count	%
	0204014	White	223	38%	424	38%	1,332	48%	21,863	%02	23,842	%29
	Alaballia	Non-White	365	62%	688	62%	1,457	52%	9,320	30%	11,830	33%
	::0,10	White	11	%9	18	%9	78	10%	1,234	14%	1,341	13%
[]	חמשוו	Non-White	165	94%	300	94%	299	%06	7,899	%98	9,031	81%
Grade 5	South	White	54	38%	114	25%	320	%89	5,454	%68	5,942	82%
	Dakota	Non-White	88	62%	104	48%	148	32%	685	11%	1,025	15%
	diagooil/\	White	385	39%	684	49%	1,740	%29	33,827	84%	36,636	%08
	VVISCOLISII	Non-White	262	61%	725	51%	1,067	38%	6,554	16%	8,941	20%
	Om Odol V	White	167	32%	514	34%	1,719	46%	21,604	71%	24,004	%99
	Alabama	Non-White	349	%89	991	%99	1,997	54%	9,010	29%	12,347	34%
	::0,00	White	7	%9	13	%9	28	%8	1,079	12%	1,157	12%
0	חמאמוו	Non-White	109	94%	269	%26	712	95%	7,704	88%	8,794	%88
Glade o	South	White	22	42%	144	21%	361	71%	6,170	%06	6,752	81%
	Dakota	Non-White	106	28%	140	49%	144	29%	652	10%	1,042	13%
	diodoosi/V(White	528	28%	484	%0 7	1,364	%9 9	37,739	85%	39,846	81%
	N I SOCI SI	Non-White	682	72%	731	%09	1,071	44%	6,588	15%	9,072	19%

Table A9. Percentage of Students in the Special Education Population by Race/Ethnicity and Different Performance Group on the Math Assessment across States

Grade	State	Race/Ethnicity	Persistently Iow performing	tently v ming	Potentially persistently low performing	tially tently // ming	Low performing	w ming	10th or above all three years	above iree irs	Total	al
			Count	%	Count	%	Count	%	Count	%	Count	%
	0.000	White	481	47%	368	24%	361	%29	949	%92	2,159	%09
	Alaballa	Non-White	547	53%	308	46%	268	43%	298	24%	1,421	40%
	::0	White	31	%6	31	12%	34	14%	72	22%	168	14%
() ()	חמשמו	Non-White	324	91%	223	88%	211	%98	253	%82	1,011	%98
Glade 5	South	White	118	61%	103	%29	128	%22	453	%88	802	%82
	Dakota	Non-White	77	39%	20	33%	39	23%	09	12%	226	22%
	diodoo:///	White	290	54%	601	%99	832	%92	2,916	%28	4,939	75%
	VISCOILS	Non-White	501	46%	313	34%	275	25%	523	15%	1,612	25%
	0.000	White	320	47%	519	46%	531	%29	834	73%	2,204	28%
	Alaballa	Non-White	367	53%	541	51%	394	43%	301	27%	1,603	45%
	:: 0 0 0 1	White	44	13%	38	12%	36	13%	09	15%	178	13%
7	חמשמו	Non-White	290	81%	284	88%	248	81%	336	85%	1,158	81%
Grade o	South	White	138	%89	142	%92	142	%98	294	91%	716	%08
	Dakota	Non-White	81	37%	44	24%	23	14%	29	%6	177	20%
	ai odoooi/V/	White	946	%99	843	%89	860	%92	2,684	%28	5,333	75%
	1100011	Non-White	743	44%	401	32%	265	24%	413	13%	1,822	25%

Table A10. Percentage of Students in the Non-Special Education Population by Income Level and Different Performance Group on the Reading Assessment across States

