# Missouri
## End-Of-Course Assessments

# 2011-12 Addendum

to the

*2010-2011 Missouri End-of-Course Assessments Technical Report Phase 1 Assessments* and the *2010-2011 Missouri End-of-Course Assessments Technical Report Phase II Assessments*

Submitted to the
Missouri Department of Elementary and Secondary Education
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## Chapter 1: Introduction

This technical report provides selected statistical results for the 2011-12 administrations – Summer 2011, Fall 2011, and Spring 2012 – of the Missouri End-of-Course (MO EOC) Assessments for grades 9-12 in the following content areas: Algebra I and II, American History, Biology, English I and II, Geometry, and Government. These criterion-referenced assessments are designed to assess students' knowledge of Missouri's Course-Level Expectations (CLEs)[1] in each of these subjects. The statistics show point distributions for each subject; achievement level distributions (Below Basic, Basic, Proficient, and Advanced); individual item data such as item difficulty; the number of students who used certain accommodations for each subject; raw score and scale score distributions, including distributions by certain demographic groups; and reliability data.

The Phase I Assessments include English II, Algebra I, and Biology. Phase II Assessments include English I, Algebra II, Geometry, Government, and American History. 2011-12 marked the fourth operational year for the English II, Algebra I, and Biology assessments and the third operational year for the remaining subjects. This document is an addendum to both the *2010-2011 Missouri End-of-Course Assessments Technical Report Phase 1 Assessments* and the *2010-2011 Missouri End-of-Course Assessments Technical Report Phase II Assessments* and should be used in conjunction with those two reports.

Because of budget constraints, the Missouri Department of Elementary and Secondary Education (DESE) re-administered previous forms for each subject based on a specific administration schedule. Originally, the English II, Algebra I, and Biology forms included either a writing prompt or performance event depending on the subject. These forms were altered from the previous administration by the temporary suspension of the performance events (PEs) and writing prompts; therefore, the 2011-12 EOC Assessments consisted of only selected-response questions. The Riverside Publishing Company conducted a special study to analyze the impact of this removal. The results of this study are described in "Impact of Performance Event Removal," located in Appendix A.

Chapter 2: Test Development and Chapter 11: Validity of this addendum contain statistical analyses that provide evidence of construct validity[2] for all subjects. State-level EOC results (see Chapter 4: Item Analysis; Chapter 9: Summary Statistics; and Chapter 10: Reliability) are presented for all subject areas. Because the primary contractor for developing, administering, and reporting the MO EOC Assessments for grades 9-12 changed from the Riverside Publishing Company to Questar Assessment, Inc. (Questar) during the 2011-12 year, this addendum includes the necessary updates and clarifications on the scanning, scoring, quality control, and reporting

[1] The Missouri Department of Elementary and Secondary Education (DESE) expects teachers to adhere to Missouri's Course-Level Expectations (CLEs), found at http://dese.mo.gov/divimprove/curriculum/GLE/. These expectations give students, teachers, and administrators a clear and standardized framework for learning and teaching the ideas, concepts, skills, and processes for each subject area based on grade level.

[2] Construct validity is the ability of a test, such as the MO EOC Assessments, to legitimately and properly measure the construct – e.g., students' academic ability – it claims to be measuring. The construct validity evidence in this addendum comes from the statistics shown in the various tables.

procedures explained in Chapter 5: Test Administration; Chapter 6: Scanning, Scoring, and Quality Control Procedures; and Chapter 8: Reporting.

Because additional tables have been added to this addendum, the tables in this technical report do not always coincide with the table numbers in the 2010-11 technical reports. For further guidance to this addendum, Table 1.1 lists the sections, tables, and figures updated by chapter. The associated text was updated as well.

**Table 1.1 – Chapters, Sections, and Tables/Figures Updated for the 2011-12 Addendum**

| Chapter | Section | Phase | Table/Figure | 2011-12 Addendum Equivalent |
|---|---|---|---|---|
| 2: Test Development | 2.4 Test Specifications | Phase I | Tables 2.9, 2.11, and 2.13 | Tables 2.7 – 2.22 |
| | | Phase II | Tables 2.7 – 2.12<br>Tables 2.14 – 2.19<br>Tables 2.21 – 2.26<br>Tables 2.36 – 2.41<br>Tables 2.43 – 2.48 | |
| 4: Item Analysis | 4.1 Introduction<br>4.2 Analysis of forms for each End-of-Course Assessment | Phase I | Tables 4.1 – 4.9 | Tables 4.2 – 4.25 |
| | | Phase II | Tables 4.1 – 4.15 | |
| 5: Test Administration | 5.1 Introduction<br>5.4 Dissemination of Testing Materials and Information<br>5.5 District and Test Examiner Training<br>5.6 Test Security<br>5.7 Test Administration<br>5.8 Accommodations and Modifications | Phase I | Table 5.1 | Table 5.1 |
| | | Phase II | Table 5.1 | |
| | | Phases I and II | Figures 5.1 – 5.2 | Figures 5.1 – 5.2 |
| 6. Secure Material Accounting | 6.1 Introduction<br>6.2 Secure Materials Check-In Procedures | | | |
| 7. Scaling and Equating | 7.3 Scaling and Equating | Phase I | Tables 7.14 – 7.22 | Tables 7.48 – 7.63 |
| | | Phase II | Tables 7.48 – 7.62 | |
| 8: Reporting | 8.1 Introduction<br>8.2 Individual Student Report<br>8.3 Student Score Label<br>8.4 Online Crystal Reports (changed to Missouri Comprehensive Data System Portal) | Phases I and II | Figures 8.1 – 8.2 | Figures 8.1 – 8.2 |

| Chapter | Section | Phase | Table/Figure | 2011-12 Addendum Equivalent |
|---|---|---|---|---|
| 9: Summary Statistics | 9.1 Introduction<br>9.2 Descriptive Statistics for Total Raw Score<br>9.3 Descriptive Statistics for Total Raw Score by Cluster<br>9.4 Descriptive Statistics for Scale Scores by Test Period and Subject<br>9.5 Descriptive Statistics by Demographic Group | Phases I and II | Tables 9.1 – 9.3 | Tables 9.1 – 9.3 |
| | | Phases I and II | Table 9.4 | Table 9.5 |
| | | Phases I and II | Tables 9.5 – 9.20 | Tables 9.7 – 9.22 |
| 10: Reliability | 10.3 Evidence of Raw-Score Internal Consistency<br>10.5 Reliability of Classifications | Phase I | Tables 10.1 – 10.9 | Tables 10.1 – 10.24 |
| | | Phase II | Tables 10.1 – 10.25 | |
| | | Phase I | Tables 10.11 – 10.14 | Tables 10.27 – 10.30 |
| | | Phase II | Tables 10.27 – 10.30 | |
| 11: Validity | 11.6 (Phase I) and 11.5 (Phase II) Validity Evidence Based on the Internal Structure of the MO EOC Assessments<br>11.7 (Phase I) and 11.6 (Phase II) Discriminant Validity Evidence for the MO EOC Assessments | Phases I and II | Tables 11.1 – 11.3 | Tables 11.1 – 11.6 |
| | | Phases I and II | Table 11.5 | Table 11.7 |

## Chapter 2: Test Development

### 2.4 Test Specifications

Tables 2.7 – 2.22 indicate both the test blueprint point distributions and the actual point distributions for the operational forms for each subject's reporting categories, or content strands, for the Fall 2011 and Spring 2012 administrations; the Summer 2011 point distributions mirrored Spring 2012 because the same forms were used. Because the MO EOC Assessments were all selected-response items worth one point, the number of items is equal to the number of points for all content strands for each subject.

**Table 2.7 – Actual Point Distributions for the Algebra I Operational Form, Summer 2011/Spring2012**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Spring 2012 | Algebra I | Numbers and Operations | 7-9 | 8 |
| | | Algebraic Relationships | 17-21 | 19 |
| | | Data and Probability | 7-9 | 8 |
| | | **Total # Items/Points** | **35** | **35** |

**Table 2.8 – Actual Point Distributions for the Algebra II Operational Form, Summer 2011/Spring2012**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Spring 2012 | Algebra II | Numbers and Operations | 7-9 | 9 |
| | | Algebraic Relationships | 20-24 | 22 |
| | | Data and Probability | 9-11 | 9 |
| | | **Total # Items/Points** | **40** | **40** |

**Table 2.9 – Actual Point Distributions for the American History Operational Form, Summer 2011/Spring2012**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Spring 2012 | American History | History | 14-18 | 12 |
| | | Government | 7-9 | 12 |
| | | Economics | 7-9 | 8 |
| | | Geography | 7-9 | 8 |
| | | **Total # Items/Points** | **40** | **40** |

**Table 2.10 – Actual Point Distributions for the Biology Operational Form, Summer 2011/Spring2012**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Spring 2012 | Biology | Characteristics and Interactions of Living Organisms | 20-24 | 22 |
| | | Changes in Ecosystems and Interactions of Organisms with Their Environments | 12-14 | 13 |
| | | **Total # Items/Points** | **35** | **35** |

**Table 2.11 – Actual Point Distributions for the English I Operational Form, Summer 2011/Spring2012**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Spring 2012 | English I | Develop and apply skills and strategies to the reading process | 13–17 | 12 |
| | | Develop and apply skills and strategies to comprehend, analyze, and evaluate fiction, poetry, and drama | 10–14 | 17 |
| | | Develop and apply skills and strategies to comprehend, analyze, and evaluate nonfiction | 11–15 | 11 |
| | | **Total # Items/Points** | **40** | **40** |

**Table 2.12 – Actual Point Distributions for the English II Operational Form, Summer 2011/Spring2012**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Spring 2012 | English II | Reading Process | 10-14 | 14 |
| | | Reading (fiction) | 8-11 | 9 |
| | | Reading (nonfiction) | 8-11 | 7 |
| | | Writing | 4-5 | 5 |
| | | **Total # Items/Points** | **35** | **35** |

**Table 2.13 – Actual Point Distributions for the Geometry Operational Form, Summer 2011/Spring2012**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Spring 2012 | Geometry | Algebraic Relationships | 7-9 | 8 |
| | | Geometric and Spatial Relationships | 22-26 | 24 |
| | | Measurement | 7-9 | 8 |
| | | **Total # Items/Points** | **40** | **40** |

**Table 2.14 – Actual Point Distributions for the Government Operational Form, Summer 2011/Spring2012**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint | Actual |
| | | | # Items/Points | # Items/Points |
| Spring 2012 | Government | Principles of Constitutional Democracy | 18-22 | 20 |
| | | Principles and Processes of Governance Systems | 18-22 | 20 |
| | | **Total # Items/Points** | **40** | **40** |

**Table 2.15 – Actual Point Distributions for the Algebra I Operational Form, Fall 2011**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint | Actual |
| | | | # Items/Points | # Items/Points |
| Fall 2011 | Algebra I | Numbers and Operations | 7-9 | 8 |
| | | Algebraic Relationships | 17-21 | 19 |
| | | Data and Probability | 7-9 | 8 |
| | | **Total # Items/Points** | **35** | **35** |

**Table 2.16 – Actual Point Distributions for the Algebra II Operational Form, Fall 2011**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint | Actual |
| | | | # Items/Points | # Items/Points |
| Fall 2011 | Algebra II | Numbers and Operations | 7-9 | 8 |
| | | Algebraic Relationships | 20-24 | 22 |
| | | Data and Probability | 9-11 | 10 |
| | | **Total # Items/Points** | **40** | **40** |

**Table 2.17 – Actual Point Distributions for the American History Operational Form, Fall 2011**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Fall 2011 | American History | History | 14-18 | 12 |
| | | Government | 7-9 | 12 |
| | | Economics | 7-9 | 8 |
| | | Geography | 7-9 | 8 |
| | | **Total # Items/Points** | **40** | **40** |

**Table 2.18 – Actual Point Distributions for the Biology Operational Form, Fall 2011**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Fall 2011 | Biology | Characteristics and Interactions of Living Organisms | 20-24 | 22 |
| | | Changes in Ecosystems and Interactions of Organisms with Their Environments | 12-24 | 13 |
| | | **Total # Items/Points** | **35** | **35** |

**Table 2.19 – Actual Point Distributions for the English I Operational Form, Fall 2011**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Fall 2011 | English I | Develop and apply skills and strategies to the reading process | 13–17 | 14 |
| | | Develop and apply skills and strategies to comprehend, analyze, and evaluate fiction, poetry, and drama | 10–14 | 11 |
| | | Develop and apply skills and strategies to comprehend, analyze, and evaluate nonfiction | 11–15 | 15 |
| | | **Total # Items/Points** | **40** | **40** |

**Table 2.20 – Actual Point Distributions for the English II Operational Form, Fall 2011**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Fall 2011 | English II | Reading Process | 10-14 | 11 |
| | | Reading (fiction) | 8-11 | 8 |
| | | Reading (nonfiction) | 8-11 | 11 |
| | | Writing | 4-5 | 5 |
| | | **Total # Items/Points** | **35** | **35** |

**Table 2.21 – Actual Point Distributions for the Geometry Operational Form, Fall 2011**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Fall 2011 | Geometry | Algebraic Relationships | 7-9 | 8 |
| | | Geometric and Spatial Relationships | 22-26 | 24 |
| | | Measurement | 7-9 | 8 |
| | | **Total # Items/Points** | **40** | **40** |

**Table 2.22 – Actual Point Distributions for the Government Operational Form, Fall 2011**

| Form Blueprint | | | | |
|---|---|---|---|---|
| Test Period | Subject | Content Strand | Blueprint # Items/Points | Actual # Items/Points |
| Fall 2011 | Government | Principles of Constitutional Democracy | 18-22 | 20 |
| | | Principles and Processes of Governance Systems | 18-22 | 20 |
| | | **Total # Items/Points** | **40** | **40** |

## Chapter 3: Achievement-Level Setting

No changes to this chapter. Please see the *2010-2011 Missouri End-of-Course Assessments Technical Report Phase 1 Assessments* and the *2010-2011 Missouri End-of-Course Assessments Technical Report Phase II Assessments*.

## Chapter 4: Item Analysis

### 4.1 Introduction

Item analyses[3] were conducted for all content areas assessed by the MO EOC Assessments: Algebra I, Algebra II, American History, Biology, English I, English II, Geometry, and Government. Summary information is included at the item level for each subject. All summary information is based on the operational administrations from Summer 2011, Fall 2011, and Spring 2012. Table 4.1 lists the number of examinees by subject for each administration that were used in the analyses.

**Table 4.1 – N-Count per Subject for Each Administration**

| Test Period | Subject | N-Count |
|---|---|---|
| Summer 2011 | Algebra I | 629 |
| | Algebra II | 124 |
| | American History | 185 |
| | Biology | 279 |
| | English I | 246 |
| | English II | 313 |
| | Geometry | 192 |
| | Government | 821 |
| | **Total** | **2,789** |
| Fall 2011 | Algebra I | 3,999 |
| | Algebra II | 514 |
| | American History | 831 |
| | Biology | 3,029 |
| | English I | 220 |
| | English II | 3,022 |
| | Geometry | 729 |
| | Government | 17,228 |
| | **Total** | **29,572** |
| Spring 2012 | Algebra I | 64,446 |
| | Algebra II | 25,150 |
| | American History | 38,571 |
| | Biology | 61,746 |
| | English I | 44,303 |
| | English II | 62,024 |
| | Geometry | 30,251 |
| | Government | 40,199 |
| | **Total** | **366,690** |

[3] Item analysis is a statistical process that examines students' answers to a test item to assess the quality of the item- e.g., the item difficulty and discrimination – and its relation to the quality of the test as a whole.

### 4.2 Analysis of Forms for each End-of-Course Assessment

Tables 4.2 – 4.25 summarize the item difficulty[4], item discrimination[5], and omit rates by item for each assessment administered in Summer 2011, Fall 2011, and Spring 2012. For each item, the *p*-value is the proportion of students who answered the item correctly. Typically, items are expected to cover a broad range of *p*-values within a test form – e.g., between 0.30 and 0.95. The item discrimination, or corrected point-biserial correlation, is the correlation between students' item scores and their total scores on the remaining test items. Items are oftentimes selected to have a point-biserial value greater than 0.30. Both item difficulty and item discrimination are expressed in the raw score metric.

When building a test form, care is taken to refrain from choosing items with *p*-values less than 0.30 or greater than 0.95, or negative point biserials. When *p*-values and point biserials are out of range, the answer keys are checked to verify that they are correct. As can be seen from the tables below, it is possible that these restrictions do not keep analyses conducted post-administration from resulting in values outisde of the typical ranges. For example, an item appearing on the American History exam (see Table 4.4) administered in Summer 2011 has a negative point-biserial. It is possible that this occurred based on the small sample size for that particular exam or because of the population that typically takes the exam during the summer administrations.

[4] Item difficulty (*p*-value) is the percentage of students who answered an item correctly. The lower the value, the harder the item is; the higher the value, the easier the item is.

[5] Item discrimination (point-biserial correlation) is the correlation between how well students did on the item and their total assessment score on the remaining test items. Students who did well on the test should, in theory, select the correct answer to any given item, and students who did poorly on the test should select the incorrect answer to any given item.

**Table 4.2 – Item Statistics for Algebra I, Summer 2011**

N-Count: 629

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.80 | 0.28 | 0.00 |
| 2 | 0.47 | 0.29 | 0.00 |
| 3 | 0.76 | 0.26 | 0.00 |
| 4 | 0.59 | 0.37 | 0.00 |
| 5 | 0.61 | 0.27 | 0.01 |
| 6 | 0.70 | 0.27 | 0.00 |
| 7 | 0.72 | 0.31 | 0.00 |
| 8 | 0.71 | 0.38 | 0.00 |
| 9 | 0.83 | 0.25 | 0.00 |
| 10 | 0.68 | 0.32 | 0.00 |
| 11 | 0.71 | 0.28 | 0.00 |
| 12 | 0.76 | 0.33 | 0.00 |
| 13 | 0.57 | 0.33 | 0.00 |
| 14 | 0.69 | 0.39 | 0.00 |
| 15 | 0.67 | 0.45 | 0.00 |
| 16 | 0.50 | 0.38 | 0.00 |
| 17 | 0.48 | 0.30 | 0.00 |
| 18 | 0.55 | 0.27 | 0.00 |
| 19 | 0.47 | 0.34 | 0.00 |
| 20 | 0.57 | 0.28 | 0.00 |
| 21 | 0.43 | 0.28 | 0.00 |
| 22 | 0.46 | 0.40 | 0.00 |
| 23 | 0.40 | 0.17 | 0.00 |
| 24 | 0.32 | 0.33 | 0.00 |
| 25 | 0.62 | 0.32 | 0.00 |
| 26 | 0.39 | 0.17 | 0.00 |
| 27 | 0.36 | 0.40 | 0.00 |
| 28 | 0.32 | 0.21 | 0.00 |
| 29 | 0.23 | 0.14 | 0.00 |
| 30 | 0.40 | 0.19 | 0.00 |
| 31 | 0.28 | 0.13 | 0.00 |
| 32 | 0.36 | 0.16 | 0.00 |
| 33 | 0.26 | 0.33 | 0.00 |
| 34 | 0.21 | 0.27 | 0.00 |
| 35 | 0.39 | 0.25 | 0.00 |

**Table 4.3 – Item Statistics for Algebra II, Summer 2011**

N-Count: 124

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.56 | 0.18 | 0.00 |
| 2 | 0.48 | 0.15 | 0.00 |
| 3 | 0.74 | 0.20 | 0.00 |
| 4 | 0.33 | 0.14 | 0.02 |
| 5 | 0.24 | 0.30 | 0.01 |
| 6 | 0.58 | 0.34 | 0.00 |
| 7 | 0.30 | 0.30 | 0.00 |
| 8 | 0.33 | 0.03 | 0.02 |
| 9 | 0.53 | 0.26 | 0.01 |
| 10 | 0.40 | 0.24 | 0.01 |
| 11 | 0.28 | 0.49 | 0.02 |
| 12 | 0.28 | 0.18 | 0.00 |
| 13 | 0.35 | 0.34 | 0.00 |
| 14 | 0.48 | 0.33 | 0.02 |
| 15 | 0.33 | 0.07 | 0.01 |
| 16 | 0.29 | 0.18 | 0.01 |
| 17 | 0.52 | 0.25 | 0.01 |
| 18 | 0.35 | 0.23 | 0.02 |
| 19 | 0.15 | 0.13 | 0.02 |
| 20 | 0.35 | 0.36 | 0.02 |
| 21 | 0.35 | 0.18 | 0.02 |
| 22 | 0.52 | 0.18 | 0.02 |
| 23 | 0.17 | 0.30 | 0.02 |
| 24 | 0.48 | 0.16 | 0.02 |
| 25 | 0.31 | 0.33 | 0.02 |
| 26 | 0.35 | 0.21 | 0.02 |
| 27 | 0.56 | 0.19 | 0.02 |
| 28 | 0.44 | 0.25 | 0.02 |
| 29 | 0.15 | 0.34 | 0.02 |
| 30 | 0.56 | 0.27 | 0.02 |
| 31 | 0.29 | 0.24 | 0.02 |
| 32 | 0.31 | 0.32 | 0.02 |
| 33 | 0.54 | 0.32 | 0.02 |
| 34 | 0.27 | 0.13 | 0.02 |
| 35 | 0.33 | 0.17 | 0.02 |
| 36 | 0.45 | 0.27 | 0.02 |
| 37 | 0.33 | 0.26 | 0.02 |
| 38 | 0.56 | 0.22 | 0.02 |
| 39 | 0.29 | 0.15 | 0.02 |
| 40 | 0.49 | 0.35 | 0.02 |

**Table 4.4 – Item Statistics for American History, Summer 2011**

N-Count: 185

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.54 | 0.43 | 0.00 |
| 2 | 0.41 | 0.27 | 0.01 |
| 3 | 0.82 | 0.31 | 0.00 |
| 4 | 0.69 | 0.28 | 0.00 |
| 5 | 0.68 | 0.30 | 0.00 |
| 6 | 0.70 | 0.32 | 0.00 |
| 7 | 0.64 | 0.30 | 0.00 |
| 8 | 0.56 | 0.30 | 0.00 |
| 9 | 0.38 | 0.20 | 0.00 |
| 10 | 0.40 | 0.25 | 0.01 |
| 11 | 0.43 | 0.02 | 0.00 |
| 12 | 0.28 | -.03 | 0.00 |
| 13 | 0.35 | 0.16 | 0.00 |
| 14 | 0.42 | 0.25 | 0.00 |
| 15 | 0.40 | 0.18 | 0.00 |
| 16 | 0.65 | 0.17 | 0.01 |
| 17 | 0.27 | 0.15 | 0.00 |
| 18 | 0.58 | 0.44 | 0.01 |
| 19 | 0.30 | 0.31 | 0.01 |
| 20 | 0.39 | 0.09 | 0.01 |
| 21 | 0.24 | 0.10 | 0.01 |
| 22 | 0.46 | 0.12 | 0.01 |
| 23 | 0.37 | 0.10 | 0.01 |
| 24 | 0.38 | 0.20 | 0.01 |
| 25 | 0.37 | 0.11 | 0.01 |
| 26 | 0.50 | 0.28 | 0.01 |
| 27 | 0.30 | 0.02 | 0.01 |
| 28 | 0.52 | 0.29 | 0.01 |
| 29 | 0.34 | 0.11 | 0.01 |
| 30 | 0.56 | 0.26 | 0.01 |
| 31 | 0.42 | 0.23 | 0.01 |
| 32 | 0.58 | 0.43 | 0.01 |
| 33 | 0.59 | 0.16 | 0.01 |
| 34 | 0.55 | 0.32 | 0.01 |
| 35 | 0.55 | 0.40 | 0.01 |
| 36 | 0.51 | 0.48 | 0.02 |
| 37 | 0.41 | 0.12 | 0.02 |
| 38 | 0.48 | 0.24 | 0.01 |
| 39 | 0.37 | 0.32 | 0.01 |
| 40 | 0.54 | 0.20 | 0.01 |

**Table 4.5 – Item Statistics for Biology, Summer 2011**

N-Count: 279

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.81 | 0.31 | 0.01 |
| 2 | 0.46 | 0.17 | 0.00 |
| 3 | 0.84 | 0.38 | 0.00 |
| 4 | 0.27 | 0.07 | 0.00 |
| 5 | 0.41 | 0.41 | 0.00 |
| 6 | 0.89 | 0.30 | 0.01 |
| 7 | 0.64 | 0.27 | 0.00 |
| 8 | 0.46 | 0.33 | 0.00 |
| 9 | 0.53 | 0.33 | 0.00 |
| 10 | 0.49 | 0.50 | 0.00 |
| 11 | 0.61 | 0.35 | 0.01 |
| 12 | 0.63 | 0.30 | 0.00 |
| 13 | 0.55 | 0.32 | 0.00 |
| 14 | 0.36 | 0.10 | 0.00 |
| 15 | 0.54 | 0.29 | 0.00 |
| 16 | 0.81 | 0.27 | 0.00 |
| 17 | 0.46 | 0.46 | 0.00 |
| 18 | 0.37 | 0.22 | 0.00 |
| 19 | 0.59 | 0.31 | 0.00 |
| 20 | 0.33 | 0.41 | 0.00 |
| 21 | 0.65 | 0.35 | 0.00 |
| 22 | 0.46 | 0.25 | 0.00 |
| 23 | 0.31 | 0.17 | 0.00 |
| 24 | 0.38 | 0.25 | 0.00 |
| 25 | 0.56 | 0.42 | 0.00 |
| 26 | 0.63 | 0.50 | 0.00 |
| 27 | 0.73 | 0.21 | 0.00 |
| 28 | 0.52 | 0.11 | 0.00 |
| 29 | 0.48 | 0.12 | 0.00 |
| 30 | 0.46 | 0.25 | 0.00 |
| 31 | 0.48 | 0.24 | 0.00 |
| 32 | 0.34 | 0.36 | 0.00 |
| 33 | 0.49 | 0.22 | 0.00 |
| 34 | 0.54 | 0.42 | 0.00 |
| 35 | 0.25 | 0.32 | 0.00 |

**Table 4.6 – Item Statistics for English I, Summer 2011**

N-Count: 246

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.57 | 0.25 | 0.00 |
| 2 | 0.47 | 0.02 | 0.00 |
| 3 | 0.37 | 0.18 | 0.00 |
| 4 | 0.56 | 0.46 | 0.00 |
| 5 | 0.64 | 0.15 | 0.00 |
| 6 | 0.33 | 0.04 | 0.00 |
| 7 | 0.71 | 0.50 | 0.00 |
| 8 | 0.74 | 0.12 | 0.00 |
| 9 | 0.69 | 0.42 | 0.00 |
| 10 | 0.60 | 0.28 | 0.00 |
| 11 | 0.62 | 0.39 | 0.00 |
| 12 | 0.48 | 0.41 | 0.00 |
| 13 | 0.59 | 0.44 | 0.00 |
| 14 | 0.42 | 0.24 | 0.00 |
| 15 | 0.46 | 0.25 | 0.00 |
| 16 | 0.66 | 0.27 | 0.00 |
| 17 | 0.59 | 0.47 | 0.00 |
| 18 | 0.31 | 0.30 | 0.00 |
| 19 | 0.41 | 0.30 | 0.00 |
| 20 | 0.69 | 0.36 | 0.00 |
| 21 | 0.50 | 0.38 | 0.00 |
| 22 | 0.54 | 0.40 | 0.00 |
| 23 | 0.78 | 0.14 | 0.00 |
| 24 | 0.50 | 0.38 | 0.00 |
| 25 | 0.67 | 0.34 | 0.00 |
| 26 | 0.44 | 0.18 | 0.00 |
| 27 | 0.57 | 0.19 | 0.00 |
| 28 | 0.46 | 0.42 | 0.00 |
| 29 | 0.47 | 0.44 | 0.00 |
| 30 | 0.43 | 0.10 | 0.00 |
| 31 | 0.35 | 0.21 | 0.00 |
| 32 | 0.59 | 0.35 | 0.00 |
| 33 | 0.55 | 0.30 | 0.00 |
| 34 | 0.62 | 0.40 | 0.00 |
| 35 | 0.46 | 0.42 | 0.00 |
| 36 | 0.60 | 0.58 | 0.00 |
| 37 | 0.40 | 0.29 | 0.00 |
| 38 | 0.32 | 0.30 | 0.00 |
| 39 | 0.42 | 0.13 | 0.00 |
| 40 | 0.50 | 0.37 | 0.00 |

**Table 4.7 – Item Statistics for English II, Summer 2011**

N-Count: 313

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.85 | 0.17 | 0.00 |
| 2 | 0.73 | 0.40 | 0.00 |
| 3 | 0.60 | 0.38 | 0.00 |
| 4 | 0.89 | 0.38 | 0.00 |
| 5 | 0.30 | 0.01 | 0.00 |
| 6 | 0.25 | 0.23 | 0.00 |
| 7 | 0.84 | 0.17 | 0.00 |
| 8 | 0.57 | 0.24 | 0.00 |
| 9 | 0.74 | 0.31 | 0.00 |
| 10 | 0.57 | 0.38 | 0.00 |
| 11 | 0.31 | 0.18 | 0.00 |
| 12 | 0.40 | 0.11 | 0.00 |
| 13 | 0.34 | 0.26 | 0.00 |
| 14 | 0.90 | 0.31 | 0.00 |
| 15 | 0.62 | 0.56 | 0.00 |
| 16 | 0.42 | 0.20 | 0.00 |
| 17 | 0.54 | 0.30 | 0.00 |
| 18 | 0.57 | 0.24 | 0.00 |
| 19 | 0.73 | 0.48 | 0.00 |
| 20 | 0.25 | 0.14 | 0.00 |
| 21 | 0.45 | 0.16 | 0.00 |
| 22 | 0.73 | 0.44 | 0.00 |
| 23 | 0.43 | 0.21 | 0.00 |
| 24 | 0.74 | 0.38 | 0.00 |
| 25 | 0.58 | 0.44 | 0.00 |
| 26 | 0.65 | 0.50 | 0.00 |
| 27 | 0.59 | 0.22 | 0.00 |
| 28 | 0.52 | 0.42 | 0.00 |
| 29 | 0.57 | 0.42 | 0.00 |
| 30 | 0.75 | 0.47 | 0.00 |
| 31 | 0.39 | 0.18 | 0.00 |
| 32 | 0.23 | 0.07 | 0.00 |
| 33 | 0.58 | 0.21 | 0.00 |
| 34 | 0.27 | 0.19 | 0.00 |
| 35 | 0.60 | 0.26 | 0.01 |

**Table 4.8 – Item Statistics for Geometry, Summer 2011**

N-Count: 192

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.62 | 0.39 | 0.01 |
| 2 | 0.66 | 0.23 | 0.00 |
| 3 | 0.64 | 0.18 | 0.00 |
| 4 | 0.33 | 0.35 | 0.00 |
| 5 | 0.77 | 0.25 | 0.00 |
| 6 | 0.75 | 0.29 | 0.00 |
| 7 | 0.40 | 0.26 | 0.00 |
| 8 | 0.27 | 0.17 | 0.00 |
| 9 | 0.55 | 0.19 | 0.00 |
| 10 | 0.50 | 0.30 | 0.00 |
| 11 | 0.64 | -.01 | 0.00 |
| 12 | 0.59 | 0.38 | 0.00 |
| 13 | 0.54 | 0.19 | 0.00 |
| 14 | 0.24 | 0.22 | 0.00 |
| 15 | 0.55 | 0.27 | 0.00 |
| 16 | 0.60 | 0.34 | 0.00 |
| 17 | 0.24 | 0.16 | 0.00 |
| 18 | 0.56 | 0.39 | 0.00 |
| 19 | 0.51 | 0.39 | 0.01 |
| 20 | 0.41 | 0.18 | 0.01 |
| 21 | 0.43 | 0.20 | 0.00 |
| 22 | 0.36 | 0.17 | 0.00 |
| 23 | 0.54 | 0.05 | 0.00 |
| 24 | 0.47 | 0.25 | 0.00 |
| 25 | 0.41 | 0.14 | 0.00 |
| 26 | 0.56 | 0.37 | 0.00 |
| 27 | 0.31 | 0.18 | 0.00 |
| 28 | 0.48 | 0.04 | 0.00 |
| 29 | 0.61 | 0.40 | 0.00 |
| 30 | 0.27 | 0.04 | 0.00 |
| 31 | 0.46 | 0.16 | 0.00 |
| 32 | 0.65 | 0.33 | 0.00 |
| 33 | 0.69 | 0.25 | 0.00 |
| 34 | 0.37 | -.03 | 0.00 |
| 35 | 0.67 | 0.46 | 0.00 |
| 36 | 0.33 | 0.12 | 0.00 |
| 37 | 0.51 | 0.24 | 0.00 |
| 38 | 0.63 | 0.20 | 0.00 |
| 39 | 0.27 | 0.06 | 0.00 |
| 40 | 0.34 | 0.22 | 0.00 |

**Table 4.9 – Item Statistics for Government, Summer 2011**

N-Count: 821

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.73 | 0.44 | 0.00 |
| 2 | 0.55 | 0.46 | 0.00 |
| 3 | 0.80 | 0.39 | 0.00 |
| 4 | 0.74 | 0.32 | 0.00 |
| 5 | 0.91 | 0.28 | 0.00 |
| 6 | 0.72 | 0.37 | 0.00 |
| 7 | 0.81 | 0.42 | 0.00 |
| 8 | 0.72 | 0.37 | 0.00 |
| 9 | 0.69 | 0.36 | 0.00 |
| 10 | 0.53 | 0.25 | 0.00 |
| 11 | 0.55 | 0.25 | 0.00 |
| 12 | 0.68 | 0.30 | 0.00 |
| 13 | 0.74 | 0.43 | 0.00 |
| 14 | 0.65 | 0.32 | 0.00 |
| 15 | 0.56 | 0.25 | 0.00 |
| 16 | 0.74 | 0.17 | 0.00 |
| 17 | 0.31 | 0.17 | 0.00 |
| 18 | 0.31 | 0.23 | 0.00 |
| 19 | 0.61 | 0.29 | 0.00 |
| 20 | 0.61 | 0.45 | 0.00 |
| 21 | 0.42 | 0.34 | 0.00 |
| 22 | 0.39 | 0.17 | 0.00 |
| 23 | 0.52 | 0.37 | 0.00 |
| 24 | 0.60 | 0.40 | 0.00 |
| 25 | 0.59 | 0.43 | 0.00 |
| 26 | 0.31 | 0.16 | 0.00 |
| 27 | 0.47 | 0.49 | 0.00 |
| 28 | 0.34 | 0.20 | 0.00 |
| 29 | 0.68 | 0.35 | 0.00 |
| 30 | 0.39 | 0.38 | 0.00 |
| 31 | 0.51 | 0.40 | 0.00 |
| 32 | 0.74 | 0.29 | 0.00 |
| 33 | 0.69 | 0.41 | 0.00 |
| 34 | 0.48 | 0.25 | 0.00 |
| 35 | 0.79 | 0.43 | 0.00 |
| 36 | 0.70 | 0.37 | 0.00 |
| 37 | 0.59 | 0.26 | 0.00 |
| 38 | 0.79 | 0.40 | 0.00 |
| 39 | 0.68 | 0.34 | 0.00 |
| 40 | 0.83 | 0.25 | 0.00 |

**Table 4.10 – Item Statistics for Algebra I, Fall 2011**

N-Count: 3,999

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.71 | 0.46 | 0.00 |
| 2 | 0.73 | 0.52 | 0.00 |
| 3 | 0.60 | 0.33 | 0.00 |
| 4 | 0.82 | 0.41 | 0.00 |
| 5 | 0.69 | 0.51 | 0.00 |
| 6 | 0.84 | 0.46 | 0.00 |
| 7 | 0.76 | 0.51 | 0.00 |
| 8 | 0.71 | 0.56 | 0.00 |
| 9 | 0.48 | 0.52 | 0.00 |
| 10 | 0.65 | 0.50 | 0.00 |
| 11 | 0.67 | 0.46 | 0.00 |
| 12 | 0.51 | 0.32 | 0.00 |
| 13 | 0.53 | 0.42 | 0.00 |
| 14 | 0.53 | 0.44 | 0.00 |
| 15 | 0.56 | 0.54 | 0.00 |
| 16 | 0.53 | 0.45 | 0.00 |
| 17 | 0.62 | 0.44 | 0.00 |
| 18 | 0.57 | 0.42 | 0.00 |
| 19 | 0.47 | 0.52 | 0.00 |
| 20 | 0.64 | 0.52 | 0.00 |
| 21 | 0.63 | 0.44 | 0.00 |
| 22 | 0.54 | 0.54 | 0.00 |
| 23 | 0.56 | 0.28 | 0.00 |
| 24 | 0.67 | 0.47 | 0.00 |
| 25 | 0.50 | 0.39 | 0.00 |
| 26 | 0.62 | 0.63 | 0.00 |
| 27 | 0.52 | 0.58 | 0.00 |
| 28 | 0.58 | 0.47 | 0.00 |
| 29 | 0.32 | 0.15 | 0.00 |
| 30 | 0.34 | 0.36 | 0.00 |
| 31 | 0.31 | 0.42 | 0.00 |
| 32 | 0.25 | -.01 | 0.00 |
| 33 | 0.40 | 0.25 | 0.00 |
| 34 | 0.43 | 0.39 | 0.00 |
| 35 | 0.37 | 0.52 | 0.00 |

**Table 4.11 – Item Statistics for Algebra II, Fall 2011**

N-Count: 514

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.75 | 0.40 | 0.00 |
| 2 | 0.82 | 0.27 | 0.00 |
| 3 | 0.81 | 0.44 | 0.00 |
| 4 | 0.67 | 0.32 | 0.00 |
| 5 | 0.85 | 0.28 | 0.00 |
| 6 | 0.70 | 0.42 | 0.00 |
| 7 | 0.83 | 0.49 | 0.00 |
| 8 | 0.51 | 0.16 | 0.00 |
| 9 | 0.78 | 0.48 | 0.00 |
| 10 | 0.68 | 0.35 | 0.00 |
| 11 | 0.86 | 0.18 | 0.00 |
| 12 | 0.49 | 0.29 | 0.00 |
| 13 | 0.81 | 0.39 | 0.00 |
| 14 | 0.83 | 0.38 | 0.00 |
| 15 | 0.61 | 0.25 | 0.00 |
| 16 | 0.69 | 0.32 | 0.00 |
| 17 | 0.66 | 0.30 | 0.00 |
| 18 | 0.64 | 0.49 | 0.00 |
| 19 | 0.44 | 0.28 | 0.00 |
| 20 | 0.76 | 0.41 | 0.00 |
| 21 | 0.61 | 0.42 | 0.00 |
| 22 | 0.89 | 0.37 | 0.00 |
| 23 | 0.68 | 0.44 | 0.00 |
| 24 | 0.54 | 0.36 | 0.00 |
| 25 | 0.83 | 0.30 | 0.00 |
| 26 | 0.42 | 0.29 | 0.00 |
| 27 | 0.78 | 0.45 | 0.00 |
| 28 | 0.69 | 0.50 | 0.00 |
| 29 | 0.79 | 0.43 | 0.00 |
| 30 | 0.60 | 0.36 | 0.00 |
| 31 | 0.80 | 0.35 | 0.00 |
| 32 | 0.57 | 0.23 | 0.00 |
| 33 | 0.68 | 0.37 | 0.00 |
| 34 | 0.60 | 0.42 | 0.00 |
| 35 | 0.72 | 0.38 | 0.00 |
| 36 | 0.54 | 0.29 | 0.00 |
| 37 | 0.58 | 0.42 | 0.00 |
| 38 | 0.53 | 0.33 | 0.00 |
| 39 | 0.57 | 0.38 | 0.00 |
| 40 | 0.56 | 0.27 | 0.00 |

**Table 4.12 – Item Statistics for American History, Fall 2011**

N-Count: 831

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.65 | 0.31 | 0.00 |
| 2 | 0.66 | 0.35 | 0.00 |
| 3 | 0.63 | 0.31 | 0.00 |
| 4 | 0.83 | 0.37 | 0.00 |
| 5 | 0.40 | 0.30 | 0.00 |
| 6 | 0.64 | 0.34 | 0.00 |
| 7 | 0.65 | 0.25 | 0.00 |
| 8 | 0.59 | 0.38 | 0.00 |
| 9 | 0.65 | 0.42 | 0.00 |
| 10 | 0.33 | 0.05 | 0.00 |
| 11 | 0.68 | 0.53 | 0.00 |
| 12 | 0.51 | 0.39 | 0.00 |
| 13 | 0.66 | 0.16 | 0.00 |
| 14 | 0.47 | 0.33 | 0.00 |
| 15 | 0.51 | 0.12 | 0.00 |
| 16 | 0.85 | 0.19 | 0.00 |
| 17 | 0.70 | 0.45 | 0.00 |
| 18 | 0.48 | 0.22 | 0.00 |
| 19 | 0.40 | 0.16 | 0.00 |
| 20 | 0.54 | 0.29 | 0.00 |
| 21 | 0.47 | 0.16 | 0.00 |
| 22 | 0.63 | 0.39 | 0.00 |
| 23 | 0.48 | 0.19 | 0.00 |
| 24 | 0.48 | 0.29 | 0.00 |
| 25 | 0.46 | 0.28 | 0.00 |
| 26 | 0.85 | 0.35 | 0.00 |
| 27 | 0.61 | 0.20 | 0.00 |
| 28 | 0.34 | 0.24 | 0.00 |
| 29 | 0.64 | 0.46 | 0.00 |
| 30 | 0.62 | 0.39 | 0.00 |
| 31 | 0.72 | 0.42 | 0.00 |
| 32 | 0.81 | 0.34 | 0.00 |
| 33 | 0.31 | 0.13 | 0.00 |
| 34 | 0.58 | 0.47 | 0.00 |
| 35 | 0.63 | 0.42 | 0.00 |
| 36 | 0.66 | 0.22 | 0.00 |
| 37 | 0.54 | 0.44 | 0.00 |
| 38 | 0.75 | 0.45 | 0.00 |
| 39 | 0.63 | 0.45 | 0.01 |
| 40 | 0.74 | 0.42 | 0.00 |

**Table 4.13 – Item Statistics for Biology, Fall 2011**

N-Count: 3,029

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.89 | 0.36 | 0.00 |
| 2 | 0.89 | 0.29 | 0.00 |
| 3 | 0.81 | 0.33 | 0.00 |
| 4 | 0.70 | 0.41 | 0.00 |
| 5 | 0.78 | 0.36 | 0.00 |
| 6 | 0.76 | 0.43 | 0.00 |
| 7 | 0.65 | 0.54 | 0.00 |
| 8 | 0.70 | 0.50 | 0.00 |
| 9 | 0.68 | 0.21 | 0.00 |
| 10 | 0.52 | 0.43 | 0.00 |
| 11 | 0.52 | 0.32 | 0.00 |
| 12 | 0.72 | 0.42 | 0.00 |
| 13 | 0.57 | 0.36 | 0.00 |
| 14 | 0.45 | 0.55 | 0.00 |
| 15 | 0.59 | 0.45 | 0.00 |
| 16 | 0.73 | 0.43 | 0.00 |
| 17 | 0.51 | 0.35 | 0.00 |
| 18 | 0.55 | 0.43 | 0.00 |
| 19 | 0.56 | 0.41 | 0.00 |
| 20 | 0.60 | 0.54 | 0.00 |
| 21 | 0.54 | 0.48 | 0.00 |
| 22 | 0.66 | 0.50 | 0.00 |
| 23 | 0.52 | 0.42 | 0.00 |
| 24 | 0.37 | 0.18 | 0.00 |
| 25 | 0.45 | 0.36 | 0.00 |
| 26 | 0.48 | 0.34 | 0.00 |
| 27 | 0.42 | 0.13 | 0.00 |
| 28 | 0.48 | 0.42 | 0.00 |
| 29 | 0.49 | 0.36 | 0.00 |
| 30 | 0.40 | 0.24 | 0.00 |
| 31 | 0.46 | 0.35 | 0.00 |
| 32 | 0.49 | 0.40 | 0.00 |
| 33 | 0.36 | 0.31 | 0.00 |
| 34 | 0.35 | 0.23 | 0.00 |
| 35 | 0.36 | 0.20 | 0.00 |

**Table 4.14 – Item Statistics for English I, Fall 2011**

N-Count: 220

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.85 | 0.45 | 0.00 |
| 2 | 0.68 | 0.53 | 0.00 |
| 3 | 0.49 | 0.31 | 0.00 |
| 4 | 0.77 | 0.50 | 0.00 |
| 5 | 0.79 | 0.28 | 0.00 |
| 6 | 0.60 | 0.23 | 0.00 |
| 7 | 0.62 | 0.22 | 0.00 |
| 8 | 0.88 | 0.43 | 0.00 |
| 9 | 0.68 | 0.25 | 0.00 |
| 10 | 0.82 | 0.36 | 0.00 |
| 11 | 0.59 | 0.28 | 0.00 |
| 12 | 0.52 | 0.47 | 0.00 |
| 13 | 0.64 | 0.41 | 0.00 |
| 14 | 0.70 | 0.33 | 0.00 |
| 15 | 0.56 | 0.21 | 0.00 |
| 16 | 0.45 | 0.32 | 0.01 |
| 17 | 0.39 | 0.45 | 0.00 |
| 18 | 0.36 | 0.19 | 0.00 |
| 19 | 0.73 | 0.31 | 0.00 |
| 20 | 0.59 | 0.47 | 0.00 |
| 21 | 0.59 | 0.47 | 0.00 |
| 22 | 0.73 | 0.31 | 0.00 |
| 23 | 0.59 | 0.47 | 0.00 |
| 24 | 0.48 | 0.20 | 0.00 |
| 25 | 0.50 | 0.38 | 0.00 |
| 26 | 0.57 | 0.52 | 0.00 |
| 27 | 0.61 | 0.31 | 0.00 |
| 28 | 0.65 | 0.53 | 0.00 |
| 29 | 0.71 | 0.45 | 0.00 |
| 30 | 0.55 | 0.51 | 0.00 |
| 31 | 0.58 | 0.50 | 0.00 |
| 32 | 0.57 | 0.54 | 0.00 |
| 33 | 0.50 | 0.49 | 0.00 |
| 34 | 0.60 | 0.46 | 0.00 |
| 35 | 0.65 | 0.43 | 0.00 |
| 36 | 0.55 | 0.34 | 0.00 |
| 37 | 0.64 | 0.36 | 0.00 |
| 38 | 0.41 | 0.43 | 0.00 |
| 39 | 0.62 | 0.48 | 0.00 |
| 40 | 0.54 | 0.20 | 0.00 |

**Table 4.15 – Item Statistics for English II, Fall 2011**

N-Count: 3,022

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.90 | 0.36 | 0.00 |
| 2 | 0.72 | 0.44 | 0.00 |
| 3 | 0.40 | 0.14 | 0.00 |
| 4 | 0.64 | 0.20 | 0.00 |
| 5 | 0.68 | 0.36 | 0.00 |
| 6 | 0.86 | 0.44 | 0.00 |
| 7 | 0.88 | 0.44 | 0.00 |
| 8 | 0.55 | 0.31 | 0.00 |
| 9 | 0.44 | 0.25 | 0.00 |
| 10 | 0.43 | 0.28 | 0.00 |
| 11 | 0.50 | 0.24 | 0.00 |
| 12 | 0.28 | 0.16 | 0.00 |
| 13 | 0.52 | 0.36 | 0.00 |
| 14 | 0.65 | 0.51 | 0.00 |
| 15 | 0.62 | 0.30 | 0.00 |
| 16 | 0.45 | 0.25 | 0.00 |
| 17 | 0.76 | 0.52 | 0.00 |
| 18 | 0.70 | 0.44 | 0.00 |
| 19 | 0.69 | 0.40 | 0.00 |
| 20 | 0.57 | 0.36 | 0.00 |
| 21 | 0.62 | 0.37 | 0.00 |
| 22 | 0.67 | 0.56 | 0.00 |
| 23 | 0.63 | 0.45 | 0.00 |
| 24 | 0.64 | 0.34 | 0.00 |
| 25 | 0.67 | 0.46 | 0.00 |
| 26 | 0.35 | 0.35 | 0.00 |
| 27 | 0.61 | 0.42 | 0.00 |
| 28 | 0.61 | 0.45 | 0.00 |
| 29 | 0.60 | 0.41 | 0.00 |
| 30 | 0.62 | 0.31 | 0.00 |
| 31 | 0.70 | 0.44 | 0.00 |
| 32 | 0.61 | 0.28 | 0.00 |
| 33 | 0.31 | 0.14 | 0.00 |
| 34 | 0.76 | 0.39 | 0.00 |
| 35 | 0.48 | 0.23 | 0.00 |