			Persistently	tently	Potentially persistently	tially	Low	>	10th or above	above	i	
Grade	State	Income Level	low performing	wing	low performing	۸ ming	performing	ming	all three years	ree	l otal	<u> </u>
			Count	%	Count	%	Count	%	Count	%	Count	%
	9	Not in Low-Income	N/A	A/A	N/A	A/N	A/N	A/A	A/N	A/N	A/N	N/A
	Alabama	Low-Income	N/A	A/N	A/N	A/N	N/A	A/N	N/A	Α̈́Ν	A/N	N/A
		Not in Low-Income	29	20%	72	%97	244	37%	2,607	%09	5,952	%29
7	חמאמוו	Low-Income	115	%08	200	74%	419	%89	3,691	40%	4,425	43%
Glade o	South	Not in Low-Income	9/	49%	120	%09	286	22%	4,261	71%	4,743	%69
	Dakota	Low-Income	80	51%	119	%09	237	45%	1,737	29%	2,173	31%
	aio a 000:/V/	Not in Low-Income	221	31%	476	40%	1,110	46%	30,196	73%	32,003	%02
	V 1800	Low-Income	482	%69	728	%09	1,324	54%	10,930	27%	13,464	30%
	-	Not in Low-Income	N/A	N/A	N/A	A/N	A/A	A/A	A/N	A/N	A/N	N/A
	Alabama	Low-Income	N/A	A/N	A/N	A/N	N/A	A/N	N/A	Α̈́Ν	A/N	N/A
		Not in Low-Income	36	32%	94	%68	306	41%	5,539	%89	5,975	%09
7	a w a	Low-Income	9/	%89	148	61%	439	%69	3,317	37%	3,980	40%
olade o	South	Not in Low-Income	78	%09	134	25%	320	26%	5,127	%92	5,659	73%
	Dakota	Low-Income	79	20%	126	48%	220	41%	1,709	25%	2,134	27%
	Wisconsin	Not in Low-Income	193	24%	898	%78	1,067	46%	34,184	%22	35,812	73%
	V 1000	Low-Income	610	%92	21/2	%89	1,248	54%	10,490	23%	13,124	27%

N/A = Alabama free or reduced lunch data were not available.

Table A11. Percentage of Students in the Special Education Population by Income Level and Different Performance Group on the Reading Assessment across States

Grade	State	Income Level	Persistently low performing	tently N	Potentially persistently low	tially tently v	Low performing	w ming	10th or above all three years	above ree rs	Total	<u> </u>
			Count	%	Count	%	Count	%	Count	%	Count	%
	0 4014	Not in Low-Income	A/N	A/N	N/A	A/N	A/N	A/N	A/A	A/N	A/N	A/A
	Alabama	Low-Income	A/N	A/N	N/A	A/N	N/A	A/N	A/N	₹/Z	A/N	A/N
	ii Cirio II	Not in Low-Income	133	32%	88	37%	98	42%	169	23%	476	40%
7	ם אמו	Low-Income	289	%89	148	63%	117	28%	152	47%	200	%09
G ade o	South	Not in Low-Income	84	45%	02	39%	107	%29	268	%89	529	25%
	Dakota	Low-Income	104	22%	109	61%	81	43%	191	42%	485	48%
	aioaooi/V	Not in Low-Income	929	38%	468	47%	909	20%	1,877	%59	3,427	24%
	VVISCOIISIII	Low-Income	921	62%	529	53%	499	20%	1,007	35%	2,956	46%
	0204014	Not in Low-Income	A/N	A/N	N/A	A/A	A/N	A/N	A/N	A/N	A/N	A/A
	Alabailla	Low-Income	A/N	A/N	A/N	A/N	N/A	A/N	A/N	∀/Z	A/N	A/N
	::0%0 ::0%0 ::0	Not in Low-Income	120	33%	115	39%	116	45%	228	22%	629	43%
0	מש	Low-Income	246	%29	183	61%	144	22%	183	45%	756	%29
GIAGE O	South	Not in Low-Income	118	24%	84	21%	88	%09	195	%69	485	24%
	Dakota	Low-Income	102	46%	81	49%	87	20%	138	41%	408	46%
	diagonai/M	Not in Low-Income	726	37%	528	48%	629	%99	1,927	%59	3,810	23%
	VVISCOIISIII	Low-Income	1,228	%89	292	52%	504	44%	1,033	35%	3,330	47%

N/A = Alabama free or reduced lunch data were not available.

Table A12. Percentage of Students in the Non-Special Education Population by Income Level and Different Performance Group on the Math Assessment across States