**Table 4.16 – Item Statistics for Geometry, Fall 2011**

N-Count: 729

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.73 | 0.44 | 0.00 |
| 2 | 0.78 | 0.49 | 0.00 |
| 3 | 0.84 | 0.53 | 0.00 |
| 4 | 0.69 | 0.45 | 0.00 |
| 5 | 0.77 | 0.57 | 0.00 |
| 6 | 0.86 | 0.41 | 0.00 |
| 7 | 0.80 | 0.42 | 0.00 |
| 8 | 0.75 | 0.57 | 0.00 |
| 9 | 0.82 | 0.44 | 0.00 |
| 10 | 0.61 | 0.46 | 0.00 |
| 11 | 0.55 | 0.57 | 0.00 |
| 12 | 0.76 | 0.48 | 0.00 |
| 13 | 0.68 | 0.47 | 0.00 |
| 14 | 0.76 | 0.54 | 0.00 |
| 15 | 0.76 | 0.51 | 0.00 |
| 16 | 0.63 | 0.04 | 0.00 |
| 17 | 0.86 | 0.24 | 0.00 |
| 18 | 0.74 | 0.38 | 0.00 |
| 19 | 0.77 | 0.44 | 0.00 |
| 20 | 0.75 | 0.29 | 0.00 |
| 21 | 0.64 | 0.43 | 0.00 |
| 22 | 0.69 | 0.43 | 0.00 |
| 23 | 0.62 | 0.52 | 0.00 |
| 24 | 0.62 | 0.37 | 0.00 |
| 25 | 0.39 | 0.32 | 0.00 |
| 26 | 0.68 | 0.44 | 0.00 |
| 27 | 0.60 | 0.45 | 0.00 |
| 28 | 0.39 | 0.46 | 0.00 |
| 29 | 0.64 | 0.53 | 0.00 |
| 30 | 0.49 | 0.51 | 0.00 |
| 31 | 0.60 | 0.35 | 0.00 |
| 32 | 0.48 | 0.34 | 0.00 |
| 33 | 0.61 | 0.34 | 0.00 |
| 34 | 0.58 | 0.47 | 0.00 |
| 35 | 0.62 | 0.53 | 0.00 |
| 36 | 0.53 | 0.31 | 0.00 |
| 37 | 0.52 | 0.33 | 0.00 |
| 38 | 0.32 | 0.41 | 0.00 |
| 39 | 0.45 | 0.31 | 0.00 |
| 40 | 0.60 | 0.36 | 0.00 |

**Table 4.17 – Item Statistics for Government, Fall 2011**

N-Count: 17,228

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.57 | 0.26 | 0.00 |
| 2 | 0.63 | 0.41 | 0.00 |
| 3 | 0.66 | 0.31 | 0.00 |
| 4 | 0.42 | 0.15 | 0.00 |
| 5 | 0.47 | 0.33 | 0.00 |
| 6 | 0.73 | 0.39 | 0.00 |
| 7 | 0.74 | 0.43 | 0.00 |
| 8 | 0.57 | 0.35 | 0.00 |
| 9 | 0.38 | 0.56 | 0.00 |
| 10 | 0.66 | 0.40 | 0.00 |
| 11 | 0.55 | 0.46 | 0.00 |
| 12 | 0.74 | 0.40 | 0.00 |
| 13 | 0.59 | 0.36 | 0.00 |
| 14 | 0.38 | 0.54 | 0.00 |
| 15 | 0.79 | 0.33 | 0.00 |
| 16 | 0.79 | 0.38 | 0.00 |
| 17 | 0.58 | 0.45 | 0.00 |
| 18 | 0.75 | 0.33 | 0.00 |
| 19 | 0.65 | 0.43 | 0.00 |
| 20 | 0.71 | 0.39 | 0.00 |
| 21 | 0.41 | 0.30 | 0.00 |
| 22 | 0.65 | 0.46 | 0.00 |
| 23 | 0.67 | 0.35 | 0.00 |
| 24 | 0.41 | 0.25 | 0.00 |
| 25 | 0.65 | 0.30 | 0.00 |
| 26 | 0.54 | 0.42 | 0.00 |
| 27 | 0.60 | 0.40 | 0.00 |
| 28 | 0.51 | 0.24 | 0.00 |
| 29 | 0.47 | 0.29 | 0.00 |
| 30 | 0.57 | 0.46 | 0.00 |
| 31 | 0.50 | 0.32 | 0.00 |
| 32 | 0.70 | 0.32 | 0.00 |
| 33 | 0.68 | 0.32 | 0.00 |
| 34 | 0.53 | 0.48 | 0.00 |
| 35 | 0.43 | 0.34 | 0.00 |
| 36 | 0.47 | 0.29 | 0.00 |
| 37 | 0.54 | 0.42 | 0.00 |
| 38 | 0.69 | 0.53 | 0.00 |
| 39 | 0.70 | 0.44 | 0.00 |
| 40 | 0.65 | 0.43 | 0.00 |

**Table 4.18 – Item Statistics for Algebra I, Spring 2012**

N-Count: 64,446

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.86 | 0.33 | 0.00 |
| 2 | 0.66 | 0.43 | 0.00 |
| 3 | 0.85 | 0.37 | 0.00 |
| 4 | 0.71 | 0.47 | 0.00 |
| 5 | 0.70 | 0.40 | 0.00 |
| 6 | 0.75 | 0.39 | 0.00 |
| 7 | 0.77 | 0.35 | 0.00 |
| 8 | 0.83 | 0.46 | 0.00 |
| 9 | 0.87 | 0.39 | 0.00 |
| 10 | 0.76 | 0.41 | 0.00 |
| 11 | 0.78 | 0.35 | 0.00 |
| 12 | 0.83 | 0.37 | 0.00 |
| 13 | 0.63 | 0.39 | 0.00 |
| 14 | 0.79 | 0.45 | 0.00 |
| 15 | 0.79 | 0.48 | 0.00 |
| 16 | 0.65 | 0.42 | 0.00 |
| 17 | 0.56 | 0.40 | 0.00 |
| 18 | 0.62 | 0.38 | 0.00 |
| 19 | 0.60 | 0.35 | 0.00 |
| 20 | 0.67 | 0.32 | 0.00 |
| 21 | 0.58 | 0.37 | 0.00 |
| 22 | 0.56 | 0.44 | 0.00 |
| 23 | 0.48 | 0.20 | 0.00 |
| 24 | 0.43 | 0.42 | 0.00 |
| 25 | 0.75 | 0.40 | 0.00 |
| 26 | 0.45 | 0.28 | 0.00 |
| 27 | 0.46 | 0.38 | 0.00 |
| 28 | 0.44 | 0.40 | 0.00 |
| 29 | 0.25 | 0.18 | 0.00 |
| 30 | 0.46 | 0.30 | 0.00 |
| 31 | 0.35 | 0.20 | 0.00 |
| 32 | 0.47 | 0.28 | 0.00 |
| 33 | 0.37 | 0.40 | 0.00 |
| 34 | 0.28 | 0.30 | 0.00 |
| 35 | 0.49 | 0.27 | 0.00 |

**Table 4.19 – Item Statistics for Algebra II, Spring 2012**

N-Count: 25,150

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.76 | 0.34 | 0.00 |
| 2 | 0.68 | 0.32 | 0.00 |
| 3 | 0.82 | 0.26 | 0.00 |
| 4 | 0.46 | 0.21 | 0.00 |
| 5 | 0.36 | 0.30 | 0.00 |
| 6 | 0.76 | 0.38 | 0.00 |
| 7 | 0.54 | 0.39 | 0.00 |
| 8 | 0.45 | 0.21 | 0.00 |
| 9 | 0.78 | 0.32 | 0.00 |
| 10 | 0.53 | 0.30 | 0.00 |
| 11 | 0.52 | 0.46 | 0.00 |
| 12 | 0.50 | 0.38 | 0.00 |
| 13 | 0.67 | 0.43 | 0.00 |
| 14 | 0.75 | 0.38 | 0.00 |
| 15 | 0.51 | 0.36 | 0.00 |
| 16 | 0.42 | 0.27 | 0.00 |
| 17 | 0.70 | 0.33 | 0.00 |
| 18 | 0.65 | 0.38 | 0.00 |
| 19 | 0.40 | 0.34 | 0.00 |
| 20 | 0.63 | 0.45 | 0.00 |
| 21 | 0.54 | 0.27 | 0.00 |
| 22 | 0.77 | 0.19 | 0.00 |
| 23 | 0.53 | 0.43 | 0.00 |
| 24 | 0.55 | 0.26 | 0.00 |
| 25 | 0.50 | 0.35 | 0.00 |
| 26 | 0.51 | 0.26 | 0.00 |
| 27 | 0.74 | 0.34 | 0.00 |
| 28 | 0.54 | 0.27 | 0.00 |
| 29 | 0.47 | 0.49 | 0.00 |
| 30 | 0.82 | 0.31 | 0.00 |
| 31 | 0.56 | 0.33 | 0.00 |
| 32 | 0.56 | 0.18 | 0.00 |
| 33 | 0.87 | 0.37 | 0.00 |
| 34 | 0.65 | 0.40 | 0.00 |
| 35 | 0.40 | 0.28 | 0.00 |
| 36 | 0.55 | 0.37 | 0.00 |
| 37 | 0.42 | 0.14 | 0.00 |
| 38 | 0.69 | 0.20 | 0.00 |
| 39 | 0.41 | 0.34 | 0.00 |
| 40 | 0.76 | 0.39 | 0.00 |

**Table 4.20 – Item Statistics for American History, Spring 2012**

N-Count: 38,571

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.62 | 0.28 | 0.00 |
| 2 | 0.51 | 0.30 | 0.00 |
| 3 | 0.89 | 0.34 | 0.00 |
| 4 | 0.79 | 0.25 | 0.00 |
| 5 | 0.77 | 0.36 | 0.00 |
| 6 | 0.82 | 0.34 | 0.00 |
| 7 | 0.81 | 0.38 | 0.00 |
| 8 | 0.65 | 0.30 | 0.00 |
| 9 | 0.42 | 0.23 | 0.00 |
| 10 | 0.55 | 0.33 | 0.00 |
| 11 | 0.40 | 0.15 | 0.00 |
| 12 | 0.32 | 0.11 | 0.00 |
| 13 | 0.32 | 0.09 | 0.00 |
| 14 | 0.56 | 0.26 | 0.00 |
| 15 | 0.50 | 0.31 | 0.00 |
| 16 | 0.75 | 0.17 | 0.00 |
| 17 | 0.36 | 0.18 | 0.00 |
| 18 | 0.70 | 0.41 | 0.00 |
| 19 | 0.43 | 0.32 | 0.00 |
| 20 | 0.51 | 0.24 | 0.00 |
| 21 | 0.30 | 0.15 | 0.00 |
| 22 | 0.52 | 0.13 | 0.00 |
| 23 | 0.36 | 0.08 | 0.00 |
| 24 | 0.42 | 0.19 | 0.00 |
| 25 | 0.36 | 0.14 | 0.00 |
| 26 | 0.61 | 0.34 | 0.00 |
| 27 | 0.35 | 0.17 | 0.00 |
| 28 | 0.65 | 0.35 | 0.00 |
| 29 | 0.42 | 0.12 | 0.00 |
| 30 | 0.70 | 0.44 | 0.00 |
| 31 | 0.54 | 0.25 | 0.00 |
| 32 | 0.75 | 0.35 | 0.00 |
| 33 | 0.66 | 0.34 | 0.00 |
| 34 | 0.63 | 0.23 | 0.00 |
| 35 | 0.70 | 0.45 | 0.00 |
| 36 | 0.72 | 0.41 | 0.00 |
| 37 | 0.48 | 0.27 | 0.00 |
| 38 | 0.73 | 0.36 | 0.00 |
| 39 | 0.54 | 0.40 | 0.00 |
| 40 | 0.76 | 0.30 | 0.00 |

**Table 4.21 – Item Statistics for Biology, Spring 2012**

N-Count: 61,746

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.89 | 0.31 | 0.00 |
| 2 | 0.55 | 0.25 | 0.00 |
| 3 | 0.91 | 0.36 | 0.00 |
| 4 | 0.35 | 0.20 | 0.00 |
| 5 | 0.57 | 0.43 | 0.00 |
| 6 | 0.94 | 0.29 | 0.00 |
| 7 | 0.77 | 0.32 | 0.00 |
| 8 | 0.60 | 0.38 | 0.00 |
| 9 | 0.67 | 0.42 | 0.00 |
| 10 | 0.63 | 0.49 | 0.00 |
| 11 | 0.71 | 0.29 | 0.00 |
| 12 | 0.73 | 0.29 | 0.00 |
| 13 | 0.66 | 0.41 | 0.00 |
| 14 | 0.44 | 0.27 | 0.00 |
| 15 | 0.66 | 0.33 | 0.00 |
| 16 | 0.84 | 0.25 | 0.00 |
| 17 | 0.63 | 0.45 | 0.00 |
| 18 | 0.51 | 0.30 | 0.00 |
| 19 | 0.72 | 0.42 | 0.00 |
| 20 | 0.48 | 0.44 | 0.00 |
| 21 | 0.78 | 0.38 | 0.00 |
| 22 | 0.61 | 0.38 | 0.00 |
| 23 | 0.37 | 0.26 | 0.00 |
| 24 | 0.50 | 0.29 | 0.00 |
| 25 | 0.66 | 0.41 | 0.00 |
| 26 | 0.78 | 0.46 | 0.00 |
| 27 | 0.79 | 0.17 | 0.00 |
| 28 | 0.53 | 0.17 | 0.00 |
| 29 | 0.58 | 0.21 | 0.00 |
| 30 | 0.65 | 0.42 | 0.00 |
| 31 | 0.63 | 0.32 | 0.00 |
| 32 | 0.48 | 0.32 | 0.00 |
| 33 | 0.53 | 0.28 | 0.00 |
| 34 | 0.68 | 0.49 | 0.00 |
| 35 | 0.36 | 0.34 | 0.00 |

**Table 4.22 – Item Statistics for English I, Spring 2012**

N-Count: 44,303

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.65 | 0.28 | 0.00 |
| 2 | 0.50 | 0.08 | 0.00 |
| 3 | 0.37 | 0.17 | 0.00 |
| 4 | 0.70 | 0.43 | 0.00 |
| 5 | 0.70 | 0.19 | 0.00 |
| 6 | 0.37 | 0.12 | 0.00 |
| 7 | 0.81 | 0.43 | 0.00 |
| 8 | 0.78 | 0.14 | 0.00 |
| 9 | 0.82 | 0.43 | 0.00 |
| 10 | 0.75 | 0.37 | 0.00 |
| 11 | 0.74 | 0.35 | 0.00 |
| 12 | 0.63 | 0.31 | 0.00 |
| 13 | 0.72 | 0.41 | 0.00 |
| 14 | 0.50 | 0.17 | 0.00 |
| 15 | 0.51 | 0.19 | 0.00 |
| 16 | 0.78 | 0.31 | 0.00 |
| 17 | 0.78 | 0.46 | 0.00 |
| 18 | 0.46 | 0.31 | 0.00 |
| 19 | 0.50 | 0.29 | 0.00 |
| 20 | 0.79 | 0.42 | 0.00 |
| 21 | 0.65 | 0.35 | 0.00 |
| 22 | 0.75 | 0.37 | 0.00 |
| 23 | 0.83 | 0.20 | 0.00 |
| 24 | 0.67 | 0.38 | 0.00 |
| 25 | 0.80 | 0.36 | 0.00 |
| 26 | 0.49 | 0.20 | 0.00 |
| 27 | 0.65 | 0.31 | 0.00 |
| 28 | 0.67 | 0.39 | 0.00 |
| 29 | 0.61 | 0.37 | 0.00 |
| 30 | 0.51 | 0.23 | 0.00 |
| 31 | 0.45 | 0.34 | 0.00 |
| 32 | 0.68 | 0.33 | 0.00 |
| 33 | 0.71 | 0.45 | 0.00 |
| 34 | 0.75 | 0.42 | 0.00 |
| 35 | 0.67 | 0.41 | 0.00 |
| 36 | 0.81 | 0.55 | 0.00 |
| 37 | 0.57 | 0.41 | 0.00 |
| 38 | 0.48 | 0.33 | 0.00 |
| 39 | 0.40 | 0.04 | 0.00 |
| 40 | 0.73 | 0.39 | 0.00 |

**Table 4.23 – Item Statistics for English II, Spring 2012**

N-Count: 62,024

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.86 | 0.15 | 0.00 |
| 2 | 0.84 | 0.31 | 0.00 |
| 3 | 0.73 | 0.44 | 0.00 |
| 4 | 0.94 | 0.35 | 0.00 |
| 5 | 0.34 | 0.13 | 0.00 |
| 6 | 0.40 | 0.33 | 0.00 |
| 7 | 0.90 | 0.27 | 0.00 |
| 8 | 0.72 | 0.30 | 0.00 |
| 9 | 0.87 | 0.39 | 0.00 |
| 10 | 0.74 | 0.40 | 0.00 |
| 11 | 0.50 | 0.33 | 0.00 |
| 12 | 0.50 | 0.23 | 0.00 |
| 13 | 0.43 | 0.27 | 0.00 |
| 14 | 0.95 | 0.35 | 0.00 |
| 15 | 0.82 | 0.51 | 0.00 |
| 16 | 0.46 | 0.11 | 0.00 |
| 17 | 0.69 | 0.40 | 0.00 |
| 18 | 0.64 | 0.29 | 0.00 |
| 19 | 0.87 | 0.44 | 0.00 |
| 20 | 0.38 | 0.26 | 0.00 |
| 21 | 0.55 | 0.19 | 0.00 |
| 22 | 0.86 | 0.45 | 0.00 |
| 23 | 0.56 | 0.28 | 0.00 |
| 24 | 0.85 | 0.39 | 0.00 |
| 25 | 0.75 | 0.46 | 0.00 |
| 26 | 0.85 | 0.51 | 0.00 |
| 27 | 0.66 | 0.25 | 0.00 |
| 28 | 0.70 | 0.42 | 0.00 |
| 29 | 0.74 | 0.47 | 0.00 |
| 30 | 0.88 | 0.45 | 0.00 |
| 31 | 0.50 | 0.31 | 0.00 |
| 32 | 0.35 | 0.16 | 0.00 |
| 33 | 0.70 | 0.33 | 0.00 |
| 34 | 0.35 | 0.21 | 0.00 |
| 35 | 0.73 | 0.33 | 0.00 |

**Table 4.24 – Item Statistics for Geometry, Spring 2012**

N-Count: 30,251

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.86 | 0.37 | 0.00 |
| 2 | 0.85 | 0.21 | 0.00 |
| 3 | 0.69 | 0.28 | 0.00 |
| 4 | 0.61 | 0.31 | 0.00 |
| 5 | 0.84 | 0.31 | 0.00 |
| 6 | 0.84 | 0.28 | 0.00 |
| 7 | 0.52 | 0.35 | 0.00 |
| 8 | 0.47 | 0.21 | 0.00 |
| 9 | 0.71 | 0.20 | 0.00 |
| 10 | 0.60 | 0.35 | 0.00 |
| 11 | 0.65 | 0.08 | 0.00 |
| 12 | 0.80 | 0.44 | 0.00 |
| 13 | 0.67 | 0.34 | 0.00 |
| 14 | 0.35 | 0.26 | 0.00 |
| 15 | 0.63 | 0.25 | 0.00 |
| 16 | 0.75 | 0.37 | 0.00 |
| 17 | 0.33 | 0.26 | 0.00 |
| 18 | 0.74 | 0.42 | 0.00 |
| 19 | 0.63 | 0.40 | 0.00 |
| 20 | 0.44 | 0.27 | 0.00 |
| 21 | 0.52 | 0.27 | 0.00 |
| 22 | 0.47 | 0.17 | 0.00 |
| 23 | 0.58 | 0.17 | 0.00 |
| 24 | 0.64 | 0.32 | 0.00 |
| 25 | 0.48 | 0.24 | 0.00 |
| 26 | 0.71 | 0.35 | 0.00 |
| 27 | 0.37 | 0.26 | 0.00 |
| 28 | 0.50 | 0.18 | 0.00 |
| 29 | 0.82 | 0.47 | 0.00 |
| 30 | 0.26 | 0.12 | 0.00 |
| 31 | 0.43 | 0.12 | 0.00 |
| 32 | 0.84 | 0.37 | 0.00 |
| 33 | 0.81 | 0.36 | 0.00 |
| 34 | 0.46 | 0.20 | 0.00 |
| 35 | 0.86 | 0.31 | 0.00 |
| 36 | 0.45 | 0.37 | 0.00 |
| 37 | 0.52 | 0.28 | 0.00 |
| 38 | 0.75 | 0.31 | 0.00 |
| 39 | 0.45 | 0.19 | 0.00 |
| 40 | 0.45 | 0.25 | 0.00 |

**Table 4.25 – Item Statistics for Government, Spring 2012**

N-Count: 40,199

| Item # | *P*-Value/ Mean | Corrected Point-Biserial Correlation | Omit Rate (%) |
|---|---|---|---|
| 1 | 0.76 | 0.41 | 0.00 |
| 2 | 0.56 | 0.47 | 0.00 |
| 3 | 0.80 | 0.38 | 0.00 |
| 4 | 0.75 | 0.31 | 0.00 |
| 5 | 0.90 | 0.28 | 0.00 |
| 6 | 0.79 | 0.36 | 0.00 |
| 7 | 0.80 | 0.41 | 0.00 |
| 8 | 0.74 | 0.41 | 0.00 |
| 9 | 0.64 | 0.37 | 0.00 |
| 10 | 0.50 | 0.22 | 0.00 |
| 11 | 0.58 | 0.19 | 0.00 |
| 12 | 0.67 | 0.32 | 0.00 |
| 13 | 0.74 | 0.41 | 0.00 |
| 14 | 0.67 | 0.28 | 0.00 |
| 15 | 0.54 | 0.22 | 0.00 |
| 16 | 0.79 | 0.16 | 0.00 |
| 17 | 0.32 | 0.16 | 0.00 |
| 18 | 0.27 | 0.27 | 0.00 |
| 19 | 0.66 | 0.29 | 0.00 |
| 20 | 0.62 | 0.44 | 0.00 |
| 21 | 0.42 | 0.33 | 0.00 |
| 22 | 0.41 | 0.10 | 0.00 |
| 23 | 0.52 | 0.34 | 0.00 |
| 24 | 0.62 | 0.40 | 0.00 |
| 25 | 0.67 | 0.41 | 0.00 |
| 26 | 0.30 | 0.17 | 0.00 |
| 27 | 0.61 | 0.52 | 0.00 |
| 28 | 0.36 | 0.22 | 0.00 |
| 29 | 0.66 | 0.38 | 0.00 |
| 30 | 0.38 | 0.34 | 0.00 |
| 31 | 0.53 | 0.46 | 0.00 |
| 32 | 0.73 | 0.29 | 0.00 |
| 33 | 0.67 | 0.49 | 0.00 |
| 34 | 0.51 | 0.26 | 0.00 |
| 35 | 0.82 | 0.44 | 0.00 |
| 36 | 0.71 | 0.40 | 0.00 |
| 37 | 0.49 | 0.19 | 0.00 |
| 38 | 0.81 | 0.37 | 0.00 |
| 39 | 0.70 | 0.32 | 0.00 |
| 40 | 0.81 | 0.33 | 0.00 |

# Chapter 5: Test Administration

## 5.1 Introduction

This chapter contains information about DESE and Questar processes that ensure the standardized administration of the MO EOC Assessments. The Standards (AERA, APA, and NCME, 1999) state that, "For tests designed to assess the examinee's knowledge, skills, or abilities, standardization helps to ensure that all examinees have the same opportunity to demonstrate their competencies" (p. 61). In other words, careful attention to the details of information dissemination, Test Examiner training, accommodations and modifications, and test security help ensure that students taking the EOC Assessments in different locations have equal opportunities for success.

The EOC *Test Administration Manual* contains detailed information about the testing guidelines, materials handling, and standardized administration instructions for the EOC Assessments. While this manual is not included here, much of the information contained in this chapter can be found in it.

For the MO EOC Assessments, the 2011–2012 administration year is the first in which districts are required to use an online delivery format unless a Paper/Pencil, Large Print, or Braille version is required for a student as indicated in the student's IEP and marked as an accommodation in iTester Admin. The *Test Administration Manual* contains information specific to the registration for and administration of the MO EOC Assessments.

## 5.2 Students for Whom the EOC Assessments Are Appropriate

The responsibility and authority for testing students in the Missouri EOC Assessments at the appropriate time in the course of instruction belongs to the local district. The EOC Assessments are based on Course-Level Expectations (CLEs) rather than on Grade-Level Expectations (GLEs). Therefore, when the content of the CLEs is covered in the local school district's curriculum, the test may be administered regardless of student grade level or course name.

### *5.2.1 Students with Individualized Education Programs*

A student with disabilities, as classified under the Individuals with Disabilities Education Act (IDEA), has an Individualized Education Program (IEP) that, in part, governs whether a particular assessment is appropriate for the student. In the case of the EOC Assessments, decisions about whether a student with a disability will participate in the assessments are made by the student's IEP team and are documented in the IEP. All students must take English II, Algebra I, and Biology, and Government EOC Assessments. If, however, a student's disability qualifies him or her to take the MAP-Alternate Assessment (MAP-A), that student will not be required to participate in the EOC Assessment.

### *5.2.2 Students with Individual Accommodation Programs*

Students with Individual Accommodation Programs (IAPs) are considered disabled under Section 504 of the 1973 Rehabilitation Act. These students are not served under IDEA and are not documented with a particular designation for the EOC Assessment. However, professionals

who are knowledgeable about a student's disability and educational needs should make accommodation decisions for the student as they would for a student with an IEP.

### *5.2.3 English Language Learner Students*

Students who have been enrolled in a school in the United States for 12 consecutive months or less at the time of test administration may be exempted by the local school district from taking EOC Communication Arts assessments. The students must, however, participate in other EOC assessments, although their scores do not count for school accountability purposes.

## 5.3 Students for Whom a School or District is Accountable

For accountability purposes, Missouri must include the results for any student who is eligible to take the EOC Assessments and has been enrolled at least one full academic year in a school (for school accountability) or district (for district accountability) without transferring out of the building or district for a significant period of time and re-enrolling. A full academic year is defined as the last Wednesday in September through the EOC Assessment administration. A significant period of time is considered "one more than half of the eligible days between the last Wednesday in September and the test administration." DESE obtains enrollment information from the Missouri Student Information System (MOSIS) data that are reported by school districts. This rule applies to the building and district summary levels independently. For example, a student who is coded as "In building less than a year," but was in the district a full academic year, is excluded from the building totals but is included in the district totals.

## 5.4 Dissemination of Testing Materials and Information

All test administration information, including the *Test Administration Manual* and training webinars, are posted to the Questar iTester Administration site for District Test Coordinators (DTC), School Test Coordinators, test administrators, and information technology coordinators. One week prior to the start of the testing window, Questar distributes all password information for the online system by e-mail to district and school level users participating in the current EOC administration. Districts have the opportunity to order the Large Print and Braille editions of the assessment from Questar. The DTC downloads and prints the accommodated Paper/Pencil test edition through the iTester Admin. site, as needed for students in the district. The District Test Coordinator (DTC) is responsible for inventorying all paper-and-pencil materials as well as disseminating the online test information to the test administrators. The DTC is responsible for answering all district questions about test procedures and the iTester online system. If the DTC needs assistance with a question, he/she contacts Questar's Missouri Customer Service through the designated phone number and/or e-mail address.

## 5.5 District and Test Examiner Training

Both Questar and DESE are responsible for training the district staff on EOC test administration. DESE provides two standardized training webinars, scripts, and PowerPoint presentations on the Test Administration Manual, state procedures, and general testing issues. One training is provided for Test Coordinators and the other is provided for Test Examiners. These training resources are available both on the DESE website and in iTester Admin.

Questar provides training on iTester Admin and iTester Student systems. Questar training contains propriety information and is only available in iTester Admin. All Test Coordinators and Test Examiners must view these standardized trainings prior to test administration. The DTC is allowed to provide supplemental training on local issues, (e.g., schedules). Both DESE and Questar are available to answer any questions the districts may have about the EOC Assessment administration.

## 5.6 Test Security

The EOC Assessment test books (Paper/Pencil, Large Print, and Braille) and online assessment are secure. Test Coordinators are instructed to keep the materials in a locked room or cabinet at all times when not in use. No testing materials may be photocopied, duplicated, scanned, or made accessible to personnel who are not responsible for testing. Additionally, written or oral discussion of specific EOC Assessment items breaches the security and integrity of the test. In accordance with the Standards, the *Test Administration Manual* contains explicit instructions about test security for Test Coordinators and Test Examiners.[6] Standardized training is required for all District and School Test Coordinators, Examiners, translators, proctors, and any district staff who have responsibilities in testing. When the tests are delivered online, Test Examiners do not have access to the student screens for the online assessment, only to the test administrator features. Students have unique, secure logins to access the EOC Assessments they are registered for and these logins are disabled after the student has tested. Test items, as well as student responses, are encrypted during transmission to and from student computers. Student tests must be in progress or completed by 6:00 p.m. every evening of testing as tests are automatically submitted by iTester each evening.

Each test book shipped to the district or downloaded and printed by the district contains secure barcode information for tracking purposes. Questar uses this information to ensure districts are using the materials assigned to them for testing and returning all of their secure materials after the completion of testing. The Paper/Pencil forms include a bar code on each page of the document. Upon return to Questar, the barcode information on each test is verified. Questar then follows up with the appropriate district(s) regarding any missing materials to ensure return or destruction (if materials are contaminated).

## 5.7 Test Administration

### *5.7.1 Test Organization*

Students take the EOC Assessments in one session. The EOC Assessments for Summer 2011, Fall 2011, and Spring 2012 contain only selected-response (SR) items. Each item consists of a stem followed by four response options, and the student clicks an answer choice. The tests are not timed.

Students are encouraged to complete an online practice test of iTester prior to testing. This practice test includes instructions on how to use the tools in the system and practice questions for the students.

[6] Standard 5.7: Test users have the responsibility of protecting the security of test materials at all times (p. 64).

### *5.7.2 Test and Ancillary Materials*

District Test Coordinators or School Test Coordinators are responsible for providing all EOC Assessment materials to Test Examiners. The materials provided by Questar and/or DESE include the following:

- *Test Administration Manual* (electronic copy)
- Large Print, and/or Braille test materials
- Return kit materials for accommodated test materials
- Accommodated Paper/Pencil test booklet (printed from the iTester system by the school district)

Students taking an accommodated version of the EOC Assessments need the following additional materials, which are not provided by Questar or DESE:

- No. 2 pencils
- Scratch paper

For the online assessment, each student needs a computer with a monitor, mouse, and keyboard. Adequate space should be left between workstations. Students can use scratch, grid, or draft paper and a writing utensil while taking the online assessment. The Test Examiner needs the following:

- A computer for logging on to the test administrator interface
- A writing board and utensil

Additionally, students taking either the Paper/Pencil or online version may use a calculator for the Algebra I, Algebra II, and Geometry assessments. (This is not required.)

Calculators cannot contain stored equations or functions at the time of the EOC Mathematics Assessments. Test Examiners are responsible for ensuring and verifying that calculators with the ability to store functions and equations – e.g., a graphing or a scientific calculator – have the memory cleared before and after each Mathematics Assessment.

Calculators cannot have internet connectivity or be able to connect to anyone inside or outside the classroom during testing. Students cannot use a calculator on a laptop or other portable computer, pocket organizer, cell phone, device with a typewriter-style keyboard, electronic writing pad, or pen-input device unless a particular assistive device is required for a student and is specified on his or her IEP.

### *5.7.3 Preparing the Test Administration Site and the Students*

Before students begin the assessment using the online system, a representative of the district or school must do the following:

- Read the entire *Test Administration Manual*
- Review the DESE and Questar trainings regarding the EOCs
- Run a workstation readiness on each workstation used for testing
- Ensure that the iTester Student is downloaded to each workstation for test delivery
- Provide an upload to DESE (precode file) of all students that will be testing for the current administration of the EOCs (The precode file is a data file containing one record

per student and each student is assigned a unique MOSIS ID. The purpose of the data file is to identify students, Examiners, and content areas for testing.)

- Input identification information for students who were not included in the precode file
- Specify district testing windows within the Missouri statewide test administration window

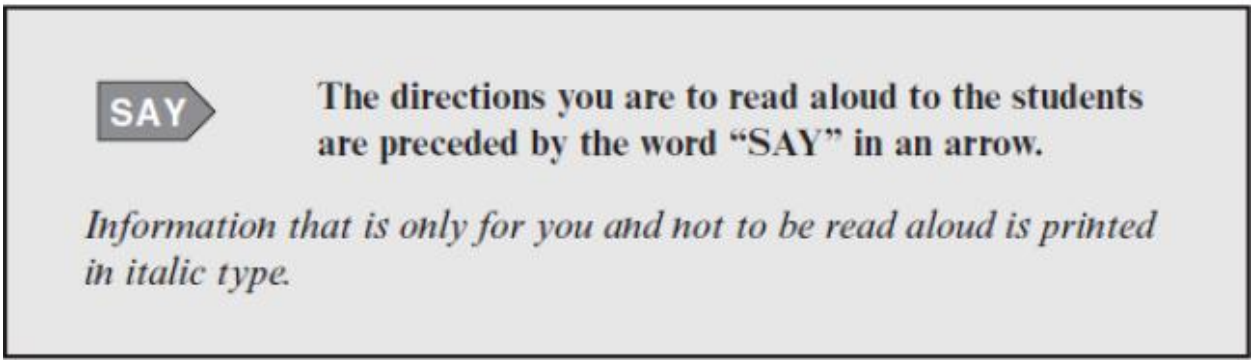
Additionally, the Test Examiner must set and verify class information and set students' testing status codes and/or accommodations information in the online system.

Students are NOT allowed to use electronic devices such as cellular phones, digital cameras, gaming devices, or scanners during the testing session. However, students may use calculators during the Algebra I, Algebra II, and Geometry test sessions. (See section 5.7.2 for more information regarding calculator usage and restrictions.)

### *5.7.4 Directions for Administration*

In accordance with Standard 5.1,[7] specific standardized directions for administration are printed in the *Test Administration Manual*. Directions that are to be read aloud to the students are printed in **bold** type and have a callout arrow in the margin for clarity. Information for the teacher that should not be read aloud is in *italic* type. Figure 5.1 provides an example of the type styles used in the *Test Administration Manual* to differentiate between spoken and unspoken instructions. Figure 5.2 provides an example of a script from the Government EOC Assessment.

**Figure 5.1 – Examples of Type Styles Used to Differentiate Between Spoken and Unspoken Instructions in the *Test Administration Manual***




[7] Standard 5.1: Test administrators should follow carefully the standardized procedures for administration and scoring specified by the test developer, unless the situation or a test taker's disability dictates that an exception should be made (p. 63).

**Figure 5.2 – Example Script from the *Test Administration Manual* for the Government EOC Assessment**

## Directions for Administering the Government Assessment Online

SAY **For the questions in this test, you will select an answer from a list of given choices. Remember to check that the circle that goes with the answer you chose is filled in after you click it. Your score on these questions will depend on how well you follow directions and show your understanding of Government. Click the Help button for instructions on how to use the system tools.**

**There are several important things to remember:**

1. **Read each question carefully and think about the answer. Then choose the one answer that you think is best.**
2. **If you do not know the answer to a question, mark it for review, skip it, and go on. You may return to it later.**
3. **When you finish the test, you may check your work.**

SAY **On your desktop, locate the icon titled "iTester_MOEOC."**

**Double-click this icon and the program will launch. Once the program has opened, you will see the login page for iTester Student.**

**Do not enter anything until you have been instructed to do so.**

**Can everyone see the login page?**

*An example of the login page is below. Please be sure all students are on this page before proceeding with instructions.*

*Assist students as needed. The next step is to walk the students through logging into iTester Student. The username for all students is their MOSIS ID. For each content area tested, the student will receive a unique password.*

### 5.8 Accommodations and Modifications

A student's Individualized Education Program (IEP) team has the responsibility and authority to determine individual accommodations to support and ensure his or her participation in the EOC Assessments. Students who are English Language Learners (ELL) are also able to receive allowable accommodations to support and ensure participation in the EOC Assessments. Allowable accommodations are intended to assist the student by reducing the effects of his or her disability without reducing performance expectations. Allowable accommodations for the EOC Assessments include, but are not limited to, the following:

- A student may receive a modified version of the testing materials, such as the Braille, Large Print, or Paper/Pencil edition.
- A teacher may present the test content to a student in a nonstandard way, such as by reading it aloud in English or in the student's native language, paraphrasing it, or using sign language. For the English I and English II Assessments, this will result in the lowest obtainable scale score (LOSS).
- A student may be allowed additional time to complete one or more sessions of the assessment.
- A student may use an assistive communicative device.
- A student may be tested individually or in a small group.
- A student may be allowed to use a computer, another word-processing device, or a teacher scribe to record his or her responses.
- A student may use other assistive materials such as a bilingual dictionary.

*Modifications* are alterations in the test that change construct-related requirements. The resulting information may not be equal to the information that might be obtained without modifications. The following modifications for the EOC Assessments can be provided:

- Oral reading of the assessment, including paraphrasing questions
- Oral reading in native language
- Use of a bilingual dictionary for the English I or English II Assessment

In accordance with Standard 5.2,[8] Test Examiners indicate an accommodation, when allowed by a student's IEP and used for the EOC Assessment, by checking the appropriate box(es) for the student in iTester Admin.

Table 5.1 contains information about the percentage of students who received each type of allowable accommodation for each EOC Assessment for Spring 2012. The most prevalent type of accommodation across all EOC Assessments was testing in a small group.

[8] Standard 5.2: Modifications or disruptions of standardized test administration procedures or scoring should be documented (p. 63).

**Table 5.1 – Frequency and Percentage of Students Receiving Each Type of Allowable Accommodation, Spring 2012**

| Accommodation | Algebra I | | Algebra II | | American History | | Biology | |
|---|---|---|---|---|---|---|---|---|
| | Freq. | % | Freq. | % | Freq. | % | Freq. | % |
| Braille | 1 | 0.00 | 3 | 0.01 | 1 | 0.00 | 7 | 0.01 |
| Large Print | 20 | 0.03 | 6 | 0.02 | 18 | 0.05 | 29 | 0.04 |
| Oral Reading | 1,868 | 2.70 | 115 | 0.45 | 1,057 | 2.67 | 2,266 | 3.48 |
| Oral Reading – Blind/Partial Sight | 5 | 0.01 | 0 | 0.00 | 1 | 0.00 | 4 | 0.01 |
| Signing of Assessment | 25 | 0.04 | 0 | 0.00 | 1 | 0.00 | 26 | 0.04 |
| Paraphrasing | 5 | 0.01 | 0 | 0.00 | 2 | 0.01 | 6 | 0.01 |
| Other Administrations | 47 | 0.07 | 4 | 0.02 | 4 | 0.01 | 31 | 0.05 |
| Oral Reading in Native Language | 14 | 0.02 | 1 | 0.00 | 3 | 0.01 | 16 | 0.02 |
| Extended Time | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Administered Using More Than Allotted Periods | 1,090 | 1.58 | 112 | 0.43 | 740 | 1.87 | 1,106 | 1.70 |
| Other Timing | 462 | 0.67 | 35 | 0.14 | 140 | 0.35 | 444 | 0.68 |
| Use of Scribe | 36 | 0.05 | 5 | 0.02 | 16 | 0.04 | 73 | 0.11 |
| Use of Calculator, Math Tables, etc. | 0 | 0.00 | 0 | 0.00 | 46 | 0.12 | 495 | 0.76 |
| Using Bilingual Dictionary | 19 | 0.03 | 13 | 0.05 | 30 | 0.08 | 26 | 0.04 |
| Other Response | 36 | 0.05 | 1 | 0.00 | 0 | 0.00 | 1 | 0.00 |
| Testing Individually | 269 | 0.39 | 19 | 0.07 | 128 | 0.32 | 323 | 0.50 |
| Testing in Small Group | 3,300 | 4.78 | 260 | 1.01 | 1,679 | 4.24 | 3,359 | 5.16 |
| Other Setting | 129 | 0.19 | 16 | 0.06 | 68 | 0.17 | 130 | 0.20 |

**Table 5.1 (cont.) – Frequency and Percentage of Students Receiving Each Type of Allowable Accommodation, Spring 2012**

| Accommodation | English I | | English II | | Geometry | | Government | |
|---|---|---|---|---|---|---|---|---|
| | Freq. | % | Freq. | % | Freq. | % | Freq. | % |
| Braille | 4 | 0.01 | 8 | 0.01 | 3 | 0.01 | 6 | 0.01 |
| Large Print | 14 | 0.03 | 30 | 0.05 | 10 | 0.03 | 18 | 0.03 |
| Oral Reading | 9 | 0.02 | 45 | 0.07 | 323 | 1.04 | 1,940 | 3.33 |
| Oral Reading – Blind/Partial Sight | 5 | 0.01 | 7 | 0.01 | 0 | 0.00 | 15 | 0.03 |
| Signing of Assessment | 1 | 0.00 | 2 | 0.00 | 1 | 0.00 | 8 | 0.01 |
| Paraphrasing | 1 | 0.00 | 2 | 0.00 | 2 | 0.01 | 6 | 0.01 |
| Other Administrations | 4 | 0.01 | 54 | 0.08 | 4 | 0.01 | 51 | 0.09 |
| Oral Reading in Native Language | 1 | 0.00 | 1 | 0.00 | 3 | 0.01 | 24 | 0.04 |
| Extended Time | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 |
| Administered Using More Than Allotted Periods | 720 | 1.61 | 1,186 | 1.81 | 246 | 0.79 | 913 | 1.57 |
| Other Timing | 150 | 0.34 | 347 | 0.53 | 93 | 0.30 | 306 | 0.53 |
| Use of Scribe | 21 | 0.05 | 43 | 0.07 | 13 | 0.04 | 41 | 0.07 |
| Use of Calculator, Math Tables, etc. | 59 | 0.13 | 110 | 0.17 | 0 | 0.00 | 84 | 0.14 |
| Using Bilingual Dictionary | 0 | 0.00 | 1 | 0.00 | 18 | 0.06 | 29 | 0.05 |
| Other Response | 2 | 0.00 | 4 | 0.01 | 10 | 0.03 | 2 | 0.00 |
| Testing Individually | 103 | 0.23 | 266 | 0.41 | 52 | 0.17 | 224 | 0.38 |
| Testing in Small Group | 1,878 | 4.19 | 3,238 | 4.95 | 652 | 2.09 | 2,849 | 4.89 |
| Other Setting | 54 | 0.12 | 126 | 0.19 | 35 | 0.11 | 114 | 0.20 |

# Chapter 6: Secure Material Accounting

## 6.1 Introduction

This chapter describes the processes Questar uses to account for the return of secure materials by districts. Secure materials include accommodated Paper/Pencil, Large Print, and Braille test books.

## 6.2 Secure Material Check-In Procedures

Questar adheres to strict quality assurance procedures in order to ensure that all accommodated version test booklets are returned and accounted for. The check-in procedures include multiple steps to ensure that no test booklets are overlooked. All staff members receive thorough and specific training before they participate in the check-in of test booklets.

Upon receipt of accommodated test booklets from the school districts, boxes are kept in a secure location and remain sealed until check-in. If a box has to be opened for any reason, it is immediately resealed.

Two teams check in the secure materials. The first team prepares the test booklets for scanning. One district box is opened at a time, and secure test booklets are separated from ancillary materials and stacked on carts to be checked in. This process is repeated for all boxes for a district to ensure that all materials returned to Questar at the same time are checked in at the same time. Once the first team fills the cart(s) with all the secure materials from a district, the cart(s) is passed to a second team.

The second team checks in each test booklet by scanning the secure barcode into Questar's database. Operators work in teams of two at computers equipped with barcode scanners. Operator 1 counts and scans enough secure documents to fill a storage box. The operator verifies that the database collected the same number of barcodes. If there is a discrepancy, an immediate reconciliation takes place. Each ID number (barcode number) has a check digit that ensures all numbers are correctly read by the scanner and no ID number is miskeyed when manually entered. If a barcode is damaged or not readable, the operator manually enters the barcode number into the system. After this process is complete, the box of secure materials is handed to Operator 2 and scanned a second time. The database verifies that the same barcode numbers are read during the scanning of the box or an immediate reconciliation takes place. After verification, the secure materials are placed in a Questar box for storage. The scanning system provides audible and onscreen cues to alert operators of scanning discrepancies.

Further validity checks are done before each box is sealed to make sure there are no ID barcode scanning discrepancies and that all ID numbers are correct. The validity checks also ensure that the ID numbers and the quantity in each box matches what was entered into the database. Finally, each box is placed on a pallet and stored.

Post check-in procedures are also performed prior to notifying the districts of missing secure materials. For any district that is missing a secure material, an individual box-by-box hand search is conducted in an attempt to locate the secure material(s). If an unaccounted secure material is found, the material is then coded into the database by a Questar supervisor and Questar's Program Management team is notified. If unaccounted-for material(s) are not found during the box-by-box hand search, the material(s) is considered missing and the district is notified via the Secure Missing Material Report process.

## 7.3 Scaling and Equating

Tables 7.48 – 7.63 provide the raw score to scale score conversions for Summer 2011 and Spring 2012, as well as Fall 2011, respectively. Conditional standard errors of measurement (CSEMs) are also listed.

**Table 7.48 – Raw Score to Scale Score Conversions for Algebra I, Summer 2011/Spring2012**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 37 |
| 1 | 115 | 20 |
| 2 | 129 | 15 |
| 3 | 138 | 12 |
| 4 | 145 | 11 |
| 5 | 151 | 10 |
| 6 | 155 | 9 |
| 7 | 159 | 9 |
| 8 | 163 | 8 |
| 9 | 167 | 8 |
| 10 | 170 | 8 |
| 11 | 173 | 8 |
| 12 | 177 | 8 |
| 13 | 179 | 7 |
| 14 | 182 | 7 |
| 15 | 184 | 7 |
| 16 | 187 | 7 |
| 17 | 190 | 7 |
| 18 | 192 | 7 |
| 19 | 195 | 7 |
| 20 | 198 | 7 |
| 21 | 200 | 7 |
| 22 | 203 | 7 |
| 23 | 206 | 8 |
| 24 | 209 | 8 |
| 25 | 212 | 8 |
| 26 | 215 | 8 |
| 27 | 219 | 8 |
| 28 | 225 | 9 |
| 29 | 227 | 9 |
| 30 | 231 | 10 |
| 31 | 237 | 11 |
| 32 | 244 | 12 |
| 33 | 250 | 15 |
| 34 | 250 | 20 |
| 35 | 250 | 37 |

**Table 7.49 – Raw Score to Scale Score Conversions for Algebra II, Summer 2011/Spring 2012**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 37 |
| 1 | 111 | 21 |
| 2 | 126 | 15 |
| 3 | 135 | 12 |
| 4 | 142 | 11 |
| 5 | 147 | 10 |
| 6 | 152 | 9 |
| 7 | 156 | 9 |
| 8 | 160 | 8 |
| 9 | 163 | 8 |
| 10 | 166 | 8 |
| 11 | 169 | 8 |
| 12 | 172 | 7 |
| 13 | 175 | 7 |
| 14 | 178 | 7 |
| 15 | 182 | 7 |
| 16 | 183 | 7 |
| 17 | 185 | 7 |
| 18 | 187 | 7 |
| 19 | 190 | 7 |
| 20 | 192 | 7 |
| 21 | 194 | 7 |
| 22 | 197 | 7 |
| 23 | 200 | 7 |
| 24 | 202 | 7 |
| 25 | 204 | 7 |
| 26 | 206 | 7 |
| 27 | 209 | 7 |
| 28 | 212 | 7 |
| 29 | 214 | 7 |
| 30 | 217 | 8 |
| 31 | 220 | 8 |
| 32 | 225 | 8 |
| 33 | 227 | 9 |
| 34 | 231 | 9 |
| 35 | 235 | 10 |
| 36 | 241 | 11 |
| 37 | 247 | 12 |
| 38 | 250 | 15 |
| 39 | 250 | 20 |
| 40 | 250 | 37 |

**Table 7.50 – Raw Score to Scale Score Conversions for American History, Summer 2011/Spring 2012**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 49 |
| 1 | 100 | 27 |
| 2 | 100 | 20 |
| 3 | 111 | 16 |
| 4 | 119 | 15 |
| 5 | 127 | 13 |
| 6 | 133 | 12 |
| 7 | 138 | 12 |
| 8 | 143 | 11 |
| 9 | 148 | 11 |
| 10 | 152 | 10 |
| 11 | 156 | 10 |
| 12 | 159 | 10 |
| 13 | 163 | 10 |
| 14 | 166 | 9 |
| 15 | 170 | 9 |
| 16 | 173 | 9 |
| 17 | 176 | 9 |
| 18 | 179 | 9 |
| 19 | 182 | 9 |
| 20 | 185 | 9 |
| 21 | 188 | 9 |
| 22 | 192 | 9 |
| 23 | 195 | 9 |
| 24 | 200 | 9 |
| 25 | 201 | 9 |
| 26 | 204 | 9 |
| 27 | 208 | 10 |
| 28 | 211 | 10 |
| 29 | 215 | 10 |
| 30 | 219 | 10 |
| 31 | 225 | 11 |
| 32 | 227 | 11 |
| 33 | 232 | 12 |
| 34 | 237 | 12 |
| 35 | 243 | 13 |
| 36 | 250 | 14 |
| 37 | 250 | 16 |
| 38 | 250 | 20 |
| 39 | 250 | 27 |
| 40 | 250 | 49 |

**Table 7.51 – Raw Score to Scale Score Conversions for Biology, Summer 2011/Spring 2012**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 34 |
| 1 | 119 | 19 |
| 2 | 133 | 14 |
| 3 | 141 | 11 |
| 4 | 147 | 10 |
| 5 | 152 | 9 |
| 6 | 157 | 9 |
| 7 | 161 | 8 |
| 8 | 164 | 8 |
| 9 | 167 | 7 |
| 10 | 170 | 7 |
| 11 | 173 | 7 |
| 12 | 176 | 7 |
| 13 | 178 | 7 |
| 14 | 181 | 7 |
| 15 | 183 | 7 |
| 16 | 185 | 7 |
| 17 | 188 | 7 |
| 18 | 190 | 7 |
| 19 | 192 | 7 |
| 20 | 195 | 7 |
| 21 | 197 | 7 |
| 22 | 200 | 7 |
| 23 | 202 | 7 |
| 24 | 205 | 7 |
| 25 | 207 | 7 |
| 26 | 210 | 7 |
| 27 | 213 | 8 |
| 28 | 217 | 8 |
| 29 | 220 | 8 |
| 30 | 225 | 9 |
| 31 | 230 | 10 |
| 32 | 236 | 11 |
| 33 | 244 | 13 |
| 34 | 250 | 19 |
| 35 | 250 | 34 |

**Table 7.52 – Raw Score to Scale Score Conversions for English I, Summer 2011/Spring 2012**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 41 |
| 1 | 101 | 23 |
| 2 | 117 | 16 |
| 3 | 127 | 14 |
| 4 | 134 | 12 |
| 5 | 140 | 11 |
| 6 | 145 | 10 |
| 7 | 150 | 10 |
| 8 | 153 | 9 |
| 9 | 157 | 9 |
| 10 | 160 | 8 |
| 11 | 163 | 8 |
| 12 | 166 | 8 |
| 13 | 169 | 8 |
| 14 | 172 | 8 |
| 15 | 175 | 8 |
| 16 | 177 | 8 |
| 17 | 180 | 7 |
| 18 | 182 | 7 |
| 19 | 185 | 7 |
| 20 | 187 | 7 |
| 21 | 190 | 7 |
| 22 | 192 | 7 |
| 23 | 195 | 7 |
| 24 | 197 | 8 |
| 25 | 200 | 8 |
| 26 | 202 | 8 |
| 27 | 205 | 8 |
| 28 | 208 | 8 |
| 29 | 211 | 8 |
| 30 | 214 | 8 |
| 31 | 217 | 9 |
| 32 | 221 | 9 |
| 33 | 225 | 10 |
| 34 | 229 | 10 |
| 35 | 234 | 11 |
| 36 | 240 | 12 |
| 37 | 247 | 14 |
| 38 | 250 | 16 |
| 39 | 250 | 23 |
| 40 | 250 | 41 |

**Table 7.53 – Raw Score to Scale Score Conversions for English II, Summer 2011/Spring 2012**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 104 | 30 |
| 1 | 124 | 17 |
| 2 | 136 | 12 |
| 3 | 144 | 10 |
| 4 | 149 | 9 |
| 5 | 154 | 8 |
| 6 | 158 | 8 |
| 7 | 162 | 7 |
| 8 | 165 | 7 |
| 9 | 168 | 7 |
| 10 | 171 | 7 |
| 11 | 174 | 7 |
| 12 | 176 | 6 |
| 13 | 180 | 6 |
| 14 | 181 | 6 |
| 15 | 184 | 6 |
| 16 | 186 | 6 |
| 17 | 188 | 6 |
| 18 | 191 | 6 |
| 19 | 193 | 6 |
| 20 | 196 | 6 |
| 21 | 200 | 6 |
| 22 | 201 | 6 |
| 23 | 203 | 7 |
| 24 | 206 | 7 |
| 25 | 209 | 7 |
| 26 | 212 | 7 |
| 27 | 215 | 7 |
| 28 | 218 | 8 |
| 29 | 225 | 8 |
| 30 | 226 | 8 |
| 31 | 230 | 9 |
| 32 | 236 | 10 |
| 33 | 244 | 12 |
| 34 | 250 | 17 |
| 35 | 250 | 30 |

**Table 7.54 – Raw Score to Scale Score Conversions for Geometry, Summer 2011/Spring 2012**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 41 |
| 1 | 100 | 23 |
| 2 | 117 | 16 |
| 3 | 127 | 14 |
| 4 | 134 | 12 |
| 5 | 140 | 11 |
| 6 | 145 | 10 |
| 7 | 150 | 10 |
| 8 | 154 | 9 |
| 9 | 158 | 9 |
| 10 | 161 | 9 |
| 11 | 165 | 8 |
| 12 | 168 | 8 |
| 13 | 171 | 8 |
| 14 | 174 | 8 |
| 15 | 177 | 8 |
| 16 | 179 | 8 |
| 17 | 182 | 8 |
| 18 | 185 | 8 |
| 19 | 187 | 8 |
| 20 | 190 | 8 |
| 21 | 193 | 8 |
| 22 | 195 | 8 |
| 23 | 200 | 8 |
| 24 | 201 | 8 |
| 25 | 203 | 8 |
| 26 | 206 | 8 |
| 27 | 209 | 8 |
| 28 | 212 | 8 |
| 29 | 215 | 8 |
| 30 | 218 | 9 |
| 31 | 221 | 9 |
| 32 | 225 | 9 |
| 33 | 229 | 10 |
| 34 | 233 | 10 |
| 35 | 238 | 11 |
| 36 | 244 | 12 |
| 37 | 250 | 14 |
| 38 | 250 | 16 |
| 39 | 250 | 23 |
| 40 | 250 | 41 |

**Table 7.55 – Raw Score to Scale Score Conversions for Government, Summer 2011/Spring 2012**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 35 |
| 1 | 114 | 19 |
| 2 | 128 | 14 |
| 3 | 137 | 12 |
| 4 | 143 | 10 |
| 5 | 148 | 9 |
| 6 | 152 | 9 |
| 7 | 156 | 8 |
| 8 | 159 | 8 |
| 9 | 163 | 8 |
| 10 | 165 | 7 |
| 11 | 168 | 7 |
| 12 | 171 | 7 |
| 13 | 173 | 7 |
| 14 | 176 | 7 |
| 15 | 179 | 7 |
| 16 | 180 | 7 |
| 17 | 183 | 7 |
| 18 | 185 | 6 |
| 19 | 187 | 6 |
| 20 | 189 | 6 |
| 21 | 191 | 6 |
| 22 | 194 | 7 |
| 23 | 196 | 7 |
| 24 | 198 | 7 |
| 25 | 200 | 7 |
| 26 | 203 | 7 |
| 27 | 205 | 7 |
| 28 | 208 | 7 |
| 29 | 210 | 7 |
| 30 | 213 | 7 |
| 31 | 216 | 8 |
| 32 | 219 | 8 |
| 33 | 225 | 8 |
| 34 | 227 | 9 |
| 35 | 231 | 10 |
| 36 | 236 | 10 |
| 37 | 243 | 12 |
| 38 | 250 | 14 |
| 39 | 250 | 20 |
| 40 | 250 | 35 |

**Table 7.56 – Raw Score to Scale Score Conversions for Algebra I, Fall 2011**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 37 |
| 1 | 114 | 21 |
| 2 | 129 | 15 |
| 3 | 138 | 12 |
| 4 | 145 | 11 |
| 5 | 151 | 10 |
| 6 | 156 | 9 |
| 7 | 160 | 9 |
| 8 | 164 | 9 |
| 9 | 167 | 8 |
| 10 | 171 | 8 |
| 11 | 174 | 8 |
| 12 | 177 | 8 |
| 13 | 180 | 8 |
| 14 | 182 | 7 |
| 15 | 185 | 7 |
| 16 | 188 | 7 |
| 17 | 190 | 7 |
| 18 | 193 | 7 |
| 19 | 196 | 7 |
| 20 | 200 | 7 |
| 21 | 201 | 7 |
| 22 | 204 | 8 |
| 23 | 207 | 8 |
| 24 | 210 | 8 |
| 25 | 213 | 8 |
| 26 | 217 | 8 |
| 27 | 220 | 9 |
| 28 | 225 | 9 |
| 29 | 228 | 9 |
| 30 | 233 | 10 |
| 31 | 239 | 11 |
| 32 | 245 | 12 |
| 33 | 250 | 15 |
| 34 | 250 | 21 |
| 35 | 250 | 37 |

**Table 7.57 – Raw Score to Scale Score Conversions for Algebra II, Fall 2011**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 37 |
| 1 | 112 | 20 |
| 2 | 127 | 15 |
| 3 | 136 | 12 |
| 4 | 143 | 11 |
| 5 | 148 | 10 |
| 6 | 152 | 9 |
| 7 | 156 | 9 |
| 8 | 160 | 8 |
| 9 | 163 | 8 |
| 10 | 166 | 8 |
| 11 | 169 | 7 |
| 12 | 172 | 7 |
| 13 | 175 | 7 |
| 14 | 177 | 7 |
| 15 | 179 | 7 |
| 16 | 182 | 7 |
| 17 | 184 | 7 |
| 18 | 186 | 7 |
| 19 | 189 | 7 |
| 20 | 191 | 7 |
| 21 | 193 | 7 |
| 22 | 195 | 7 |
| 23 | 198 | 7 |
| 24 | 200 | 7 |
| 25 | 202 | 7 |
| 26 | 205 | 7 |
| 27 | 207 | 7 |
| 28 | 210 | 7 |
| 29 | 212 | 7 |
| 30 | 215 | 8 |
| 31 | 218 | 8 |
| 32 | 221 | 8 |
| 33 | 225 | 9 |
| 34 | 229 | 9 |
| 35 | 233 | 10 |
| 36 | 239 | 11 |
| 37 | 245 | 12 |
| 38 | 250 | 15 |
| 39 | 250 | 20 |
| 40 | 250 | 37 |

**Table 7.58 – Raw Score to Scale Score Conversions for American History, Fall 2011**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 49 |
| 1 | 100 | 27 |
| 2 | 102 | 20 |
| 3 | 114 | 16 |
| 4 | 123 | 14 |
| 5 | 130 | 13 |
| 6 | 136 | 12 |
| 7 | 141 | 11 |
| 8 | 145 | 11 |
| 9 | 150 | 10 |
| 10 | 154 | 10 |
| 11 | 157 | 10 |
| 12 | 161 | 10 |
| 13 | 164 | 9 |
| 14 | 167 | 9 |
| 15 | 170 | 9 |
| 16 | 173 | 9 |
| 17 | 176 | 9 |
| 18 | 179 | 9 |
| 19 | 182 | 9 |
| 20 | 185 | 9 |
| 21 | 188 | 9 |
| 22 | 191 | 9 |
| 23 | 194 | 9 |
| 24 | 197 | 9 |
| 25 | 200 | 9 |
| 26 | 203 | 9 |
| 27 | 206 | 9 |
| 28 | 210 | 10 |
| 29 | 213 | 10 |
| 30 | 217 | 10 |
| 31 | 221 | 10 |
| 32 | 225 | 11 |
| 33 | 230 | 11 |
| 34 | 235 | 12 |
| 35 | 241 | 13 |
| 36 | 248 | 14 |
| 37 | 250 | 16 |
| 38 | 250 | 20 |
| 39 | 250 | 27 |
| 40 | 250 | 49 |

**Table 7.59 – Raw Score to Scale Score Conversions for Biology, Fall 2011**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 34 |
| 1 | 119 | 19 |
| 2 | 133 | 14 |
| 3 | 141 | 11 |
| 4 | 147 | 10 |
| 5 | 152 | 9 |
| 6 | 157 | 9 |
| 7 | 161 | 8 |
| 8 | 164 | 8 |
| 9 | 167 | 8 |
| 10 | 170 | 7 |
| 11 | 173 | 7 |
| 12 | 176 | 7 |
| 13 | 178 | 7 |
| 14 | 181 | 7 |
| 15 | 183 | 7 |
| 16 | 186 | 7 |
| 17 | 188 | 7 |
| 18 | 190 | 7 |
| 19 | 193 | 7 |
| 20 | 195 | 7 |
| 21 | 198 | 7 |
| 22 | 200 | 7 |
| 23 | 203 | 7 |
| 24 | 205 | 7 |
| 25 | 208 | 7 |
| 26 | 211 | 7 |
| 27 | 214 | 8 |
| 28 | 217 | 8 |
| 29 | 221 | 8 |
| 30 | 225 | 9 |
| 31 | 230 | 10 |
| 32 | 236 | 11 |
| 33 | 244 | 13 |
| 34 | 250 | 19 |
| 35 | 250 | 34 |

**Table 7.60 – Raw Score to Scale Score Conversions for English I, Fall 2011**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 41 |
| 1 | 100 | 23 |
| 2 | 116 | 16 |
| 3 | 126 | 14 |
| 4 | 134 | 12 |
| 5 | 140 | 11 |
| 6 | 145 | 10 |
| 7 | 149 | 10 |
| 8 | 153 | 9 |
| 9 | 157 | 9 |
| 10 | 160 | 9 |
| 11 | 163 | 8 |
| 12 | 166 | 8 |
| 13 | 169 | 8 |
| 14 | 172 | 8 |
| 15 | 175 | 8 |
| 16 | 177 | 8 |
| 17 | 180 | 8 |
| 18 | 182 | 7 |
| 19 | 185 | 7 |
| 20 | 187 | 7 |
| 21 | 190 | 7 |
| 22 | 192 | 7 |
| 23 | 195 | 7 |
| 24 | 197 | 8 |
| 25 | 200 | 8 |
| 26 | 203 | 8 |
| 27 | 205 | 8 |
| 28 | 208 | 8 |
| 29 | 211 | 8 |
| 30 | 214 | 8 |
| 31 | 218 | 9 |
| 32 | 221 | 9 |
| 33 | 225 | 10 |
| 34 | 229 | 10 |
| 35 | 234 | 11 |
| 36 | 240 | 12 |
| 37 | 247 | 14 |
| 38 | 250 | 16 |
| 39 | 250 | 23 |
| 40 | 250 | 41 |

**Table 7.61 – Raw Score to Scale Score Conversions for English II, Fall 2011**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 106 | 30 |
| 1 | 127 | 17 |
| 2 | 139 | 12 |
| 3 | 146 | 10 |
| 4 | 152 | 9 |
| 5 | 156 | 8 |
| 6 | 160 | 8 |
| 7 | 164 | 7 |
| 8 | 167 | 7 |
| 9 | 170 | 7 |
| 10 | 172 | 6 |
| 11 | 175 | 6 |
| 12 | 177 | 6 |
| 13 | 180 | 6 |
| 14 | 182 | 6 |
| 15 | 184 | 6 |
| 16 | 186 | 6 |
| 17 | 188 | 6 |
| 18 | 190 | 6 |
| 19 | 192 | 6 |
| 20 | 194 | 6 |
| 21 | 197 | 6 |
| 22 | 200 | 6 |
| 23 | 201 | 6 |
| 24 | 204 | 6 |
| 25 | 206 | 6 |
| 26 | 209 | 7 |
| 27 | 212 | 7 |
| 28 | 215 | 7 |
| 29 | 218 | 8 |
| 30 | 225 | 8 |
| 31 | 226 | 9 |
| 32 | 232 | 10 |
| 33 | 239 | 12 |
| 34 | 250 | 17 |
| 35 | 250 | 30 |

**Table 7.62 – Raw Score to Scale Score Conversions for Geometry, Fall 2011**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 41 |
| 1 | 101 | 23 |
| 2 | 117 | 16 |
| 3 | 127 | 14 |
| 4 | 135 | 12 |
| 5 | 141 | 11 |
| 6 | 146 | 10 |
| 7 | 150 | 10 |
| 8 | 154 | 9 |
| 9 | 158 | 9 |
| 10 | 161 | 9 |
| 11 | 164 | 8 |
| 12 | 168 | 8 |
| 13 | 171 | 8 |
| 14 | 173 | 8 |
| 15 | 176 | 8 |
| 16 | 179 | 8 |
| 17 | 182 | 8 |
| 18 | 184 | 8 |
| 19 | 187 | 8 |
| 20 | 189 | 8 |
| 21 | 192 | 8 |
| 22 | 195 | 8 |
| 23 | 197 | 8 |
| 24 | 200 | 8 |
| 25 | 203 | 8 |
| 26 | 206 | 8 |
| 27 | 208 | 8 |
| 28 | 211 | 8 |
| 29 | 215 | 8 |
| 30 | 218 | 9 |
| 31 | 221 | 9 |
| 32 | 225 | 9 |
| 33 | 229 | 10 |
| 34 | 234 | 10 |
| 35 | 239 | 11 |
| 36 | 245 | 12 |
| 37 | 250 | 14 |
| 38 | 250 | 16 |
| 39 | 250 | 23 |
| 40 | 250 | 41 |

**Table 7.63 – Raw Score to Scale Score Conversions for Government, Fall 2011**

| Raw Score | Scale Score | CSEM |
|---|---|---|
| 0 | 100 | 35 |
| 1 | 116 | 19 |
| 2 | 130 | 14 |
| 3 | 138 | 12 |
| 4 | 145 | 10 |
| 5 | 150 | 9 |
| 6 | 154 | 9 |
| 7 | 157 | 8 |
| 8 | 161 | 8 |
| 9 | 164 | 7 |
| 10 | 167 | 7 |
| 11 | 169 | 7 |
| 12 | 172 | 7 |
| 13 | 174 | 7 |
| 14 | 176 | 7 |
| 15 | 179 | 7 |
| 16 | 181 | 6 |
| 17 | 183 | 6 |
| 18 | 185 | 6 |
| 19 | 187 | 6 |
| 20 | 189 | 6 |
| 21 | 191 | 6 |
| 22 | 194 | 6 |
| 23 | 196 | 6 |
| 24 | 198 | 6 |
| 25 | 200 | 7 |
| 26 | 202 | 7 |
| 27 | 205 | 7 |
| 28 | 207 | 7 |
| 29 | 209 | 7 |
| 30 | 212 | 7 |
| 31 | 215 | 7 |
| 32 | 218 | 8 |
| 33 | 221 | 8 |
| 34 | 225 | 9 |
| 35 | 229 | 9 |
| 36 | 234 | 10 |
| 37 | 240 | 12 |
| 38 | 249 | 14 |
| 39 | 250 | 19 |
| 40 | 250 | 35 |

# Chapter 8: Reporting

## 8.1 Introduction

The purpose of reporting assessment data is to communicate test results to students, their parents, their teachers, administrators, and other stakeholders. The MO EOC Assessment reports provide useful information for determining the performance of students in a particular district, school or classroom. These reports help describe students' knowledge of a given set of expectations, allowing educators to determine specific instructional needs, measure student mastery toward post-secondary readiness, provide evidence of accountability for Missouri and national programs, and evaluate educational programs. Additionally, districts may use locally designed assessments aligned to the Show-Me Standards and Course-Level Expectations (CLEs) to provide more detailed information for each student in specific test areas.

Individual student reports are provided in the iTester system for all assessment windows. Student labels are provided in hard copy to districts following each administration.

For each testing event, Questar converts each student's raw score points earned into an EOC scale score, as described in Chapter 7: Scaling and Equating in the *2010-2011 Missouri End-of-Course Assessments Technical Report Phase 1 Assessments* and the *2010-2011 Missouri End-of-Course Assessments Technical Report Phase II Assessments*. A student receives an EOC scale score when he or she has made a valid attempt for the session. EOC scale scores range in value from 100 to 250. The EOC scale score determines the student's achievement level. For all content areas, a scale score of 200 to 224 is considered Proficient, and a scale score of 225 and above is considered Advanced. Each achievement level represents standards of performance for each assessed content area: Algebra I, Algebra II, American History, Biology, English I, English II, Geometry, and Government. Achievement-level scores describe what students can do in terms of the content and skills assessed. These scores provide a way to compare test results with standards of academic performance. Panels drawn from Missouri's educational, business, and professional communities recommended the raw score cuts – based on field test data from the 2008 field test for Phase I and the 2009 field test forms for Phase II – to be used for each achievement level. These cuts were then reviewed and adopted by the Missouri State Board of Education. For more information on how the achievement levels were set, refer to Chapter 3: Achievement-Level Setting in the *2010-2011 Missouri End-of-Course Assessments Technical Report Phase 1 Assessments* and the *2010-2011 Missouri End-of-Course Assessments Technical Report Phase II Assessments*.

No test provides a perfect measure of a student's ability because all tests have a known standard error of measurement (SEM). The SEM represents the amount of variability that can be expected in a student's test score because of the inherent imprecision of the test. For example, if the student were tested again, he or she would likely obtain a slightly different score. The range for this new score is provided as a standard error (SE) and gives an indication of the margin of error for the reported scale score.

## 8.2 Individual Student Report

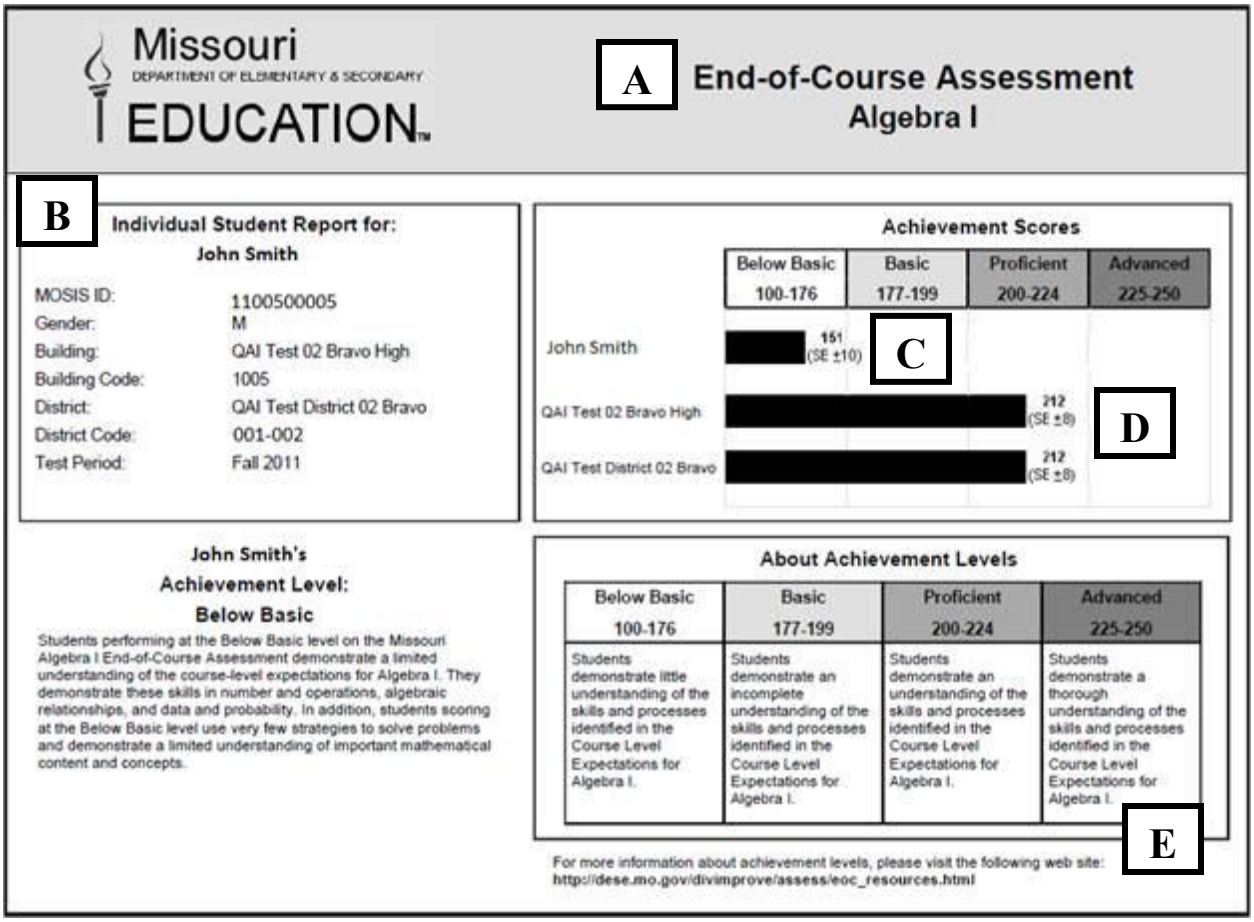
The 2011-2012 Individual Student Report provides information about performance on the EOC Assessment, describing the results in terms of four levels of achievement in a content area. It is used for measuring and reflecting an individual student's mastery toward post-secondary readiness for the content area. It is also used in instructional planning as a point of reference during a parent-teacher conference and for permanent recordkeeping. Teachers are informed that other sources of information should be used along with this report when determining the student's areas of strength or need.

On the report, achievement-level scores describe what students can do in terms of the CLEs for the content and skills assessed by the EOC Assessment. A student at the Proficient or Advanced level has met the standard.

A sample of the 2011-2012 Individual Student Report appears in Figure 8.1. A brief description of selected parts of the report is as follows:

A. The heading of the Individual Student Report includes the content area for the results being presented. A separate report is produced for each content area tested.
B. The Student Information section contains the biographic data for the individual student taking the assessment. Identifying information, including the MOSIS ID, gender, building, and district, is listed, followed by the test period.
C. The individual student's results are presented numerically as a three-digit scale score with the SE. An accompanying bar graph to the right of the scale score illustrates the achievement level obtained by the student. Achievement levels (whether Below Basic, Basic, Proficient, or Advanced) are based on the scale score ranges listed beneath the Achievement Level heading in the table.
D. The mean scale scores for the student's building and district are displayed in the two rows below the student's individual results. The mean scale score, with an associated SE, and the bar graph provide a way to view the individual's results in contrast to the group's results for the content area during the same test period.
E. The narrative describes the student performance characteristics corresponding to the obtained level of achievement. The text is specific to the content area tested. At the bottom of the narrative is a URL for a website that provides additional information for all of the achievement levels for the content area.

**Figure 8.1 – Individual Student Report**



Missouri DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION

A

End-of-Course Assessment
Algebra I

B

Individual Student Report for:
John Smith

| | |
|---|---|
| MOSIS ID: | 1100500005 |
| Gender: | M |
| Building: | QAI Test 02 Bravo High |
| Building Code: | 1005 |
| District: | QAI Test District 02 Bravo |
| District Code: | 001-002 |
| Test Period: | Fall 2011 |

Achievement Scores

| | Below Basic 100-176 | Basic 177-199 | Proficient 200-224 | Advanced 225-250 |
|---|---|---|---|---|
| John Smith | 151 (SE ±10) | | | |
| QAI Test 02 Bravo High | | | 212 (SE ±8) | |
| QAI Test District 02 Bravo | | | 212 (SE ±8) | |

C

D

John Smith's
Achievement Level:
Below Basic

Students performing at the Below Basic level on the Missouri Algebra I End-of-Course Assessment demonstrate a limited understanding of the course-level expectations for Algebra I. They demonstrate these skills in number and operations, algebraic relationships, and data and probability. In addition, students scoring at the Below Basic level use very few strategies to solve problems and demonstrate a limited understanding of important mathematical content and concepts.

About Achievement Levels

| Below Basic 100-176 | Basic 177-199 | Proficient 200-224 | Advanced 225-250 |
|---|---|---|---|
| Students demonstrate little understanding of the skills and processes identified in the Course Level Expectations for Algebra I. | Students demonstrate an incomplete understanding of the skills and processes identified in the Course Level Expectations for Algebra I. | Students demonstrate an understanding of the skills and processes identified in the Course Level Expectations for Algebra I. | Students demonstrate a thorough understanding of the skills and processes identified in the Course Level Expectations for Algebra I. |

E

For more information about achievement levels, please visit the following web site:
http://dese.mo.gov/divimprove/assess/eoc_resources.html

### 8.3 Student Score Label

The 2011-2012 Student Score Label provides a summary of a student's results on the EOC Assessment. A separate label is produced for each content area tested. The individual label provides the student's biographic data, scale score, and achievement level. The labels have adhesive backing so they can be easily transferred onto the student record folders.

A sample label is shown in Figure 8.2. A brief description of selected parts of the label is as follows:

A. The left side of the label shows the student's name and identifying information.
B. The upper right side shows the content area tested. If a student has results for more than one content area, the next label is printed below the first one.
C. The lower right side shows the student's scale score and achievement level.

**Figure 8.2 – Student Score Label**

**A**

ARNETT, BELINDA
MOSIS ID: 9999999999
Building: Washington HS
District: Jefferson
Test Period: Summer 2012

**B**

*Missouri End-of-Course Assessment*
*English I*

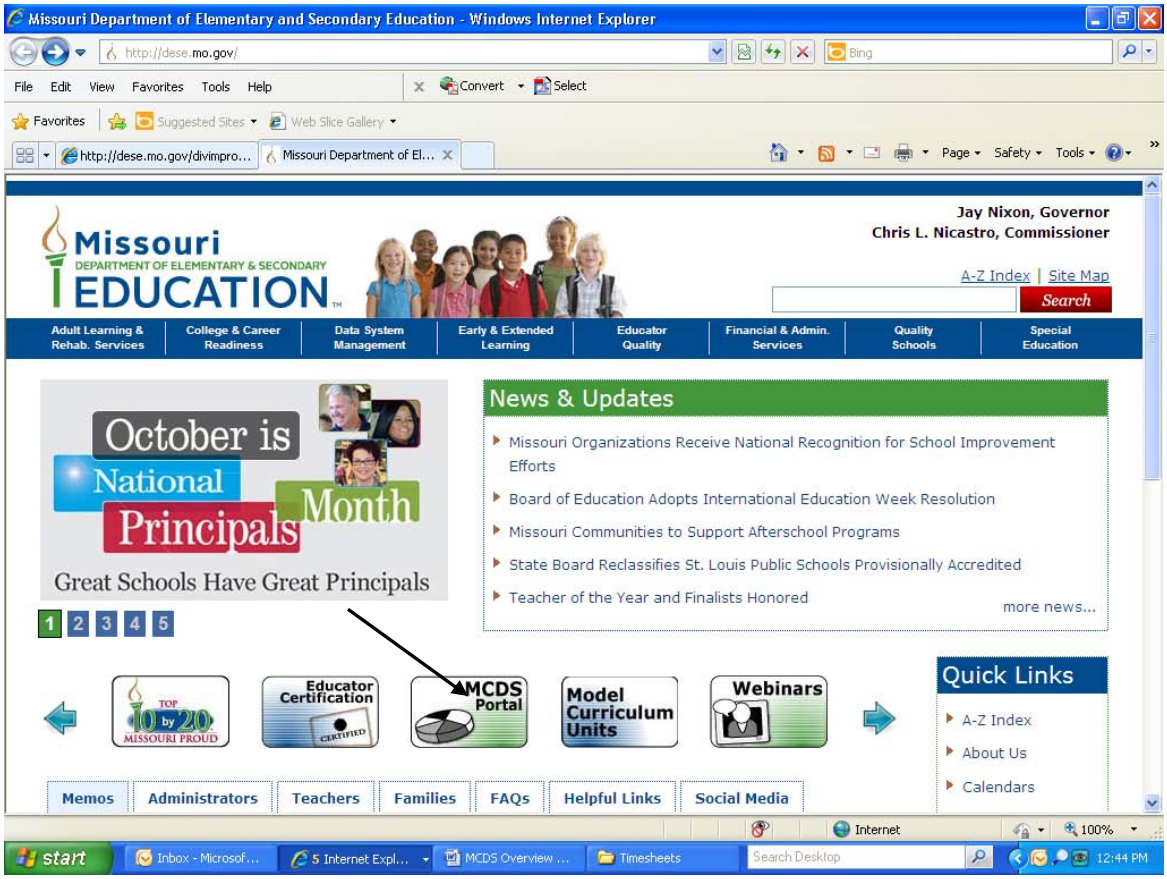
**C**

Scale Score: 213
Achievement Level: Proficient

### 8.4 Missouri Comprehensive Data System Portal

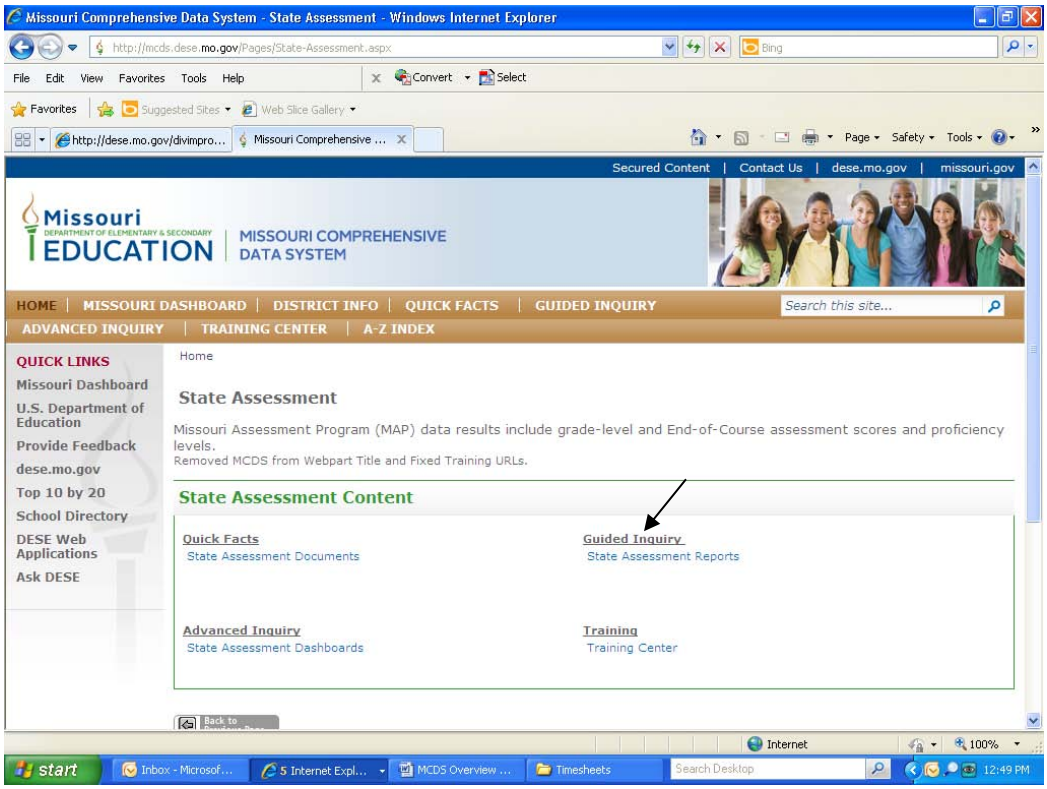
For the past several years, summary-level EOC results have been available to school district personnel in a set of standard reporting configurations through the Department's Crystal Reporting system. Reporting options included administrative reports, AYP reports, achievement level reports, content standard reports, and item analysis reports. Beginning with the 2011-12 school year, the Department transitioned all assessment reporting to the state's data portal, the Missouri Comprehensive Data System (MCDS). MCDS provides the general public with access to high-level EOC summary reports and allows school district personnel with appropriate permissions to access EOC data at a variety of levels. Through MCDS, designated district personnel are able to request on-demand, customized reports that are configured and disaggregated in ways that best meet their needs for such activities as evaluating programs, revising curriculum, and improving teaching and learning.

Users access MCDS from a link to the portal on the Department's homepage (http://dese.mo.gov/). From there, they access the data portal directly through the MCDS link.



Secured content is available through a link at the top of the MCDS portal's homepage. District users with appropriate permissions can log in to access data. Once users have logged in, they are returned to the MCDS portal page where they can locate EOC data through the State Assessment link.

On the State Assessment page, a Guided Inquiry link allows users to create summary Administrative reports, Achievement Level reports, and AYP reports. Authenticated users may also download student level data from the Quick Facts link on the Guided Inquiry page.



Missouri DEPARTMENT OF ELEMENTARY & SECONDARY EDUCATION | MISSOURI COMPREHENSIVE DATA SYSTEM

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- College and Career
- District and School Information
- Early Childhood Education
- Education Staff
- Special Education
- State Assessment
- Student Characteristics

All Site Content

Home > Guided Inquiry > State Assessment

## State Assessment

State Assessment Data Category

For those authenticated users, with Student Level Data access, raw MAP data may be downloaded from the Quick Facts State Assessment page.

### Administrative

| Type | Name | Description |
|---|---|---|
| | District Historical MAP Proficiency | Contains historical MAP proficiency results for districts and schools. |
| | District MAP Proficiency by Grade | Contains MAP Proficency by content area grade level for districts and schools. |
| | EOC History Report | Contains all End-of-Course (EOC) assessment taken by a student. |
| | EOC Student Banking | Contains data about students who participated in Algebra I and English II prior to grade nine. Students in this report are used for AYP accountability purposes when they enroll for the first time in grade nine on the September count date. |
| | Level Not Determined | Contains the list of students by school who didn't receive a valid MAP score in subject area for which the district is accountable. |
| | MAP Participation Invalidation | Contains the list of students that were invalidated. These students are still participants for Accountability purposes. |
| | MAP Scale Score Summary | Contains the achievement level, scale score and Terra Nova percentile for each student in a building by year, content area, grade and examiner. |
| | MAP Student Achievement Level | Contains the achievement level for each student in a building by year, content area and grade. |
| | MAP Student Demographics | Contains the demographics for each student in a building by year, content area and grade. |
| | MAP-A Student Report | Contains the achievement level and scale score for each MAP-A student in a building by year, content area, and grade. |

### Achievement Level - 4 Levels

| Type | Name | Description |
|---|---|---|
| | Achievement Level 4 Chart | Contains aggregate data of student categories and types performing in the top two achievement levels displayed in charts. |
| | Achievement Level 4 Report | Contains aggregate data of student categories and types by achievement level. |

### AYP - Federal Accountability

| Type | Name | Description |
|---|---|---|
| | AYP - Additional Indicator | Contains school and district/LEA attendance and graduation rate data used for AYP accountability purposes. |
| | AYP - Grid | |
| | AYP - Growth Targets Met | Students in this report are on track to be proficient and are used for AYP growth model calculations. |
| | AYP - Growth Trajectory | Contains data about student growth trajectories for determining if a student is on track to be proficient in four years or by eighth grade. |
| | AYP - Summary | Contains school and district/LEA group totals, overall met and sanction. |
| | AYP - Supporting Data | Contains detailed subgroup data for federal accountability reporting. |

Back to Previous Page

Missouri Comprehensive Data System
Home | Quick Facts | Guided Inquiry | Advanced Inquiry

Reports are similar in structure and format to the reports that were previously available through Crystal Reports. Although an unlimited number and configuration of reports may be created through MCDS, the Department has provided a crosswalk of available Crystal Reports to corresponding MCDS reports. A description of the content of the Crystal Reports is available in the *2009 Missouri End-of-Course Assessments Technical Report*.

| Crystal Report | MCDS Portal |
|---|---|
| **Administrative Reports** | |
| MAP Results - Administrative: MAP Scale Score Summary | Guided Inquiry - State Assessment Administrative: MAP Scale Score Summary |
| MAP Results - Administrative: MAP Student Demographics | Guided Inquiry - State Assessment Administrative: MAP Student Demographics |
| MAP Results - Administrative: Participation Invalidation | Guided Inquiry - State Assessment Administrative: MAP Participation Invalidation |
| MAP Results - Administrative: Student Achievement Level | Guided Inquiry - State Assessment Administrative: MAP Student Achievement Level |
| **Achievement Level Reports** | |
| MAP Results Achievement Level - 4 Levels: Achievement Level 4 Report | Guided Inquiry - State Assessment Achievement Level - 4 Levels: Achievement Level 4 Report |
| | Guided Inquiry - State Assessment Achievement Level - 4 Levels: Achievement Level 4 Charts |
| **Content Standards Reports** | |
| MAP Results - Content Standards | Guided Inquiry - State Assessment Content Standard - Item Analysis: Content Standard Summary |
| MAP Results - Content Standards Details | Pending |
| **Item Analysis Expanded Reports** | |
| MAP Results - Item Analysis Expanded: Content Standard IBD EX | Guided Inquiry - State Assessment Content Standard - Item Analysis: Content Standard IBD |
| MAP Results - Item Analysis Expanded: Goal Process Standard IBD EX | Guided Inquiry - State Assessment Content Standard - Item Analysis: Goal Process IBD |

In addition to these reports which correspond directly to the previous Crystal Reports, the MCDS portal also provides a variety of AYP summary reports which are beyond the scope of this report. Additional information and training pertaining to MCDS capabilities are available on the Department's website at http://mcds.dese.mo.gov/trainingcenter/Pages/default.aspx.

# Chapter 9: Summary Statistics

## 9.1 Introduction

Descriptive statistics based on the number correct raw score and the scale scores are provided here for all subjects and test administrations. Statistics include N-counts, means, standard deviations (SD), and the minimum and maximum values for the overall populations and for disaggregated groups.

## 9.2 Descriptive Statistics for Total Raw Score

Table 9.1 summarizes the descriptive statistics for total raw score (RS) by test administration (test period) and subject; the total number of students who took the particular EOC Assessment (N-count); the minimum, maximum, and mean raw scores; and the standard deviation (SD).

**Table 9.1 – Descriptive Statistics for Total Raw Score**

| Test Period | Subject | N-Count | Minimum (RS) | Maximum (RS) | Mean (RS) | SD (RS) |
|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | 629 | 0 | 34 | 18.29 | 5.90 |
| | Algebra II | 124 | 2 | 35 | 15.64 | 5.88 |
| | American History | 185 | 5 | 34 | 18.93 | 5.92 |
| | Biology | 279 | 1 | 34 | 18.33 | 6.03 |
| | English I | 246 | 6 | 39 | 21.07 | 7.10 |
| | English II | 313 | 5 | 32 | 19.50 | 5.72 |
| | Geometry | 192 | 7 | 37 | 19.73 | 5.79 |
| | Government | 821 | 0 | 40 | 24.46 | 7.17 |
| Fall 2011 | Algebra I | 3,999 | 0 | 35 | 19.66 | 8.00 |
| | Algebra II | 514 | 6 | 40 | 27.16 | 7.32 |
| | American History | 831 | 4 | 40 | 23.75 | 7.05 |
| | Biology | 3,029 | 1 | 35 | 20.01 | 7.08 |
| | English I | 220 | 6 | 40 | 24.21 | 8.17 |
| | English II | 3,022 | 0 | 35 | 21.09 | 6.71 |
| | Geometry | 729 | 5 | 40 | 25.96 | 8.51 |
| | Government | 17,228 | 0 | 40 | 23.74 | 8.10 |
| Spring 2012 | Algebra I | 64,446 | 0 | 35 | 21.51 | 6.66 |
| | Algebra II | 25,150 | 0 | 40 | 23.75 | 7.18 |
| | American History | 38,571 | 0 | 40 | 22.85 | 6.26 |
| | Biology | 61,746 | 0 | 35 | 22.18 | 6.38 |
| | English I | 44,303 | 0 | 40 | 25.79 | 6.85 |
| | English II | 62,024 | 0 | 35 | 23.59 | 5.76 |
| | Geometry | 30,251 | 0 | 40 | 24.33 | 6.29 |
| | Government | 40,199 | 0 | 40 | 24.82 | 7.03 |

### 9.3 Descriptive Statistics for Total Raw Score by Cluster

Tables 9.2 (A) – 9.2 (C) summarize the number correct raw score (RS) – including the average raw score, the standard deviation (SD), and the standard error of measurement (SEM) – by test administration (test period), subject, and cluster.