Grade	State	Income Level	Persistently low performing	tently N ming	Potentially persistently low low performing	tially tently v ming	Low performing	۸ ming	10th or above all three years	above ree rs	Total	le le
			Count	%	Count	%	Count	%	Count	%	Count	%
	0000	Not in Low-Income	N/A	N/A	N/A	A/A	N/A	N/A	A/N	A/N	N/A	N/A
	Alaballa	Low-Income	N/A	A/N	N/A	A/N	A/N	N/A	A/N	Ø/N	A/N	N/A
	::0	Not in Low-Income	46	26%	100	31%	264	35%	5,540	61%	2,950	%29
200	ם אמ	Low-Income	130	74%	218	%69	481	%59	3,593	39%	4,422	43%
Glade 5	South	Not in Low-Income	61	43%	66	45%	236	%09	4,381	71%	4,777	%69
	Dakota	Low-Income	81	21%	119	22%	232	20%	1,758	29%	2,190	31%
	W. Coolin	Not in Low-Income	283	29%	497	32%	1,339	48%	29,911	74%	32,030	%02
	VVISCOILS	Low-Income	269	71%	912	%59	1,468	52%	10,470	79%	13,547	30%
	VICHCIA	Not in Low-Income	A/N	N/A	N/A	A/A	N/A	N/A	A/N	A/N	A/A	N/A
	Alaballa	Low-Income	N/A	√N V	N/A	A/N	A/N	N/A	ĕ/N	√ Z	A/N	N/A
	::0	Not in Low-Income	43	37%	124	44%	335	44%	5,469	62%	5,971	%09
0	ב מאמו	Low-Income	73	%89	158	%99	435	%99	3,314	38%	3,980	40%
Glade o	South	Not in Low-Income	85	46%	130	46%	284	%99	5,156	%92	5,655	73%
	Dakota	Low-Income	98	54%	154	54%	221	44%	1,666	24%	2,139	27%
	Wisconsin	Not in Low-Income	241	%97	405	33%	1,096	45%	34,062	%22	35,801	73%
	VVISCOIISIII	Low-Income	700	74%	813	67%	1,339	55%	10,265	23%	13,117	27%

N/A = Alabama free or reduced lunch data were not available.

Table A13. Percentage of Students in the Special Education Population by Income Level and Different Performance Group on the Math Assessment across States

Grade	State	Income Level	Persistently low performing	ently v ming	Potentially persistently low low performing	ially ently v ning	Low	v ning	10th or above all three years	above ree rs	Total	- E
			Count	%	Count	%	Count	%	Count	%	Count	%
	0 dol 0	Not in Low-Income	A/A	N/A	A/N	A/N	A/N	A/N	A/N	A/N	N/A	A/A
	Alaballia	Low-Income	A/N	A/N	A/N	N/A	N/A	N/A	A/N	A/N	A/N	A/N
	::0	Not in Low-Income	112	32%	96	38%	89	36%	178	22%	475	40%
7	ם אמ מ	Low-Income	243	%89	158	62%	156	64%	147	45%	704	%09
Glade 5	South	Not in Low-Income	80	41%	61	40%	98	21%	311	61%	538	25%
	Dakota	Low-Income	115	26%	92	%09	81	49%	202	39%	490	48%
	diodooi/V/	Not in Low-Income	363	33%	374	41%	547	49%	2,205	64%	3,489	23%
		Low-Income	728	%29	540	26%	260	21%	1,234	36%	3,062	41%
	omodo! A	Not in Low-Income	A/N	A/N	A/N	A/N	A/N	A/A	A/N	A/N	N/A	A/N
	Alaballia	Low-Income	₹ Z	A/N	ĕ/Z	ĕ/Z	₹/Z	∀ Z	A/N	ĕ/Z	A/N	A/N
	II OWO II	Not in Low-Income	126	38%	120	37%	107	38%	227	%29	280	43%
0	- מ מ מ	Low-Income	208	62%	202	%89	177	62%	169	43%	756	21%
Glade o	South	Not in Low-Income	108	49%	93	%09	92	28%	189	%69	485	24%
	Dakota	Low-Income	111	51%	93	20%	70	42%	134	41%	408	46%
	diadoosi/\/	Not in Low-Income	634	38%	547	44%	592	23%	2,041	%99	3,814	23%
	VVISCOIISIII	Low-Income	1,055	62%	697	26%	533	47%	1,056	34%	3,341	47%

N/A = Alabama free or reduced lunch data were not available.