**Table 9.2 (A) – Descriptive Statistics for Total Raw Score by Test Period, Subject, and Cluster, Summer 2011**

| Test Period | Subject | Content Strand | Mean (RS) | SD (RS) | SEM (RS) |
|---|---|---|---|---|---|
| Summer 2011 | Algebra I | Numbers and Operations | 4.46 | 1.76 | 1.26 |
| | | Algebraic Relationships | 9.83 | 3.54 | 1.92 |
| | | Data and Probability | 4.00 | 1.73 | 1.26 |
| | Algebra II | Numbers and Operations | 3.71 | 1.87 | 1.35 |
| | | Algebraic Relationships | 7.61 | 3.45 | 2.10 |
| | | Data and Probability | 4.31 | 1.80 | 1.41 |
| | American History | Missouri, United States, and World History | 18.93 | 5.92 | 2.94 |
| | Biology | Characteristics and Interactions of Living Organisms | 10.79 | 3.93 | 2.13 |
| | | Changes in Ecosystems and Interactions of Organisms with their Environments | 7.54 | 2.80 | 1.56 |
| | English I | Reading | 21.07 | 7.10 | 2.90 |
| | English II | Reading | 17.09 | 5.07 | 2.32 |
| | | Writing | 2.07 | 1.21 | 1.00 |
| | Geometry | Geometry/Algebraic Relationships | 3.69 | 1.67 | 1.30 |
| | | Geometric and Spatial Relationships | 11.87 | 3.59 | 2.27 |
| | | Measurement | 4.17 | 1.75 | 1.32 |
| | Government | Principles and Processes of Governance Systems | 12.65 | 3.98 | 1.91 |
| | | Principles of Constitutional Democracy | 11.84 | 3.61 | 1.96 |

**Table 9.2 (B) – Descriptive Statistics for Total Raw Score by Test Period, Subject, and Cluster, Fall 2011**

| Test Period | Subject | Content Strand | Mean (RS) | SD (RS) | SEM (RS) |
|---|---|---|---|---|---|
| Fall 2011 | Algebra I | Numbers and Operations | 4.82 | 2.14 | 1.19 |
| | | Algebraic Relationships | 9.85 | 4.66 | 1.87 |
| | | Data and Probability | 4.99 | 1.99 | 1.16 |
| | Algebra II | Numbers and Operations | 5.37 | 1.72 | 1.21 |
| | | Algebraic Relationships | 14.79 | 4.45 | 1.95 |
| | | Data and Probability | 6.99 | 2.08 | 1.30 |
| | American History | Missouri, United States, and World History | 18.93 | 5.92 | 2.94 |
| | Biology | Characteristics and Interactions of Living Organisms | 11.22 | 4.51 | 2.10 |
| | | Changes in Ecosystems and Interactions of Organisms with their Environments | 8.79 | 3.17 | 1.43 |
| | English I | Reading | 24.21 | 8.17 | 2.75 |
| | English II | Reading | 18.24 | 5.93 | 2.36 |
| | | Writing | 2.87 | 1.25 | 0.99 |
| | Geometry | Geometry/Algebraic Relationships | 4.88 | 1.98 | 1.16 |
| | | Geometric and Spatial Relationships | 15.59 | 5.17 | 2.05 |
| | | Measurement | 4.49 | 2.12 | 1.10 |
| | Government | Principles and Processes of Governance Systems | 11.63 | 4.26 | 1.98 |
| | | Principles of Constitutional Democracy | 12.11 | 4.27 | 1.94 |

**Table 9.2 (C) – Descriptive Statistics for Total Raw Score by Test Period, Subject, and Cluster, Spring 2012**

| Test Period | Subject | Content Strand | Mean (RS) | SD (RS) | SEM (RS) |
|---|---|---|---|---|---|
| Spring 2012 | Algebra I | Numbers and Operations | 5.28 | 1.89 | 1.17 |
| | | Algebraic Relationships | 11.46 | 3.92 | 1.81 |
| | | Data and Probability | 4.78 | 1.78 | 1.22 |
| | Algebra II | Numbers and Operations | 5.89 | 2.06 | 1.26 |
| | | Algebraic Relationships | 12.00 | 4.34 | 2.11 |
| | | Data and Probability | 5.86 | 1.90 | 1.30 |
| | American History | Missouri, United States, and World History | 22.85 | 6.26 | 2.82 |
| | Biology | Characteristics and Interactions of Living Organisms | 13.09 | 4.32 | 2.06 |
| | | Changes in Ecosystems and Interactions of Organisms with their Environments | 9.10 | 2.65 | 1.44 |
| | English I | Reading | 25.79 | 6.85 | 2.73 |
| | English II | Reading | 20.55 | 4.87 | 2.11 |
| | | Writing | 2.63 | 1.29 | 0.99 |
| | Geometry | Geometry/Algebraic Relationships | 4.69 | 1.69 | 1.25 |
| | | Geometric and Spatial Relationships | 14.52 | 3.89 | 2.13 |
| | | Measurement | 5.11 | 1.78 | 1.21 |
| | Government | Principles and Processes of Governance Systems | 12.84 | 3.94 | 1.90 |
| | | Principles of Constitutional Democracy | 11.99 | 3.59 | 1.93 |

### 9.4 Descriptive Statistics for Scale Scores by Test Period and Subject

Table 9.3 summarizes the descriptive statistics of scale scores (SS) by test administration (test period) and subject; the total number of students who took the particular EOC Assessment (N-count); the minimum, maximum, and mean scale scores; and the standard deviation (SD).

**Table 9.3 – Scale Score Distributions by Test Period and Subject**

| Test Period | Subject | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | 629 | 100 | 250 | 193.69 | 18.11 |
| | Algebra II | 124 | 126 | 235 | 180.99 | 16.02 |
| | American History | 185 | 127 | 237 | 181.95 | 19.85 |
| | Biology | 279 | 119 | 250 | 191.28 | 16.40 |
| | English I | 246 | 145 | 250 | 190.35 | 19.73 |
| | English II | 313 | 154 | 236 | 195.35 | 15.28 |
| | Geometry | 192 | 150 | 250 | 189.61 | 16.59 |
| | Government | 821 | 100 | 250 | 200.97 | 19.50 |
| Fall 2011 | Algebra I | 3,999 | 100 | 250 | 199.51 | 25.57 |
| | Algebra II | 514 | 152 | 250 | 210.18 | 20.59 |
| | American History | 831 | 123 | 250 | 197.67 | 23.66 |
| | Biology | 3,029 | 119 | 250 | 196.82 | 20.58 |
| | English I | 220 | 145 | 250 | 199.81 | 24.06 |
| | English II | 3,022 | 106 | 250 | 198.43 | 17.42 |
| | Geometry | 729 | 141 | 250 | 208.43 | 26.79 |
| | Government | 17,228 | 100 | 250 | 199.14 | 20.73 |
| Spring 2012 | Algebra I | 64,446 | 100 | 250 | 203.75 | 21.25 |
| | Algebra II | 25,150 | 100 | 250 | 202.34 | 19.56 |
| | American History | 38,571 | 100 | 250 | 195.16 | 21.48 |
| | Biology | 61,746 | 100 | 250 | 202.07 | 18.69 |
| | English I | 44,303 | 100 | 250 | 203.63 | 20.06 |
| | English II | 62,024 | 104 | 250 | 206.86 | 16.98 |
| | Geometry | 30,251 | 100 | 250 | 202.66 | 18.68 |
| | Government | 40,199 | 100 | 250 | 201.79 | 18.75 |

The scale score range is 100 to 250 for every subject. The minimum scale score required to obtain a specific level of achievement – i.e., the cut score – changes based on the subject. Table 9.4 summarizes the minimum scale score needed to obtain each level of achievement. Note that the cut scores for the achievement levels of Proficient and Advanced are 200 and 225, respectively, for each subject.

**Table 9.4 – Scale Score Cuts by Subject**

| Subject | Basic | Proficient | Advanced |
|---|---|---|---|
| Algebra I | 177 | 200 | 225 |
| Algebra II | 182 | 200 | 225 |
| American History | 182 | 200 | 225 |
| Biology | 178 | 200 | 225 |
| English I | 177 | 200 | 225 |
| English II | 180 | 200 | 225 |
| Government | 179 | 200 | 225 |
| Geometry | 182 | 200 | 225 |

Tables 9.5 (A) – 9.5 (C) summarize the frequency of students in each achievement level. Table 9.6 shows the number of participating students and the proportion in each level of achievement across years and administrations by subject.

**Table 9.5 (A) – Achievement Level Distributions, Summer 2011**

| Test Period | Subject | Achievement Level | Frequency | Percent |
|---|---|---|---|---|
| Summer 2011 | Algebra I | Below Basic | 85 | 13.51 |
| | | Basic | 335 | 53.26 |
| | | Proficient | 167 | 26.55 |
| | | Advanced | 42 | 6.68 |
| | | Total | 629 | 100.00 |
| | Algebra II | Below Basic | 57 | 45.97 |
| | | Basic | 55 | 44.35 |
| | | Proficient | 10 | 8.06 |
| | | Advanced | 2 | 1.61 |
| | | Total | 124 | 100.00 |
| | American History | Below Basic | 97 | 52.43 |
| | | Basic | 48 | 25.95 |
| | | Proficient | 36 | 19.46 |
| | | Advanced | 4 | 2.16 |
| | | Total | 185 | 100.00 |
| | Biology | Below Basic | 56 | 20.07 |
| | | Basic | 137 | 49.10 |
| | | Proficient | 74 | 26.52 |
| | | Advanced | 12 | 4.30 |
| | | Total | 279 | 100.00 |
| | English I | Below Basic | 57 | 23.17 |
| | | Basic | 110 | 44.72 |
| | | Proficient | 66 | 26.83 |
| | | Advanced | 13 | 5.28 |
| | | Total | 246 | 100.00 |
| | Englis II | Below Basic | 44 | 14.06 |
| | | Basic | 132 | 42.17 |
| | | Proficient | 121 | 38.66 |
| | | Advanced | 16 | 5.11 |
| | | Total | 313 | 100.00 |
| | Geometry | Below Basic | 61 | 31.77 |
| | | Basic | 77 | 40.10 |
| | | Proficient | 45 | 23.44 |
| | | Advanced | 9 | 4.69 |
| | | Total | 192 | 100.00 |
| | Government | Below Basic | 69 | 8.40 |
| | | Basic | 342 | 41.66 |
| | | Proficient | 297 | 36.18 |
| | | Advanced | 113 | 13.76 |
| | | Total | 821 | 100.00 |

**Table 9.5 (B) – Achievement Level Distributions, Fall 2011**

| Test Period | Subject | Achievement Level | Frequency | Percent |
|---|---|---|---|---|
| Fall 2011 | Algebra I | Below Basic | 794 | 19.85 |
| | | Basic | 1,212 | 30.31 |
| | | Proficient | 1,116 | 27.91 |
| | | Advanced | 877 | 21.93 |
| | | Total | 3,999 | 100.00 |
| | Algebra II | Below Basic | 41 | 7.98 |
| | | Basic | 112 | 21.79 |
| | | Proficient | 216 | 42.02 |
| | | Advanced | 145 | 28.21 |
| | | Total | 514 | 100.00 |
| | American History | Below Basic | 213 | 25.63 |
| | | Basic | 209 | 25.15 |
| | | Proficient | 287 | 34.54 |
| | | Advanced | 122 | 14.68 |
| | | Total | 831 | 100.00 |
| | Biology | Below Basic | 501 | 16.54 |
| | | Basic | 1,269 | 41.90 |
| | | Proficient | 916 | 30.24 |
| | | Advanced | 343 | 11.32 |
| | | Total | 3,029 | 100.00 |
| | English I | Below Basic | 40 | 18.18 |
| | | Basic | 69 | 31.36 |
| | | Proficient | 71 | 32.27 |
| | | Advanced | 40 | 18.18 |
| | | Total | 220 | 100.00 |
| | English II | Below Basic | 386 | 12.77 |
| | | Basic | 1,050 | 34.75 |
| | | Proficient | 1,301 | 43.05 |
| | | Advanced | 285 | 9.43 |
| | | Total | 3,022 | 100.00 |
| | Geometry | Below Basic | 128 | 17.56 |
| | | Basic | 140 | 19.20 |
| | | Proficient | 226 | 31.00 |
| | | Advanced | 235 | 32.24 |
| | | Total | 729 | 100.00 |
| | Government | Below Basic | 2,689 | 15.61 |
| | | Basic | 6,345 | 36.83 |
| | | Proficient | 5,778 | 33.54 |
| | | Advanced | 2,416 | 14.02 |
| | | Total | 17,228 | 100.00 |

**Table 9.5 (C) – Achievement Level Distributions, Spring 2012**

| Test Period | Subject | Achievement Level | Frequency | Percent |
|---|---|---|---|---|
| Spring 2012 | Algebra I | Below Basic | 5,311 | 8.24 |
| | | Basic | 22,278 | 34.57 |
| | | Proficient | 23,244 | 36.07 |
| | | Advanced | 13,613 | 21.12 |
| | | Total | 64,446 | 100.00 |
| | Algebra II | Below Basic | 2,791 | 11.10 |
| | | Basic | 8,229 | 32.72 |
| | | Proficient | 10,088 | 40.11 |
| | | Advanced | 4,042 | 16.07 |
| | | Total | 25,150 | 100.00 |
| | American History | Below Basic | 9,775 | 25.34 |
| | | Basic | 10,146 | 26.30 |
| | | Proficient | 14,434 | 37.42 |
| | | Advanced | 4,216 | 10.93 |
| | | Total | 38,571 | 100.00 |
| | Biology | Below Basic | 4,804 | 7.78 |
| | | Basic | 22,522 | 36.48 |
| | | Proficient | 25,845 | 41.86 |
| | | Advanced | 8,575 | 13.89 |
| | | Total | 61,746 | 100.00 |
| | English I | Below Basic | 4,220 | 9.53 |
| | | Basic | 12,504 | 28.22 |
| | | Proficient | 20,164 | 45.51 |
| | | Advanced | 7,415 | 16.74 |
| | | Total | 44,303 | 100.00 |
| | English II | Below Basic | 3,323 | 5.36 |
| | | Basic | 12,701 | 20.48 |
| | | Proficient | 33,536 | 54.07 |
| | | Advanced | 12,464 | 20.10 |
| | | Total | 62,024 | 100.00 |
| | Geometry | Below Basic | 3,610 | 11.93 |
| | | Basic | 7,659 | 25.32 |
| | | Proficient | 15,024 | 49.66 |
| | | Advanced | 3,958 | 13.08 |
| | | Total | 30,251 | 100.00 |
| | Government | Below Basic | 3,440 | 8.56 |
| | | Basic | 15,288 | 38.03 |
| | | Proficient | 15,391 | 38.29 |
| | | Advanced | 6,080 | 15.12 |
| | | Total | 40,199 | 100.00 |

**Table 9.6 – Percentage of Students in Each Achievement Level by Test Period and Subject**

| Subject | Achievement Level | Test Period | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Fall 2008 | | Spring 2009 | | Summer 2009 | | Fall 2009 | | Spring 2010 | |
| | | Freq. | % | Freq. | % | Freq. | % | Freq. | % | Freq. | % |
| Algebra I | Below Basic | 141 | 6.3 | 5,368 | 10.0 | 271 | 21.1 | 208 | 8.4 | 3,733 | 6.2 |
| | Basic | 621 | 27.6 | 19,555 | 36.5 | 629 | 49.0 | 963 | 38.7 | 20,593 | 34.0 |
| | Proficient | 1,094 | 48.7 | 20,822 | 38.9 | 320 | 24.9 | 943 | 37.9 | 25,381 | 41.9 |
| | Advanced | 392 | 17.4 | 7,781 | 14.5 | 64 | 5.0 | 374 | 15.0 | 10,837 | 17.9 |
| | Total | 2,248 | 100 | 53,526 | 100 | 1,284 | 100 | 2,488 | 100 | 60,544 | 100 |
| Algebra II | Below Basic | -- | -- | -- | -- | -- | -- | 48 | 9.1 | 4,266 | 19.5 |
| | Basic | -- | -- | -- | -- | -- | -- | 174 | 33.1 | 8,470 | 38.8 |
| | Proficient | -- | -- | -- | -- | -- | -- | 201 | 38.3 | 6,909 | 31.7 |
| | Advanced | -- | -- | -- | -- | -- | -- | 102 | 19.4 | 2,179 | 10.0 |
| | Total | -- | -- | -- | -- | -- | -- | 525 | 100 | 21,824 | 100 |
| American History | Below Basic | -- | -- | -- | -- | -- | -- | 166 | 23.8 | 10,385 | 31.8 |
| | Basic | -- | -- | -- | -- | -- | -- | 176 | 25.2 | 9,047 | 27.7 |
| | Proficient | -- | -- | -- | -- | -- | -- | 235 | 33.7 | 9,275 | 28.4 |
| | Advanced | -- | -- | -- | -- | -- | -- | 121 | 17.3 | 3,929 | 12.0 |
| | Total | -- | -- | -- | -- | -- | -- | 698 | 100 | 32,636 | 100 |
| Biology | Below Basic | 84 | 4.5 | 4,148 | 7.4 | 99 | 20.2 | 187 | 8.8 | 3,703 | 6.2 |
| | Basic | 576 | 31.1 | 19,435 | 34.9 | 270 | 55.0 | 706 | 33.3 | 20,890 | 34.9 |
| | Proficient | 954 | 51.4 | 25,538 | 45.8 | 104 | 21.2 | 867 | 40.9 | 27,984 | 46.7 |
| | Advanced | 241 | 13.0 | 6,611 | 11.9 | 18 | 3.7 | 362 | 17.1 | 7,327 | 12.2 |
| | Total | 1,855 | 100 | 55,732 | 100 | 491 | 100 | 2,122 | 100 | 59,904 | 100 |
| English I | Below Basic | -- | -- | -- | -- | -- | -- | 42 | 13.2 | 5,283 | 12.5 |
| | Basic | -- | -- | -- | -- | -- | -- | 118 | 37.1 | 13,254 | 31.3 |
| | Proficient | -- | -- | -- | -- | -- | -- | 105 | 33.0 | 16,699 | 39.5 |
| | Advanced | -- | -- | -- | -- | -- | -- | 53 | 16.7 | 7,081 | 16.7 |
| | Total | -- | -- | -- | -- | -- | -- | 318 | 100 | 42,317 | 100 |
| English II | Below Basic | 52 | 3.9 | 2,377 | 4.1 | 74 | 10.5 | 23 | 1.6 | 1,830 | 3.0 |
| | Basic | 258 | 19.6 | 12,321 | 21.4 | 318 | 45.0 | 325 | 22.9 | 14,260 | 23.0 |
| | Proficient | 693 | 52.6 | 30,403 | 52.7 | 286 | 40.5 | 884 | 62.2 | 31,658 | 51.1 |
| | Advanced | 314 | 23.8 | 12,593 | 21.8 | 28 | 4.0 | 190 | 13.4 | 14,163 | 22.9 |
| | Total | 1,317 | 100 | 57,694 | 100 | 706 | 100 | 1,422 | 100 | 61,911 | 100 |
| Geometry | Below Basic | -- | -- | -- | -- | -- | -- | 48 | 8.1 | 5,151 | 19.2 |
| | Basic | -- | -- | -- | -- | -- | -- | 121 | 20.5 | 7,913 | 29.5 |
| | Proficient | -- | -- | -- | -- | -- | -- | 234 | 39.6 | 9,246 | 34.4 |
| | Advanced | -- | -- | -- | -- | -- | -- | 188 | 31.8 | 4,548 | 16.9 |
| | Total | -- | -- | -- | -- | -- | -- | 591 | 100 | 26,858 | 100 |
| Government | Below Basic | -- | -- | -- | -- | -- | -- | 3,179 | 15.0 | 4,628 | 12.5 |
| | Basic | -- | -- | -- | -- | -- | -- | 7,501 | 35.4 | 13,710 | 37.1 |
| | Proficient | -- | -- | -- | -- | -- | -- | 7,470 | 35.3 | 13,144 | 35.6 |
| | Advanced | -- | -- | -- | -- | -- | -- | 3,018 | 14.3 | 5,448 | 14.8 |
| | Total | -- | -- | -- | -- | -- | -- | 21,168 | 100 | 36,930 | 100 |

**Table 9.6 (cont.) – Percentage of Students in Each Achievement Level by Test Period and Subject**

| Subject | Achievement Level | Test Period | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Summer 2010 | | Fall 2010 | | Spring 2011 | | Summer 2011 | | Fall 2011 | | Spring 2012 | |
| | | Freq. | % | Freq. | % | Freq. | % | Freq. | % | Freq. | % | Freq. | % |
| Algebra I | Below Basic | 133 | 11.8 | 353 | 12.9 | 5,381 | 8.4 | 85 | 13.5 | 794 | 19.9 | 5,311 | 8.2 |
| | Basic | 562 | 49.9 | 993 | 36.2 | 18,914 | 29.6 | 335 | 53.3 | 1,212 | 30.3 | 22,278 | 34.6 |
| | Proficient | 340 | 30.2 | 721 | 26.3 | 26,590 | 41.5 | 167 | 26.6 | 1,116 | 27.9 | 23,244 | 36.1 |
| | Advanced | 91 | 8.1 | 674 | 24.6 | 13,112 | 20.5 | 42 | 6.7 | 877 | 21.9 | 13,613 | 21.1 |
| | Total | 1,126 | 100 | 2,741 | 100 | 63,997 | 100 | 629 | 100 | 3,999 | 100 | 64,446 | 100 |
| Algebra II | Below Basic | 39 | 34.5 | 46 | 9.0 | 1,905 | 8.5 | 57 | 46.0 | 41 | 8.0 | 2,791 | 11.1 |
| | Basic | 62 | 54.9 | 155 | 30.3 | 8,606 | 38.2 | 55 | 44.4 | 112 | 21.8 | 8,229 | 32.7 |
| | Proficient | 10 | 8.8 | 226 | 44.2 | 9,391 | 41.7 | 10 | 8.1 | 216 | 42.0 | 10,088 | 40.1 |
| | Advanced | 2 | 1.8 | 84 | 16.4 | 2,604 | 11.6 | 2 | 1.6 | 145 | 28.2 | 4,042 | 16.1 |
| | Total | 113 | 100 | 511 | 100 | 22,506 | 100 | 124 | 100 | 514 | 100 | 25,150 | 100 |
| American History | Below Basic | 26 | 56.5 | 170 | 26.1 | 8,458 | 24.3 | 97 | 52.4 | 213 | 25.6 | 9,775 | 25.3 |
| | Basic | 8 | 17.4 | 165 | 25.3 | 8,842 | 25.4 | 48 | 26.0 | 209 | 25.2 | 10,146 | 26.3 |
| | Proficient | 10 | 21.7 | 231 | 35.4 | 13,182 | 37.9 | 36 | 19.5 | 287 | 34.5 | 14,434 | 37.4 |
| | Advanced | 2 | 4.3 | 86 | 13.2 | 2,296 | 12.4 | 4 | 2.2 | 122 | 14.7 | 4,216 | 10.9 |
| | Total | 46 | 100 | 652 | 100 | 34,778 | 100 | 185 | 100 | 831 | 100 | 38,571 | 100 |
| Biology | Below Basic | 89 | 23.2 | 292 | 12.2 | 3,932 | 6.3 | 56 | 20.1 | 501 | 16.5 | 4,804 | 7.8 |
| | Basic | 160 | 41.7 | 831 | 34.8 | 19,250 | 31.0 | 137 | 49.1 | 1,269 | 41.9 | 22,522 | 36.5 |
| | Proficient | 117 | 30.5 | 760 | 31.8 | 29,029 | 46.8 | 74 | 26.5 | 916 | 30.2 | 25,845 | 41.9 |
| | Advanced | 18 | 4.7 | 508 | 21.2 | 9,857 | 15.9 | 12 | 4.3 | 343 | 11.3 | 8,575 | 13.9 |
| | Total | 384 | 100 | 2,391 | 100 | 62,068 | 100 | 279 | 100 | 3,029 | 100 | 61,746 | 100 |
| English I | Below Basic | 37 | 18.9 | 40 | 12.2 | 4,564 | 10.8 | 57 | 23.2 | 40 | 18.2 | 4,220 | 9.5 |
| | Basic | 81 | 41.3 | 87 | 26.6 | 13,035 | 30.9 | 110 | 44.7 | 69 | 31.4 | 12,504 | 28.2 |
| | Proficient | 64 | 32.7 | 116 | 35.5 | 16,204 | 38.4 | 66 | 26.8 | 71 | 32.4 | 20,164 | 45.5 |
| | Advanced | 14 | 7.1 | 84 | 25.7 | 8,368 | 19.8 | 13 | 5.3 | 40 | 18.2 | 7,415 | 16.7 |
| | Total | 196 | 100 | 327 | 100 | 42,171 | 100 | 246 | 100 | 220 | 100 | 44,303 | 100 |
| English II | Below Basic | 76 | 16.0 | 145 | 7.9 | 2,548 | 4.0 | 44 | 14.1 | 386 | 12.8 | 3,323 | 5.4 |
| | Basic | 213 | 44.7 | 537 | 29.3 | 13,463 | 21.1 | 132 | 42.2 | 1,050 | 34.8 | 12,701 | 20.5 |
| | Proficient | 168 | 35.3 | 780 | 42.6 | 30,712 | 48.2 | 121 | 38.7 | 1,301 | 43.1 | 33,536 | 54.1 |
| | Advanced | 19 | 4.0 | 371 | 20.2 | 16,959 | 26.6 | 16 | 5.1 | 285 | 9.4 | 12,464 | 20.1 |
| | Total | 476 | 100 | 1,833 | 100 | 63,682 | 100 | 313 | 100 | 3,022 | 100 | 62,024 | 100 |
| Geometry | Below Basic | 96 | 41.9 | 143 | 16.3 | 4,248 | 16.3 | 61 | 31.8 | 128 | 17.6 | 3,610 | 11.9 |
| | Basic | 95 | 41.5 | 227 | 25.9 | 8,783 | 33.7 | 77 | 40.1 | 140 | 19.2 | 7,659 | 25.3 |
| | Proficient | 34 | 14.8 | 321 | 36.6 | 10,291 | 39.4 | 45 | 23.4 | 226 | 31.0 | 15,024 | 49.7 |
| | Advanced | 4 | 1.7 | 187 | 21.3 | 2,766 | 10.6 | 9 | 4.7 | 235 | 32.2 | 3,958 | 13.1 |
| | Total | 229 | 100 | 878 | 100 | 26,088 | 100 | 192 | 100 | 729 | 100 | 30,251 | 100 |
| Government | Below Basic | 177 | 20.1 | 1,591 | 9.0 | 2,998 | 7.5 | 69 | 8.4 | 2,689 | 15.6 | 3,440 | 8.6 |
| | Basic | 304 | 34.5 | 6,540 | 37.2 | 12,622 | 31.6 | 342 | 41.7 | 6,345 | 36.8 | 15,288 | 38.0 |
| | Proficient | 246 | 27.9 | 7,411 | 42.1 | 17,626 | 44.2 | 297 | 36.2 | 5,778 | 33.5 | 15,391 | 38.3 |
| | Advanced | 154 | 17.5 | 2,047 | 11.6 | 6,661 | 16.7 | 113 | 13.8 | 2,416 | 14.0 | 6,080 | 15.1 |
| | Total | 881 | 100 | 17,589 | 100 | 39,907 | 100 | 821 | 100 | 17,228 | 100 | 40,199 | 100 |

## 9.5 Descriptive Statistics by Demographic Group

Descriptive statistics of scale scores and percentage distributions of students' achievement levels by demographic groups are summarized in Tables 9.7 – 9.22.

The demographic variables included are gender (Tables 9.7 and 9.15), ethnicity (Tables 9.8 and 9.16), migrant status (Tables 9.9 and 9.17), free and reduced lunch (FRL) (Tables 9.10 and 9.18), limited English proficient (LEP) (Tables 9.11 and 9.19), Title I (Tables 9.12 and 9.20), individualized education program (IEP) (Tables 9.13 and 9.21), and accommodations (Tables 9.14 and 9.22).

**Table 9.7 (A) – Scale Score Distributions by Gender, Summer 2011**

| Test Period | Subject | Gender | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | Female | 277 | 100 | 244 | 190.88 | 16.45 |
| | | Male | 352 | 151 | 250 | 195.91 | 19.05 |
| | Algebra II | Female | 44 | 126 | 235 | 182.43 | 17.57 |
| | | Male | 80 | 142 | 227 | 180.20 | 15.16 |
| | American History | Female | 77 | 133 | 215 | 180.04 | 17.44 |
| | | Male | 108 | 127 | 237 | 183.31 | 21.38 |
| | Biology | Female | 111 | 119 | 250 | 188.20 | 16.33 |
| | | Male | 168 | 161 | 236 | 193.31 | 16.18 |
| | English I | Female | 106 | 150 | 250 | 191.67 | 20.82 |
| | | Male | 140 | 145 | 247 | 189.35 | 18.87 |
| | English II | Female | 113 | 162 | 230 | 196.44 | 14.16 |
| | | Male | 200 | 154 | 236 | 194.74 | 15.88 |
| | Geometry | Female | 98 | 158 | 233 | 188.27 | 15.86 |
| | | Male | 94 | 150 | 250 | 191.02 | 17.29 |
| | Government | Female | 423 | 100 | 250 | 200.28 | 19.67 |
| | | Male | 398 | 156 | 250 | 201.71 | 19.31 |

**Table 9.7 (B) – Scale Score Distributions by Gender, Fall 2011**

| Test Period | Subject | Gender | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Fall 2011 | Algebra I | Female | 1,857 | 100 | 250 | 200.84 | 25.45 |
| | | Male | 2,142 | 114 | 250 | 198.36 | 25.63 |
| | Algebra II | Female | 257 | 152 | 250 | 206.88 | 19.31 |
| | | Male | 257 | 156 | 250 | 213.48 | 21.33 |
| | American History | Female | 392 | 123 | 250 | 194.01 | 22.20 |
| | | Male | 439 | 130 | 250 | 200.94 | 24.46 |
| | Biology | Female | 1,368 | 152 | 250 | 197.05 | 19.97 |
| | | Male | 1,661 | 119 | 250 | 196.62 | 21.08 |
| | English I | Female | 105 | 145 | 247 | 203.22 | 24.12 |
| | | Male | 115 | 145 | 250 | 196.70 | 23.69 |
| | English II | Female | 1,405 | 106 | 250 | 201.19 | 17.15 |
| | | Male | 1,617 | 106 | 250 | 196.03 | 17.30 |
| | Geometry | Female | 369 | 141 | 250 | 209.24 | 26.79 |
| | | Male | 360 | 150 | 250 | 207.60 | 26.80 |
| | Government | Female | 8,382 | 100 | 250 | 197.72 | 19.97 |
| | | Male | 8,846 | 100 | 250 | 200.48 | 21.34 |

**Table 9.7 (C) – Scale Score Distributions by Gender, Spring 2012**

| Test Period | Subject | Gender | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Spring 2012 | Algebra I | Female | 32,041 | 100 | 250 | 203.85 | 20.53 |
| | | Male | 32,405 | 100 | 250 | 203.66 | 21.94 |
| | Algebra II | Female | 13,452 | 142 | 250 | 201.33 | 19.08 |
| | | Male | 11,698 | 100 | 250 | 203.51 | 20.04 |
| | American History | Female | 19,103 | 100 | 250 | 193.18 | 20.56 |
| | | Male | 19,468 | 100 | 250 | 197.09 | 22.16 |
| | Biology | Female | 30,722 | 100 | 250 | 200.47 | 17.92 |
| | | Male | 31,024 | 100 | 250 | 203.65 | 19.29 |
| | English I | Female | 21,947 | 100 | 250 | 205.62 | 19.50 |
| | | Male | 22,356 | 100 | 250 | 201.67 | 20.40 |
| | English II | Female | 30,860 | 104 | 250 | 208.68 | 16.55 |
| | | Male | 31,164 | 104 | 250 | 205.05 | 17.21 |
| | Geometry | Female | 15,657 | 100 | 250 | 202.36 | 18.36 |
| | | Male | 14,594 | 100 | 250 | 202.98 | 19.00 |
| | Government | Female | 19,827 | 100 | 250 | 200.61 | 17.64 |
| | | Male | 20,372 | 100 | 250 | 202.93 | 19.70 |

**Table 9.8 (A) – Scale Score Distributions by Ethnicity, Summer 2011**

| Test Period | Subject | Ethnicity | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | American Indian/ Alaskan Native | 3 | 179 | 200 | 189.67 | 10.50 |
| | | Asian | 11 | 177 | 227 | 195.09 | 15.25 |
| | | Pacific Islander | 2 | 190 | 215 | 202.50 | 17.68 |
| | | Black (not Hispanic) | 286 | 100 | 244 | 188.59 | 14.92 |
| | | Hispanic | 29 | 167 | 227 | 196.24 | 14.87 |
| | | White (not Hispanic) | 291 | 155 | 250 | 198.39 | 19.97 |
| | | Multiracial | 7 | 151 | 231 | 193.43 | 24.58 |
| | Algebra II | American Indian/ Alaskan Native | 2 | 169 | 192 | 180.50 | 16.26 |
| | | Asian | -- | -- | -- | -- | -- |
| | | Pacific Islander | -- | -- | -- | -- | -- |
| | | Black (not Hispanic) | 79 | 126 | 235 | 177.08 | 14.74 |
| | | Hispanic | 7 | 166 | 204 | 190.14 | 12.47 |
| | | White (not Hispanic) | 34 | 160 | 217 | 186.71 | 15.93 |
| | | Multiracial | 2 | 187 | 227 | 207.00 | 28.28 |
| | American History | American Indian/ Alaskan Native | 3 | 156 | 195 | 172.33 | 20.26 |
| | | Asian | 4 | 182 | 232 | 206.00 | 22.02 |
| | | Pacific Islander | 1 | 148 | 148 | 148.00 | -- |
| | | Black (not Hispanic) | 83 | 127 | 227 | 175.23 | 19.10 |
| | | Hispanic | 14 | 159 | 208 | 179.93 | 15.17 |
| | | White (not Hispanic) | 80 | 152 | 237 | 188.85 | 18.13 |
| | | Multiracial | -- | -- | -- | -- | -- |
| | Biology | American Indian/ Alaskan Native | 2 | 176 | 195 | 185.50 | 13.44 |
| | | Asian | 3 | 192 | 207 | 199.67 | 7.51 |
| | | Pacific Islander | -- | -- | -- | -- | -- |
| | | Black (not Hispanic) | 139 | 119 | 250 | 187.69 | 15.36 |
| | | Hispanic | 8 | 176 | 236 | 191.63 | 19.21 |
| | | White (not Hispanic) | 126 | 161 | 236 | 194.99 | 16.82 |
| | | Multiracial | 1 | 205 | 205 | 205.00 | -- |

**Table 9.8 (A) cont. – Scale Score Distributions by Ethnicity, Summer 2011**

| Test Period | Subject | Ethnicity | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Summer 2012 | English I | American Indian/ Alaskan Native | -- | -- | -- | -- | -- |
| | | Asian | 1 | 182 | 182 | 182.00 | -- |
| | | Pacific Islander | -- | -- | -- | -- | -- |
| | | Black (not Hispanic) | 107 | 150 | 247 | 184.86 | 17.97 |
| | | Hispanic | 16 | 166 | 229 | 199.94 | 18.65 |
| | | White (not Hispanic) | 121 | 145 | 250 | 194.21 | 20.16 |
| | | Multiracial | 1 | 166 | 166 | 166.00 | -- |
| | English II | American Indian/ Alaskan Native | 1 | 196 | 196 | 196.00 | -- |
| | | Asian | 1 | 174 | 174 | 174.00 | -- |
| | | Pacific Islander | -- | -- | -- | -- | -- |
| | | Black (not Hispanic) | 138 | 154 | 230 | 191.85 | 14.56 |
| | | Hispanic | 15 | 184 | 218 | 205.07 | 9.75 |
| | | White (not Hispanic) | 156 | 162 | 236 | 197.71 | 15.56 |
| | | Multiracial | 2 | 176 | 206 | 191.00 | 21.21 |
| | Geometry | American Indian/ Alaskan Native | -- | -- | -- | -- | -- |
| | | Asian | 4 | 179 | 250 | 213.25 | 32.17 |
| | | Pacific Islander | -- | -- | -- | -- | -- |
| | | Black (not Hispanic) | 108 | 150 | 229 | 183.26 | 13.20 |
| | | Hispanic | 12 | 171 | 229 | 207.92 | 15.52 |
| | | White (not Hispanic) | 67 | 165 | 233 | 195.09 | 15.32 |
| | | Multiracial | 1 | 195 | 195 | 195.00 | -- |
| | Government | American Indian/ Alaskan Native | 5 | 163 | 219 | 188.00 | 21.54 |
| | | Asian | 29 | 168 | 250 | 216.79 | 24.34 |
| | | Pacific Islander | 3 | 171 | 183 | 176.67 | 6.03 |
| | | Black (not Hispanic) | 146 | 100 | 250 | 193.29 | 19.46 |
| | | Hispanic | 56 | 168 | 225 | 194.27 | 13.00 |
| | | White (not Hispanic) | 579 | 152 | 250 | 202.92 | 18.74 |
| | | Multiracial | 3 | 187 | 250 | 216.67 | 31.66 |

**Table 9.8 (B) – Scale Score Distributions by Ethnicity, Fall 2011**

| Test Period | Subject | Ethnicity | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Fall 2011 | Algebra I | American Indian/ Alaskan Native | 22 | 160 | 250 | 188.91 | 24.41 |
| | | Asian | 59 | 164 | 250 | 219.81 | 22.87 |
| | | Pacific Islander | 4 | 220 | 239 | 228.75 | 7.80 |
| | | Black (not Hispanic) | 670 | 100 | 250 | 183.44 | 19.13 |
| | | Hispanic | 166 | 138 | 250 | 194.76 | 23.48 |
| | | White (not Hispanic) | 3,017 | 114 | 250 | 202.82 | 25.47 |
| | | Multiracial | 61 | 167 | 250 | 207.69 | 24.58 |
| | Algebra II | American Indian/ Alaskan Native | 2 | 195 | 202 | 198.50 | 4.95 |
| | | Asian | 15 | 195 | 245 | 217.40 | 14.95 |
| | | Pacific Islander | 1 | 225 | 225 | 225.00 | -- |
| | | Black (not Hispanic) | 60 | 160 | 250 | 197.78 | 18.86 |
| | | Hispanic | 29 | 166 | 239 | 205.76 | 19.92 |
| | | White (not Hispanic) | 389 | 152 | 250 | 212.11 | 20.61 |
| | | Multiracial | 18 | 179 | 245 | 211.50 | 17.06 |
| | American History | American Indian/ Alaskan Native | 7 | 179 | 248 | 205.71 | 23.23 |
| | | Asian | 12 | 176 | 225 | 196.50 | 16.87 |
| | | Pacific Islander | 3 | 179 | 217 | 198.67 | 19.04 |
| | | Black (not Hispanic) | 93 | 123 | 250 | 188.26 | 27.50 |
| | | Hispanic | 29 | 145 | 248 | 190.72 | 25.61 |
| | | White (not Hispanic) | 672 | 130 | 250 | 199.27 | 22.96 |
| | | Multiracial | 15 | 167 | 221 | 194.47 | 16.98 |
| | Biology | American Indian/ Alaskan Native | 14 | 164 | 230 | 194.64 | 19.64 |
| | | Asian | 68 | 167 | 250 | 212.72 | 23.21 |
| | | Pacific Islander | 6 | 157 | 214 | 190.00 | 19.70 |
| | | Black (not Hispanic) | 623 | 152 | 250 | 184.74 | 14.26 |
| | | Hispanic | 123 | 164 | 250 | 194.11 | 17.28 |
| | | White (not Hispanic) | 2,145 | 119 | 250 | 199.93 | 20.77 |
| | | Multiracial | 50 | 157 | 244 | 200.20 | 21.02 |

**Table 9.8 (B) cont. – Scale Score Distributions by Ethnicity, Fall 2011**

| Test Period | Subject | Ethnicity | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Fall 2011 | English I | American Indian/ Alaskan Native | 1 | 192 | 192 | 192.00 | -- |
| | | Asian | 2 | 211 | 221 | 216.00 | 7.07 |
| | | Pacific Islander | -- | -- | -- | -- | -- |
| | | Black (not Hispanic) | 30 | 145 | 240 | 179.13 | 22.18 |
| | | Hispanic | 14 | 166 | 240 | 201.21 | 18.35 |
| | | White (not Hispanic) | 165 | 145 | 250 | 203.35 | 23.35 |
| | | Multiracial | 8 | 180 | 234 | 199.00 | 21.31 |
| | English II | American Indian/ Alaskan Native | 12 | 164 | 215 | 188.00 | 18.34 |
| | | Asian | 28 | 167 | 232 | 201.29 | 16.79 |
| | | Pacific Islander | 3 | 182 | 212 | 193.33 | 16.29 |
| | | Black (not Hispanic) | 1,116 | 152 | 250 | 196.43 | 15.23 |
| | | Hispanic | 127 | 156 | 250 | 193.45 | 16.40 |
| | | White (not Hispanic) | 1,680 | 106 | 250 | 200.00 | 18.62 |
| | | Multiracial | 56 | 164 | 250 | 203.63 | 16.45 |
| | Geometry | American Indian/ Alaskan Native | 1 | 218 | 218 | 218.00 | -- |
| | | Asian | 21 | 179 | 250 | 220.33 | 23.38 |
| | | Pacific Islander | 3 | 176 | 239 | 207.67 | 31.50 |
| | | Black (not Hispanic) | 112 | 146 | 250 | 188.76 | 21.45 |
| | | Hispanic | 42 | 158 | 250 | 203.45 | 26.68 |
| | | White (not Hispanic) | 532 | 141 | 250 | 212.44 | 25.95 |
| | | Multiracial | 18 | 150 | 250 | 209.78 | 30.34 |
| | Government | American Indian/ Alaskan Native | 92 | 157 | 240 | 200.53 | 19.70 |
| | | Asian | 416 | 100 | 250 | 207.06 | 25.20 |
| | | Pacific Islander | 27 | 167 | 229 | 194.59 | 17.81 |
| | | Black (not Hispanic) | 2,945 | 100 | 250 | 186.78 | 16.99 |
| | | Hispanic | 753 | 138 | 250 | 192.76 | 18.41 |
| | | White (not Hispanic) | 12,825 | 138 | 250 | 202.12 | 20.34 |
| | | Multiracial | 170 | 150 | 250 | 197.29 | 19.12 |

**Table 9.8 (C) – Scale Score Distributions by Ethnicity, Spring 2012**

| Test Period | Subject | Ethnicity | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Spring 2012 | Algebra I | American Indian/ Alaskan Native | 299 | 155 | 250 | 200.67 | 20.04 |
| | | Asian | 1,238 | 151 | 250 | 216.17 | 22.81 |
| | | Pacific Islander | 93 | 159 | 250 | 200.17 | 20.68 |
| | | Black (not Hispanic) | 9,909 | 100 | 250 | 191.79 | 18.95 |
| | | Hispanic | 2,648 | 129 | 250 | 200.45 | 19.66 |
| | | White (not Hispanic) | 49,447 | 100 | 250 | 206.03 | 20.83 |
| | | Multiracial | 812 | 155 | 250 | 204.80 | 21.01 |
| | Algebra II | American Indian/ Alaskan Native | 136 | 160 | 250 | 197.84 | 17.86 |
| | | Asian | 406 | 156 | 250 | 209.06 | 22.44 |
| | | Pacific Islander | 37 | 156 | 235 | 196.76 | 21.56 |
| | | Black (not Hispanic) | 3,291 | 100 | 250 | 189.44 | 18.04 |
| | | Hispanic | 1,002 | 147 | 250 | 197.29 | 18.74 |
| | | White (not Hispanic) | 20,059 | 135 | 250 | 204.60 | 18.89 |
| | | Multiracial | 219 | 160 | 250 | 203.85 | 19.18 |
| | American History | American Indian/ Alaskan Native | 212 | 133 | 250 | 195.85 | 20.69 |
| | | Asian | 515 | 100 | 250 | 199.07 | 24.85 |
| | | Pacific Islander | 63 | 148 | 243 | 190.05 | 23.64 |
| | | Black (not Hispanic) | 5,209 | 100 | 250 | 187.11 | 21.04 |
| | | Hispanic | 1,488 | 119 | 250 | 190.51 | 21.19 |
| | | White (not Hispanic) | 30,650 | 100 | 250 | 196.70 | 21.17 |
| | | Multiracial | 434 | 138 | 250 | 194.45 | 20.89 |
| | Biology | American Indian/ Alaskan Native | 309 | 161 | 250 | 200.63 | 17.33 |
| | | Asian | 1,166 | 100 | 250 | 207.51 | 22.26 |
| | | Pacific Islander | 70 | 164 | 244 | 195.34 | 16.18 |
| | | Black (not Hispanic) | 9,477 | 100 | 250 | 190.24 | 16.12 |
| | | Hispanic | 2,283 | 147 | 250 | 196.96 | 17.07 |
| | | White (not Hispanic) | 47,773 | 100 | 250 | 204.55 | 18.19 |
| | | Multiracial | 668 | 147 | 250 | 201.71 | 18.16 |

**Table 9.8 (C) cont. – Scale Score Distributions by Ethnicity, Spring 2012**

| Test Period | Subject | Ethnicity | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Spring 2012 | English I | American Indian/ Alaskan Native | 223 | 100 | 250 | 203.49 | 20.95 |
| | | Asian | 524 | 150 | 250 | 208.00 | 21.27 |
| | | Pacific Islander | 75 | 157 | 247 | 203.07 | 19.90 |
| | | Black (not Hispanic) | 5,128 | 100 | 250 | 192.24 | 19.56 |
| | | Hispanic | 1,840 | 100 | 250 | 198.31 | 19.66 |
| | | White (not Hispanic) | 35,900 | 100 | 250 | 205.50 | 19.51 |
| | | Multiracial | 613 | 140 | 250 | 201.62 | 20.68 |
| | English II | American Indian/ Alaskan Native | 306 | 158 | 250 | 204.73 | 15.27 |
| | | Asian | 1,220 | 149 | 250 | 209.81 | 18.22 |
| | | Pacific Islander | 80 | 168 | 250 | 203.28 | 17.83 |
| | | Black (not Hispanic) | 8,945 | 104 | 250 | 197.27 | 16.80 |
| | | Hispanic | 2,271 | 104 | 250 | 202.61 | 16.37 |
| | | White (not Hispanic) | 48,528 | 104 | 250 | 208.78 | 16.38 |
| | | Multiracial | 674 | 158 | 250 | 206.38 | 16.50 |
| | Geometry | American Indian/ Alaskan Native | 169 | 150 | 250 | 201.60 | 17.28 |
| | | Asian | 449 | 150 | 250 | 209.46 | 20.84 |
| | | Pacific Islander | 61 | 161 | 238 | 195.41 | 19.61 |
| | | Black (not Hispanic) | 4,033 | 100 | 250 | 189.79 | 17.60 |
| | | Hispanic | 1,227 | 145 | 250 | 197.54 | 18.25 |
| | | White (not Hispanic) | 23,978 | 100 | 250 | 204.96 | 17.86 |
| | | Multiracial | 334 | 158 | 250 | 204.37 | 19.17 |
| | Government | American Indian/ Alaskan Native | 211 | 152 | 250 | 200.13 | 16.79 |
| | | Asian | 700 | 148 | 250 | 204.39 | 21.38 |
| | | Pacific Islander | 56 | 159 | 250 | 196.52 | 18.01 |
| | | Black (not Hispanic) | 5,118 | 100 | 250 | 189.84 | 16.77 |
| | | Hispanic | 1,524 | 100 | 250 | 196.76 | 17.75 |
| | | White (not Hispanic) | 32,145 | 100 | 250 | 203.88 | 18.30 |
| | | Multiracial | 445 | 148 | 250 | 202.20 | 17.33 |

**Table 9.9 (A) – Scale Score Distributions by Migrant Status, Summer 2011**

| Test Period | Subject | Migrant | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | 629 | 100 | 250 | 193.69 | 18.11 |
| | | Yes | -- | -- | -- | -- | -- |
| | Algebra II | No | 124 | 126 | 235 | 180.99 | 16.02 |
| | | Yes | -- | -- | -- | -- | -- |
| | American History | No | 185 | 127 | 237 | 181.95 | 19.85 |
| | | Yes | -- | -- | -- | -- | -- |
| | Biology | No | 279 | 119 | 250 | 191.28 | 16.40 |
| | | Yes | -- | -- | -- | -- | -- |
| | English I | No | 246 | 145 | 250 | 190.35 | 19.73 |
| | | Yes | -- | -- | -- | -- | -- |
| | English II | No | 313 | 154 | 236 | 195.35 | 15.28 |
| | | Yes | -- | -- | -- | -- | -- |
| | Geometry | No | 192 | 150 | 250 | 189.61 | 16.59 |
| | | Yes | -- | -- | -- | -- | -- |
| | Government | No | 820 | 100 | 250 | 200.98 | 19.51 |
| | | Yes | 1 | 196 | 196 | 196.00 | -- |

**Table 9.9 (B) – Scale Score Distributions by Migrant Status, Fall 2011**

| Test Period | Subject | Migrant | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | 3,999 | 100 | 250 | 199.51 | 25.57 |
| | | Yes | -- | -- | -- | -- | -- |
| | Algebra II | No | 514 | 152 | 250 | 210.18 | 20.59 |
| | | Yes | -- | -- | -- | -- | -- |
| | American History | No | 831 | 123 | 250 | 197.67 | 23.66 |
| | | Yes | -- | -- | -- | -- | -- |
| | Biology | No | 3,029 | 119 | 250 | 196.82 | 20.58 |
| | | Yes | -- | -- | -- | -- | -- |
| | English I | No | 220 | 145 | 250 | 199.81 | 24.06 |
| | | Yes | -- | -- | -- | -- | -- |
| | English II | No | 3,019 | 106 | 250 | 198.44 | 17.42 |
| | | Yes | 3 | 182 | 192 | 185.33 | 5.77 |
| | Geometry | No | 729 | 141 | 250 | 208.43 | 26.79 |
| | | Yes | -- | -- | -- | -- | -- |
| | Government | No | 17,224 | 100 | 250 | 199.14 | 20.73 |
| | | Yes | 4 | 176 | 194 | 184.00 | 7.44 |

**Table 9.9 (C) – Scale Score Distributions by Migrant Status, Spring 2012**

| Test Period | Subject | Migrant | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | 64,426 | 100 | 250 | 203.76 | 21.25 |
| | | Yes | 20 | 167 | 237 | 197.75 | 18.54 |
| | Algebra II | No | 25,143 | 100 | 250 | 202.35 | 19.56 |
| | | Yes | 7 | 172 | 225 | 198.14 | 18.14 |
| | American History | No | 38,557 | 100 | 250 | 195.16 | 21.48 |
| | | Yes | 14 | 148 | 227 | 184.79 | 20.70 |
| | Biology | No | 61,729 | 100 | 205 | 202.07 | 18.69 |
| | | Yes | 17 | 164 | 230 | 191.59 | 18.44 |
| | English I | No | 44,289 | 100 | 250 | 203.63 | 20.06 |
| | | Yes | 14 | 175 | 225 | 197.36 | 13.88 |
| | English II | No | 62,007 | 104 | 250 | 206.86 | 16.98 |
| | | Yes | 18 | 168 | 218 | 193.72 | 13.50 |
| | Geometry | No | 30,241 | 100 | 250 | 202.66 | 18.68 |
| | | Yes | 10 | 171 | 218 | 197.10 | 16.31 |
| | Government | No | 40,187 | 100 | 250 | 201.79 | 18.75 |
| | | Yes | 12 | 173 | 216 | 194.42 | 14.54 |

**Table 9.10 (A) – Scale Score Distributions by Free and Reduced Lunch Status, Summer 2011**

| Test Period | Subject | FRL | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | 310 | 100 | 250 | 196.17 | 20.03 |
| | | Yes | 319 | 151 | 250 | 191.29 | 15.69 |
| | Algebra II | No | 71 | 142 | 227 | 182.97 | 15.64 |
| | | Yes | 53 | 126 | 235 | 178.34 | 16.29 |
| | American History | No | 91 | 143 | 237 | 186.80 | 20.13 |
| | | Yes | 94 | 127 | 219 | 177.24 | 18.50 |
| | Biology | No | 126 | 164 | 250 | 194.55 | 17.60 |
| | | Yes | 153 | 119 | 236 | 188.58 | 14.87 |
| | English I | No | 107 | 145 | 250 | 192.96 | 20.69 |
| | | Yes | 139 | 145 | 247 | 188.34 | 18.79 |
| | English II | No | 139 | 162 | 236 | 196.64 | 15.43 |
| | | Yes | 174 | 154 | 236 | 194.33 | 15.12 |
| | Geometry | No | 89 | 150 | 233 | 191.62 | 17.36 |
| | | Yes | 103 | 158 | 250 | 187.88 | 15.77 |
| | Government | No | 470 | 156 | 250 | 206.17 | 19.12 |
| | | Yes | 351 | 100 | 250 | 194.01 | 17.77 |

**Table 9.10 (B) – Scale Score Distributions by Free and Reduced Lunch Status, Fall 2011**

| Test Period | Subject | FRL | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | 2,319 | 114 | 250 | 207.79 | 25.16 |
| | | Yes | 1,680 | 100 | 250 | 188.09 | 21.41 |
| | Algebra II | No | 413 | 152 | 250 | 212.47 | 20.49 |
| | | Yes | 101 | 160 | 245 | 200.81 | 18.30 |
| | American History | No | 526 | 130 | 250 | 201.54 | 22.91 |
| | | Yes | 305 | 123 | 248 | 190.99 | 23.49 |
| | Biology | No | 1,634 | 119 | 250 | 204.45 | 20.95 |
| | | Yes | 1,395 | 119 | 250 | 187.87 | 16.05 |
| | English I | No | 122 | 145 | 250 | 208.30 | 23.71 |
| | | Yes | 98 | 145 | 240 | 189.24 | 20.07 |
| | English II | No | 1,360 | 106 | 250 | 203.08 | 17.80 |
| | | Yes | 1,662 | 106 | 250 | 194.62 | 16.14 |
| | Geometry | No | 499 | 146 | 250 | 214.73 | 25.65 |
| | | Yes | 230 | 141 | 250 | 194.77 | 24.03 |
| | Government | No | 9,889 | 100 | 250 | 204.99 | 20.67 |
| | | Yes | 7,339 | 100 | 250 | 191.25 | 18.02 |

**Table 9.10 (C) – Scale Score Distributions by Free and Reduced Lunch Status, Spring 2012**

| Test Period | Subject | FRL | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | 36,871 | 100 | 250 | 209.01 | 20.75 |
| | | Yes | 27,575 | 100 | 250 | 196.72 | 19.82 |
| | Algebra II | No | 16,228 | 126 | 250 | 205.26 | 19.38 |
| | | Yes | 8,922 | 100 | 250 | 197.04 | 18.75 |
| | American History | No | 21,798 | 100 | 250 | 199.91 | 20.81 |
| | | Yes | 16,773 | 100 | 250 | 188.97 | 20.74 |
| | Biology | No | 36,156 | 100 | 250 | 206.59 | 18.26 |
| | | Yes | 25,590 | 100 | 250 | 195.69 | 17.38 |
| | English I | No | 24,733 | 100 | 250 | 208.69 | 18.75 |
| | | Yes | 19,570 | 100 | 250 | 197.23 | 19.83 |
| | English II | No | 36,615 | 104 | 250 | 211.11 | 15.80 |
| | | Yes | 25,410 | 104 | 250 | 200.73 | 16.75 |
| | Geometry | No | 18,121 | 100 | 250 | 206.09 | 18.22 |
| | | Yes | 12,130 | 100 | 250 | 197.52 | 18.17 |
| | Government | No | 24,204 | 100 | 250 | 206.37 | 18.27 |
| | | Yes | 15,995 | 100 | 250 | 194.85 | 17.26 |

**Table 9.11 (A) – Scale Score Distributions by Limited English Proficient Status, Summer 2011**

| Test Period | Subject | LEP | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | 607 | 100 | 250 | 193.94 | 18.16 |
| | | Yes | 22 | 155 | 219 | 187.00 | 15.80 |
| | Algebra II | No | 124 | 126 | 235 | 180.99 | 16.02 |
| | | Yes | -- | -- | -- | -- | -- |
| | American History | No | 176 | 127 | 237 | 182.12 | 19.93 |
| | | Yes | 9 | 159 | 208 | 178.56 | 19.05 |
| | Biology | No | 275 | 119 | 250 | 191.32 | 16.46 |
| | | Yes | 4 | 176 | 207 | 188.25 | 13.20 |
| | English I | No | 241 | 145 | 250 | 189.86 | 19.62 |
| | | Yes | 5 | 205 | 221 | 213.80 | 7.01 |
| | English II | No | 308 | 154 | 236 | 195.37 | 15.31 |
| | | Yes | 5 | 174 | 212 | 194.20 | 15.07 |
| | Geometry | No | 188 | 150 | 233 | 189.11 | 15.88 |
| | | Yes | 4 | 179 | 250 | 213.25 | 32.17 |
| | Government | No | 792 | 100 | 250 | 201.33 | 19.39 |
| | | Yes | 29 | 163 | 250 | 191.24 | 20.30 |

**Table 9.11 (B) – Scale Score Distributions by Limited English Proficient Status, Fall 2011**

| Test Period | Subject | LEP | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | 3,947 | 100 | 250 | 199.69 | 25.56 |
| | | Yes | 52 | 145 | 250 | 185.85 | 23.33 |
| | Algebra II | No | 510 | 152 | 250 | 210.21 | 20.64 |
| | | Yes | 4 | 193 | 225 | 206.50 | 14.25 |
| | American History | No | 817 | 123 | 250 | 197.85 | 23.69 |
| | | Yes | 14 | 157 | 225 | 187.00 | 20.06 |
| | Biology | No | 2,985 | 119 | 250 | 197.05 | 20.59 |
| | | Yes | 44 | 157 | 208 | 180.61 | 11.77 |
| | English I | No | 216 | 145 | 250 | 199.92 | 24.16 |
| | | Yes | 4 | 166 | 211 | 194.25 | 19.69 |
| | English II | No | 2,973 | 106 | 250 | 198.63 | 17.39 |
| | | Yes | 49 | 156 | 225 | 186.45 | 15.24 |
| | Geometry | No | 721 | 141 | 250 | 208.68 | 26.77 |
| | | Yes | 8 | 158 | 215 | 186.38 | 19.84 |
| | Government | No | 16,919 | 100 | 250 | 199.41 | 20.67 |
| | | Yes | 309 | 100 | 249 | 184.55 | 18.74 |

**Table 9.11 (C) – Scale Score Distributions by Limited English Proficient Status, Spring 2012**

| Test Period | Subject | LEP | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | 63,172 | 100 | 250 | 203.92 | 21.23 |
| | | Yes | 1,274 | 145 | 250 | 195.63 | 20.47 |
| | Algebra II | No | 24,876 | 100 | 250 | 202.50 | 19.49 |
| | | Yes | 274 | 147 | 250 | 187.87 | 20.14 |
| | American History | No | 38,020 | 100 | 250 | 195.41 | 21.38 |
| | | Yes | 551 | 100 | 250 | 177.26 | 20.31 |
| | Biology | No | 60,713 | 100 | 250 | 202.31 | 18.63 |
| | | Yes | 1,033 | 100 | 250 | 187.93 | 16.60 |
| | English I | No | 43,626 | 100 | 250 | 203.88 | 19.98 |
| | | Yes | 677 | 100 | 247 | 187.39 | 18.09 |
| | English II | No | 61,044 | 104 | 250 | 207.10 | 16.89 |
| | | Yes | 981 | 149 | 244 | 191.59 | 15.57 |
| | Geometry | No | 29,816 | 100 | 250 | 202.83 | 18.63 |
| | | Yes | 435 | 145 | 244 | 190.78 | 18.36 |
| | Government | No | 39,592 | 100 | 250 | 202.02 | 18.70 |
| | | Yes | 607 | 148 | 236 | 186.26 | 14.88 |

**Table 9.12 (A) – Scale Score Distributions by Title I Status, Summer 2011**

| Test Period | Subject | Title I | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | 537 | 100 | 250 | 194.26 | 18.73 |
| | | Yes | 92 | 155 | 215 | 190.37 | 13.57 |
| | Algebra II | No | 124 | 126 | 235 | 180.99 | 16.02 |
| | | Yes | -- | -- | -- | -- | -- |
| | American History | No | 185 | 127 | 237 | 181.95 | 19.85 |
| | | Yes | -- | -- | -- | -- | -- |
| | Biology | No | 238 | 161 | 250 | 193.04 | 16.00 |
| | | Yes | 41 | 119 | 205 | 181.02 | 15.06 |
| | English I | No | 246 | 145 | 250 | 190.35 | 19.73 |
| | | Yes | -- | -- | -- | -- | -- |
| | English II | No | 273 | 154 | 236 | 195.97 | 15.15 |
| | | Yes | 40 | 165 | 225 | 191.18 | 15.70 |
| | Geometry | No | 190 | 150 | 250 | 189.41 | 16.53 |
| | | Yes | 2 | 200 | 218 | 209.00 | 12.73 |
| | Government | No | 777 | 100 | 250 | 201.35 | 19.42 |
| | | Yes | 44 | 152 | 231 | 194.25 | 19.89 |

**Table 9.12 (B) – Scale Score Distributions by Title I Status, Fall 2011**

| Test Period | Subject | Title I | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | 3,899 | 100 | 250 | 199.99 | 25.51 |
| | | Yes | 100 | 151 | 250 | 180.71 | 20.44 |
| | Algebra II | No | 514 | 152 | 250 | 210.18 | 20.59 |
| | | Yes | -- | -- | -- | -- | -- |
| | American History | No | 829 | 123 | 250 | 197.74 | 23.65 |
| | | Yes | 2 | 167 | 170 | 168.50 | 2.12 |
| | Biology | No | 2,915 | 119 | 250 | 197.43 | 20.61 |
| | | Yes | 114 | 157 | 221 | 181.15 | 12.08 |
| | English I | No | 219 | 145 | 250 | 199.88 | 24.10 |
| | | Yes | 1 | 185 | 185 | 185.00 | -- |
| | English II | No | 2,899 | 106 | 250 | 198.88 | 17.38 |
| | | Yes | 123 | 156 | 226 | 187.82 | 14.79 |
| | Geometry | No | 710 | 141 | 250 | 209.44 | 26.37 |
| | | Yes | 19 | 150 | 192 | 170.68 | 10.13 |
| | Government | No | 16,021 | 100 | 250 | 199.83 | 20.72 |
| | | Yes | 1,207 | 138 | 250 | 189.97 | 18.58 |

**Table 9.12 (C) – Scale Score Distributions by Title I Status, Spring 2012**

| Test Period | Subject | Title I | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | 59,637 | 100 | 250 | 204.37 | 21.09 |
| | | Yes | 4,809 | 100 | 250 | 196.08 | 21.62 |
| | Algebra II | No | 23,594 | 100 | 250 | 203.28 | 19.29 |
| | | Yes | 1,556 | 100 | 250 | 188.20 | 18.17 |
| | American History | No | 36,698 | 100 | 250 | 195.51 | 21.45 |
| | | Yes | 1,873 | 111 | 250 | 188.24 | 20.72 |
| | Biology | No | 57,944 | 100 | 250 | 202.83 | 18.56 |
| | | Yes | 3,802 | 100 | 250 | 190.52 | 16.74 |
| | English I | No | 42,091 | 100 | 250 | 204.04 | 19.94 |
| | | Yes | 2,212 | 117 | 250 | 195.88 | 20.61 |
| | English II | No | 57,954 | 104 | 250 | 207.47 | 16.77 |
| | | Yes | 4,071 | 104 | 250 | 198.22 | 17.68 |
| | Geometry | No | 28,648 | 100 | 250 | 203.29 | 18.49 |
| | | Yes | 1,603 | 140 | 250 | 191.36 | 18.48 |
| | Government | No | 38,224 | 100 | 250 | 202.49 | 18.53 |
| | | Yes | 1,975 | 100 | 250 | 188.11 | 17.52 |

**Table 9.13 (A) – Scale Score Distributions by IEP Status, Summer 2011**

| Test Period | Subject | IEP | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | 544 | 100 | 250 | 194.94 | 18.38 |
| | | Yes | 85 | 151 | 219 | 185.69 | 13.94 |
| | Algebra II | No | 109 | 126 | 235 | 181.78 | 16.14 |
| | | Yes | 15 | 147 | 204 | 175.27 | 14.34 |
| | American History | No | 159 | 127 | 237 | 183.56 | 19.94 |
| | | Yes | 26 | 143 | 208 | 172.08 | 16.43 |
| | Biology | No | 245 | 119 | 250 | 191.74 | 16.76 |
| | | Yes | 34 | 161 | 213 | 187.94 | 13.33 |
| | English I | No | 222 | 145 | 250 | 191.55 | 19.18 |
| | | Yes | 24 | 145 | 225 | 179.29 | 21.65 |
| | English II | No | 267 | 154 | 236 | 196.36 | 15.20 |
| | | Yes | 46 | 162 | 215 | 189.54 | 14.58 |
| | Geometry | No | 175 | 150 | 250 | 190.11 | 16.60 |
| | | Yes | 17 | 168 | 229 | 184.53 | 16.09 |
| | Government | No | 738 | 100 | 250 | 202.54 | 19.24 |
| | | Yes | 83 | 159 | 236 | 187.06 | 16.03 |

**Table 9.13 (B) – Scale Score Distributions by IEP Status, Fall 2011**

| Test Period | Subject | IEP | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | 3,581 | 100 | 250 | 202.17 | 25.13 |
| | | Yes | 418 | 138 | 245 | 176.71 | 16.38 |
| | Algebra II | No | 493 | 152 | 250 | 210.70 | 20.39 |
| | | Yes | 21 | 160 | 239 | 198.05 | 22.16 |
| | American History | No | 719 | 123 | 250 | 200.60 | 22.21 |
| | | Yes | 112 | 130 | 250 | 178.86 | 24.18 |
| | Biology | No | 2,644 | 119 | 250 | 198.43 | 20.44 |
| | | Yes | 385 | 119 | 250 | 185.72 | 17.96 |
| | English I | No | 188 | 145 | 250 | 201.89 | 23.80 |
| | | Yes | 32 | 157 | 240 | 187.59 | 22.18 |
| | English II | No | 2,621 | 146 | 250 | 200.46 | 16.75 |
| | | Yes | 401 | 106 | 239 | 185.14 | 15.82 |
| | Geometry | No | 693 | 141 | 250 | 209.55 | 26.47 |
| | | Yes | 36 | 150 | 250 | 186.81 | 23.90 |
| | Government | No | 15,466 | 100 | 250 | 200.73 | 20.45 |
| | | Yes | 1,762 | 100 | 250 | 185.16 | 17.67 |

**Table 9.13 (C) – Scale Score Distributions by IEP Status, Spring 2012**

| Test Period | Subject | IEP | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | 57,941 | 100 | 250 | 205.95 | 20.35 |
| | | Yes | 6,505 | 100 | 250 | 184.20 | 18.97 |
| | Algebra II | No | 24,198 | 100 | 250 | 202.72 | 19.45 |
| | | Yes | 952 | 142 | 250 | 192.89 | 20.02 |
| | American History | No | 35,442 | 100 | 250 | 196.70 | 20.78 |
| | | Yes | 3,129 | 100 | 250 | 177.62 | 21.41 |
| | Biology | No | 55,245 | 100 | 250 | 203.75 | 18.14 |
| | | Yes | 6,501 | 100 | 250 | 187.84 | 17.18 |
| | English I | No | 40,598 | 100 | 250 | 205.46 | 18.97 |
| | | Yes | 3,705 | 100 | 250 | 183.52 | 20.63 |
| | English II | No | 55,324 | 104 | 250 | 208.92 | 15.63 |
| | | Yes | 6,701 | 104 | 250 | 189.85 | 18.15 |
| | Geometry | No | 28,535 | 100 | 250 | 203.51 | 18.33 |
| | | Yes | 1,716 | 100 | 250 | 188.52 | 18.71 |
| | Government | No | 35,854 | 100 | 250 | 203.36 | 18.22 |
| | | Yes | 4,345 | 100 | 250 | 188.83 | 18.02 |

**Table 9.14 (A) – Scale Score Distributions by IEP and ELL Accommodations Status, Summer 2011**

| Test Period | Subject | Accommodations | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | 616 | 100 | 250 | 194.07 | 18.06 |
| | | Yes | 13 | 151 | 195 | 175.85 | 10.50 |
| | Algebra II | No | 122 | 126 | 235 | 180.93 | 15.96 |
| | | Yes | 2 | 166 | 204 | 185.00 | 26.87 |
| | American History | No | 184 | 127 | 237 | 181.98 | 19.90 |
| | | Yes | 1 | 176 | 176 | 176.00 | -- |
| | Biology | No | 271 | 119 | 250 | 191.34 | 16.54 |
| | | Yes | 8 | 170 | 205 | 189.13 | 11.19 |
| | English I | No | 242 | 145 | 250 | 190.45 | 19.80 |
| | | Yes | 4 | 166 | 197 | 184.25 | 15.39 |
| | English II | No | 312 | 154 | 236 | 195.40 | 15.28 |
| | | Yes | 1 | 181 | 181 | 181.00 | -- |
| | Geometry | No | 185 | 150 | 250 | 189.48 | 16.57 |
| | | Yes | 7 | 174 | 229 | 193.29 | 18.01 |
| | Government | No | 799 | 100 | 250 | 201.43 | 19.48 |
| | | Yes | 22 | 168 | 210 | 184.27 | 10.87 |

**Table 9.14 (B) – Scale Score Distributions by IEP and ELL Accommodations Status, Fall 2011**

| Test Period | Subject | Accommodations | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | 3,871 | 100 | 250 | 200.20 | 25.55 |
| | | Yes | 128 | 138 | 239 | 178.64 | 15.37 |
| | Algebra II | No | 513 | 152 | 250 | 210.24 | 20.57 |
| | | Yes | 1 | 179 | 179 | 179.00 | -- |
| | American History | No | 788 | 123 | 250 | 198.85 | 23.29 |
| | | Yes | 43 | 130 | 248 | 176.07 | 19.94 |
| | Biology | No | 2,922 | 119 | 250 | 197.37 | 20.54 |
| | | Yes | 107 | 119 | 230 | 181.60 | 15.24 |
| | English I | No | 218 | 145 | 250 | 200.10 | 23.99 |
| | | Yes | 2 | 169 | 169 | 169.00 | 0.00 |
| | English II | No | 2,975 | 139 | 250 | 198.71 | 17.19 |
| | | Yes | 47 | 106 | 212 | 180.66 | 22.10 |
| | Geometry | No | 720 | 141 | 250 | 208.80 | 26.65 |
| | | Yes | 9 | 150 | 221 | 179.00 | 22.53 |
| | Government | No | 16,602 | 100 | 250 | 199.78 | 20.62 |
| | | Yes | 626 | 100 | 250 | 182.06 | 15.76 |

**Table 9.14 (C) – Scale Score Distributions by IEP and ELL Accommodations Status, Spring 2012**

| Test Period | Subject | Accommodations | N-Count | Minimum (SS) | Maximum (SS) | Mean (SS) | SD (SS) |
|---|---|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | 61,792 | 100 | 250 | 204.73 | 20.85 |
| | | Yes | 2,654 | 100 | 250 | 180.97 | 17.22 |
| | Algebra II | No | 24,925 | 100 | 250 | 202.48 | 19.53 |
| | | Yes | 225 | 147 | 247 | 187.59 | 17.31 |
| | American History | No | 37,097 | 100 | 250 | 195.95 | 21.13 |
| | | Yes | 1,474 | 100 | 250 | 175.10 | 20.25 |
| | Biology | No | 58,719 | 100 | 250 | 202.96 | 18.39 |
| | | Yes | 3,027 | 100 | 250 | 184.83 | 15.76 |
| | English I | No | 43,352 | 100 | 250 | 204.17 | 19.69 |
| | | Yes | 951 | 100 | 247 | 178.81 | 21.04 |
| | English II | No | 60,353 | 104 | 250 | 207.49 | 16.44 |
| | | Yes | 1,671 | 104 | 236 | 184.14 | 20.39 |
| | Geometry | No | 29,720 | 100 | 250 | 202.96 | 18.56 |
| | | Yes | 531 | 100 | 250 | 185.56 | 17.14 |
| | Government | No | 38,209 | 100 | 250 | 202.71 | 18.46 |
| | | Yes | 1,990 | 100 | 250 | 184.13 | 15.03 |

**Table 9.15 (A) – Achievement Level Distributions by Gender, Summer 2011**

| Test Period | Subject | Gender | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Algebra I | Female | Below Basic | 45 | 16.25 |
| | | | Basic | 154 | 55.60 |
| | | | Proficient | 69 | 24.91 |
| | | | Advanced | 9 | 3.25 |
| | | | Total | 277 | 100.00 |
| | | Male | Below Basic | 40 | 11.36 |
| | | | Basic | 181 | 51.42 |
| | | | Proficient | 98 | 27.84 |
| | | | Advanced | 33 | 9.38 |
| | | | Total | 352 | 100.00 |
| | Algebra II | Female | Below Basic | 17 | 38.64 |
| | | | Basic | 23 | 52.27 |
| | | | Proficient | 3 | 6.82 |
| | | | Advanced | 1 | 2.27 |
| | | | Total | 44 | 100.00 |
| | | Male | Below Basic | 40 | 50.00 |
| | | | Basic | 32 | 40.00 |
| | | | Proficient | 7 | 8.75 |
| | | | Advanced | 1 | 1.25 |
| | | | Total | 80 | 100.00 |
| | American History | Female | Below Basic | 41 | 53.25 |
| | | | Basic | 25 | 32.47 |
| | | | Proficient | 11 | 14.29 |
| | | | Advanced | 0 | 0.00 |
| | | | Total | 77 | 100.00 |
| | | Male | Below Basic | 56 | 51.85 |
| | | | Basic | 23 | 21.30 |
| | | | Proficient | 25 | 23.15 |
| | | | Advanced | 4 | 3.70 |
| | | | Total | 108 | 100.00 |
| | Biology | Female | Below Basic | 26 | 23.42 |
| | | | Basic | 62 | 55.86 |
| | | | Proficient | 20 | 18.02 |
| | | | Advanced | 3 | 2.70 |
| | | | Total | 111 | 100.00 |
| | | Male | Below Basic | 30 | 17.86 |
| | | | Basic | 75 | 44.64 |
| | | | Proficient | 54 | 32.14 |
| | | | Advanced | 9 | 5.36 |
| | | | Total | 168 | 100.00 |

**Table 9.15 (A) cont. – Achievement Levels Distributions by Gender, Summer 2011**

| Test Period | Subject | Gender | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | English I | Female | Below Basic | 24 | 22.64 |
| | | | Basic | 42 | 39.62 |
| | | | Proficient | 34 | 32.08 |
| | | | Advanced | 6 | 5.66 |
| | | | Total | 106 | 100.00 |
| | | Male | Below Basic | 33 | 23.57 |
| | | | Basic | 68 | 48.57 |
| | | | Proficient | 32 | 22.86 |
| | | | Advanced | 7 | 5.00 |
| | | | Total | 140 | 100.00 |
| | English II | Female | Below Basic | 12 | 10.62 |
| | | | Basic | 48 | 42.48 |
| | | | Proficient | 48 | 42.48 |
| | | | Advanced | 5 | 4.42 |
| | | | Total | 113 | 100.00 |
| | | Male | Below Basic | 32 | 16.00 |
| | | | Basic | 84 | 42.00 |
| | | | Proficient | 73 | 36.50 |
| | | | Advanced | 11 | 5.50 |
| | | | Total | 200 | 100.00 |
| | Geometry | Female | Below Basic | 35 | 35.71 |
| | | | Basic | 39 | 39.80 |
| | | | Proficient | 20 | 20.41 |
| | | | Advanced | 4 | 4.08 |
| | | | Total | 98 | 100.00 |
| | | Male | Below Basic | 26 | 27.66 |
| | | | Basic | 38 | 40.43 |
| | | | Proficient | 25 | 26.60 |
| | | | Advanced | 5 | 5.32 |
| | | | Total | 94 | 100.00 |
| | Government | Female | Below Basic | 40 | 9.46 |
| | | | Basic | 170 | 40.19 |
| | | | Proficient | 158 | 37.35 |
| | | | Advanced | 55 | 13.00 |
| | | | Total | 423 | 100.00 |
| | | Male | Below Basic | 29 | 7.29 |
| | | | Basic | 172 | 43.22 |
| | | | Proficient | 139 | 34.92 |
| | | | Advanced | 58 | 14.57 |
| | | | Total | 398 | 100.00 |

**Table 9.15 (B) – Achievement Level Distributions by Gender, Fall 2011**

| Test Period | Subject | Gender | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Algebra I | Female | Below Basic | 341 | 18.36 |
| | | | Basic | 535 | 28.81 |
| | | | Proficient | 546 | 29.40 |
| | | | Advanced | 435 | 23.42 |
| | | | Total | 1,857 | 100.00 |
| | | Male | Below Basic | 453 | 21.15 |
| | | | Basic | 677 | 31.61 |
| | | | Proficient | 570 | 26.61 |
| | | | Advanced | 442 | 20.63 |
| | | | Total | 2,142 | 100.00 |
| | Algebra II | Female | Below Basic | 20 | 7.78 |
| | | | Basic | 66 | 25.68 |
| | | | Proficient | 119 | 46.30 |
| | | | Advanced | 52 | 20.23 |
| | | | Total | 257 | 100.00 |
| | | Male | Below Basic | 21 | 8.17 |
| | | | Basic | 46 | 17.90 |
| | | | Proficient | 97 | 37.74 |
| | | | Advanced | 93 | 36.19 |
| | | | Total | 257 | 100.00 |
| | American History | Female | Below Basic | 113 | 28.83 |
| | | | Basic | 115 | 29.34 |
| | | | Proficient | 119 | 30.36 |
| | | | Advanced | 45 | 11.48 |
| | | | Total | 392 | 100.00 |
| | | Male | Below Basic | 100 | 22.78 |
| | | | Basic | 94 | 21.41 |
| | | | Proficient | 168 | 38.27 |
| | | | Advanced | 77 | 17.54 |
| | | | Total | 439 | 100.00 |
| | Biology | Female | Below Basic | 217 | 15.86 |
| | | | Basic | 564 | 41.23 |
| | | | Proficient | 450 | 32.89 |
| | | | Advanced | 137 | 10.01 |
| | | | Total | 1,368 | 100.00 |
| | | Male | Below Basic | 284 | 17.10 |
| | | | Basic | 705 | 42.44 |
| | | | Proficient | 466 | 28.06 |
| | | | Advanced | 206 | 12.40 |
| | | | Total | 1,661 | 100.00 |

**Table 9.15 (B) cont. – Achievement Level Distributions by Gender, Fall 2011**

| Test Period | Subject | Gender | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | English I | Female | Below Basic | 15 | 14.29 |
| | | | Basic | 32 | 30.48 |
| | | | Proficient | 32 | 30.48 |
| | | | Advanced | 26 | 24.76 |
| | | | Total | 105 | 100.00 |
| | | Male | Below Basic | 25 | 21.74 |
| | | | Basic | 37 | 32.17 |
| | | | Proficient | 39 | 33.91 |
| | | | Advanced | 14 | 12.17 |
| | | | Total | 115 | 100.00 |
| | English II | Female | Below Basic | 129 | 9.18 |
| | | | Basic | 453 | 32.24 |
| | | | Proficient | 664 | 47.26 |
| | | | Advanced | 159 | 11.32 |
| | | | Total | 1,405 | 100.00 |
| | | Male | Below Basic | 257 | 15.89 |
| | | | Basic | 597 | 36.92 |
| | | | Proficient | 637 | 39.39 |
| | | | Advanced | 126 | 7.79 |
| | | | Total | 1,617 | 100.00 |
| | Geometry | Female | Below Basic | 62 | 16.80 |
| | | | Basic | 67 | 18.16 |
| | | | Proficient | 116 | 31.44 |
| | | | Advanced | 124 | 33.60 |
| | | | Total | 369 | 100.00 |
| | | Male | Below Basic | 66 | 18.33 |
| | | | Basic | 73 | 20.28 |
| | | | Proficient | 110 | 30.56 |
| | | | Advanced | 111 | 30.83 |
| | | | Total | 360 | 100.00 |
| | Government | Female | Below Basic | 1,358 | 16.20 |
| | | | Basic | 3,296 | 39.32 |
| | | | Proficient | 2,733 | 32.61 |
| | | | Advanced | 995 | 11.87 |
| | | | Total | 8,382 | 100.00 |
| | | Male | Below Basic | 1,331 | 15.05 |
| | | | Basic | 3,049 | 34.47 |
| | | | Proficient | 3,045 | 34.42 |
| | | | Advanced | 1,421 | 16.06 |
| | | | Total | 8,846 | 100.00 |

**Table 9.15 (C) – Achievement Level Distributions by Gender, Spring 2012**

| Test Period | Subject | Gender | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Algebra I | Female | Below Basic | 2,293 | 7.16 |
| | | | Basic | 11,316 | 35.32 |
| | | | Proficient | 11,944 | 37.28 |
| | | | Advanced | 6,488 | 20.25 |
| | | | Total | 32,041 | 100.00 |
| | | Male | Below Basic | 3,018 | 9.31 |
| | | | Basic | 10,962 | 33.83 |
| | | | Proficient | 11,300 | 34.87 |
| | | | Advanced | 7,125 | 21.99 |
| | | | Total | 32,405 | 100.00 |
| | Algebra II | Female | Below Basic | 1,554 | 11.55 |
| | | | Basic | 4,627 | 34.40 |
| | | | Proficient | 5,315 | 39.51 |
| | | | Advanced | 1,956 | 14.54 |
| | | | Total | 13,452 | 100.00 |
| | | Male | Below Basic | 1,237 | 10.57 |
| | | | Basic | 3,602 | 30.79 |
| | | | Proficient | 4,773 | 40.80 |
| | | | Advanced | 2,086 | 17.83 |
| | | | Total | 11,698 | 100.00 |
| | American History | Female | Below Basic | 5,205 | 27.25 |
| | | | Basic | 5,352 | 28.02 |
| | | | Proficient | 7,011 | 36.70 |
| | | | Advanced | 1,535 | 8.04 |
| | | | Total | 19,103 | 100.00 |
| | | Male | Below Basic | 4,570 | 23.47 |
| | | | Basic | 4,794 | 24.63 |
| | | | Proficient | 7,423 | 38.13 |
| | | | Advanced | 2,681 | 13.77 |
| | | | Total | 19,468 | 100.00 |
| | Biology | Female | Below Basic | 2,520 | 8.20 |
| | | | Basic | 12,178 | 39.64 |
| | | | Proficient | 12,517 | 40.74 |
| | | | Advanced | 3,507 | 11.42 |
| | | | Total | 30,722 | 100.00 |
| | | Male | Below Basic | 2,284 | 7.36 |
| | | | Basic | 10,344 | 33.34 |
| | | | Proficient | 13,328 | 42.96 |
| | | | Advanced | 5,068 | 16.34 |
| | | | Total | 31,024 | 100.00 |

**Table 9.15 (C) cont. – Achievement Level Distributions by Gender, Spring 2012**

| Test Period | Subject | Gender | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | English I | Female | Below Basic | 1,625 | 7.40 |
| | | | Basic | 5,825 | 26.54 |
| | | | Proficient | 10,395 | 47.36 |
| | | | Advanced | 4,102 | 18.69 |
| | | | Total | 21,947 | 100.00 |
| | | Male | Below Basic | 2,595 | 11.61 |
| | | | Basic | 6,679 | 29.88 |
| | | | Proficient | 9,769 | 43.70 |
| | | | Advanced | 3,313 | 14.82 |
| | | | Total | 22,356 | 100.00 |
| | English II | Female | Below Basic | 1,191 | 3.86 |
| | | | Basic | 5,719 | 18.53 |
| | | | Proficient | 16,822 | 54.51 |
| | | | Advanced | 7,128 | 23.10 |
| | | | Total | 30,860 | 100.00 |
| | | Male | Below Basic | 2,132 | 6.84 |
| | | | Basic | 6,982 | 22.40 |
| | | | Proficient | 16,714 | 53.63 |
| | | | Advanced | 5,336 | 17.12 |
| | | | Total | 31,164 | 100.00 |
| | Geometry | Female | Below Basic | 1,855 | 11.85 |
| | | | Basic | 4,097 | 26.17 |
| | | | Proficient | 7,759 | 49.56 |
| | | | Advanced | 1,946 | 12.43 |
| | | | Total | 15,657 | 100.00 |
| | | Male | Below Basic | 1,755 | 12.03 |
| | | | Basic | 3,562 | 24.41 |
| | | | Proficient | 7,265 | 49.78 |
| | | | Advanced | 2,012 | 13.79 |
| | | | Total | 14,594 | 100.00 |
| | Government | Female | Below Basic | 1,572 | 7.93 |
| | | | Basic | 8,168 | 41.20 |
| | | | Proficient | 7,606 | 38.36 |
| | | | Advanced | 2,481 | 12.51 |
| | | | Total | 19,827 | 100.00 |
| | | Male | Below Basic | 1,868 | 9.17 |
| | | | Basic | 7,120 | 34.95 |
| | | | Proficient | 7,785 | 38.21 |
| | | | Advanced | 3,599 | 17.67 |
| | | | Total | 20,372 | 100.00 |

**Table 9.16 (A) – Achievement Level Distributions by Ethnicity for Algebra I, Summer 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Algebra I | American Indian/ Alaskan Native | Below Basic | -- | -- |
| | | | Basic | 2 | 66.67 |
| | | | Proficient | 1 | 33.33 |
| | | | Advanced | -- | -- |
| | | | Total | 3 | 100.00 |
| | | Asian | Below Basic | -- | -- |
| | | | Basic | 7 | 63.64 |
| | | | Proficient | 3 | 27.27 |
| | | | Advanced | 1 | 9.09 |
| | | | Total | 11 | 100.00 |
| | | Pacific Islander | Below Basic | -- | -- |
| | | | Basic | 1 | 50.00 |
| | | | Proficient | 1 | 50.00 |
| | | | Advanced | -- | -- |
| | | | Total | 2 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 47 | 16.43 |
| | | | Basic | 184 | 64.34 |
| | | | Proficient | 50 | 17.48 |
| | | | Advanced | 5 | 1.75 |
| | | | Total | 286 | 100.00 |
| | | Hispanic | Below Basic | 2 | 6.90 |
| | | | Basic | 15 | 51.72 |
| | | | Proficient | 10 | 34.48 |
| | | | Advanced | 2 | 6.90 |
| | | | Total | 29 | 100.00 |
| | | White (not Hispanic) | Below Basic | 35 | 12.03 |
| | | | Basic | 123 | 42.27 |
| | | | Proficient | 100 | 34.36 |
| | | | Advanced | 33 | 11.34 |
| | | | Total | 291 | 100.00 |
| | | Multiracial | Below Basic | 1 | 14.29 |
| | | | Basic | 3 | 42.86 |
| | | | Proficient | 2 | 28.57 |
| | | | Advanced | 1 | 14.29 |
| | | | Total | 7 | 100.00 |

**Table 9.16 (B) – Achievement Level Distributions by Ethnicity for Algebra II, Summer 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Algebra II | American Indian/ Alaskan Native | Below Basic | 1 | 50.00 |
| | | | Basic | 1 | 50.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 2 | 100.00 |
| | | Asian | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | | Pacific Islander | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | --- |
| | | Black (not Hispanic) | Below Basic | 43 | 54.43 |
| | | | Basic | 33 | 41.77 |
| | | | Proficient | 2 | 2.53 |
| | | | Advanced | 1 | 1.27 |
| | | | Total | 79 | 100.00 |
| | | Hispanic | Below Basic | 1 | 14.29 |
| | | | Basic | 5 | 71.43 |
| | | | Proficient | 1 | 14.29 |
| | | | Advanced | 0 | -- |
| | | | Total | 7 | 100.00 |
| | | White (not Hispanic) | Below Basic | 12 | 35.29 |
| | | | Basic | 15 | 44.12 |
| | | | Proficient | 7 | 20.59 |
| | | | Advanced | -- | -- |
| | | | Total | 34 | 100.00 |
| | | Multiracial | Below Basic | -- | -- |
| | | | Basic | 1 | 50.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | 1 | 50.00 |
| | | | Total | 2 | 100.00 |

**Table 9.16 (C) – Achievement Level Distributions by Ethnicity for American History, Summer 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | American History | American Indian/ Alaskan Native | Below Basic | 2 | 66.67 |
| | | | Basic | 1 | 33.33 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 3 | 100.00 |
| | | Asian | Below Basic | -- | -- |
| | | | Basic | 2 | 50.00 |
| | | | Proficient | 1 | 25.00 |
| | | | Advanced | 1 | 25.00 |
| | | | Total | 4 | 100.00 |
| | | Pacific Islander | Below Basic | 1 | 100.00 |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 57 | 68.67 |
| | | | Basic | 16 | 19.28 |
| | | | Proficient | 9 | 10.84 |
| | | | Advanced | 1 | 1.20 |
| | | | Total | 83 | 100.00 |
| | | Hispanic | Below Basic | 9 | 64.29 |
| | | | Basic | 3 | 21.43 |
| | | | Proficient | 2 | 14.29 |
| | | | Advanced | -- | -- |
| | | | Total | 14 | 100.00 |
| | | White (not Hispanic) | Below Basic | 28 | 35.00 |
| | | | Basic | 26 | 32.50 |
| | | | Proficient | 24 | 30.00 |
| | | | Advanced | 2 | 2.50 |
| | | | Total | 80 | 100.00 |
| | | Multiracial | Below Basic | 1 | 50.00 |
| | | | Basic | 1 | 50.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 2 | 100.00 |

**Table 9.16 (D) – Achievement Level Distributions by Ethnicity for Biology, Summer 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Biology | American Indian/ Alaskan Native | Below Basic | 1 | 50.00 |
| | | | Basic | 1 | 50.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 2 | 100.00 |
| | | Asian | Below Basic | -- | -- |
| | | | Basic | 1 | 33.33 |
| | | | Proficient | 2 | 66.67 |
| | | | Advanced | -- | -- |
| | | | Total | 3 | 100.00 |
| | | Pacific Islander | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | | Black (not Hispanic) | Below Basic | 36 | 25.90 |
| | | | Basic | 70 | 50.36 |
| | | | Proficient | 31 | 22.30 |
| | | | Advanced | 2 | 1.44 |
| | | | Total | 139 | 100.00 |
| | | Hispanic | Below Basic | 1 | 12.50 |
| | | | Basic | 6 | 75.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | 1 | 12.50 |
| | | | Total | 8 | 100.00 |
| | | White (not Hispanic) | Below Basic | 18 | 14.29 |
| | | | Basic | 59 | 46.83 |
| | | | Proficient | 40 | 31.75 |
| | | | Advanced | 9 | 7.14 |
| | | | Total | 126 | 100.00 |
| | | Multiracial | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | 1 | 100.00 |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |

**Table 9.16 (E) – Achievement Level Distributions by Ethnicity for English I, Summer 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | English I | American Indian/ Alaskan Native | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | | Asian | Below Basic | -- | -- |
| | | | Basic | 1 | 100.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |
| | | Pacific Islander | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | | Black (not Hispanic) | Below Basic | 33 | 30.84 |
| | | | Basic | 56 | 52.34 |
| | | | Proficient | 15 | 14.02 |
| | | | Advanced | 3 | 2.80 |
| | | | Total | 107 | 100.00 |
| | | Hispanic | Below Basic | 2 | 12.50 |
| | | | Basic | 5 | 31.25 |
| | | | Proficient | 8 | 50.00 |
| | | | Advanced | 1 | 6.25 |
| | | | Total | 16 | 100.00 |
| | | White (not Hispanic) | Below Basic | 21 | 17.36 |
| | | | Basic | 48 | 39.67 |
| | | | Proficient | 43 | 35.54 |
| | | | Advanced | 9 | 7.44 |
| | | | Total | 121 | 100.00 |
| | | Multiracial | Below Basic | 1 | 100.00 |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |

**Table 9.16 (F) – Achievement Level Distributions by Ethnicity for English II, Summer 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | English II | American Indian/ Alaskan Native | Below Basic | -- | -- |
| | | | Basic | 1 | 100.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |
| | | Asian | Below Basic | 1 | 100.00 |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |
| | | Pacific Islander | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | | Black (not Hispanic) | Below Basic | 23 | 16.67 |
| | | | Basic | 73 | 52.90 |
| | | | Proficient | 37 | 26.81 |
| | | | Advanced | 5 | 3.62 |
| | | | Total | 138 | 100.00 |
| | | Hispanic | Below Basic | -- | -- |
| | | | Basic | 2 | 13.33 |
| | | | Proficient | 13 | 86.67 |
| | | | Advanced | --- | -- |
| | | | Total | 15 | 100.00 |
| | | White (not Hispanic) | Below Basic | 19 | 12.18 |
| | | | Basic | 56 | 35.90 |
| | | | Proficient | 70 | 44.87 |
| | | | Advanced | 11 | 7.05 |
| | | | Total | 156 | 100.00 |
| | | Multiracial | Below Basic | 1 | 50.00 |
| | | | Basic | -- | -- |
| | | | Proficient | 1 | 50.00 |
| | | | Advanced | -- | -- |
| | | | Total | 2 | 100.00 |

**Table 9.16 (G) – Achievement Level Distributions by Ethnicity for Geometry, Summer 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Geometry | American Indian/ Alaskan Native | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | | Asian | Below Basic | 1 | 25.00 |
| | | | Basic | 1 | 25.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | 2 | 50.00 |
| | | | Total | 4 | 100.00 |
| | | Pacific Islander | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | | Black (not Hispanic) | Below Basic | 48 | 44.44 |
| | | | Basic | 43 | 39.81 |
| | | | Proficient | 16 | 14.81 |
| | | | Advanced | 1 | 0.93 |
| | | | Total | 108 | 100.00 |
| | | Hispanic | Below Basic | 1 | 8.33 |
| | | | Basic | 1 | 8.33 |
| | | | Proficient | 8 | 66.67 |
| | | | Advanced | 2 | 16.67 |
| | | | Total | 12 | 100.00 |
| | | White (not Hispanic) | Below Basic | 11 | 16.42 |
| | | | Basic | 31 | 46.27 |
| | | | Proficient | 21 | 31.34 |
| | | | Advanced | 4 | 5.97 |
| | | | Total | 67 | 100.00 |
| | | Multiracial | Below Basic | -- | -- |
| | | | Basic | 1 | 100.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |

**Table 9.16 (H) – Achievement Level Distributions by Ethnicity for Government, Summer 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Government | American Indian/ Alaskan Native | Below Basic | 2 | 40.00 |
| | | | Basic | 2 | 40.00 |
| | | | Proficient | 1 | 20.00 |
| | | | Advanced | -- | -- |
| | | | Total | 5 | 100.00 |
| | | Asian | Below Basic | 2 | 6.90 |
| | | | Basic | 5 | 17.24 |
| | | | Proficient | 10 | 34.48 |
| | | | Advanced | 12 | 41.38 |
| | | | Total | 29 | 100.00 |
| | | Pacific Islander | Below Basic | 2 | 66.67 |
| | | | Basic | 1 | 33.33 |
| | | | Proficient | -- | -- |
| | | | Advanced | --- | -- |
| | | | Total | 3 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 20 | 13.70 |
| | | | Basic | 82 | 56.16 |
| | | | Proficient | 34 | 23.29 |
| | | | Advanced | 10 | 6.85 |
| | | | Total | 146 | 100.00 |
| | | Hispanic | Below Basic | 5 | 8.93 |
| | | | Basic | 33 | 58.93 |
| | | | Proficient | 17 | 30.36 |
| | | | Advanced | 1 | 1.79 |
| | | | Total | 56 | 100.00 |
| | | White (not Hispanic) | Below Basic | 38 | 6.56 |
| | | | Basic | 218 | 37.65 |
| | | | Proficient | 234 | 40.41 |
| | | | Advanced | 89 | 15.37 |
| | | | Total | 579 | 100.00 |
| | | Multiracial | Below Basic | -- | -- |
| | | | Basic | 1 | 33.33 |
| | | | Proficient | 1 | 33.33 |
| | | | Advanced | 1 | 33.33 |
| | | | Total | 3 | 100.00 |