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Appendix B =

Tables Supporting Research Question 2

Table B1. Percentage of Non-Special Education and Special Education Low Performing Students on the Reading Assessment by Grade across States

			Alabama	ıma	Hawaii	aii	South Dakota	akota	Wisconsin	nsin
Grade	Group	Performance Group	Count	%	Count	%	Count	%	Count	%
		Persistently low performing	299	31%	144	27%	156	32%	703	28%
		Low performing in year 1 and 3	214	12%	75	14%	22	12%	326	13%
	Non-Special	Low performing in year 1 and 2	320	18%	100	19%	102	21%	202	20%
	Education	Initially Low performing	728	40%	218	41%	179	36%	977	39%
Grade 5		Total	1,819	100	537	100	494	100	2,511	100%
		Persistently low performing	1,221	%99	422	%89	188	52%	1,497	22%
		Low performing in year 1 and 3	119	%9	70	11%	39	11%	258	%6
	Special	Low performing in year 1 and 2	278	15%	96	14%	80	22%	471	17%
	Education	Initially Low performing	234	13%	77	12%	22	16%	502	18%
		Total	1,852	100	665	100	364	100	2,728	100%
		Persistently low performing	249	31%	112	%82	121	78%	803	32%
		Low performing in year 1 and 3	205	10%	72	15%	89	13%	322	13%
	Non-Special	Low performing in year 1 and 2	451	21%	92	16%	121	22%	483	19%
	Education	Initially Low performing	810	38%	221	46%	194	36%	889	36%
Grade 8		Total	2,113	100	481	100	540	100	2,497	100%
		Persistently low performing	1,095	%69	366	%99	220	%89	1,954	61%
		Low performing in year 1 and 3	138	%2	72	11%	46	12%	367	11%
	Special	Low performing in year 1 and 2	374	20%	124	19%	99	17%	390	12%
	Education	Initially Low performing	254	14%	88	14%	46	12%	200	16%
		Total	1,861	100	651	100	377	100	3,211	100%

Table B2. Percentage of Non-Special Education and Special Education Low Performing Students on the Math Assessment by Grade across States

9			Alabama	ma	Hawaii	/aii	South Dakota	Dakota	Wisconsin	nsin
Grade	dronb	reflormance Group	Count	%	Count	%	Count	%	Count	%
		Persistently low performing	288	78%	176	28%	142	32%	086	32%
		Low performing in year 1 and 3	230	10%	104	17%	99	15%	359	12%
	Non-Special Education	Low performing in year 1 and 2	445	20%	100	16%	73	17%	909	20%
		Initially Low performing	1,000	44%	249	40%	158	36%	1,124	37%
Grade 5		Total	2,263	100%	629	100%	439	100%	3,069	100%
		Persistently low performing	1,028	%09	322	%19	195	24%	1,091	21%
		Low performing in year 1 and 3	163	%6	89	12%	43	12%	244	11%
	Special	Low performing in year 1 and 2	288	17%	96	16%	28	16%	325	15%
		Initially Low performing	239	14%	65	11%	63	18%	463	22%
		Total	1,718	100%	584	100%	329	100%	2,123	100%
		Persistently low performing	516	21%	116	24%	183	31%	146	32%
		Low performing in year 1 and 3	361	15%	29	14%	75	13%	332	12%
	Non-Special Education	Low performing in year 1 and 2	909	25%	105	22%	127	22%	434	16%
		Initially Low performing	982	40%	190	40%	201	34%	973	36%
Grade 8		Total	2,465	100%	478	100%	586	100%	2,680	100%
		Persistently low performing	289	38%	334	%09	219	%99	1,689	%99
		Low performing in year 1 and 3	240	13%	9/	11%	44	11%	340	11%
	Special	Low performing in year 1 and 2	929	31%	159	24%	71	18%	541	18%
	5 5 6 7	Initially Low performing	312	17%	92	14%	61	15%	471	15%
		Total	1,795	100%	664	100%	395	100%	3,041	100%

Appendix C =

Tables Supporting Research Question 3

Table C1. Percentage of Grade 5 Non-Special Education and Special Education Low Performing Students on the Reading Assessment by Gender across States

Group	Gender	Performance Group	Alabama	ama	Hawaii	vaii	South	South Dakota	Wisconsin	onsin
<u>)</u> i			Count	%	Count	%	Count	%	Count	%
		Persistently low performing	368	32%	86	29%	06	33%	968	28%
		Low performing in year 1 and 3	125	11%	46	14%	24	%6	183	13%
	אמת	Low performing in year 1 and 2	210	18%	63	19%	53	19%	281	20%
Non-Special		Initially Low performing	440	39%	128	38%	109	40%	562	40%
Education		Persistently low performing	189	28%	46	23%	99	%0E	208	28%
		Low performing in year 1 and 3	88	13%	29	14%	33	15%	143	13%
	ם מ	Low performing in year 1 and 2	110	16%	37	18%	49	23%	224	21%
		Initially Low performing	288	43%	06	45%	70	32%	415	38%
		Persistently low performing	298	%89	315	64%	118	21%	926	24%
		Low performing in year 1 and 3	75	%9	52	11%	23	10%	183	10%
	אמת	Low performing in year 1 and 2	171	14%	73	15%	49	21%	315	17%
Special		Initially Low performing	157	12%	54	11%	42	18%	348	19%
Education		Persistently low performing	354	61%	101	%E9	02	%89	521	%89
		Low performing in year 1 and 3	44	%8	18	11%	16	12%	75	%8
	ם מ	Low performing in year 1 and 2	107	18%	23	14%	31	24%	156	17%
		Initially Low performing	77	13%	23	14%	15	11%	154	17%