**Table 9.16 (I) – Achievement Level Distributions by Ethnicity for Algebra I, Fall 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Algebra I | American Indian/ Alaskan Native | Below Basic | 7 | 31.82 |
| | | | Basic | 8 | 36.36 |
| | | | Proficient | 5 | 22.73 |
| | | | Advanced | 2 | 9.09 |
| | | | Total | 22 | 100.00 |
| | | Asian | Below Basic | 3 | 5.08 |
| | | | Basic | 10 | 16.95 |
| | | | Proficient | 14 | 23.73 |
| | | | Advanced | 32 | 54.24 |
| | | | Total | 59 | 100.00 |
| | | Pacific Islander | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | 1 | 25.00 |
| | | | Advanced | 3 | 75.00 |
| | | | Total | 4 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 245 | 36.57 |
| | | | Basic | 293 | 43.73 |
| | | | Proficient | 102 | 15.22 |
| | | | Advanced | 30 | 4.48 |
| | | | Total | 670 | 100.00 |
| | | Hispanic | Below Basic | 38 | 22.89 |
| | | | Basic | 55 | 33.13 |
| | | | Proficient | 52 | 31.33 |
| | | | Advanced | 21 | 12.65 |
| | | | Total | 166 | 100.00 |
| | | White (not Hispanic) | Below Basic | 495 | 16.41 |
| | | | Basic | 830 | 27.51 |
| | | | Proficient | 923 | 30.59 |
| | | | Advanced | 769 | 25.49 |
| | | | Total | 3,017 | 100.00 |
| | | Multiracial | Below Basic | 6 | 9.84 |
| | | | Basic | 16 | 26.23 |
| | | | Proficient | 19 | 31.15 |
| | | | Advanced | 20 | 32.79 |
| | | | Total | 61 | 100.00 |

**Table 9.16 (J) – Achievement Level Distributions by Ethnicity for Algebra II, Fall 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Algebra II | American Indian/ Alaskan Native | Below Basic | -- | -- |
| | | | Basic | 1 | 50.00 |
| | | | Proficient | 1 | 50.00 |
| | | | Advanced | -- | -- |
| | | | Total | 2 | 100.00 |
| | | Asian | Below Basic | -- | -- |
| | | | Basic | 3 | 20.00 |
| | | | Proficient | 6 | 40.00 |
| | | | Advanced | 6 | 40.00 |
| | | | Total | 15 | 100.00 |
| | | Pacific Islander | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | 1 | 100.00 |
| | | | Total | 1 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 10 | 16.67 |
| | | | Basic | 25 | 41.67 |
| | | | Proficient | 19 | 31.67 |
| | | | Advanced | 6 | 10.00 |
| | | | Total | 60 | 100.00 |
| | | Hispanic | Below Basic | 2 | 6.90 |
| | | | Basic | 11 | 37.93 |
| | | | Proficient | 8 | 27.59 |
| | | | Advanced | 8 | 27.59 |
| | | | Total | 29 | 100.00 |
| | | White (not Hispanic) | Below Basic | 28 | 7.20 |
| | | | Basic | 69 | 17.74 |
| | | | Proficient | 172 | 44.22 |
| | | | Advanced | 120 | 30.85 |
| | | | Total | 389 | 100.00 |
| | | Multiracial | Below Basic | 1 | 5.56 |
| | | | Basic | 3 | 16.67 |
| | | | Proficient | 10 | 55.56 |
| | | | Advanced | 4 | 22.22 |
| | | | Total | 18 | 100.00 |

**Table 9.16 (K) – Achievement Level Distributions by Ethnicity for American History, Fall 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | American History | American Indian/ Alaskan Native | Below Basic | 1 | 14.29 |
| | | | Basic | 2 | 28.57 |
| | | | Proficient | 3 | 42.86 |
| | | | Advanced | 1 | 14.29 |
| | | | Total | 7 | 100.00 |
| | | Asian | Below Basic | 3 | 25.00 |
| | | | Basic | 4 | 33.33 |
| | | | Proficient | 3 | 25.00 |
| | | | Advanced | 2 | 16.67 |
| | | | Total | 12 | 100.00 |
| | | Pacific Islander | Below Basic | 1 | 33.33 |
| | | | Basic | -- | -- |
| | | | Proficient | 2 | 66.67 |
| | | | Advanced | -- | -- |
| | | | Total | 3 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 41 | 44.09 |
| | | | Basic | 18 | 19.35 |
| | | | Proficient | 22 | 23.66 |
| | | | Advanced | 12 | 12.90 |
| | | | Total | 93 | 100.00 |
| | | Hispanic | Below Basic | 11 | 37.93 |
| | | | Basic | 7 | 24.14 |
| | | | Proficient | 7 | 24.14 |
| | | | Advanced | 4 | 13.79 |
| | | | Total | 29 | 100.00 |
| | | White (not Hispanic) | Below Basic | 152 | 22.62 |
| | | | Basic | 173 | 25.74 |
| | | | Proficient | 244 | 36.31 |
| | | | Advanced | 103 | 15.33 |
| | | | Total | 672 | 100.00 |
| | | Multiracial | Below Basic | 4 | 26.67 |
| | | | Basic | 5 | 33.33 |
| | | | Proficient | 6 | 40.00 |
| | | | Advanced | -- | -- |
| | | | Total | 15 | 100.00 |

**Table 9.16 (L) – Achievement Level Distributions by Ethnicity for Biology, Fall 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Biology | American Indian/ Alaskan Native | Below Basic | 3 | 21.43 |
| | | | Basic | 6 | 42.86 |
| | | | Proficient | 4 | 28.57 |
| | | | Advanced | 1 | 7.14 |
| | | | Total | 14 | 100.00 |
| | | Asian | Below Basic | 8 | 11.76 |
| | | | Basic | 7 | 10.29 |
| | | | Proficient | 33 | 48.53 |
| | | | Advanced | 20 | 29.41 |
| | | | Total | 68 | 100.00 |
| | | Pacific Islander | Below Basic | 1 | 16.67 |
| | | | Basic | 3 | 50.00 |
| | | | Proficient | 2 | 33.33 |
| | | | Advanced | -- | -- |
| | | | Total | 6 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 197 | 31.62 |
| | | | Basic | 332 | 53.29 |
| | | | Proficient | 87 | 13.96 |
| | | | Advanced | 7 | 1.12 |
| | | | Total | 623 | 100.00 |
| | | Hispanic | Below Basic | 18 | 14.63 |
| | | | Basic | 63 | 51.22 |
| | | | Proficient | 36 | 29.27 |
| | | | Advanced | 6 | 4.88 |
| | | | Total | 123 | 100.00 |
| | | White (not Hispanic) | Below Basic | 266 | 12.40 |
| | | | Basic | 841 | 39.21 |
| | | | Proficient | 739 | 34.45 |
| | | | Advanced | 299 | 13.94 |
| | | | Total | 2,145 | 100.00 |
| | | Multiracial | Below Basic | 8 | 16.00 |
| | | | Basic | 17 | 34.00 |
| | | | Proficient | 15 | 30.00 |
| | | | Advanced | 10 | 20.00 |
| | | | Total | 50 | 100.00 |

**Table 9.16 (M) – Achievement Level Distributions by Ethnicity for English I, Fall 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | English I | American Indian/ Alaskan Native | Below Basic | -- | -- |
| | | | Basic | 1 | 100.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | | Asian | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | 2 | 100.00 |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | | Pacific Islander | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | | Black (not Hispanic) | Below Basic | 15 | 50.00 |
| | | | Basic | 8 | 26.67 |
| | | | Proficient | 6 | 20.00 |
| | | | Advanced | 1 | 3.33 |
| | | | Total | 30 | 100.00 |
| | | Hispanic | Below Basic | 1 | 7.14 |
| | | | Basic | 7 | 50.00 |
| | | | Proficient | 4 | 28.57 |
| | | | Advanced | 2 | 14.29 |
| | | | Total | 14 | 100.00 |
| | | White (not Hispanic) | Below Basic | 24 | 14.55 |
| | | | Basic | 48 | 29.09 |
| | | | Proficient | 58 | 35.15 |
| | | | Advanced | 35 | 21.21 |
| | | | Total | 165 | 100.00 |
| | | Multiracial | Below Basic | -- | -- |
| | | | Basic | 5 | 62.50 |
| | | | Proficient | 1 | 12.50 |
| | | | Advanced | 2 | 25.00 |
| | | | Total | 8 | 100.00 |

**Table 9.16 (N) – Achievement Level Distributions by Ethnicity for English II, Fall 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | English II | American Indian/ Alaskan Native | Below Basic | 5 | 41.67 |
| | | | Basic | 3 | 25.00 |
| | | | Proficient | 4 | 33.33 |
| | | | Advanced | -- | -- |
| | | | Total | 12 | 100.00 |
| | | Asian | Below Basic | 2 | 7.14 |
| | | | Basic | 10 | 35.71 |
| | | | Proficient | 13 | 46.43 |
| | | | Advanced | 3 | 10.71 |
| | | | Total | 28 | 100.00 |
| | | Pacific Islander | Below Basic | -- | -- |
| | | | Basic | 2 | 66.67 |
| | | | Proficient | 1 | 33.33 |
| | | | Advanced | -- | -- |
| | | | Total | 3 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 150 | 13.44 |
| | | | Basic | 421 | 37.72 |
| | | | Proficient | 496 | 44.44 |
| | | | Advanced | 49 | 4.39 |
| | | | Total | 1,116 | 100.00 |
| | | Hispanic | Below Basic | 16 | 12.60 |
| | | | Basic | 62 | 48.82 |
| | | | Proficient | 42 | 33.07 |
| | | | Advanced | 7 | 5.51 |
| | | | Total | 127 | 100.00 |
| | | White (not Hispanic) | Below Basic | 207 | 12.32 |
| | | | Basic | 537 | 31.96 |
| | | | Proficient | 716 | 42.62 |
| | | | Advanced | 220 | 13.10 |
| | | | Total | 1,680 | 100.00 |
| | | Multiracial | Below Basic | 6 | 10.71 |
| | | | Basic | 15 | 26.79 |
| | | | Proficient | 29 | 51.79 |
| | | | Advanced | 6 | 10.71 |
| | | | Total | 56 | 100.00 |

**Table 9.16 (O) – Achievement Level Distributions by Ethnicity for Geometry, Fall 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Geometry | American Indian/ Alaskan Native | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | 1 | 100.00 |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |
| | | Asian | Below Basic | 1 | 4.76 |
| | | | Basic | 5 | 23.81 |
| | | | Proficient | 5 | 23.81 |
| | | | Advanced | 10 | 47.62 |
| | | | Total | 21 | 100.00 |
| | | Pacific Islander | Below Basic | 1 | 33.33 |
| | | | Basic | -- | -- |
| | | | Proficient | 1 | 33.33 |
| | | | Advanced | 1 | 33.33 |
| | | | Total | 3 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 40 | 35.71 |
| | | | Basic | 35 | 31.25 |
| | | | Proficient | 29 | 25.89 |
| | | | Advanced | 8 | 7.14 |
| | | | Total | 112 | 100.00 |
| | | Hispanic | Below Basic | 9 | 21.43 |
| | | | Basic | 8 | 19.05 |
| | | | Proficient | 15 | 35.71 |
| | | | Advanced | 10 | 23.81 |
| | | | Total | 42 | 100.00 |
| | | White (not Hispanic) | Below Basic | 74 | 13.91 |
| | | | Basic | 87 | 16.35 |
| | | | Proficient | 172 | 32.33 |
| | | | Advanced | 199 | 37.41 |
| | | | Total | 532 | 100.00 |
| | | Multiracial | Below Basic | 3 | 16.67 |
| | | | Basic | 5 | 27.78 |
| | | | Proficient | 3 | 16.67 |
| | | | Advanced | 7 | 38.89 |
| | | | Total | 18 | 100.00 |

**Table 9.16 (P) – Achievement Level Distributions by Ethnicity for Government, Fall 2011**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Government | American Indian/ Alaskan Native | Below Basic | 12 | 13.04 |
| | | | Basic | 32 | 34.78 |
| | | | Proficient | 33 | 35.87 |
| | | | Advanced | 15 | 16.30 |
| | | | Total | 92 | 100.00 |
| | | Asian | Below Basic | 59 | 14.18 |
| | | | Basic | 101 | 24.28 |
| | | | Proficient | 132 | 31.73 |
| | | | Advanced | 124 | 29.81 |
| | | | Total | 416 | 100.00 |
| | | Pacific Islander | Below Basic | 6 | 22.22 |
| | | | Basic | 10 | 37.04 |
| | | | Proficient | 10 | 37.04 |
| | | | Advanced | 1 | 3.70 |
| | | | Total | 27 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 979 | 33.24 |
| | | | Basic | 1,298 | 44.07 |
| | | | Proficient | 583 | 19.80 |
| | | | Advanced | 85 | 2.89 |
| | | | Total | 2,945 | 100.00 |
| | | Hispanic | Below Basic | 164 | 21.78 |
| | | | Basic | 324 | 43.03 |
| | | | Proficient | 218 | 28.95 |
| | | | Advanced | 47 | 6.24 |
| | | | Total | 753 | 100.00 |
| | | White (not Hispanic) | Below Basic | 1,442 | 11.24 |
| | | | Basic | 4,515 | 35.20 |
| | | | Proficient | 4,739 | 36.95 |
| | | | Advanced | 2,129 | 16.60 |
| | | | Total | 12,825 | 100.00 |
| | | Multiracial | Below Basic | 27 | 15.88 |
| | | | Basic | 65 | 38.24 |
| | | | Proficient | 63 | 37.06 |
| | | | Advanced | 15 | 8.82 |
| | | | Total | 170 | 100.00 |

**Table 9.16 (Q) – Achievement Level Distributions by Ethnicity for Algebra I, Spring 2012**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Algebra I | American Indian/ Alaskan Native | Below Basic | 30 | 10.03 |
| | | | Basic | 114 | 38.13 |
| | | | Proficient | 109 | 36.45 |
| | | | Advanced | 46 | 15.38 |
| | | | Total | 299 | 100.00 |
| | | Asian | Below Basic | 45 | 3.63 |
| | | | Basic | 260 | 21.00 |
| | | | Proficient | 414 | 33.44 |
| | | | Advanced | 519 | 41.92 |
| | | | Total | 1,238 | 100.00 |
| | | Pacific Islander | Below Basic | 10 | 10.75 |
| | | | Basic | 34 | 36.56 |
| | | | Proficient | 33 | 35.48 |
| | | | Advanced | 16 | 17.20 |
| | | | Total | 93 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 1,834 | 18.51 |
| | | | Basic | 4,795 | 48.39 |
| | | | Proficient | 2,600 | 26.24 |
| | | | Advanced | 680 | 6.86 |
| | | | Total | 9,909 | 100.00 |
| | | Hispanic | Below Basic | 235 | 8.87 |
| | | | Basic | 1,061 | 40.07 |
| | | | Proficient | 949 | 35.84 |
| | | | Advanced | 403 | 15.22 |
| | | | Total | 2,648 | 100.00 |
| | | White (not Hispanic) | Below Basic | 3,104 | 6.28 |
| | | | Basic | 15,734 | 31.82 |
| | | | Proficient | 18,842 | 38.11 |
| | | | Advanced | 11,767 | 23.80 |
| | | | Total | 49,447 | 100.00 |
| | | Multiracial | Below Basic | 53 | 6.53 |
| | | | Basic | 280 | 34.48 |
| | | | Proficient | 297 | 36.58 |
| | | | Advanced | 182 | 22.41 |
| | | | Total | 812 | 100.00 |

**Table 9.16 (R) – Achievement Level Distributions by Ethnicity for Algebra II, Spring 2012**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Algebra II | American Indian/ Alaskan Native | Below Basic | 18 | 13.24 |
| | | | Basic | 59 | 43.38 |
| | | | Proficient | 42 | 30.88 |
| | | | Advanced | 17 | 12.50 |
| | | | Total | 136 | 100.00 |
| | | Asian | Below Basic | 34 | 8.37 |
| | | | Basic | 99 | 24.38 |
| | | | Proficient | 157 | 38.67 |
| | | | Advanced | 116 | 28.57 |
| | | | Total | 406 | 100.00 |
| | | Pacific Islander | Below Basic | 9 | 24.32 |
| | | | Basic | 8 | 21.62 |
| | | | Proficient | 17 | 45.95 |
| | | | Advanced | 3 | 8.11 |
| | | | Total | 37 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 988 | 30.02 |
| | | | Basic | 1,327 | 40.32 |
| | | | Proficient | 828 | 25.16 |
| | | | Advanced | 148 | 4.50 |
| | | | Total | 3,291 | 100.00 |
| | | Hispanic | Below Basic | 178 | 17.76 |
| | | | Basic | 368 | 36.73 |
| | | | Proficient | 351 | 35.03 |
| | | | Advanced | 105 | 10.48 |
| | | | Total | 1,002 | 100.00 |
| | | White (not Hispanic) | Below Basic | 1,546 | 7.71 |
| | | | Basic | 6,295 | 31.38 |
| | | | Proficient | 8,610 | 42.92 |
| | | | Advanced | 3,608 | 17.99 |
| | | | Total | 20,059 | 100.00 |
| | | Multiracial | Below Basic | 18 | 8.22 |
| | | | Basic | 73 | 33.33 |
| | | | Proficient | 83 | 37.90 |
| | | | Advanced | 45 | 20.55 |
| | | | Total | 219 | 100.00 |

**Table 9.16 (S) – Achievement Level Distributions by Ethnicity for American History, Spring 2012**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | American History | American Indian/ Alaskan Native | Below Basic | 44 | 20.75 |
| | | | Basic | 63 | 29.72 |
| | | | Proficient | 82 | 38.68 |
| | | | Advanced | 23 | 10.85 |
| | | | Total | 212 | 100.00 |
| | | Asian | Below Basic | 123 | 23.88 |
| | | | Basic | 116 | 22.52 |
| | | | Proficient | 179 | 34.76 |
| | | | Advanced | 97 | 18.83 |
| | | | Total | 515 | 100.00 |
| | | Pacific Islander | Below Basic | 26 | 41.27 |
| | | | Basic | 13 | 20.63 |
| | | | Proficient | 17 | 26.98 |
| | | | Advanced | 7 | 11.11 |
| | | | Total | 63 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 2,007 | 38.53 |
| | | | Basic | 1,497 | 28.74 |
| | | | Proficient | 1,416 | 27.18 |
| | | | Advanced | 289 | 5.55 |
| | | | Total | 5,209 | 100.00 |
| | | Hispanic | Below Basic | 507 | 34.07 |
| | | | Basic | 389 | 26.14 |
| | | | Proficient | 477 | 32.06 |
| | | | Advanced | 115 | 7.73 |
| | | | Total | 1,488 | 100.00 |
| | | White (not Hispanic) | Below Basic | 6,959 | 22.70 |
| | | | Basic | 7,949 | 25.93 |
| | | | Proficient | 12,098 | 39.47 |
| | | | Advanced | 3,644 | 11.89 |
| | | | Total | 30,650 | 100.00 |
| | | Multiracial | Below Basic | 109 | 25.12 |
| | | | Basic | 119 | 27.42 |
| | | | Proficient | 165 | 38.02 |
| | | | Advanced | 41 | 9.45 |
| | | | Total | 434 | 100.00 |

**Table 9.16 (T) – Achievement Level Distributions by Ethnicity for Biology, Spring 2012**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Biology | American Indian/ Alaskan Native | Below Basic | 23 | 7.44 |
| | | | Basic | 125 | 40.45 |
| | | | Proficient | 135 | 43.69 |
| | | | Advanced | 26 | 8.41 |
| | | | Total | 309 | 100.00 |
| | | Asian | Below Basic | 85 | 7.29 |
| | | | Basic | 326 | 27.96 |
| | | | Proficient | 450 | 38.59 |
| | | | Advanced | 305 | 26.16 |
| | | | Total | 1,166 | 100.00 |
| | | Pacific Islander | Below Basic | 8 | 11.43 |
| | | | Basic | 32 | 45.71 |
| | | | Proficient | 27 | 38.57 |
| | | | Advanced | 3 | 4.29 |
| | | | Total | 70 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 1,857 | 19.59 |
| | | | Basic | 5,025 | 53.02 |
| | | | Proficient | 2,254 | 23.78 |
| | | | Advanced | 341 | 3.60 |
| | | | Total | 9,477 | 100.00 |
| | | Hispanic | Below Basic | 250 | 10.95 |
| | | | Basic | 1,029 | 45.07 |
| | | | Proficient | 819 | 35.87 |
| | | | Advanced | 185 | 8.10 |
| | | | Total | 2,283 | 100.00 |
| | | White (not Hispanic) | Below Basic | 2,526 | 5.29 |
| | | | Basic | 15,739 | 32.95 |
| | | | Proficient | 21,876 | 45.79 |
| | | | Advanced | 7,632 | 15.98 |
| | | | Total | 47,773 | 100.00 |
| | | Multiracial | Below Basic | 55 | 8.23 |
| | | | Basic | 246 | 36.83 |
| | | | Proficient | 284 | 42.51 |
| | | | Advanced | 83 | 12.43 |
| | | | Total | 668 | 100.00 |

**Table 9.16 (U) – Achievement Level Distributions by Ethnicity for English I, Spring 2012**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | English I | American Indian/ Alaskan Native | Below Basic | 22 | 9.87 |
| | | | Basic | 59 | 26.46 |
| | | | Proficient | 101 | 45.29 |
| | | | Advanced | 41 | 18.39 |
| | | | Total | 223 | 100.00 |
| | | Asian | Below Basic | 36 | 6.87 |
| | | | Basic | 135 | 25.76 |
| | | | Proficient | 217 | 41.41 |
| | | | Advanced | 136 | 25.95 |
| | | | Total | 524 | 100.00 |
| | | Pacific Islander | Below Basic | 7 | 9.33 |
| | | | Basic | 25 | 33.33 |
| | | | Proficient | 32 | 42.67 |
| | | | Advanced | 11 | 14.67 |
| | | | Total | 75 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 1,059 | 20.65 |
| | | | Basic | 2,132 | 41.58 |
| | | | Proficient | 1,662 | 32.41 |
| | | | Advanced | 275 | 5.36 |
| | | | Total | 5,128 | 100.00 |
| | | Hispanic | Below Basic | 250 | 13.59 |
| | | | Basic | 657 | 35.71 |
| | | | Proficient | 744 | 40.43 |
| | | | Advanced | 189 | 10.27 |
| | | | Total | 1,840 | 100.00 |
| | | White (not Hispanic) | Below Basic | 2,774 | 7.73 |
| | | | Basic | 9,315 | 25.95 |
| | | | Proficient | 17,139 | 47.74 |
| | | | Advanced | 6,672 | 18.58 |
| | | | Total | 35,900 | 100.00 |
| | | Multiracial | Below Basic | 72 | 11.75 |
| | | | Basic | 181 | 29.53 |
| | | | Proficient | 269 | 43.88 |
| | | | Advanced | 91 | 14.85 |
| | | | Total | 613 | 100.00 |

**Table 9.16 (V) – Achievement Level Distributions by Ethnicity for English II, Spring 2012**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | English II | American Indian/ Alaskan Native | Below Basic | 14 | 4.58 |
| | | | Basic | 73 | 23.86 |
| | | | Proficient | 180 | 58.82 |
| | | | Advanced | 39 | 12.75 |
| | | | Total | 306 | 100.00 |
| | | Asian | Below Basic | 64 | 5.25 |
| | | | Basic | 225 | 18.44 |
| | | | Proficient | 590 | 48.36 |
| | | | Advanced | 341 | 27.95 |
| | | | Total | 1,220 | 100.00 |
| | | Pacific Islander | Below Basic | 5 | 6.25 |
| | | | Basic | 25 | 31.25 |
| | | | Proficient | 35 | 43.75 |
| | | | Advanced | 15 | 18.75 |
| | | | Total | 80 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 1,148 | 12.83 |
| | | | Basic | 3,093 | 34.58 |
| | | | Proficient | 4,071 | 45.51 |
| | | | Advanced | 633 | 7.08 |
| | | | Total | 8,945 | 100.00 |
| | | Hispanic | Below Basic | 175 | 7.71 |
| | | | Basic | 587 | 25.85 |
| | | | Proficient | 1,232 | 54.25 |
| | | | Advanced | 277 | 12.20 |
| | | | Total | 2,271 | 100.00 |
| | | White (not Hispanic) | Below Basic | 1,876 | 3.87 |
| | | | Basic | 8,556 | 17.63 |
| | | | Proficient | 27,076 | 55.79 |
| | | | Advanced | 11,020 | 22.71 |
| | | | Total | 48,528 | 100.00 |
| | | Multiracial | Below Basic | 41 | 6.08 |
| | | | Basic | 142 | 21.07 |
| | | | Proficient | 352 | 52.23 |
| | | | Advanced | 139 | 20.62 |
| | | | Total | 674 | 100.00 |

**Table 9.16 (W) – Achievement Level Distributions by Ethnicity for Geometry, Spring 2012**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Geometry | American Indian/ Alaskan Native | Below Basic | 18 | 10.65 |
| | | | Basic | 48 | 28.40 |
| | | | Proficient | 86 | 50.89 |
| | | | Advanced | 17 | 10.06 |
| | | | Total | 169 | 100.00 |
| | | Asian | Below Basic | 42 | 9.35 |
| | | | Basic | 82 | 18.26 |
| | | | Proficient | 222 | 49.44 |
| | | | Advanced | 103 | 22.94 |
| | | | Total | 449 | 100.00 |
| | | Pacific Islander | Below Basic | 14 | 22.95 |
| | | | Basic | 20 | 32.79 |
| | | | Proficient | 21 | 34.43 |
| | | | Advanced | 6 | 9.84 |
| | | | Total | 61 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 1,255 | 31.12 |
| | | | Basic | 1,431 | 35.48 |
| | | | Proficient | 1,212 | 30.05 |
| | | | Advanced | 135 | 3.35 |
| | | | Total | 4,033 | 100.00 |
| | | Hispanic | Below Basic | 217 | 17.69 |
| | | | Basic | 389 | 31.70 |
| | | | Proficient | 516 | 42.05 |
| | | | Advanced | 105 | 8.56 |
| | | | Total | 1,227 | 100.00 |
| | | White (not Hispanic) | Below Basic | 2,030 | 8.47 |
| | | | Basic | 5,612 | 23.40 |
| | | | Proficient | 12,794 | 53.36 |
| | | | Advanced | 3,542 | 14.77 |
| | | | Total | 23,978 | 100.00 |
| | | Multiracial | Below Basic | 34 | 10.18 |
| | | | Basic | 77 | 23.05 |
| | | | Proficient | 173 | 51.80 |
| | | | Advanced | 50 | 14.97 |
| | | | Total | 334 | 100.00 |

**Table 9.16 (X) – Achievement Level Distributions by Ethnicity for Government, Spring 2012**

| Test Period | Subject | Ethnicity | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Government | American Indian/ Alaskan Native | Below Basic | 19 | 9.00 |
| | | | Basic | 84 | 39.81 |
| | | | Proficient | 89 | 42.18 |
| | | | Advanced | 19 | 9.00 |
| | | | Total | 211 | 100.00 |
| | | Asian | Below Basic | 74 | 10.57 |
| | | | Basic | 224 | 32.00 |
| | | | Proficient | 247 | 35.29 |
| | | | Advanced | 155 | 22.14 |
| | | | Total | 700 | 100.00 |
| | | Pacific Islander | Below Basic | 9 | 16.07 |
| | | | Basic | 24 | 42.86 |
| | | | Proficient | 19 | 33.93 |
| | | | Advanced | 4 | 7.14 |
| | | | Total | 56 | 100.00 |
| | | Black (not Hispanic) | Below Basic | 1,150 | 22.47 |
| | | | Basic | 2,617 | 51.13 |
| | | | Proficient | 1,119 | 21.86 |
| | | | Advanced | 232 | 4.53 |
| | | | Total | 5,118 | 100.00 |
| | | Hispanic | Below Basic | 201 | 13.19 |
| | | | Basic | 700 | 45.93 |
| | | | Proficient | 488 | 32.02 |
| | | | Advanced | 135 | 8.86 |
| | | | Total | 1,524 | 100.00 |
| | | White (not Hispanic) | Below Basic | 1,957 | 6.09 |
| | | | Basic | 11,475 | 35.70 |
| | | | Proficient | 13,241 | 41.19 |
| | | | Advanced | 5,472 | 17.02 |
| | | | Total | 32,145 | 100.00 |
| | | Multiracial | Below Basic | 30 | 6.74 |
| | | | Basic | 164 | 36.85 |
| | | | Proficient | 188 | 42.25 |
| | | | Advanced | 63 | 14.16 |
| | | | Total | 445 | 100.00 |

**Table 9.17 (A) – Achievement Level Distributions by Migrant Status, Summer 2011**

| Test Period | Subject | Migrant | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | Below Basic | 85 | 13.51 |
| | | | Basic | 335 | 53.26 |
| | | | Proficient | 167 | 26.55 |
| | | | Advanced | 42 | 6.68 |
| | | | Total | 629 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | Algebra II | No | Below Basic | 57 | 45.97 |
| | | | Basic | 55 | 44.35 |
| | | | Proficient | 10 | 8.06 |
| | | | Advanced | 2 | 1.61 |
| | | | Total | 124 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | American History | No | Below Basic | 97 | 52.43 |
| | | | Basic | 48 | 25.95 |
| | | | Proficient | 36 | 19.46 |
| | | | Advanced | 4 | 2.16 |
| | | | Total | 185 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | Biology | No | Below Basic | 56 | 20.07 |
| | | | Basic | 137 | 49.10 |
| | | | Proficient | 74 | 26.52 |
| | | | Advanced | 12 | 4.30 |
| | | | Total | 279 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |

**Table 9.17 (A) cont. – Achievement Level Distributions by Migrant Status, Summer 2011**

| Test Period | Subject | Migrant | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | English I | No | Below Basic | 57 | 23.17 |
| | | | Basic | 110 | 44.72 |
| | | | Proficient | 66 | 26.83 |
| | | | Advanced | 13 | 5.28 |
| | | | Total | 246 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | English II | No | Below Basic | 44 | 14.06 |
| | | | Basic | 132 | 42.17 |
| | | | Proficient | 121 | 38.66 |
| | | | Advanced | 16 | 5.11 |
| | | | Total | 313 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | Geometry | No | Below Basic | 61 | 31.77 |
| | | | Basic | 77 | 40.10 |
| | | | Proficient | 45 | 23.44 |
| | | | Advanced | 9 | 4.69 |
| | | | Total | 192 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | Government | No | Below Basic | 69 | 8.41 |
| | | | Basic | 341 | 41.59 |
| | | | Proficient | 297 | 36.22 |
| | | | Advanced | 113 | 13.78 |
| | | | Total | 820 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | 1 | 100.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |

**Table 9.17 (B) – Achievement Level Distributions by Migrant Status, Fall 2011**

| Test Period | Subject | Migrant | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | Below Basic | 794 | 19.85 |
| | | | Basic | 1,212 | 30.31 |
| | | | Proficient | 1,116 | 27.91 |
| | | | Advanced | 877 | 21.93 |
| | | | Total | 3,999 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | Algebra II | No | Below Basic | 41 | 7.98 |
| | | | Basic | 112 | 21.79 |
| | | | Proficient | 216 | 42.02 |
| | | | Advanced | 145 | 28.21 |
| | | | Total | 514 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | American History | No | Below Basic | 213 | 25.63 |
| | | | Basic | 209 | 25.15 |
| | | | Proficient | 287 | 34.54 |
| | | | Advanced | 122 | 14.68 |
| | | | Total | 831 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | Biology | No | Below Basic | 501 | 16.54 |
| | | | Basic | 1,269 | 41.90 |
| | | | Proficient | 916 | 30.24 |
| | | | Advanced | 343 | 11.32 |
| | | | Total | 3,029 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |

**Table 9.17 (B) cont. – Achievement Level Distributions by Migrant Status, Fall 2011**

| Test Period | Subject | Migrant | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | English I | No | Below Basic | 40 | 18.18 |
| | | | Basic | 69 | 31.36 |
| | | | Proficient | 71 | 32.27 |
| | | | Advanced | 40 | 18.18 |
| | | | Total | 220 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | English II | No | Below Basic | 386 | 12.79 |
| | | | Basic | 1,047 | 34.68 |
| | | | Proficient | 1,301 | 43.09 |
| | | | Advanced | 285 | 9.44 |
| | | | Total | 3,019 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | 3 | 100.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 3 | 100.00 |
| | Geometry | No | Below Basic | 128 | 17.56 |
| | | | Basic | 140 | 19.20 |
| | | | Proficient | 226 | 31.00 |
| | | | Advanced | 235 | 32.24 |
| | | | Total | 729 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | Government | No | Below Basic | 2,688 | 15.61 |
| | | | Basic | 6,342 | 36.82 |
| | | | Proficient | 5,778 | 33.55 |
| | | | Advanced | 2,416 | 14.03 |
| | | | Total | 17,224 | 100.00 |
| | | Yes | Below Basic | 1 | 25.00 |
| | | | Basic | 3 | 75.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 4 | 100.00 |

**Table 9.17 (C) – Achievement Level Distributions by Migrant Status, Spring 2012**

| Test Period | Subject | Migrant | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | Below Basic | 5,310 | 8.24 |
| | | | Basic | 22,267 | 34.56 |
| | | | Proficient | 23,239 | 36.07 |
| | | | Advanced | 13,610 | 21.13 |
| | | | Total | 64,426 | 100.00 |
| | | Yes | Below Basic | 1 | 5.00 |
| | | | Basic | 11 | 55.00 |
| | | | Proficient | 5 | 25.00 |
| | | | Advanced | 3 | 15.00 |
| | | | Total | 20 | 100.00 |
| | Algebra II | No | Below Basic | 2,790 | 11.10 |
| | | | Basic | 8,226 | 32.72 |
| | | | Proficient | 10,086 | 40.11 |
| | | | Advanced | 4,041 | 16.07 |
| | | | Total | 25,143 | 100.00 |
| | | Yes | Below Basic | 1 | 14.29 |
| | | | Basic | 3 | 42.86 |
| | | | Proficient | 2 | 28.57 |
| | | | Advanced | 1 | 14.29 |
| | | | Total | 7 | 100.00 |
| | American History | No | Below Basic | 9,770 | 25.34 |
| | | | Basic | 10,141 | 26.30 |
| | | | Proficient | 14,431 | 37.43 |
| | | | Advanced | 4,215 | 10.93 |
| | | | Total | 38,557 | 100.00 |
| | | Yes | Below Basic | 5 | 35.71 |
| | | | Basic | 5 | 35.71 |
| | | | Proficient | 3 | 21.43 |
| | | | Advanced | 1 | 7.14 |
| | | | Total | 14 | 100.00 |
| | Biology | No | Below Basic | 4,801 | 7.78 |
| | | | Basic | 22,513 | 36.47 |
| | | | Proficient | 25,841 | 41.86 |
| | | | Advanced | 8,574 | 13.89 |
| | | | Total | 61,729 | 100.00 |
| | | Yes | Below Basic | 3 | 17.65 |
| | | | Basic | 9 | 52.94 |
| | | | Proficient | 4 | 23.53 |
| | | | Advanced | 1 | 5.88 |
| | | | Total | 17 | 100.00 |

**Table 9.17 (C) cont. – Achievement Level Distributions by Migrant Status, Spring 2012**

| Test Period | Subject | Migrant | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | English I | No | Below Basic | 4,219 | 9.53 |
| | | | Basic | 12,497 | 28.22 |
| | | | Proficient | 20,159 | 45.52 |
| | | | Advanced | 7,414 | 16.74 |
| | | | Total | 44,289 | 100.00 |
| | | Yes | Below Basic | 1 | 7.14 |
| | | | Basic | 7 | 50.00 |
| | | | Proficient | 5 | 35.71 |
| | | | Advanced | 1 | 7.14 |
| | | | Total | 14 | 100.00 |
| | English II | No | Below Basic | 3,321 | 5.36 |
| | | | Basic | 12,692 | 20.47 |
| | | | Proficient | 33,529 | 54.07 |
| | | | Advanced | 12,465 | 20.10 |
| | | | Total | 62,007 | 100.00 |
| | | Yes | Below Basic | 2 | 11.11 |
| | | | Basic | 9 | 50.00 |
| | | | Proficient | 7 | 38.89 |
| | | | Advanced | -- | -- |
| | | | Total | 18 | 100.00 |
| | Geometry | No | Below Basic | 3,608 | 11.93 |
| | | | Basic | 7,657 | 25.32 |
| | | | Proficient | 15,018 | 49.66 |
| | | | Advanced | 3,958 | 13.09 |
| | | | Total | 30,241 | 100.00 |
| | | Yes | Below Basic | 2 | 20.00 |
| | | | Basic | 2 | 20.00 |
| | | | Proficient | 6 | 60.00 |
| | | | Advanced | -- | -- |
| | | | Total | 10 | 100.00 |
| | Government | No | Below Basic | 3,437 | 8.55 |
| | | | Basic | 15,284 | 38.03 |
| | | | Proficient | 15,386 | 38.29 |
| | | | Advanced | 6,080 | 15.13 |
| | | | Total | 40,187 | 100.00 |
| | | Yes | Below Basic | 3 | 25.00 |
| | | | Basic | 4 | 33.33 |
| | | | Proficient | 5 | 41.67 |
| | | | Advanced | -- | -- |
| | | | Total | 12 | 100.00 |

**Table 9.18 (A) – Achievement Level Distributions by Free and Reduced Lunch Status, Summer 2011**

| Test Period | Subject | FRL | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | Below Basic | 43 | 13.87 |
| | | | Basic | 145 | 46.77 |
| | | | Proficient | 90 | 29.03 |
| | | | Advanced | 32 | 10.32 |
| | | | Total | 310 | 100.00 |
| | | Yes | Below Basic | 42 | 13.17 |
| | | | Basic | 190 | 59.56 |
| | | | Proficient | 77 | 24.14 |
| | | | Advanced | 10 | 3.13 |
| | | | Total | 319 | 100.00 |
| | Algebra II | No | Below Basic | 30 | 42.25 |
| | | | Basic | 32 | 45.07 |
| | | | Proficient | 8 | 11.27 |
| | | | Advanced | 1 | 1.41 |
| | | | Total | 71 | 100.00 |
| | | Yes | Below Basic | 27 | 50.94 |
| | | | Basic | 23 | 43.40 |
| | | | Proficient | 2 | 3.77 |
| | | | Advanced | 1 | 1.89 |
| | | | Total | 53 | 100.00 |
| | American History | No | Below Basic | 39 | 42.86 |
| | | | Basic | 25 | 27.47 |
| | | | Proficient | 23 | 25.27 |
| | | | Advanced | 4 | 4.40 |
| | | | Total | 91 | 100.00 |
| | | Yes | Below Basic | 58 | 61.70 |
| | | | Basic | 23 | 24.47 |
| | | | Proficient | 13 | 13.83 |
| | | | Advanced | -- | -- |
| | | | Total | 94 | 100.00 |
| | Biology | No | Below Basic | 20 | 15.87 |
| | | | Basic | 57 | 45.24 |
| | | | Proficient | 39 | 30.95 |
| | | | Advanced | 10 | 7.94 |
| | | | Total | 126 | 100.00 |
| | | Yes | Below Basic | 36 | 23.53 |
| | | | Basic | 80 | 52.29 |
| | | | Proficient | 35 | 22.88 |
| | | | Advanced | 2 | 1.31 |
| | | | Total | 153 | 100.00 |

**Table 9.18 (A) cont. – Achievement Level Distributions by Free and Reduced Lunch Status, Summer 2011**

| Test Period | Subject | FRL | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | English I | No | Below Basic | 20 | 18.69 |
| | | | Basic | 47 | 43.93 |
| | | | Proficient | 32 | 29.91 |
| | | | Advanced | 8 | 7.48 |
| | | | Total | 107 | 100.00 |
| | | Yes | Below Basic | 37 | 26.62 |
| | | | Basic | 63 | 45.32 |
| | | | Proficient | 34 | 24.46 |
| | | | Advanced | 5 | 3.60 |
| | | | Total | 139 | 100.00 |
| | English II | No | Below Basic | 16 | 11.51 |
| | | | Basic | 63 | 45.32 |
| | | | Proficient | 50 | 35.97 |
| | | | Advanced | 10 | 7.19 |
| | | | Total | 139 | 100.00 |
| | | Yes | Below Basic | 28 | 16.09 |
| | | | Basic | 69 | 39.66 |
| | | | Proficient | 71 | 40.80 |
| | | | Advanced | 6 | 3.45 |
| | | | Total | 174 | 100.00 |
| | Geometry | No | Below Basic | 27 | 30.34 |
| | | | Basic | 32 | 35.96 |
| | | | Proficient | 24 | 26.97 |
| | | | Advanced | 6 | 6.74 |
| | | | Total | 89 | 100.00 |
| | | Yes | Below Basic | 34 | 33.01 |
| | | | Basic | 45 | 43.69 |
| | | | Proficient | 21 | 20.39 |
| | | | Advanced | 3 | 2.91 |
| | | | Total | 103 | 100.00 |
| | Government | No | Below Basic | 23 | 4.89 |
| | | | Basic | 150 | 31.91 |
| | | | Proficient | 210 | 44.68 |
| | | | Advanced | 87 | 18.51 |
| | | | Total | 470 | 100.00 |
| | | Yes | Below Basic | 46 | 13.11 |
| | | | Basic | 192 | 54.70 |
| | | | Proficient | 87 | 24.79 |
| | | | Advanced | 26 | 7.41 |
| | | | Total | 351 | 100.00 |

**Table 9.18 (B) – Achievement Level Distributions by Free and Reduced Lunch Status, Fall 2011**

| Test Period | Subject | FRL | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | Below Basic | 282 | 12.16 |
| | | | Basic | 535 | 23.07 |
| | | | Proficient | 751 | 32.38 |
| | | | Advanced | 751 | 32.38 |
| | | | Total | 2,319 | 100.00 |
| | | Yes | Below Basic | 512 | 30.48 |
| | | | Basic | 677 | 40.30 |
| | | | Proficient | 365 | 21.73 |
| | | | Advanced | 126 | 7.50 |
| | | | Total | 1,680 | 100.00 |
| | Algebra II | No | Below Basic | 28 | 6.78 |
| | | | Basic | 74 | 17.92 |
| | | | Proficient | 181 | 43.83 |
| | | | Advanced | 130 | 31.48 |
| | | | Total | 413 | 100.00 |
| | | Yes | Below Basic | 13 | 12.87 |
| | | | Basic | 38 | 37.62 |
| | | | Proficient | 35 | 34.65 |
| | | | Advanced | 15 | 14.85 |
| | | | Total | 101 | 100.00 |
| | American History | No | Below Basic | 101 | 19.20 |
| | | | Basic | 134 | 25.48 |
| | | | Proficient | 201 | 38.21 |
| | | | Advanced | 90 | 17.11 |
| | | | Total | 526 | 100.00 |
| | | Yes | Below Basic | 112 | 36.72 |
| | | | Basic | 75 | 24.59 |
| | | | Proficient | 86 | 28.20 |
| | | | Advanced | 32 | 10.49 |
| | | | Total | 305 | 100.00 |
| | Biology | No | Below Basic | 143 | 8.75 |
| | | | Basic | 538 | 32.93 |
| | | | Proficient | 652 | 39.90 |
| | | | Advanced | 301 | 18.42 |
| | | | Total | 1,634 | 100.00 |
| | | Yes | Below Basic | 358 | 25.66 |
| | | | Basic | 731 | 52.40 |
| | | | Proficient | 264 | 18.92 |
| | | | Advanced | 42 | 3.01 |
| | | | Total | 1,395 | 100.00 |

**Table 9.18 (B) cont. – Achievement Level Distributions by Free and Reduced Lunch Status, Fall 2011**

| Test Period | Subject | FRL | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | English I | No | Below Basic | 13 | 10.66 |
| | | | Basic | 30 | 24.59 |
| | | | Proficient | 44 | 36.07 |
| | | | Advanced | 35 | 28.69 |
| | | | Total | 122 | 100.00 |
| | | Yes | Below Basic | 27 | 27.55 |
| | | | Basic | 39 | 39.80 |
| | | | Proficient | 27 | 27.55 |
| | | | Advanced | 5 | 5.10 |
| | | | Total | 98 | 100.00 |
| | English II | No | Below Basic | 121 | 8.90 |
| | | | Basic | 373 | 27.43 |
| | | | Proficient | 660 | 48.53 |
| | | | Advanced | 206 | 15.15 |
| | | | Total | 1,360 | 100.00 |
| | | Yes | Below Basic | 265 | 15.94 |
| | | | Basic | 677 | 40.73 |
| | | | Proficient | 641 | 38.57 |
| | | | Advanced | 79 | 4.75 |
| | | | Total | 1,662 | 100.00 |
| | Geometry | No | Below Basic | 59 | 11.82 |
| | | | Basic | 76 | 15.23 |
| | | | Proficient | 160 | 32.06 |
| | | | Advanced | 204 | 40.88 |
| | | | Total | 499 | 100.00 |
| | | Yes | Below Basic | 69 | 30.00 |
| | | | Basic | 64 | 27.83 |
| | | | Proficient | 66 | 28.70 |
| | | | Advanced | 31 | 13.48 |
| | | | Total | 230 | 100.00 |
| | Government | No | Below Basic | 920 | 9.30 |
| | | | Basic | 3,057 | 30.91 |
| | | | Proficient | 3,897 | 39.41 |
| | | | Advanced | 2,015 | 20.38 |
| | | | Total | 9,889 | 100.00 |
| | | Yes | Below Basic | 1,769 | 24.10 |
| | | | Basic | 3,288 | 44.80 |
| | | | Proficient | 1,881 | 25.63 |
| | | | Advanced | 401 | 5.46 |
| | | | Total | 7,339 | 100.00 |

**Table 9.18 (C) – Achievement Level Distributions by Free and Reduced Lunch Status, Spring 2012**

| Test Period | Subject | FRL | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | Below Basic | 1,699 | 4.61 |
| | | | Basic | 10,318 | 27.98 |
| | | | Proficient | 14,418 | 39.10 |
| | | | Advanced | 10,436 | 28.30 |
| | | | Total | 36,871 | 100.00 |
| | | Yes | Below Basic | 3,612 | 13.10 |
| | | | Basic | 11,960 | 43.37 |
| | | | Proficient | 8,826 | 32.01 |
| | | | Advanced | 3,177 | 11.52 |
| | | | Total | 27,575 | 100.00 |
| | Algebra II | No | Below Basic | 1,262 | 7.78 |
| | | | Basic | 4,871 | 30.02 |
| | | | Proficient | 6,930 | 42.70 |
| | | | Advanced | 3,165 | 19.50 |
| | | | Total | 16,228 | 100.00 |
| | | Yes | Below Basic | 1,529 | 17.14 |
| | | | Basic | 3,358 | 37.64 |
| | | | Proficient | 3,158 | 35.40 |
| | | | Advanced | 877 | 9.83 |
| | | | Total | 8,922 | 100.00 |
| | American History | No | Below Basic | 3,919 | 17.98 |
| | | | Basic | 5,314 | 24.38 |
| | | | Proficient | 9,337 | 42.83 |
| | | | Advanced | 3,228 | 14.81 |
| | | | Total | 21,798 | 100.00 |
| | | Yes | Below Basic | 5,856 | 34.91 |
| | | | Basic | 4,832 | 28.81 |
| | | | Proficient | 5,097 | 30.39 |
| | | | Advanced | 988 | 5.89 |
| | | | Total | 16,773 | 100.00 |
| | Biology | No | Below Basic | 1,504 | 4.16 |
| | | | Basic | 10,750 | 29.73 |
| | | | Proficient | 17,151 | 47.44 |
| | | | Advanced | 6,751 | 18.67 |
| | | | Total | 36,156 | 100.00 |
| | | Yes | Below Basic | 3,300 | 12.90 |
| | | | Basic | 11,772 | 46.00 |
| | | | Proficient | 8,694 | 33.97 |
| | | | Advanced | 1,824 | 7.13 |
| | | | Total | 25,590 | 100.00 |