Table C2. Percentage of Grade 5 Non-Special Education and Special Education Low Performing Students on the Reading Assessment by Race/Ethnicity across States

	Race/		Alabama	ama	Hawaii	vaii	South Dakota	Jakota	Wisconsin	nsin
dronb	Ethnicity	reflormance group	Count	%	Count	%	Count	%	Count	%
		Persistently low performing	353	32%	138	28%	81	40%	382	34%
	01/0/ 00/N	Low performing in year 1 and 3	140	13%	89	14%	23	11%	163	14%
		Low performing in year 1 and 2	208	19%	92	19%	4	20%	214	19%
Non-Special		Initially Low performing	400	36%	195	40%	28	29%	370	33%
Education		Persistently low performing	204	29%	I	Ι	75	26%	321	23%
	04:4/V	Low performing in year 1 and 3	74	10%			34	12%	163	12%
	אווונע	Low performing in year 1 and 2	111	16%			61	21%	291	21%
		Initially Low performing	328	46%	23	25%	121	42%	209	44%
		Persistently low performing	621	%69	379	%59	62	64%	562	%59
	04;q/V/ 00/V	Low performing in year 1 and 3	45	2%	99	10%			79	%6
		Low performing in year 1 and 2	131	15%	82	14%	23	19%	111	13%
Special		Initially Low performing	66	11%	29	12%	4	11%	109	13%
Education		Persistently low performing	298	%89	43	23%	109	45%	935	%09
	04:4/V	Low performing in year 1 and 3	73	%8	1	17%	31	13%	179	10%
	אווונע	Low performing in year 1 and 2	147	15%	4	17%	22	24%	360	19%
		Initially Low performing	134	14%	10	12%	43	18%	393	21%

Note: -= cell size less than 10.

Table C3. Percentage of Grade 5 Non-Special Education and Special Education Low Performing Students on the Reading Assessment by Income Level across States

3	Income	Si Caro	Alabama	ama	Hawaii	/aii	South Dakota	Jakota	Wisconsin	nsin
droup	Level	renormance group	Count	%	Count	%	Count	%	Count	%
		Persistently low performing			115	31%	80	33%	482	32%
		Low performing in year 1 and 3			53	14%	32	13%	208	14%
	Low-Income	Low performing in year 1 and 2			78	21%	20	21%	297	20%
Non-Special		Initially Low performing			131	35%	80	33%	533	35%
Education		Persistently low performing			29	18%	92	30%	221	22%
	Not in	Low performing in year 1 and 3			22	14%	25	10%	118	12%
	Low-Income	Low performing in year 1 and 2			22	14%	52	21%	208	21%
		Initially Low performing			87	54%	66	39%	444	45%
		Persistently low performing			289	%99	104	52%	921	%09
		Low performing in year 1 and 3			48	11%	24	12%	142	%6
	Low-Income	Low performing in year 1 and 2			58	13%	20	25%	232	15%
Special		Initially Low performing			46	10%	21	11%	245	16%
Education		Persistently low performing			133	26%	84	51%	929	49%
	Not in	Low performing in year 1 and 3			22	10%	15	%6	116	10%
	Low-Income	Low performing in year 1 and 2			38	17%	30	18%	239	20%
		Initially Low performing			31	14%	36	22%	257	22%

Table C4. Percentage of Grade 5 Non-Special Education and Special Education Low Performing Students on the Math Assessment by Gender across States