**Table 9.18 (C) cont. – Achievement Level Distributions by Free and Reduced Lunch Status, Spring 2012**

| Test Period | Subject | FRL | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | English I | No | Below Basic | 1,290 | 5.22 |
| | | | Basic | 5,408 | 21.87 |
| | | | Proficient | 12,476 | 50.44 |
| | | | Advanced | 5,559 | 22.48 |
| | | | Total | 24,733 | 100.00 |
| | | Yes | Below Basic | 2,930 | 14.97 |
| | | | Basic | 7,096 | 36.26 |
| | | | Proficient | 7,688 | 39.28 |
| | | | Advanced | 1,856 | 9.48 |
| | | | Total | 19,570 | 100.00 |
| | English II | No | Below Basic | 956 | 2.61 |
| | | | Basic | 5,267 | 14.38 |
| | | | Proficient | 20,543 | 56.11 |
| | | | Advanced | 9,849 | 26.90 |
| | | | Total | 36,615 | 100.00 |
| | | Yes | Below Basic | 2,367 | 9.32 |
| | | | Basic | 7,434 | 29.26 |
| | | | Proficient | 12,993 | 51.13 |
| | | | Advanced | 2,616 | 10.30 |
| | | | Total | 25,410 | 100.00 |
| | Geometry | No | Below Basic | 1,450 | 8.00 |
| | | | Basic | 3,960 | 21.85 |
| | | | Proficient | 9,656 | 53.29 |
| | | | Advanced | 3,055 | 16.86 |
| | | | Total | 18,121 | 100.00 |
| | | Yes | Below Basic | 2,160 | 17.81 |
| | | | Basic | 3,699 | 30.49 |
| | | | Proficient | 5,368 | 44.25 |
| | | | Advanced | 903 | 7.44 |
| | | | Total | 12,130 | 100.00 |
| | Government | No | Below Basic | 1,148 | 4.74 |
| | | | Basic | 7,539 | 31.15 |
| | | | Proficient | 10,582 | 43.72 |
| | | | Advanced | 4,935 | 20.39 |
| | | | Total | 24,204 | 100.00 |
| | | Yes | Below Basic | 2,292 | 14.33 |
| | | | Basic | 7,749 | 48.45 |
| | | | Proficient | 4,809 | 30.07 |
| | | | Advanced | 1,145 | 7.16 |
| | | | Total | 15,995 | 100.00 |

**Table 9.19 (A) – Achievement Level Distributions by Limited English Proficient Status, Summer 2011**

| Test Period | Subject | LEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | Below Basic | 82 | 13.51 |
| | | | Basic | 322 | 53.05 |
| | | | Proficient | 161 | 26.52 |
| | | | Advanced | 42 | 6.92 |
| | | | Total | 607 | 100.00 |
| | | Yes | Below Basic | 3 | 13.64 |
| | | | Basic | 13 | 59.09 |
| | | | Proficient | 6 | 27.27 |
| | | | Advanced | -- | -- |
| | | | Total | 22 | 100.00 |
| | Algebra II | No | Below Basic | 57 | 45.97 |
| | | | Basic | 55 | 44.35 |
| | | | Proficient | 10 | 8.06 |
| | | | Advanced | 2 | 1.61 |
| | | | Total | 124 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | American History | No | Below Basic | 91 | 51.70 |
| | | | Basic | 47 | 26.70 |
| | | | Proficient | 34 | 19.32 |
| | | | Advanced | 4 | 2.27 |
| | | | Total | 176 | 100.00 |
| | | Yes | Below Basic | 6 | 66.67 |
| | | | Basic | 1 | 11.11 |
| | | | Proficient | 2 | 22.22 |
| | | | Advanced | -- | -- |
| | | | Total | 9 | 100.00 |
| | Biology | No | Below Basic | 55 | 20.00 |
| | | | Basic | 135 | 49.09 |
| | | | Proficient | 73 | 26.55 |
| | | | Advanced | 12 | 4.36 |
| | | | Total | 275 | 100.00 |
| | | Yes | Below Basic | 1 | 25.00 |
| | | | Basic | 2 | 50.00 |
| | | | Proficient | 1 | 25.00 |
| | | | Advanced | -- | -- |
| | | | Total | 4 | 100.00 |

**Table 9.19 (A) cont. – Achievement Level Distributions by Limited English Proficient Status, Summer 2011**

| Test Period | Subject | LEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | English I | No | Below Basic | 57 | 23.65 |
| | | | Basic | 110 | 45.64 |
| | | | Proficient | 61 | 25.31 |
| | | | Advanced | 13 | 5.39 |
| | | | Total | 241 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | 5 | 100.00 |
| | | | Advanced | -- | -- |
| | | | Total | 5 | 100.00 |
| | English II | No | Below Basic | 43 | 13.96 |
| | | | Basic | 131 | 42.53 |
| | | | Proficient | 118 | 38.31 |
| | | | Advanced | 16 | 5.19 |
| | | | Total | 308 | 100.00 |
| | | Yes | Below Basic | 1 | 20.00 |
| | | | Basic | 1 | 20.00 |
| | | | Proficient | 3 | 60.00 |
| | | | Advanced | 0 | 0.00 |
| | | | Total | 5 | 100.00 |
| | Geometry | No | Below Basic | 60 | 31.91 |
| | | | Basic | 76 | 40.43 |
| | | | Proficient | 45 | 23.94 |
| | | | Advanced | 7 | 3.72 |
| | | | Total | 188 | 100.00 |
| | | Yes | Below Basic | 1 | 25.00 |
| | | | Basic | 1 | 25.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | 2 | 50.00 |
| | | | Total | 4 | 100.00 |
| | Government | No | Below Basic | 62 | 7.83 |
| | | | Basic | 327 | 41.29 |
| | | | Proficient | 293 | 36.99 |
| | | | Advanced | 110 | 13.89 |
| | | | Total | 792 | 100.00 |
| | | Yes | Below Basic | 7 | 24.14 |
| | | | Basic | 15 | 51.72 |
| | | | Proficient | 4 | 13.79 |
| | | | Advanced | 3 | 10.34 |
| | | | Total | 29 | 100.00 |

**Table 9.19 (B) – Achievement Level Distributions by Limited English Proficient Status, Fall 2011**

| Test Period | Subject | LEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | Below Basic | 773 | 19.58 |
| | | | Basic | 1,193 | 30.23 |
| | | | Proficient | 1,109 | 28.10 |
| | | | Advanced | 872 | 22.09 |
| | | | Total | 3,947 | 100.00 |
| | | Yes | Below Basic | 21 | 40.38 |
| | | | Basic | 19 | 36.54 |
| | | | Proficient | 7 | 13.46 |
| | | | Advanced | 5 | 9.62 |
| | | | Total | 52 | 100.00 |
| | Algebra II | No | Below Basic | 41 | 8.04 |
| | | | Basic | 110 | 21.57 |
| | | | Proficient | 215 | 42.16 |
| | | | Advanced | 144 | 28.24 |
| | | | Total | 510 | 100.00 |
| | | Yes | Below Basic | 0 | 0.00 |
| | | | Basic | 2 | 50.00 |
| | | | Proficient | 1 | 25.00 |
| | | | Advanced | 1 | 25.00 |
| | | | Total | 4 | 100.00 |
| | American History | No | Below Basic | 207 | 25.34 |
| | | | Basic | 205 | 25.09 |
| | | | Proficient | 284 | 34.76 |
| | | | Advanced | 121 | 14.81 |
| | | | Total | 817 | 100.00 |
| | | Yes | Below Basic | 6 | 42.86 |
| | | | Basic | 4 | 28.57 |
| | | | Proficient | 3 | 21.43 |
| | | | Advanced | 1 | 7.14 |
| | | | Total | 14 | 100.00 |
| | Biology | No | Below Basic | 484 | 16.21 |
| | | | Basic | 1,245 | 41.71 |
| | | | Proficient | 913 | 30.59 |
| | | | Advanced | 343 | 11.49 |
| | | | Total | 2,985 | 100.00 |
| | | Yes | Below Basic | 17 | 38.64 |
| | | | Basic | 24 | 54.55 |
| | | | Proficient | 3 | 6.82 |
| | | | Advanced | 0 | 0.00 |
| | | | Total | 44 | 100.00 |

**Table 9.19 (B) cont. – Achievement Level Distributions by Limited English Proficient Status, Fall 2011**

| Test Period | Subject | LEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | English I | No | Below Basic | 39 | 18.06 |
| | | | Basic | 68 | 31.48 |
| | | | Proficient | 69 | 31.94 |
| | | | Advanced | 40 | 18.52 |
| | | | Total | 216 | 100.00 |
| | | Yes | Below Basic | 1 | 25.00 |
| | | | Basic | 1 | 25.00 |
| | | | Proficient | 2 | 50.00 |
| | | | Advanced | 0 | 0.00 |
| | | | Total | 4 | 100.00 |
| | English II | No | Below Basic | 373 | 12.55 |
| | | | Basic | 1,023 | 34.41 |
| | | | Proficient | 1,293 | 43.49 |
| | | | Advanced | 284 | 9.55 |
| | | | Total | 2,973 | 100.00 |
| | | Yes | Below Basic | 13 | 26.53 |
| | | | Basic | 27 | 55.10 |
| | | | Proficient | 8 | 16.33 |
| | | | Advanced | 1 | 2.04 |
| | | | Total | 49 | 100.00 |
| | Geometry | No | Below Basic | 125 | 17.34 |
| | | | Basic | 137 | 19.00 |
| | | | Proficient | 224 | 31.07 |
| | | | Advanced | 235 | 32.59 |
| | | | Total | 721 | 100.00 |
| | | Yes | Below Basic | 3 | 37.50 |
| | | | Basic | 3 | 37.50 |
| | | | Proficient | 2 | 25.00 |
| | | | Advanced | 0 | 0.00 |
| | | | Total | 8 | 100.00 |
| | Government | No | Below Basic | 2,560 | 15.13 |
| | | | Basic | 6,235 | 36.85 |
| | | | Proficient | 5,719 | 33.80 |
| | | | Advanced | 2,405 | 14.21 |
| | | | Total | 16,919 | 100.00 |
| | | Yes | Below Basic | 129 | 41.75 |
| | | | Basic | 110 | 35.60 |
| | | | Proficient | 59 | 19.09 |
| | | | Advanced | 11 | 3.56 |
| | | | Total | 309 | 100.00 |

**Table 9.19 (C) – Achievement Level Distributions by Limited English Proficient Status, Spring 2012**

| Test Period | Subject | LEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | Below Basic | 5,119 | 8.10 |
| | | | Basic | 21,693 | 34.34 |
| | | | Proficient | 22,910 | 36.27 |
| | | | Advanced | 13,450 | 21.29 |
| | | | Total | 63,172 | 100.00 |
| | | Yes | Below Basic | 192 | 15.07 |
| | | | Basic | 585 | 45.92 |
| | | | Proficient | 334 | 26.22 |
| | | | Advanced | 163 | 12.79 |
| | | | Total | 1,274 | 100.00 |
| | Algebra II | No | Below Basic | 2,683 | 10.79 |
| | | | Basic | 8,135 | 32.70 |
| | | | Proficient | 10,034 | 40.34 |
| | | | Advanced | 4,024 | 16.18 |
| | | | Total | 24,876 | 100.00 |
| | | Yes | Below Basic | 108 | 39.42 |
| | | | Basic | 94 | 34.31 |
| | | | Proficient | 54 | 19.71 |
| | | | Advanced | 18 | 6.57 |
| | | | Total | 274 | 100.00 |
| | American History | No | Below Basic | 9,449 | 24.85 |
| | | | Basic | 10,017 | 26.35 |
| | | | Proficient | 14,352 | 37.75 |
| | | | Advanced | 4,202 | 11.05 |
| | | | Total | 38,020 | 100.00 |
| | | Yes | Below Basic | 326 | 59.17 |
| | | | Basic | 129 | 23.41 |
| | | | Proficient | 82 | 14.88 |
| | | | Advanced | 14 | 2.54 |
| | | | Total | 551 | 100.00 |
| | Biology | No | Below Basic | 4,540 | 7.48 |
| | | | Basic | 21,994 | 36.23 |
| | | | Proficient | 25,638 | 42.23 |
| | | | Advanced | 8,541 | 14.07 |
| | | | Total | 60,713 | 100.00 |
| | | Yes | Below Basic | 264 | 25.56 |
| | | | Basic | 528 | 51.11 |
| | | | Proficient | 207 | 20.04 |
| | | | Advanced | 34 | 3.29 |
| | | | Total | 1,033 | 100.00 |

**Table 9.19 (C) cont. – Achievement Level Distributions by Limited English Proficient Status, Spring 2012**

| Test Period | Subject | LEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | English I | No | Below Basic | 4,038 | 9.26 |
| | | | Basic | 12,192 | 27.95 |
| | | | Proficient | 19,999 | 45.84 |
| | | | Advanced | 7,397 | 16.96 |
| | | | Total | 43,626 | 100.00 |
| | | Yes | Below Basic | 182 | 26.88 |
| | | | Basic | 312 | 46.09 |
| | | | Proficient | 165 | 24.37 |
| | | | Advanced | 18 | 2.66 |
| | | | Total | 677 | 100.00 |
| | English II | No | Below Basic | 3,118 | 5.11 |
| | | | Basic | 12,287 | 20.13 |
| | | | Proficient | 33,194 | 54.38 |
| | | | Advanced | 12,445 | 20.39 |
| | | | Total | 61,044 | 100.00 |
| | | Yes | Below Basic | 205 | 20.90 |
| | | | Basic | 414 | 42.20 |
| | | | Proficient | 342 | 34.86 |
| | | | Advanced | 20 | 2.04 |
| | | | Total | 981 | 100.00 |
| | Geometry | No | Below Basic | 3,471 | 11.64 |
| | | | Basic | 7,525 | 25.24 |
| | | | Proficient | 14,879 | 49.90 |
| | | | Advanced | 3,941 | 13.22 |
| | | | Total | 29,816 | 100.00 |
| | | Yes | Below Basic | 139 | 31.95 |
| | | | Basic | 134 | 30.80 |
| | | | Proficient | 145 | 33.33 |
| | | | Advanced | 17 | 3.91 |
| | | | Total | 435 | 100.00 |
| | Government | No | Below Basic | 3,264 | 8.24 |
| | | | Basic | 14,961 | 37.79 |
| | | | Proficient | 15,304 | 38.65 |
| | | | Advanced | 6,063 | 15.31 |
| | | | Total | 39,592 | 100.00 |
| | | Yes | Below Basic | 176 | 29.00 |
| | | | Basic | 327 | 53.87 |
| | | | Proficient | 87 | 14.33 |
| | | | Advanced | 17 | 2.80 |
| | | | Total | 607 | 100.00 |

**Table 9.20 (A) – Achievement Level Distributions by Title I Status, Summer 2011**

| Test Period | Subject | Title I | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | Below Basic | 74 | 13.78 |
| | | | Basic | 280 | 52.14 |
| | | | Proficient | 141 | 26.26 |
| | | | Advanced | 42 | 7.82 |
| | | | Total | 537 | 100.00 |
| | | Yes | Below Basic | 11 | 11.96 |
| | | | Basic | 55 | 59.78 |
| | | | Proficient | 26 | 28.26 |
| | | | Advanced | 0 | 0.00 |
| | | | Total | 92 | 100.00 |
| | Algebra II | No | Below Basic | 57 | 45.97 |
| | | | Basic | 55 | 44.35 |
| | | | Proficient | 10 | 8.06 |
| | | | Advanced | 2 | 1.61 |
| | | | Total | 124 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | American History | No | Below Basic | 97 | 52.43 |
| | | | Basic | 48 | 25.95 |
| | | | Proficient | 36 | 19.46 |
| | | | Advanced | 4 | 2.16 |
| | | | Total | 185 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | Biology | No | Below Basic | 41 | 17.23 |
| | | | Basic | 114 | 47.90 |
| | | | Proficient | 71 | 29.83 |
| | | | Advanced | 12 | 5.04 |
| | | | Total | 238 | 100.00 |
| | | Yes | Below Basic | 15 | 36.59 |
| | | | Basic | 23 | 56.10 |
| | | | Proficient | 3 | 7.32 |
| | | | Advanced | -- | -- |
| | | | Total | 41 | 100.00 |

**Table 9.20 (A) cont. – Achievement Level Distributions by Title I Status, Summer 2011**

| Test Period | Subject | Title I | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | English I | No | Below Basic | 57 | 23.17 |
| | | | Basic | 110 | 44.72 |
| | | | Proficient | 66 | 26.83 |
| | | | Advanced | 13 | 5.28 |
| | | | Total | 246 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | English II | No | Below Basic | 34 | 12.45 |
| | | | Basic | 115 | 42.12 |
| | | | Proficient | 110 | 40.29 |
| | | | Advanced | 14 | 5.13 |
| | | | Total | 273 | 100.00 |
| | | Yes | Below Basic | 10 | 25.00 |
| | | | Basic | 17 | 42.50 |
| | | | Proficient | 11 | 27.50 |
| | | | Advanced | 2 | 5.00 |
| | | | Total | 40 | 100.00 |
| | Geometry | No | Below Basic | 61 | 32.11 |
| | | | Basic | 77 | 40.53 |
| | | | Proficient | 43 | 22.63 |
| | | | Advanced | 9 | 4.74 |
| | | | Total | 190 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | 2 | 100.00 |
| | | | Advanced | -- | -- |
| | | | Total | 2 | 100.00 |
| | Government | No | Below Basic | 59 | 7.59 |
| | | | Basic | 325 | 41.83 |
| | | | Proficient | 285 | 36.68 |
| | | | Advanced | 108 | 13.90 |
| | | | Total | 777 | 100.00 |
| | | Yes | Below Basic | 10 | 22.73 |
| | | | Basic | 17 | 38.64 |
| | | | Proficient | 12 | 27.27 |
| | | | Advanced | 5 | 11.36 |
| | | | Total | 44 | 100.00 |

**Table 9.20 (B) – Achievement Level Distributions by Title I Status, Fall 2011**

| Test Period | Subject | Title I | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | Below Basic | 742 | 19.03 |
| | | | Basic | 1,185 | 30.39 |
| | | | Proficient | 1,096 | 28.11 |
| | | | Advanced | 876 | 22.47 |
| | | | Total | 3,899 | 100.00 |
| | | Yes | Below Basic | 52 | 52.00 |
| | | | Basic | 27 | 27.00 |
| | | | Proficient | 20 | 20.00 |
| | | | Advanced | 1 | 1.00 |
| | | | Total | 100 | 100.00 |
| | Algebra II | No | Below Basic | 41 | 7.98 |
| | | | Basic | 112 | 21.79 |
| | | | Proficient | 216 | 42.02 |
| | | | Advanced | 145 | 28.21 |
| | | | Total | 514 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | -- | -- |
| | American History | No | Below Basic | 211 | 25.45 |
| | | | Basic | 209 | 25.21 |
| | | | Proficient | 287 | 34.62 |
| | | | Advanced | 122 | 14.72 |
| | | | Total | 829 | 100.00 |
| | | Yes | Below Basic | 2 | 100.00 |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 2 | 100.00 |
| | Biology | No | Below Basic | 458 | 15.71 |
| | | | Basic | 1,208 | 41.44 |
| | | | Proficient | 906 | 31.08 |
| | | | Advanced | 343 | 11.77 |
| | | | Total | 2,915 | 100.00 |
| | | Yes | Below Basic | 43 | 37.72 |
| | | | Basic | 61 | 53.51 |
| | | | Proficient | 10 | 8.77 |
| | | | Advanced | -- | -- |
| | | | Total | 114 | 100.00 |

**Table 9.20 (B) cont. – Achievement Level Distributions by Title I Status, Fall 2011**

| Test Period | Subject | Title I | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | English I | No | Below Basic | 40 | 18.26 |
| | | | Basic | 68 | 31.05 |
| | | | Proficient | 71 | 32.42 |
| | | | Advanced | 40 | 18.26 |
| | | | Total | 219 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | 1 | 100.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |
| | English II | No | Below Basic | 355 | 12.25 |
| | | | Basic | 982 | 33.87 |
| | | | Proficient | 1,280 | 44.15 |
| | | | Advanced | 282 | 9.73 |
| | | | Total | 2,899 | 100.00 |
| | | Yes | Below Basic | 31 | 25.20 |
| | | | Basic | 68 | 55.28 |
| | | | Proficient | 21 | 17.07 |
| | | | Advanced | 3 | 2.44 |
| | | | Total | 123 | 100.00 |
| | Geometry | No | Below Basic | 112 | 15.77 |
| | | | Basic | 137 | 19.30 |
| | | | Proficient | 226 | 31.83 |
| | | | Advanced | 235 | 33.10 |
| | | | Total | 710 | 100.00 |
| | | Yes | Below Basic | 16 | 84.21 |
| | | | Basic | 3 | 15.79 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 19 | 100.00 |
| | Government | No | Below Basic | 2,345 | 14.64 |
| | | | Basic | 5,846 | 36.49 |
| | | | Proficient | 5,479 | 34.20 |
| | | | Advanced | 2,351 | 14.67 |
| | | | Total | 16,021 | 100.00 |
| | | Yes | Below Basic | 344 | 28.50 |
| | | | Basic | 499 | 41.34 |
| | | | Proficient | 299 | 24.77 |
| | | | Advanced | 65 | 5.39 |
| | | | Total | 1,207 | 100.00 |

**Table 9.20 (C) – Achievement Level Distributions by Title I Status, Spring 2012**

| Test Period | Subject | Title I | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | Below Basic | 4,513 | 7.57 |
| | | | Basic | 20,298 | 34.04 |
| | | | Proficient | 21,855 | 36.65 |
| | | | Advanced | 12,971 | 21.75 |
| | | | Total | 59,637 | 100.00 |
| | | Yes | Below Basic | 798 | 16.59 |
| | | | Basic | 1,980 | 41.17 |
| | | | Proficient | 1,389 | 28.88 |
| | | | Advanced | 642 | 13.35 |
| | | | Total | 4,809 | 100.00 |
| | Algebra II | No | Below Basic | 2,261 | 9.58 |
| | | | Basic | 7,629 | 32.33 |
| | | | Proficient | 9,730 | 41.24 |
| | | | Advanced | 3,974 | 16.84 |
| | | | Total | 23,594 | 100.00 |
| | | Yes | Below Basic | 530 | 34.06 |
| | | | Basic | 600 | 38.56 |
| | | | Proficient | 358 | 23.01 |
| | | | Advanced | 68 | 4.37 |
| | | | Total | 1,556 | 100.00 |
| | American History | No | Below Basic | 9,117 | 24.84 |
| | | | Basic | 9,586 | 26.12 |
| | | | Proficient | 13,880 | 37.82 |
| | | | Advanced | 4,115 | 11.21 |
| | | | Total | 36,698 | 100.00 |
| | | Yes | Below Basic | 658 | 35.13 |
| | | | Basic | 560 | 29.90 |
| | | | Proficient | 554 | 29.58 |
| | | | Advanced | 101 | 5.39 |
| | | | Total | 1,873 | 100.00 |
| | Biology | No | Below Basic | 4,016 | 6.93 |
| | | | Basic | 20,618 | 35.58 |
| | | | Proficient | 24,896 | 42.97 |
| | | | Advanced | 8,414 | 14.52 |
| | | | Total | 57,944 | 100.00 |
| | | Yes | Below Basic | 788 | 20.73 |
| | | | Basic | 1,904 | 50.08 |
| | | | Proficient | 949 | 24.96 |
| | | | Advanced | 161 | 4.23 |
| | | | Total | 3,802 | 100.00 |

**Table 9.20 (C) cont. – Achievement Level Distributions by Title I Status, Spring 2012**

| Test Period | Subject | Title I | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | English I | No | Below Basic | 3,844 | 9.13 |
| | | | Basic | 11,676 | 27.74 |
| | | | Proficient | 19,358 | 45.99 |
| | | | Advanced | 7,213 | 17.14 |
| | | | Total | 42,091 | 100.00 |
| | | Yes | Below Basic | 376 | 17.00 |
| | | | Basic | 828 | 37.43 |
| | | | Proficient | 806 | 36.44 |
| | | | Advanced | 202 | 9.13 |
| | | | Total | 2,212 | 100.00 |
| | English II | No | Below Basic | 2,790 | 4.81 |
| | | | Basic | 11,386 | 19.65 |
| | | | Proficient | 31,690 | 54.68 |
| | | | Advanced | 12,088 | 20.86 |
| | | | Total | 57,954 | 100.00 |
| | | Yes | Below Basic | 533 | 13.09 |
| | | | Basic | 1,315 | 32.30 |
| | | | Proficient | 1,846 | 45.35 |
| | | | Advanced | 377 | 9.26 |
| | | | Total | 4,071 | 100.00 |
| | Geometry | No | Below Basic | 3,142 | 10.97 |
| | | | Basic | 7,115 | 24.84 |
| | | | Proficient | 14,506 | 50.64 |
| | | | Advanced | 3,885 | 13.56 |
| | | | Total | 28,648 | 100.00 |
| | | Yes | Below Basic | 468 | 29.20 |
| | | | Basic | 544 | 33.94 |
| | | | Proficient | 518 | 32.31 |
| | | | Advanced | 73 | 4.55 |
| | | | Total | 1,603 | 100.00 |
| | Government | No | Below Basic | 2,918 | 7.63 |
| | | | Basic | 14,304 | 37.42 |
| | | | Proficient | 15,014 | 39.28 |
| | | | Advanced | 5,988 | 15.67 |
| | | | Total | 38,224 | 100.00 |
| | | Yes | Below Basic | 522 | 26.43 |
| | | | Basic | 984 | 49.82 |
| | | | Proficient | 377 | 19.09 |
| | | | Advanced | 92 | 4.66 |
| | | | Total | 1,975 | 100.00 |

**Table 9.21 (A) – Achievement Level Distributions by IEP Status, Summer 2011**

| Test Period | Subject | IEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | Below Basic | 63 | 11.58 |
| | | | Basic | 289 | 53.13 |
| | | | Proficient | 150 | 27.57 |
| | | | Advanced | 42 | 7.72 |
| | | | Total | 544 | 100.00 |
| | | Yes | Below Basic | 22 | 25.88 |
| | | | Basic | 46 | 54.12 |
| | | | Proficient | 17 | 20.00 |
| | | | Advanced | -- | -- |
| | | | Total | 85 | 100.00 |
| | Algebra II | No | Below Basic | 47 | 43.12 |
| | | | Basic | 51 | 46.79 |
| | | | Proficient | 9 | 8.26 |
| | | | Advanced | 2 | 1.83 |
| | | | Total | 109 | 100.00 |
| | | Yes | Below Basic | 10 | 66.67 |
| | | | Basic | 4 | 26.67 |
| | | | Proficient | 1 | 6.67 |
| | | | Advanced | -- | -- |
| | | | Total | 15 | 100.00 |
| | American History | No | Below Basic | 77 | 48.43 |
| | | | Basic | 44 | 27.67 |
| | | | Proficient | 34 | 21.38 |
| | | | Advanced | 4 | 2.52 |
| | | | Total | 159 | 100.00 |
| | | Yes | Below Basic | 20 | 76.92 |
| | | | Basic | 4 | 15.38 |
| | | | Proficient | 2 | 7.69 |
| | | | Advanced | 0 | 0.00 |
| | | | Total | 26 | 100.00 |
| | Biology | No | Below Basic | 49 | 20.00 |
| | | | Basic | 117 | 47.76 |
| | | | Proficient | 67 | 27.35 |
| | | | Advanced | 12 | 4.90 |
| | | | Total | 245 | 100.00 |
| | | Yes | Below Basic | 7 | 20.59 |
| | | | Basic | 20 | 58.82 |
| | | | Proficient | 7 | 20.59 |
| | | | Advanced | -- | -- |
| | | | Total | 34 | 100.00 |

**Table 9.21(A) cont. – Achievement Level Distributions by IEP Status, Summer 2011**

| Test Period | Subject | IEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | English I | No | Below Basic | 46 | 20.72 |
| | | | Basic | 101 | 45.50 |
| | | | Proficient | 63 | 28.38 |
| | | | Advanced | 12 | 5.41 |
| | | | Total | 222 | 100.00 |
| | | Yes | Below Basic | 11 | 45.83 |
| | | | Basic | 9 | 37.50 |
| | | | Proficient | 3 | 12.50 |
| | | | Advanced | 1 | 4.17 |
| | | | Total | 24 | 100.00 |
| | English II | No | Below Basic | 34 | 12.73 |
| | | | Basic | 109 | 40.82 |
| | | | Proficient | 108 | 40.45 |
| | | | Advanced | 16 | 5.99 |
| | | | Total | 267 | 100.00 |
| | | Yes | Below Basic | 10 | 21.74 |
| | | | Basic | 23 | 50.00 |
| | | | Proficient | 13 | 28.26 |
| | | | Advanced | -- | -- |
| | | | Total | 46 | 100.00 |
| | Geometry | No | Below Basic | 53 | 30.29 |
| | | | Basic | 70 | 40.00 |
| | | | Proficient | 44 | 25.14 |
| | | | Advanced | 8 | 4.57 |
| | | | Total | 175 | 100.00 |
| | | Yes | Below Basic | 8 | 47.06 |
| | | | Basic | 7 | 41.18 |
| | | | Proficient | 1 | 5.88 |
| | | | Advanced | 1 | 5.88 |
| | | | Total | 17 | 100.00 |
| | Government | No | Below Basic | 47 | 6.37 |
| | | | Basic | 297 | 40.24 |
| | | | Proficient | 286 | 38.75 |
| | | | Advanced | 108 | 14.63 |
| | | | Total | 738 | 100.00 |
| | | Yes | Below Basic | 22 | 26.51 |
| | | | Basic | 45 | 54.22 |
| | | | Proficient | 11 | 13.25 |
| | | | Advanced | 5 | 6.02 |
| | | | Total | 83 | 100.00 |

**Table 9.21 (B) – Achievement Level Distributions by IEP Status, Fall 2011**

| Test Period | Subject | IEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | Below Basic | 567 | 15.83 |
| | | | Basic | 1,066 | 29.77 |
| | | | Proficient | 1,076 | 30.05 |
| | | | Advanced | 872 | 24.35 |
| | | | Total | 3,581 | 100.00 |
| | | Yes | Below Basic | 227 | 54.31 |
| | | | Basic | 146 | 34.93 |
| | | | Proficient | 40 | 9.57 |
| | | | Advanced | 5 | 1.20 |
| | | | Total | 418 | 100.00 |
| | Algebra II | No | Below Basic | 35 | 7.10 |
| | | | Basic | 108 | 21.91 |
| | | | Proficient | 207 | 41.99 |
| | | | Advanced | 143 | 29.01 |
| | | | Total | 493 | 100.00 |
| | | Yes | Below Basic | 6 | 28.57 |
| | | | Basic | 4 | 19.05 |
| | | | Proficient | 9 | 42.86 |
| | | | Advanced | 2 | 9.52 |
| | | | Total | 21 | 100.00 |
| | American History | No | Below Basic | 142 | 19.75 |
| | | | Basic | 191 | 26.56 |
| | | | Proficient | 270 | 37.55 |
| | | | Advanced | 116 | 16.13 |
| | | | Total | 719 | 100.00 |
| | | Yes | Below Basic | 71 | 63.39 |
| | | | Basic | 18 | 16.07 |
| | | | Proficient | 17 | 15.18 |
| | | | Advanced | 6 | 5.36 |
| | | | Total | 112 | 100.00 |
| | Biology | No | Below Basic | 371 | 14.03 |
| | | | Basic | 1,084 | 41.00 |
| | | | Proficient | 866 | 32.75 |
| | | | Advanced | 323 | 12.22 |
| | | | Total | 2,644 | 100.00 |
| | | Yes | Below Basic | 130 | 33.77 |
| | | | Basic | 185 | 48.05 |
| | | | Proficient | 50 | 12.99 |
| | | | Advanced | 20 | 5.19 |
| | | | Total | 385 | 100.00 |

**Table 9.21 (B) cont. – Achievement Level Distributions by IEP Status, Fall 2011**

| Test Period | Subject | IEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | English I | No | Below Basic | 28 | 14.89 |
| | | | Basic | 57 | 30.32 |
| | | | Proficient | 65 | 34.57 |
| | | | Advanced | 38 | 20.21 |
| | | | Total | 188 | 100.00 |
| | | Yes | Below Basic | 12 | 37.50 |
| | | | Basic | 12 | 37.50 |
| | | | Proficient | 6 | 18.75 |
| | | | Advanced | 2 | 6.25 |
| | | | Total | 32 | 100.00 |
| | English II | No | Below Basic | 258 | 9.84 |
| | | | Basic | 857 | 32.70 |
| | | | Proficient | 1,226 | 46.78 |
| | | | Advanced | 280 | 10.68 |
| | | | Total | 2,621 | 100.00 |
| | | Yes | Below Basic | 128 | 31.92 |
| | | | Basic | 193 | 48.13 |
| | | | Proficient | 75 | 18.70 |
| | | | Advanced | 5 | 1.25 |
| | | | Total | 401 | 100.00 |
| | Geometry | No | Below Basic | 111 | 16.02 |
| | | | Basic | 133 | 19.19 |
| | | | Proficient | 217 | 31.31 |
| | | | Advanced | 232 | 33.48 |
| | | | Total | 693 | 100.00 |
| | | Yes | Below Basic | 17 | 47.22 |
| | | | Basic | 7 | 19.44 |
| | | | Proficient | 9 | 25.00 |
| | | | Advanced | 3 | 8.33 |
| | | | Total | 36 | 100.00 |
| | Government | No | Below Basic | 2,004 | 12.96 |
| | | | Basic | 5,620 | 36.34 |
| | | | Proficient | 5,496 | 35.54 |
| | | | Advanced | 2,346 | 15.17 |
| | | | Total | 15,466 | 100.00 |
| | | Yes | Below Basic | 685 | 38.88 |
| | | | Basic | 725 | 41.15 |
| | | | Proficient | 282 | 16.00 |
| | | | Advanced | 70 | 3.97 |
| | | | Total | 1,762 | 100.00 |

**Table 9.21 (C) – Achievement Level Distributions by IEP Status, Spring 2012**

| Test Period | Subject | IEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | Below Basic | 3,113 | 5.37 |
| | | | Basic | 19,286 | 33.29 |
| | | | Proficient | 22,204 | 38.32 |
| | | | Advanced | 13,338 | 23.02 |
| | | | Total | 57,941 | 100.00 |
| | | Yes | Below Basic | 2,198 | 33.79 |
| | | | Basic | 2,992 | 46.00 |
| | | | Proficient | 1,040 | 15.99 |
| | | | Advanced | 275 | 4.23 |
| | | | Total | 6,505 | 100.00 |
| | Algebra II | No | Below Basic | 2,533 | 10.47 |
| | | | Basic | 7,891 | 32.61 |
| | | | Proficient | 9,816 | 40.57 |
| | | | Advanced | 3,958 | 16.36 |
| | | | Total | 24,198 | 100.00 |
| | | Yes | Below Basic | 258 | 27.10 |
| | | | Basic | 338 | 35.50 |
| | | | Proficient | 272 | 28.57 |
| | | | Advanced | 84 | 8.82 |
| | | | Total | 952 | 100.00 |
| | American History | No | Below Basic | 7,890 | 22.26 |
| | | | Basic | 9,478 | 26.74 |
| | | | Proficient | 13,965 | 39.40 |
| | | | Advanced | 4,109 | 11.59 |
| | | | Total | 35,442 | 100.00 |
| | | Yes | Below Basic | 1,885 | 60.24 |
| | | | Basic | 668 | 21.35 |
| | | | Proficient | 469 | 14.99 |
| | | | Advanced | 107 | 3.42 |
| | | | Total | 3,129 | 100.00 |
| | Biology | No | Below Basic | 3,077 | 5.57 |
| | | | Basic | 19,276 | 34.89 |
| | | | Proficient | 24,563 | 44.46 |
| | | | Advanced | 8,329 | 15.08 |
| | | | Total | 55,245 | 100.00 |
| | | Yes | Below Basic | 1,727 | 26.57 |
| | | | Basic | 3,246 | 49.93 |
| | | | Proficient | 1,282 | 19.72 |
| | | | Advanced | 246 | 3.78 |
| | | | Total | 6,501 | 100.00 |

**Table 9.21 (C) cont. – Achievement Level Distributions by IEP Status, Spring 2012**

| Test Period | Subject | IEP | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | English I | No | Below Basic | 2,774 | 6.83 |
| | | | Basic | 11,087 | 27.31 |
| | | | Proficient | 19,478 | 47.98 |
| | | | Advanced | 72,59 | 17.88 |
| | | | Total | 40,598 | 100.00 |
| | | Yes | Below Basic | 1,446 | 39.03 |
| | | | Basic | 1,417 | 38.25 |
| | | | Proficient | 686 | 18.52 |
| | | | Advanced | 156 | 4.21 |
| | | | Total | 3,705 | 100.00 |
| | English II | No | Below Basic | 1,637 | 2.96 |
| | | | Basic | 9,949 | 17.98 |
| | | | Proficient | 31,557 | 57.04 |
| | | | Advanced | 12,181 | 22.02 |
| | | | Total | 55,324 | 100.00 |
| | | Yes | Below Basic | 1,686 | 25.16 |
| | | | Basic | 2,752 | 41.07 |
| | | | Proficient | 1,979 | 29.53 |
| | | | Advanced | 284 | 4.24 |
| | | | Total | 6,701 | 100.00 |
| | Geometry | No | Below Basic | 2,986 | 10.46 |
| | | | Basic | 7,123 | 24.96 |
| | | | Proficient | 14,525 | 50.90 |
| | | | Advanced | 3,901 | 13.67 |
| | | | Total | 28,535 | 100.00 |
| | | Yes | Below Basic | 624 | 36.36 |
| | | | Basic | 536 | 31.24 |
| | | | Proficient | 499 | 29.08 |
| | | | Advanced | 57 | 3.32 |
| | | | Total | 1,716 | 100.00 |
| | Government | No | Below Basic | 2,270 | 6.33 |
| | | | Basic | 13,170 | 36.73 |
| | | | Proficient | 14,568 | 40.63 |
| | | | Advanced | 5,846 | 16.31 |
| | | | Total | 35,854 | 100.00 |
| | | Yes | Below Basic | 1,170 | 26.93 |
| | | | Basic | 2,118 | 48.75 |
| | | | Proficient | 823 | 18.94 |
| | | | Advanced | 234 | 5.39 |
| | | | Total | 4,345 | 100.00 |

**Table 9.22 (A) – Achievement Level Distributions by Accommodations Status, Summer 2011**

| Test Period | Subject | Accommodations | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | Algebra I | No | Below Basic | 79 | 12.82 |
| | | | Basic | 328 | 53.25 |
| | | | Proficient | 167 | 27.11 |
| | | | Advanced | 42 | 6.82 |
| | | | Total | 616 | 100.00 |
| | | Yes | Below Basic | 6 | 46.15 |
| | | | Basic | 7 | 53.85 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 13 | 100.00 |
| | Algebra II | No | Below Basic | 56 | 45.90 |
| | | | Basic | 55 | 45.08 |
| | | | Proficient | 9 | 7.38 |
| | | | Advanced | 2 | 1.64 |
| | | | Total | 122 | 100.00 |
| | | Yes | Below Basic | 1 | 50.00 |
| | | | Basic | -- | -- |
| | | | Proficient | 1 | 50.00 |
| | | | Advanced | -- | -- |
| | | | Total | 2 | 100.00 |
| | American History | No | Below Basic | 96 | 52.17 |
| | | | Basic | 48 | 26.09 |
| | | | Proficient | 36 | 19.57 |
| | | | Advanced | 4 | 2.17 |
| | | | Total | 184 | 100.00 |
| | | Yes | Below Basic | 1 | 100.00 |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |
| | Biology | No | Below Basic | 55 | 20.30 |
| | | | Basic | 132 | 48.71 |
| | | | Proficient | 72 | 26.57 |
| | | | Advanced | 12 | 4.43 |
| | | | Total | 271 | 100.00 |
| | | Yes | Below Basic | 1 | 12.50 |
| | | | Basic | 5 | 62.50 |
| | | | Proficient | 2 | 25.00 |
| | | | Advanced | -- | -- |
| | | | Total | 8 | 100.00 |

**Table 9.22 (A) cont. – Achievement Level Distributions by Accommodations Status, Summer 2011**

| Test Period | Subject | Accommodations | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Summer 2011 | English I | No | Below Basic | 56 | 23.14 |
| | | | Basic | 107 | 44.21 |
| | | | Proficient | 66 | 27.27 |
| | | | Advanced | 13 | 5.37 |
| | | | Total | 242 | 100.00 |
| | | Yes | Below Basic | 1 | 25.00 |
| | | | Basic | 3 | 75.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 4 | 100.00 |
| | English II | No | Below Basic | 44 | 14.10 |
| | | | Basic | 131 | 41.99 |
| | | | Proficient | 121 | 38.78 |
| | | | Advanced | 16 | 5.13 |
| | | | Total | 312 | 100.00 |
| | | Yes | Below Basic | -- | -- |
| | | | Basic | 1 | 100.00 |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |
| | Geometry | No | Below Basic | 60 | 32.43 |
| | | | Basic | 73 | 39.46 |
| | | | Proficient | 44 | 23.78 |
| | | | Advanced | 8 | 4.32 |
| | | | Total | 185 | 100.00 |
| | | Yes | Below Basic | 1 | 14.29 |
| | | | Basic | 4 | 57.14 |
| | | | Proficient | 1 | 14.29 |
| | | | Advanced | 1 | 14.29 |
| | | | Total | 7 | 100.00 |
| | Government | No | Below Basic | 63 | 7.88 |
| | | | Basic | 328 | 41.05 |
| | | | Proficient | 295 | 36.92 |
| | | | Advanced | 113 | 14.14 |
| | | | Total | 799 | 100.00 |
| | | Yes | Below Basic | 6 | 27.27 |
| | | | Basic | 14 | 63.64 |
| | | | Proficient | 2 | 9.09 |
| | | | Advanced | -- | -- |
| | | | Total | 22 | 100.00 |

**Table 9.22 (B) – Achievement Level Distributions by Accommodations Status, Fall 2011**

| Test Period | Subject | Accommodations | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | Algebra I | No | Below Basic | 735 | 18.99 |
| | | | Basic | 1,154 | 29.81 |
| | | | Proficient | 1,107 | 28.60 |
| | | | Advanced | 875 | 22.60 |
| | | | Total | 3,871 | 100.00 |
| | | Yes | Below Basic | 59 | 46.09 |
| | | | Basic | 58 | 45.31 |
| | | | Proficient | 9 | 7.03 |
| | | | Advanced | 2 | 1.56 |
| | | | Total | 128 | 100.00 |
| | Algebra II | No | Below Basic | 40 | 7.80 |
| | | | Basic | 112 | 21.83 |
| | | | Proficient | 216 | 42.11 |
| | | | Advanced | 145 | 28.27 |
| | | | Total | 513 | 100.00 |
| | | Yes | Below Basic | 1 | 100.00 |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 1 | 100.00 |
| | American History | No | Below Basic | 182 | 23.10 |
| | | | Basic | 201 | 25.51 |
| | | | Proficient | 284 | 36.04 |
| | | | Advanced | 121 | 15.36 |
| | | | Total | 788 | 100.00 |
| | | Yes | Below Basic | 31 | 72.09 |
| | | | Basic | 8 | 18.60 |
| | | | Proficient | 3 | 6.98 |
| | | | Advanced | 1 | 2.33 |
| | | | Total | 43 | 100.00 |
| | Biology | No | Below Basic | 462 | 15.81 |
| | | | Basic | 1,211 | 41.44 |
| | | | Proficient | 907 | 31.04 |
| | | | Advanced | 342 | 11.70 |
| | | | Total | 2,922 | 100.00 |
| | | Yes | Below Basic | 39 | 36.45 |
| | | | Basic | 58 | 54.21 |
| | | | Proficient | 9 | 8.41 |
| | | | Advanced | 1 | 0.93 |
| | | | Total | 107 | 100.00 |

**Table 9.22 (B) cont. – Achievement Level Distributions by Accommodations Status, Fall 2011**

| Test Period | Subject | Accommodations | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Fall 2011 | English I | No | Below Basic | 38 | 17.43 |
| | | | Basic | 69 | 31.65 |
| | | | Proficient | 71 | 32.57 |
| | | | Advanced | 40 | 18.35 |
| | | | Total | 218 | 100.00 |
| | | Yes | Below Basic | 2 | 100.00 |
| | | | Basic | -- | -- |
| | | | Proficient | -- | -- |
| | | | Advanced | -- | -- |
| | | | Total | 2 | 100.00 |
| | English II | No | Below Basic | 371 | 12.47 |
| | | | Basic | 1,022 | 34.35 |
| | | | Proficient | 1,297 | 43.60 |
| | | | Advanced | 285 | 9.58 |
| | | | Total | 2,975 | 100.00 |
| | | Yes | Below Basic | 15 | 31.91 |
| | | | Basic | 28 | 59.57 |
| | | | Proficient | 4 | 8.51 |
| | | | Advanced | -- | -- |
| | | | Total | 47 | 100.00 |
| | Geometry | No | Below Basic | 123 | 17.08 |
| | | | Basic | 138 | 19.17 |
| | | | Proficient | 224 | 31.11 |
| | | | Advanced | 235 | 32.64 |
| | | | Total | 720 | 100.00 |
| | | Yes | Below Basic | 5 | 55.56 |
| | | | Basic | 2 | 22.22 |
| | | | Proficient | 2 | 22.22 |
| | | | Advanced | -- | -- |
| | | | Total | 9 | 100.00 |
| | Government | No | Below Basic | 2,419 | 14.57 |
| | | | Basic | 6,066 | 36.54 |
| | | | Proficient | 5,713 | 34.41 |
| | | | Advanced | 2,404 | 14.48 |
| | | | Total | 16,602 | 100.00 |
| | | Yes | Below Basic | 270 | 43.13 |
| | | | Basic | 279 | 44.57 |
| | | | Proficient | 65 | 10.38 |
| | | | Advanced | 12 | 1.92 |
| | | | Total | 626 | 100.00 |

**Table 9.22 (C) – Achievement Level Distributions by Accommodations Status, Spring 2012**

| Test Period | Subject | Accommodations | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | Algebra I | No | Below Basic | 4,296 | 6.95 |
| | | | Basic | 21,007 | 34.00 |
| | | | Proficient | 22,929 | 37.11 |
| | | | Advanced | 13,560 | 21.94 |
| | | | Total | 61,792 | 100.00 |
| | | Yes | Below Basic | 1,015 | 38.24 |
| | | | Basic | 1,271 | 47.89 |
| | | | Proficient | 315 | 11.87 |
| | | | Advanced | 53 | 2.00 |
| | | | Total | 2,654 | 100.00 |
| | Algebra II | No | Below Basic | 2,716 | 10.90 |
| | | | Basic | 8,131 | 32.62 |
| | | | Proficient | 10,045 | 40.30 |
| | | | Advanced | 4,033 | 16.18 |
| | | | Total | 24,925 | 100.00 |
| | | Yes | Below Basic | 75 | 33.33 |
| | | | Basic | 98 | 43.56 |
| | | | Proficient | 43 | 19.11 |
| | | | Advanced | 9 | 4.00 |
| | | | Total | 225 | 100.00 |
| | American History | No | Below Basic | 8,819 | 23.77 |
| | | | Basic | 9,847 | 26.54 |
| | | | Proficient | 14,244 | 38.40 |
| | | | Advanced | 4,187 | 11.29 |
| | | | Total | 3,7097 | 100.00 |
| | | Yes | Below Basic | 956 | 64.86 |
| | | | Basic | 299 | 20.28 |
| | | | Proficient | 190 | 12.89 |
| | | | Advanced | 29 | 1.97 |
| | | | Total | 1474 | 100.00 |
| | Biology | No | Below Basic | 3,854 | 6.56 |
| | | | Basic | 20,979 | 35.73 |
| | | | Proficient | 25,365 | 43.20 |
| | | | Advanced | 8,521 | 14.51 |
| | | | Total | 58,719 | 100.00 |
| | | Yes | Below Basic | 950 | 31.38 |
| | | | Basic | 1,543 | 50.97 |
| | | | Proficient | 480 | 15.86 |
| | | | Advanced | 54 | 1.78 |
| | | | Total | 3,027 | 100.00 |

**Table 9.22 (C) cont. – Achievement Level Distributions by Accommodations Status, Spring 2012**

| Test Period | Subject | Accommodations | Achievement Level | Frequency | Percent |
|---|---|---|---|---|---|
| Spring 2012 | English I | No | Below Basic | 3,773 | 8.70 |
| | | | Basic | 12,157 | 28.04 |
| | | | Proficient | 20,026 | 46.19 |
| | | | Advanced | 7,396 | 17.06 |
| | | | Total | 43,352 | 100.00 |
| | | Yes | Below Basic | 447 | 47.00 |
| | | | Basic | 347 | 36.49 |
| | | | Proficient | 138 | 14.51 |
| | | | Advanced | 19 | 2.00 |
| | | | Total | 951 | 100.00 |
| | English II | No | Below Basic | 2,761 | 4.57 |
| | | | Basic | 11,990 | 19.87 |
| | | | Proficient | 33,167 | 54.96 |
| | | | Advanced | 12,435 | 20.60 |
| | | | Total | 60,353 | 100.00 |
| | | Yes | Below Basic | 562 | 33.63 |
| | | | Basic | 711 | 42.55 |
| | | | Proficient | 369 | 22.08 |
| | | | Advanced | 29 | 1.74 |
| | | | Total | 1,671 | 100.00 |
| | Geometry | No | Below Basic | 3,393 | 11.42 |
| | | | Basic | 7,475 | 25.15 |
| | | | Proficient | 14,906 | 50.15 |
| | | | Advanced | 3,946 | 13.28 |
| | | | Total | 29,720 | 100.00 |
| | | Yes | Below Basic | 217 | 40.87 |
| | | | Basic | 184 | 34.65 |
| | | | Proficient | 118 | 22.22 |
| | | | Advanced | 12 | 2.26 |
| | | | Total | 531 | 100.00 |
| | Government | No | Below Basic | 2,800 | 7.33 |
| | | | Basic | 14,223 | 37.22 |
| | | | Proficient | 15,134 | 39.61 |
| | | | Advanced | 6,052 | 15.84 |
| | | | Total | 38,209 | 100.00 |
| | | Yes | Below Basic | 640 | 32.16 |
| | | | Basic | 1,065 | 53.52 |
| | | | Proficient | 257 | 12.91 |
| | | | Advanced | 28 | 1.41 |
| | | | Total | 1,990 | 100.00 |

## 10.3 Evidence of Raw-Score Internal Consistency

Tables 10.1 – 10.24 show the reliability coefficients (Cronbach's alpha) and standard errors of measurement (SEMs) based on the raw-score metric for the total population and for select student subgroups.