3	70000	Siring Committee of	Alabama	ama	Hawaii	vaii	South	South Dakota	Wisconsin	nsin
dnoa	Gender	Periormance Group	Count	%	Count	%	Count	%	Count	%
		Persistently low performing	317	27%	81	25%	71	32%	401	30%
	(Low performing in year 1 and 3	147	13%	99	20%	30	15%	172	13%
	Male	Low performing in year 1 and 2	222	19%	22	17%	33	16%	255	19%
Non-Special		Initially Low performing	487	45%	127	39%	29	33%	511	38%
Education		Persistently low performing	271	25%	92	32%	71	30%	579	34%
		Low performing in year 1 and 3	83	8%	38	13%	36	15%	187	11%
	ב	Low performing in year 1 and 2	223	21%	45	15%	40	17%	351	20%
		Initially Low performing	513	47%	122	41%	91	38%	613	35%
		Persistently low performing	671	61%	228	%95	121	22%	299	48%
	(Low performing in year 1 and 3	111	10%	52	13%	25	11%	153	12%
	Male	Low performing in year 1 and 2	169	15%	77	19%	35	16%	181	15%
Special		Initially Low performing	146	13%	53	13%	41	19%	307	25%
Education		Persistently low performing	357	28%	127	73%	74	24%	492	%99
		Low performing in year 1 and 3	52	8%	16	%6	18	13%	91	10%
	ם מושמ	Low performing in year 1 and 2	119	19%	19	11%	23	17%	144	16%
		Initially Low performing	93	15%	12	7%	22	16%	156	18%

Table C5. Percentage of Grade 5 Non-Special Education and Special Education Low Performing Students on the Math Assessment by Race/Ethnicity across States

1	Race/		Alabama	ята	Hawaii	<i>r</i> aii	South Dakota	Jakota	Wisconsin	nsin
dnoib	Ethnicity	reflormance group	Count	%	Count	%	Count	%	Count	%
		Persistently low performing	364	27%	165	28%	88	42%	262	39%
	(4: 4/4/	Low performing in year 1 and 3	145	11%	66	17%	37	18%	208	14%
	NOII-VVIIIG	Low performing in year 1 and 2	280	21%	96	16%	31	15%	295	19%
Non-Special		Initially Low performing	538	41%	230	39%	52	25%	441	78%
Education		Persistently low performing	223	24%	7	28%	54	23%	385	25%
	10/16:40	Low performing in year 1 and 3	85	%6	I	I	29	13%	151	10%
	wille	Low performing in year 1 and 2	164	18%	I	1	42	18%	311	20%
		Initially Low performing	461	49%	19	46%	106	46%	683	45%
		Persistently low performing	546	%89	324	62%	22	26%	501	61%
	(+; d/V/	Low performing in year 1 and 3	73	%8	09	12%	15	12%	92	12%
		Low performing in year 1 and 2	137	16%	85	16%	19	15%	109	13%
Special		Initially Low performing	112	13%	54	10%	19	15%	115	14%
Education		Persistently low performing	481	%29	31	21%	118	52%	290	45%
	14/14	Low performing in year 1 and 3	06	11%	I	I	28	12%	149	11%
	a)IIIIA	Low performing in year 1 and 2	148	18%	7	18%	39	17%	216	17%
		Initially Low performing	126	15%	11	18%	4	19%	348	27%

Note: —= cell size less than 10.

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Table C6. Percentage of Grade 5 Non-Special Education and Special Education Low Performing Students on the Math Assessment by Income Level across States

d	Income		Alabama	ama	Hawaii	vaii	South Dakota	Jakota	Wisconsin	onsin
Group	Level	Performance Group	Count	%	Count	%	Count	%	Count	%
		Persistently low performing			130	31%	81	35%	269	36%
		Low performing in year 1 and 3			65	15%	32	14%	241	13%
	Low-IIICOIII	Low performing in year 1 and 2			72	17%	38	16%	384	20%
Non-Special		Initially Low performing			157	37%	83	36%	601	31%
Education		Persistently low performing			46	22%	61	30%	283	25%
	Not in	Low performing in year 1 and 3			39	19%	34	17%	118	10%
	Low-Income	Low performing in year 1 and 2			28	14%	35	17%	222	19%
		Initially Low performing			92	45%	75	37%	523	46%
		Persistently low performing			243	%59	115	%99	728	%95
		Low performing in year 1 and 3			43	12%	26	13%	149	12%
	Low-III	Low performing in year 1 and 2			52	14%	37	18%	194	15%
Special		Initially Low performing			8	%6	28	14%	229	18%
Education		Persistently low performing			112	23%	80	25%	363	44%
	Not in	Low performing in year 1 and 3			25	12%	17	11%	92	12%
	Low-Income	Low performing in year 1 and 2			44	21%	21	14%	131	16%
		Initially Low performing			31	15%	35	23%	234	28%