**Table 10.1 – Alpha Coefficients and Standard Errors of Measurement for Algebra I, Summer 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 629 | 18.29 | 5.90 | 2.62 | -- | 0.80 |
| Gender | Female | 277 | 17.41 | 5.41 | 2.66 | 0.27 | 0.76 |
| | Male | 352 | 18.97 | 6.18 | 2.59 | -- | 0.82 |
| Ethnicity | American Indian/ Alaskan Native | 3 | 17.00 | 4.00 | -- | -- | -- |
| | Asian | 11 | 18.82 | 5.29 | -- | -- | -- |
| | Pacific Islander | 2 | 21.50 | 6.36 | -- | -- | -- |
| | Black (not Hispanic) | 286 | 16.62 | 4.95 | 2.67 | 0.55 | 0.71 |
| | Hispanic | 29 | 19.28 | 5.16 | -- | -- | -- |
| | White (not Hispanic) | 291 | 19.79 | 6.42 | 2.57 | -- | 0.84 |
| | Multiracial | 7 | 18.43 | 7.87 | -- | -- | -- |
| Migrant | No | 629 | 18.29 | 5.90 | 2.62 | -- | 0.80 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 310 | 19.10 | 6.35 | 2.59 | -- | 0.83 |
| | Yes | 319 | 17.49 | 5.33 | 2.65 | 0.28 | 0.75 |
| LEP | No | 607 | 18.36 | 5.91 | 2.62 | -- | 0.80 |
| | Yes | 22 | 16.18 | 5.41 | -- | -- | -- |
| Title I | No | 537 | 18.46 | 6.05 | 2.62 | -- | 0.81 |
| | Yes | 92 | 17.28 | 4.86 | 2.66 | 0.20 | 0.70 |
| IEP | No | 544 | 18.71 | 5.93 | 2.62 | -- | 0.81 |
| | Yes | 85 | 15.56 | 4.98 | 2.68 | 0.54 | 0.71 |
| Accommodations | No | 616 | 18.42 | 5.88 | 2.62 | -- | 0.80 |
| | Yes | 13 | 12.08 | 3.40 | -- | -- | -- |

**Table 10.2 – Alpha Coefficients and Standard Errors of Measurement for Algebra II, Summer 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 124 | 15.64 | 5.88 | 2.87 | -- | 0.76 |
| Gender | Female | 44 | 16.27 | 6.12 | 2.87 | -0.17 | 0.78 |
| | Male | 80 | 15.29 | 5.75 | 2.87 | -- | 0.75 |
| Ethnicity | American Indian/ Alaskan Native | 2 | 15.50 | 6.36 | -- | -- | -- |
| | Asian | -- | -- | -- | -- | -- | -- |
| | Pacific Islander | -- | -- | -- | -- | -- | -- |
| | Black (not Hispanic) | 79 | 14.14 | 5.06 | 2.85 | 0.67 | 0.68 |
| | Hispanic | 7 | 19.29 | 5.06 | -- | -- | -- |
| | White (not Hispanic) | 34 | 17.79 | 6.34 | -- | -- | -- |
| | Multiracial | 2 | 25.50 | 10.61 | -- | -- | -- |
| Migrant | No | 124 | 15.64 | 5.88 | 2.87 | -- | 0.76 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 71 | 16.39 | 6.00 | 2.89 | -- | 0.77 |
| | Yes | 53 | 14.62 | 5.61 | 2.85 | 0.31 | 0.74 |
| LEP | No | 124 | 15.64 | 5.88 | 2.87 | -- | 0.76 |
| | Yes | -- | -- | -- | -- | -- | -- |
| Title I | No | 124 | 15.64 | 5.88 | 2.87 | -- | 0.76 |
| | Yes | -- | -- | -- | -- | -- | -- |
| IEP | No | 109 | 15.94 | 5.93 | 2.88 | -- | 0.76 |
| | Yes | 15 | 13.40 | 5.10 | -- | -- | -- |
| Accommodations | No | 122 | 15.61 | 5.84 | 2.87 | -- | 0.76 |
| | Yes | 2 | 17.50 | 10.61 | 3.31 | -- | 0.90 |

**Table 10.3 – Alpha Coefficients and Standard Errors of Measurement for American History, Summer 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 185 | 18.93 | 5.92 | 2.94 | -- | 0.75 |
| Gender | Female | 77 | 18.38 | 5.26 | 2.95 | 0.16 | 0.68 |
| | Male | 108 | 19.32 | 6.34 | 2.94 | -- | 0.79 |
| Ethnicity | American Indian/ Alaskan Native | 3 | 16.00 | 6.24 | -- | -- | -- |
| | Asian | 4 | 26.00 | 6.22 | -- | -- | -- |
| | Pacific Islander | 1 | 9.00 | -- | -- | -- | -- |
| | Black (not Hispanic) | 83 | 16.93 | 5.62 | 2.92 | 0.74 | 0.73 |
| | Hispanic | 14 | 18.29 | 4.73 | -- | -- | -- |
| | White (not Hispanic) | 80 | 21.00 | 5.46 | 2.93 | -- | 0.71 |
| | Multiracial | -- | -- | -- | -- | -- | -- |
| Migrant | No | 185 | 18.93 | 5.92 | 2.94 | -- | 0.75 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 91 | 20.35 | 6.01 | 2.93 | -- | 0.76 |
| | Yes | 94 | 17.55 | 5.51 | 2.96 | 0.49 | 0.71 |
| LEP | No | 176 | 18.98 | 5.93 | 2.94 | -- | 0.75 |
| | Yes | 9 | 17.89 | 5.93 | -- | -- | -- |
| Title I | No | 185 | 18.93 | 5.92 | 2.94 | -- | 0.75 |
| | Yes | -- | -- | -- | -- | -- | -- |
| IEP | No | 159 | 19.42 | 5.93 | 2.93 | -- | 0.76 |
| | Yes | 26 | 15.92 | 4.95 | -- | -- | -- |
| Accommodations | No | 184 | 18.94 | 5.93 | 2.94 | -- | 0.75 |
| | Yes | 1 | 17.00 | -- | -- | -- | -- |

**Table 10.4 – Alpha Coefficients and Standard Errors of Measurement for Biology, Summer 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 279 | 18.33 | 6.03 | 2.65 | -- | 0.81 |
| Gender | Female | 111 | 17.21 | 5.76 | 2.67 | 0.31 | 0.78 |
| | Male | 168 | 19.08 | 6.11 | 2.64 | -- | 0.81 |
| Ethnicity | American Indian/ Alaskan Native | 2 | 16.00 | 5.66 | -- | -- | -- |
| | Asian | 3 | 22.00 | 3.00 | -- | -- | -- |
| | Pacific Islander | -- | -- | -- | -- | -- | -- |
| | Black (not Hispanic) | 139 | 17.02 | 5.62 | 2.67 | 0.45 | 0.77 |
| | Hispanic | 8 | 18.00 | 6.35 | -- | -- | -- |
| | White (not Hispanic) | 126 | 19.71 | 6.24 | 2.63 | -- | 0.82 |
| | Multiracial | 1 | 24.00 | -- | -- | -- | -- |
| Migrant | No | 279 | 18.33 | 6.03 | 2.65 | | 0.81 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 126 | 19.45 | 6.41 | 2.62 | -- | 0.83 |
| | Yes | 153 | 17.41 | 5.56 | 2.68 | 0.34 | 0.77 |
| LEP | No | 275 | 18.35 | 6.05 | 2.65 | -- | 0.81 |
| | Yes | 4 | 17.25 | 5.50 | -- | -- | -- |
| Title I | No | 238 | 18.97 | 5.98 | 2.65 | -- | 0.80 |
| | Yes | 41 | 14.66 | 5.01 | 2.66 | -- | 0.72 |
| IEP | No | 245 | 18.50 | 6.11 | 2.65 | -- | 0.81 |
| | Yes | 34 | 17.15 | 5.37 | 2.70 | -- | 0.75 |
| Accommodations | No | 271 | 18.35 | 6.08 | 2.65 | -- | 0.81 |
| | Yes | 8 | 17.63 | 4.57 | -- | -- | -- |

**Table 10.5 – Alpha Coefficients and Standard Errors of Measurement for English I, Summer 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 246 | 21.07 | 7.10 | 2.90 | -- | 0.83 |
| Gender | Female | 106 | 21.54 | 7.49 | 2.86 | -0.12 | 0.85 |
| | Male | 140 | 20.72 | 6.79 | 2.92 | -- | 0.81 |
| Ethnicity | American Indian/ Alaskan Native | -- | -- | -- | -- | -- | -- |
| | Asian | 1 | 18.00 | -- | -- | -- | -- |
| | Pacific Islander | -- | -- | -- | -- | -- | -- |
| | Black (not Hispanic) | 107 | 19.05 | 6.51 | 2.94 | 0.50 | 0.80 |
| | Hispanic | 16 | 24.63 | 6.82 | -- | -- | -- |
| | White (not Hispanic) | 121 | 22.50 | 7.18 | 2.86 | -- | 0.84 |
| | Multiracial | 1 | 12.00 | -- | -- | -- | -- |
| Migrant | No | 246 | 21.07 | 7.10 | 2.90 | -- | 0.83 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 107 | 21.96 | 7.34 | 2.87 | -- | 0.85 |
| | Yes | 139 | 20.39 | 6.86 | 2.92 | 0.22 | 0.82 |
| LEP | No | 241 | 20.89 | 7.05 | 2.90 | -- | 0.83 |
| | Yes | 5 | 29.80 | 2.17 | -- | -- | -- |
| Title I | No | 246 | 21.07 | 7.10 | 2.90 | -- | 0.83 |
| | Yes | -- | -- | -- | -- | -- | -- |
| IEP | No | 222 | 21.50 | 6.90 | 2.90 | -- | 0.82 |
| | Yes | 24 | 17.17 | 7.87 | -- | -- | -- |
| Accommodations | No | 242 | 21.11 | 7.12 | 2.90 | -- | 0.83 |
| | Yes | 4 | 19.00 | 6.00 | -- | -- | -- |

**Table 10.6 – Alpha Coefficients and Standard Errors of Measurement for English II, Summer 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 313 | 19.50 | 5.72 | 2.58 | -- | 0.80 |
| Gender | Female | 113 | 19.96 | 5.36 | 2.57 | -0.13 | 0.77 |
| | Male | 200 | 19.23 | 5.91 | 2.58 | -- | 0.81 |
| Ethnicity | American Indian/ Alaskan Native | 1 | 20.00 | -- | -- | -- | -- |
| | Asian | 1 | 11.00 | -- | -- | -- | -- |
| | Pacific Islander | -- | -- | -- | -- | -- | -- |
| | Black (not Hispanic) | 138 | 18.17 | 5.52 | 2.63 | 0.39 | 0.77 |
| | Hispanic | 15 | 23.27 | 3.75 | -- | -- | -- |
| | White (not Hispanic) | 156 | 20.37 | 5.75 | 2.53 | -- | 0.81 |
| | Multiracial | 2 | 18.00 | 8.49 | -- | -- | -- |
| Migrant | No | 313 | 19.50 | 5.72 | 2.58 | -- | 0.80 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 139 | 19.96 | 5.68 | 2.58 | -- | 0.79 |
| | Yes | 174 | 19.12 | 5.74 | 2.58 | 0.15 | 0.80 |
| LEP | No | 308 | 19.50 | 5.73 | 2.58 | -- | 0.80 |
| | Yes | 5 | 19.00 | 5.96 | -- | -- | -- |
| Title I | No | 273 | 19.74 | 5.66 | 2.57 | -- | 0.79 |
| | Yes | 40 | 17.83 | 5.91 | 2.60 | -- | 0.81 |
| IEP | No | 267 | 19.86 | 5.66 | 2.56 | -- | 0.79 |
| | Yes | 46 | 17.39 | 5.71 | 2.67 | -- | 0.78 |
| Accommodations | No | 312 | 19.51 | 5.72 | 2.58 | -- | 0.80 |
| | Yes | 1 | 14.00 | -- | -- | -- | -- |

**Table 10.7 – Alpha Coefficients and Standard Errors of Measurement for Geometry, Summer 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 192 | 19.73 | 5.79 | 2.93 | -- | 0.74 |
| Gender | Female | 98 | 19.23 | 5.60 | 2.96 | 0.18 | 0.72 |
| | Male | 94 | 20.24 | 5.97 | 2.89 | -- | 0.77 |
| Ethnicity | American Indian/ Alaskan Native | -- | -- | -- | -- | -- | -- |
| | Asian | 4 | 27.00 | 9.70 | -- | -- | -- |
| | Pacific Islander | -- | -- | -- | -- | -- | -- |
| | Black (not Hispanic) | 108 | 17.50 | 4.69 | 2.97 | 0.85 | 0.60 |
| | Hispanic | 12 | 26.25 | 5.48 | -- | -- | -- |
| | White (not Hispanic) | 67 | 21.69 | 5.39 | 2.91 | -- | 0.71 |
| | Multiracial | 1 | 22.00 | -- | -- | -- | -- |
| Migrant | No | 192 | 19.73 | 5.79 | 2.93 | -- | 0.74 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 89 | 20.43 | 6.08 | 2.87 | -- | 0.78 |
| | Yes | 103 | 19.13 | 5.48 | 2.97 | 0.23 | 0.71 |
| LEP | No | 188 | 19.57 | 5.62 | 2.94 | -- | 0.73 |
| | Yes | 4 | 27.00 | 9.70 | -- | -- | -- |
| Title I | No | 190 | 19.66 | 5.77 | 2.93 | -- | 0.74 |
| | Yes | 2 | 26.50 | 4.95 | -- | -- | -- |
| IEP | No | 175 | 19.90 | 5.79 | 2.93 | -- | 0.74 |
| | Yes | 17 | 17.94 | 5.70 | -- | -- | -- |
| Accommodations | No | 185 | 19.68 | 5.79 | 2.93 | -- | 0.74 |
| | Yes | 7 | 21.00 | 6.22 | -- | -- | -- |

**Table 10.8 – Alpha Coefficients and Standard Errors of Measurement for Government, Summer 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 821 | 24.46 | 7.17 | 2.75 | -- | 0.85 |
| Gender | Female | 423 | 24.24 | 7.26 | 2.76 | 0.06 | 0.86 |
| | Male | 398 | 24.70 | 7.09 | 2.73 | -- | 0.85 |
| Ethnicity | American Indian/ Alaskan Native | 5 | 19.40 | 8.91 | -- | -- | -- |
| | Asian | 29 | 29.52 | 7.89 | -- | -- | -- |
| | Pacific Islander | 3 | 14.33 | 2.52 | -- | -- | -- |
| | Black (not Hispanic) | 146 | 21.52 | 6.97 | 2.94 | 0.54 | 0.82 |
| | Hispanic | 56 | 22.13 | 5.45 | 2.87 | 0.46 | 0.72 |
| | White (not Hispanic) | 579 | 25.25 | 6.97 | 2.69 | -- | 0.85 |
| | Multiracial | 3 | 29.00 | 9.54 | -- | -- | -- |
| Migrant | No | 820 | 24.46 | 7.18 | 2.75 | -- | 0.85 |
| | Yes | 1 | 23.00 | -- | -- | -- | -- |
| FRL | No | 470 | 26.42 | 6.79 | 2.64 | -- | 0.85 |
| | Yes | 351 | 21.83 | 6.84 | 2.88 | 0.67 | 0.82 |
| LEP | No | 792 | 24.61 | 7.11 | 2.74 | -- | 0.85 |
| | Yes | 29 | 20.41 | 7.73 | -- | -- | -- |
| Title I | No | 777 | 24.61 | 7.11 | 2.75 | -- | 0.85 |
| | Yes | 44 | 21.89 | 7.95 | 2.75 | -- | 0.88 |
| IEP | No | 738 | 25.10 | 6.97 | 2.73 | -- | 0.85 |
| | Yes | 83 | 18.81 | 6.50 | 2.90 | 0.91 | 0.80 |
| Accommodations | No | 799 | 24.64 | 7.14 | 2.74 | -- | 0.85 |
| | Yes | 22 | 17.77 | 4.76 | -- | -- | -- |

**Table 10.9 – Alpha Coefficients and Standard Errors of Measurement for Algebra I, Fall 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 3,999 | 19.66 | 8.00 | 2.51 | -- | 0.90 |
| Gender | Female | 1,857 | 20.10 | 7.95 | 2.49 | -0.10 | 0.90 |
| | Male | 2,142 | 19.27 | 8.02 | 2.52 | -- | 0.90 |
| Ethnicity | American Indian/ Alaskan Native | 22 | 16.18 | 7.91 | -- | -- | -- |
| | Asian | 59 | 25.83 | 6.74 | 2.22 | -0.65 | 0.89 |
| | Pacific Islander | 4 | 29.00 | 1.63 | -- | -- | -- |
| | Black (not Hispanic) | 670 | 14.52 | 6.20 | 2.66 | 0.81 | 0.82 |
| | Hispanic | 166 | 18.25 | 7.49 | 2.58 | 0.31 | 0.88 |
| | White (not Hispanic) | 3,017 | 20.72 | 7.91 | 2.47 | -- | 0.90 |
| | Multiracial | 61 | 22.16 | 7.52 | 2.42 | -0.18 | 0.90 |
| Migrant | No | 3,999 | 19.66 | 8.00 | 2.51 | -- | 0.90 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 2,319 | 22.27 | 7.70 | 2.41 | -- | 0.90 |
| | Yes | 1,680 | 16.06 | 6.93 | 2.63 | 0.84 | 0.86 |
| LEP | No | 3,947 | 19.71 | 7.99 | 2.51 | -- | 0.90 |
| | Yes | 52 | 15.35 | 7.51 | 2.61 | 0.55 | 0.88 |
| Title I | No | 3,899 | 19.81 | 7.97 | 2.50 | -- | 0.90 |
| | Yes | 100 | 13.59 | 6.77 | 2.60 | 0.78 | 0.85 |
| IEP | No | 3,581 | 20.52 | 7.81 | 2.49 | -- | 0.90 |
| | Yes | 418 | 12.29 | 5.33 | 2.64 | 1.08 | 0.75 |
| Accommodations | No | 3,871 | 19.88 | 7.98 | 2.50 | -- | 0.90 |
| | Yes | 128 | 12.91 | 5.05 | 2.67 | 0.88 | 0.72 |

**Table 10.10 – Alpha Coefficients and Standard Errors of Measurement for Algebra II, Fall 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 514 | 27.16 | 7.32 | 2.64 | -- | 0.87 |
| Gender | Female | 257 | 26.12 | 7.12 | 2.70 | 0.29 | 0.86 |
| | Male | 257 | 28.20 | 7.37 | 2.57 | -- | 0.88 |
| Ethnicity | American Indian/ Alaskan Native | 2 | 23.50 | 2.12 | -- | -- | -- |
| | Asian | 15 | 30.07 | 4.91 | -- | -- | -- |
| | Pacific Islander | 1 | 33.00 | -- | -- | -- | -- |
| | Black (not Hispanic) | 60 | 22.55 | 7.00 | 2.86 | 0.74 | 0.83 |
| | Hispanic | 29 | 25.62 | 7.54 | -- | -- | -- |
| | White (not Hispanic) | 389 | 27.85 | 7.24 | 2.59 | -- | 0.87 |
| | Multiracial | 18 | 27.89 | 5.86 | -- | -- | -- |
| Migrant | No | 514 | 27.16 | 7.32 | 2.64 | -- | 0.87 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 413 | 27.99 | 7.18 | 2.59 | -- | 0.87 |
| | Yes | 101 | 23.78 | 6.92 | 2.83 | 0.59 | 0.83 |
| LEP | No | 510 | 27.17 | 7.33 | 2.64 | -- | 0.87 |
| | Yes | 4 | 26.25 | 5.38 | -- | -- | -- |
| Title I | No | 514 | 27.16 | 7.32 | 2.64 | -- | 0.87 |
| | Yes | -- | -- | -- | -- | -- | -- |
| IEP | No | 493 | 27.35 | 7.21 | 2.63 | -- | 0.87 |
| | Yes | 21 | 22.67 | 8.44 | -- | -- | -- |
| Accommodations | No | 513 | 27.19 | 7.30 | 2.64 | -- | 0.87 |
| | Yes | 1 | 15.00 | -- | -- | -- | -- |

**Table 10.11 – Alpha Coefficients and Standard Errors of Measurement for American History, Fall 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 831 | 23.75 | 7.05 | 2.80 | -- | 0.84 |
| Gender | Female | 392 | 22.69 | 6.72 | 2.86 | 0.29 | 0.82 |
| | Male | 439 | 24.71 | 7.21 | 2.75 | -- | 0.85 |
| Ethnicity | American Indian/ Alaskan Native | 7 | 26.00 | 6.16 | -- | -- | -- |
| | Asian | 12 | 23.58 | 5.20 | -- | -- | -- |
| | Pacific Islander | 3 | 24.33 | 6.03 | -- | -- | -- |
| | Black (not Hispanic) | 93 | 20.85 | 8.19 | 2.83 | 0.49 | 0.88 |
| | Hispanic | 29 | 21.55 | 7.70 | -- | -- | -- |
| | White (not Hispanic) | 672 | 24.25 | 6.83 | 2.79 | -- | 0.83 |
| | Multiracial | 15 | 23.00 | 5.46 | -- | -- | -- |
| Migrant | No | 831 | 23.75 | 7.05 | 2.80 | -- | 0.84 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 526 | 24.92 | 6.72 | 2.77 | -- | 0.83 |
| | Yes | 305 | 21.74 | 7.16 | 2.86 | 0.46 | 0.84 |
| LEP | No | 817 | 23.81 | 7.05 | 2.80 | -- | 0.84 |
| | Yes | 14 | 20.57 | 6.43 | -- | -- | -- |
| Title I | No | 829 | 23.78 | 7.05 | 2.80 | -- | 0.84 |
| | Yes | 2 | 14.50 | 0.71 | -- | -- | -- |
| IEP | No | 719 | 24.66 | 6.55 | 2.79 | -- | 0.82 |
| | Yes | 112 | 17.95 | 7.41 | 2.86 | 1.01 | 0.85 |
| Accommodations | No | 788 | 24.12 | 6.92 | 2.80 | -- | 0.84 |
| | Yes | 43 | 16.98 | 5.93 | 2.90 | -- | 0.76 |

**Table 10.12 – Alpha Coefficients and Standard Errors of Measurement for Biology, Fall 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 3,029 | 20.01 | 7.08 | 2.56 | -- | 0.87 |
| Gender | Female | 1,368 | 20.15 | 6.95 | 2.57 | -0.04 | 0.86 |
| | Male | 1,661 | 19.90 | 7.18 | 2.56 | -- | 0.87 |
| Ethnicity | American Indian/ Alaskan Native | 14 | 19.29 | 7.19 | -- | -- | -- |
| | Asian | 68 | 25.22 | 7.39 | 2.27 | -0.58 | 0.91 |
| | Pacific Islander | 6 | 18.00 | 7.35 | -- | -- | -- |
| | Black (not Hispanic) | 623 | 15.70 | 5.35 | 2.72 | 0.81 | 0.74 |
| | Hispanic | 123 | 19.15 | 6.25 | 2.63 | 0.28 | 0.82 |
| | White (not Hispanic) | 2,145 | 21.13 | 7.02 | 2.52 | -- | 0.87 |
| | Multiracial | 50 | 21.18 | 7.09 | 2.50 | -.01 | 0.88 |
| Migrant | No | 3,029 | 20.01 | 7.08 | 2.56 | -- | 0.87 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 1,634 | 22.69 | 6.89 | 2.45 | -- | 0.87 |
| | Yes | 1,395 | 16.88 | 5.92 | 2.68 | 0.90 | 0.80 |
| LEP | No | 2,985 | 20.10 | 7.07 | 2.56 | -- | 0.87 |
| | Yes | 44 | 14.14 | 4.56 | 2.74 | -- | 0.64 |
| Title I | No | 2,915 | 20.23 | 7.06 | 2.56 | -- | 0.87 |
| | Yes | 114 | 14.32 | 4.67 | 2.72 | 0.85 | 0.66 |
| IEP | No | 2,644 | 20.60 | 6.99 | 2.54 | -- | 0.87 |
| | Yes | 385 | 16.01 | 6.37 | 2.68 | 0.66 | 0.82 |
| Accommodations | No | 2,922 | 20.21 | 7.05 | 2.56 | -- | 0.87 |
| | Yes | 107 | 14.63 | 5.41 | 2.71 | 0.80 | 0.75 |

**Table 10.13 – Alpha Coefficients and Standard Errors of Measurement for English I, Fall 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 220 | 24.21 | 8.17 | 2.75 | -- | 0.89 |
| Gender | Female | 105 | 25.31 | 8.05 | 2.71 | -0.26 | 0.89 |
| | Male | 115 | 23.20 | 8.18 | 2.78 | -- | 0.88 |
| Ethnicity | American Indian/ Alaskan Native | 1 | 22.00 | -- | -- | -- | -- |
| | Asian | 2 | 30.50 | 2.12 | -- | -- | -- |
| | Pacific Islander | -- | -- | -- | -- | -- | -- |
| | Black (not Hispanic) | 30 | 17.03 | 7.82 | -- | -- | -- |
| | Hispanic | 14 | 25.00 | 6.13 | -- | -- | -- |
| | White (not Hispanic) | 165 | 25.40 | 7.86 | 2.72 | -- | 0.88 |
| | Multiracial | 8 | 23.88 | 7.12 | -- | -- | -- |
| Migrant | No | 220 | 24.21 | 8.17 | 2.75 | -- | 0.89 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 122 | 27.07 | 7.78 | 2.63 | -- | 0.89 |
| | Yes | 98 | 20.64 | 7.22 | 2.87 | 0.86 | 0.84 |
| LEP | No | 216 | 24.24 | 8.20 | 2.74 | -- | 0.89 |
| | Yes | 4 | 22.75 | 7.46 | -- | -- | -- |
| Title I | No | 219 | 24.23 | 8.18 | 2.74 | -- | 0.89 |
| | Yes | 1 | 19.00 | -- | -- | -- | -- |
| IEP | No | 188 | 24.94 | 8.01 | 2.73 | -- | 0.88 |
| | Yes | 32 | 19.94 | 7.89 | 2.82 | -- | 0.87 |
| Accommodations | No | 218 | 24.31 | 8.14 | 2.75 | -- | 0.89 |
| | Yes | 2 | 13.00 | 0 | -- | -- | -- |

**Table 10.14 – Alpha Coefficients and Standard Errors of Measurement for English II, Fall 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 3,022 | 21.09 | 6.71 | 2.57 | -- | 0.85 |
| Gender | Female | 1,405 | 22.18 | 6.43 | 2.54 | -0.31 | 0.84 |
| | Male | 1,617 | 20.14 | 6.80 | 2.59 | -- | 0.85 |
| Ethnicity | American Indian/ Alaskan Native | 12 | 17.00 | 7.83 | -- | -- | -- |
| | Asian | 28 | 22.21 | 6.65 | -- | -- | -- |
| | Pacific Islander | 3 | 19.00 | 7.00 | -- | -- | -- |
| | Black (not Hispanic) | 1,116 | 20.43 | 6.20 | 2.60 | 0.18 | 0.82 |
| | Hispanic | 127 | 19.10 | 6.50 | 2.62 | 0.36 | 0.84 |
| | White (not Hispanic) | 1,680 | 21.62 | 6.99 | 2.55 | -- | 0.87 |
| | Multiracial | 56 | 23.20 | 6.13 | 2.47 | -0.23 | 0.84 |
| Migrant | No | 3,019 | 21.09 | 6.71 | 2.57 | -- | 0.85 |
| | Yes | 3 | 15.67 | 2.89 | -- | -- | -- |
| FRL | No | 1,360 | 22.83 | 6.58 | 2.49 | -- | 0.86 |
| | Yes | 1,662 | 19.67 | 6.48 | 2.63 | 0.48 | 0.84 |
| LEP | No | 2,973 | 21.17 | 6.69 | 2.57 | -- | 0.85 |
| | Yes | 49 | 16.27 | 6.35 | 2.66 | -- | 0.82 |
| Title I | No | 2,899 | 21.27 | 6.67 | 2.56 | -- | 0.85 |
| | Yes | 123 | 16.80 | 6.20 | 2.70 | 0.67 | 0.81 |
| IEP | No | 2,621 | 21.89 | 6.44 | 2.53 | -- | 0.86 |
| | Yes | 401 | 15.85 | 6.09 | 2.77 | 0.95 | 0.79 |
| Accommodations | No | 2,975 | 21.19 | 6.68 | 2.55 | -- | 0.85 |
| | Yes | 47 | 14.89 | 5.93 | 3.63 | -- | 0.62 |

**Table 10.15 – Alpha Coefficients and Standard Errors of Measurement for Geometry, Fall 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 729 | 25.96 | 8.51 | 2.60 | -- | 0.91 |
| Gender | Female | 369 | 26.22 | 8.49 | 2.58 | -0.06 | 0.91 |
| | Male | 360 | 25.70 | 8.54 | 2.62 | -- | 0.91 |
| Ethnicity | American Indian/ Alaskan Native | 1 | 30.00 | -- | -- | -- | -- |
| | Asian | 21 | 29.81 | 7.17 | -- | -- | -- |
| | Pacific Islander | 3 | 25.67 | 10.07 | -- | -- | -- |
| | Black (not Hispanic) | 112 | 19.63 | 7.30 | 2.87 | 0.95 | 0.85 |
| | Hispanic | 42 | 24.40 | 8.65 | -- | -- | -- |
| | White (not Hispanic) | 532 | 27.24 | 8.14 | 2.55 | -- | 0.90 |
| | Multiracial | 18 | 26.44 | 9.65 | -- | -- | -- |
| Migrant | No | 729 | 25.96 | 8.51 | 2.60 | -- | 0.91 |
| | Yes | -- | -- | -- | -- | -- | -- |
| FRL | No | 499 | 27.97 | 7.98 | 2.51 | -- | 0.90 |
| | Yes | 230 | 21.61 | 8.02 | 2.78 | 0.80 | 0.88 |
| LEP | No | 721 | 26.04 | 8.50 | 2.60 | -- | 0.91 |
| | Yes | 8 | 19.00 | 7.05 | -- | -- | -- |
| Title I | No | 710 | 26.30 | 8.35 | 2.60 | -- | 0.90 |
| | Yes | 19 | 13.21 | 3.38 | -- | -- | -- |
| IEP | No | 693 | 26.33 | 8.38 | 2.59 | -- | 0.90 |
| | Yes | 36 | 18.92 | 8.06 | 2.78 | -- | 0.88 |
| Accommodations | No | 720 | 26.08 | 8.46 | 2.60 | -- | 0.91 |
| | Yes | 9 | 16.33 | 7.81 | -- | -- | -- |

**Table 10.16 – Alpha Coefficients and Standard Errors of Measurement for Government, Fall 2011**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 17,228 | 23.74 | 8.10 | 2.77 | -- | 0.88 |
| Gender | Female | 8,382 | 23.22 | 7.90 | 2.79 | 0.13 | 0.87 |
| | Male | 8,846 | 24.24 | 8.25 | 2.74 | -- | 0.89 |
| Ethnicity | American Indian/ Alaskan Native | 92 | 24.40 | 7.91 | 2.78 | 0.07 | 0.88 |
| | Asian | 416 | 26.46 | 9.12 | 2.61 | -0.19 | 0.92 |
| | Pacific Islander | 27 | 22.15 | 7.68 | -- | -- | -- |
| | Black (not Hispanic) | 2,945 | 18.77 | 7.15 | 2.89 | 0.80 | 0.84 |
| | Hispanic | 753 | 21.27 | 7.58 | 2.87 | 0.47 | 0.86 |
| | White (not Hispanic) | 12,825 | 24.95 | 7.83 | 2.74 | -- | 0.88 |
| | Multiracial | 170 | 23.15 | 7.78 | 2.81 | 0.23 | 0.87 |
| Migrant | No | 17,224 | 23.74 | 8.10 | 2.77 | -- | 0.88 |
| | Yes | 4 | 17.50 | 3.32 | -- | -- | -- |
| FRL | No | 9,889 | 26.04 | 7.78 | 2.69 | -- | 0.88 |
| | Yes | 7,339 | 20.64 | 7.47 | 2.87 | 0.71 | 0.85 |
| LEP | No | 16,919 | 23.85 | 8.07 | 2.77 | -- | 0.88 |
| | Yes | 309 | 17.84 | 7.61 | 2.92 | 0.75 | 0.85 |
| Title I | No | 16,021 | 24.02 | 8.06 | 2.76 | -- | 0.88 |
| | Yes | 1,207 | 20.08 | 7.70 | 2.87 | 0.49 | 0.86 |
| IEP | No | 15,466 | 24.39 | 7.92 | 2.76 | -- | 0.88 |
| | Yes | 1,762 | 18.01 | 7.33 | 2.89 | 0.81 | 0.84 |
| Accommodations | No | 16,602 | 24.00 | 8.03 | 2.76 | -- | 0.88 |
| | Yes | 626 | 16.77 | 6.57 | 2.94 | 0.91 | 0.80 |

**Table 10.17 – Alpha Coefficients and Standard Errors of Measurement for Algebra I, Spring 2012**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 64,446 | 21.51 | 6.66 | 2.48 | -- | 0.86 |
| Gender | Female | 32,041 | 21.57 | 6.45 | 2.48 | -0.02 | 0.85 |
| | Male | 32,405 | 21.45 | 6.87 | 2.49 | -- | 0.87 |
| Ethnicity | American Indian/ Alaskan Native | 299 | 20.56 | 6.43 | 2.55 | 0.26 | 0.84 |
| | Asian | 1,238 | 25.12 | 6.63 | 2.28 | -0.44 | 0.88 |
| | Pacific Islander | 93 | 20.37 | 6.70 | 2.52 | 0.29 | 0.86 |
| | Black (not Hispanic) | 9,909 | 17.66 | 6.29 | 2.62 | 0.71 | 0.83 |
| | Hispanic | 2,648 | 20.52 | 6.33 | 2.53 | 0.27 | 0.84 |
| | White (not Hispanic) | 49,447 | 22.25 | 6.46 | 2.46 | -- | 0.86 |
| | Multiracial | 812 | 21.82 | 6.56 | 2.48 | 0.07 | 0.86 |
| Migrant | No | 64,426 | 21.51 | 6.66 | 2.48 | -- | 0.86 |
| | Yes | 20 | 19.55 | 6.13 | -- | -- | -- |
| FRL | No | 36,871 | 23.17 | 6.31 | 2.41 | -- | 0.85 |
| | Yes | 27,575 | 19.30 | 6.47 | 2.58 | 0.61 | 0.84 |
| LEP | No | 63,172 | 21.57 | 6.65 | 2.48 | -- | 0.86 |
| | Yes | 1,274 | 18.83 | 6.65 | 2.59 | 0.41 | 0.85 |
| Title I | No | 59,637 | 21.71 | 6.59 | 2.48 | -- | 0.86 |
| | Yes | 4,809 | 19.03 | 6.98 | 2.56 | 0.40 | 0.87 |
| IEP | No | 57,941 | 22.23 | 6.31 | 2.46 | -- | 0.85 |
| | Yes | 6,505 | 15.07 | 6.24 | 2.66 | 1.14 | 0.82 |
| Accommodations | No | 61,792 | 21.83 | 6.51 | 2.47 | -- | 0.86 |
| | Yes | 2,654 | 14.01 | 5.61 | 2.69 | 1.21 | 0.77 |

**Table 10.18 – Alpha Coefficients and Standard Errors of Measurement for Algebra II, Spring 2012**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 25,150 | 23.75 | 7.18 | 2.79 | -- | 0.85 |
| Gender | Female | 13,452 | 23.39 | 7.06 | 2.81 | 0.11 | 0.84 |
| | Male | 11,698 | 24.17 | 7.29 | 2.77 | -- | 0.86 |
| Ethnicity | American Indian/ Alaskan Native | 136 | 22.08 | 6.77 | 2.85 | 0.37 | 0.82 |
| | Asian | 406 | 25.99 | 7.78 | 2.67 | -0.20 | 0.88 |
| | Pacific Islander | 37 | 21.84 | 8.30 | -- | -- | -- |
| | Black (not Hispanic) | 3,291 | 18.88 | 6.86 | 2.89 | 0.83 | 0.82 |
| | Hispanic | 1,002 | 21.87 | 7.07 | 2.86 | 0.40 | 0.84 |
| | White (not Hispanic) | 20,059 | 24.61 | 6.88 | 2.77 | -- | 0.84 |
| | Multiracial | 219 | 24.27 | 7.07 | 2.79 | 0.05 | 0.84 |
| Migrant | No | 25,143 | 23.75 | 7.18 | 2.79 | -- | 0.85 |
| | Yes | 7 | 22.29 | 6.97 | -- | -- | -- |
| FRL | No | 16,228 | 24.83 | 7.02 | 2.76 | -- | 0.85 |
| | Yes | 8,922 | 21.79 | 7.06 | 2.85 | 0.43 | 0.84 |
| LEP | No | 24,876 | 23.81 | 7.16 | 2.79 | -- | 0.85 |
| | Yes | 274 | 18.19 | 7.45 | 2.88 | 0.79 | 0.85 |
| Title I | No | 23,594 | 24.10 | 7.06 | 2.79 | -- | 0.84 |
| | Yes | 1556 | 18.42 | 6.93 | 2.88 | 0.81 | 0.83 |
| IEP | No | 24,198 | 23.89 | 7.13 | 2.79 | -- | 0.85 |
| | Yes | 952 | 20.17 | 7.53 | 2.86 | 0.52 | 0.86 |
| Accommodations | No | 24,925 | 23.80 | 7.17 | 2.79 | -- | 0.85 |
| | Yes | 225 | 18.11 | 6.59 | 2.94 | 0.79 | 0.80 |

**Table 10.19 – Alpha Coefficients and Standard Errors of Measurement for American History, Spring 2012**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 38,571 | 22.85 | 6.26 | 2.82 | -- | 0.80 |
| Gender | Female | 19,103 | 22.29 | 6.06 | 2.84 | 0.18 | 0.78 |
| | Male | 19,468 | 23.39 | 6.41 | 2.80 | -- | 0.81 |
| Ethnicity | American Indian/ Alaskan Native | 212 | 23.08 | 6.02 | 2.82 | 0.04 | 0.78 |
| | Asian | 515 | 23.93 | 7.06 | 2.78 | -0.10 | 0.85 |
| | Pacific Islander | 63 | 21.25 | 6.97 | 2.88 | 0.33 | 0.83 |
| | Black (not Hispanic) | 5,209 | 20.48 | 6.23 | 2.88 | 0.46 | 0.79 |
| | Hispanic | 1,488 | 21.46 | 6.26 | 2.87 | 0.30 | 0.79 |
| | White (not Hispanic) | 30,650 | 23.30 | 6.16 | 2.81 | -- | 0.79 |
| | Multiracial | 434 | 22.65 | 6.14 | 2.84 | 0.11 | 0.79 |
| Migrant | No | 38,557 | 22.85 | 6.26 | 2.82 | -- | 0.80 |
| | Yes | 14 | 19.79 | 6.19 | -- | -- | -- |
| FRL | No | 21,798 | 24.24 | 6.00 | 2.77 | -- | 0.79 |
| | Yes | 16,773 | 21.04 | 6.14 | 2.88 | 0.53 | 0.78 |
| LEP | No | 38,020 | 22.93 | 6.24 | 2.82 | -- | 0.80 |
| | Yes | 551 | 17.51 | 5.94 | 2.96 | 0.87 | 0.75 |
| Title I | No | 36,698 | 22.95 | 6.25 | 2.82 | -- | 0.80 |
| | Yes | 1873 | 20.83 | 6.14 | 2.88 | 0.34 | 0.78 |
| IEP | No | 35,442 | 23.31 | 6.05 | 2.81 | -- | 0.78 |
| | Yes | 3,129 | 17.62 | 6.28 | 2.93 | 0.94 | 0.78 |
| Accommodations | No | 37,097 | 23.09 | 6.16 | 2.82 | -- | 0.79 |
| | Yes | 1,474 | 16.88 | 5.93 | 2.96 | 1.01 | 0.75 |

**Table 10.20 – Alpha Coefficients and Standard Errors of Measurement for Biology, Spring 2012**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 61,746 | 22.18 | 6.38 | 2.53 | -- | 0.84 |
| Gender | Female | 30,722 | 21.66 | 6.23 | 2.56 | 0.16 | 0.83 |
| | Male | 31,024 | 22.70 | 6.48 | 2.50 | -- | 0.85 |
| Ethnicity | American Indian/ Alaskan Native | 309 | 21.76 | 6.02 | 2.57 | 0.22 | 0.82 |
| | Asian | 1,166 | 23.74 | 7.06 | 2.43 | -0.11 | 0.88 |
| | Pacific Islander | 70 | 19.84 | 6.02 | 2.67 | 0.53 | 0.80 |
| | Black (not Hispanic) | 9,477 | 17.92 | 5.98 | 2.67 | 0.85 | 0.80 |
| | Hispanic | 2,283 | 20.43 | 6.15 | 2.60 | 0.44 | 0.82 |
| | White (not Hispanic) | 47,773 | 23.08 | 6.08 | 2.49 | -- | 0.83 |
| | Multiracial | 668 | 22.12 | 6.26 | 2.54 | 0.16 | 0.84 |
| Migrant | No | 61,729 | 22.19 | 6.38 | 2.53 | -- | 0.84 |
| | Yes | 17 | 18.35 | 6.96 | -- | -- | -- |
| FRL | No | 36,156 | 23.76 | 5.97 | 2.45 | -- | 0.83 |
| | Yes | 25,590 | 19.96 | 6.27 | 2.62 | 0.62 | 0.83 |
| LEP | No | 60,713 | 22.27 | 6.35 | 2.52 | -- | 0.84 |
| | Yes | 1,033 | 17.05 | 6.09 | 2.71 | 0.82 | 0.80 |
| Title I | No | 57,944 | 22.46 | 6.30 | 2.52 | -- | 0.84 |
| | Yes | 3,802 | 18.02 | 6.18 | 2.68 | 0.70 | 0.81 |
| IEP | No | 55,245 | 22.80 | 6.11 | 2.51 | -- | 0.83 |
| | Yes | 6,501 | 16.97 | 6.28 | 2.68 | 0.95 | 0.82 |
| Accommodations | No | 58,719 | 22.51 | 6.24 | 2.52 | -- | 0.84 |
| | Yes | 3,027 | 15.89 | 5.81 | 2.72 | 1.07 | 0.78 |

**Table 10.21 – Alpha Coefficients and Standard Errors of Measurement for English I, Spring 2012**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 44,303 | 25.79 | 6.85 | 2.74 | -- | 0.84 |
| Gender | Female | 21,947 | 26.48 | 6.58 | 2.70 | -0.20 | 0.83 |
| | Male | 22,356 | 25.12 | 7.04 | 2.76 | -- | 0.85 |
| Ethnicity | American Indian/ Alaskan Native | 223 | 25.78 | 6.99 | 2.80 | 0.10 | 0.84 |
| | Asian | 524 | 27.09 | 6.98 | 2.65 | -0.10 | 0.86 |
| | Pacific Islander | 75 | 25.53 | 6.74 | 2.76 | 0.14 | 0.83 |
| | Black (not Hispanic) | 5,128 | 21.83 | 7.01 | 2.88 | 0.69 | 0.83 |
| | Hispanic | 1,840 | 23.97 | 6.93 | 2.82 | 0.37 | 0.83 |
| | White (not Hispanic) | 35,900 | 26.45 | 6.60 | 2.71 | -- | 0.83 |
| | Multiracial | 613 | 25.10 | 7.17 | 2.74 | 0.20 | 0.85 |
| Migrant | No | 44,289 | 25.79 | 6.85 | 2.74 | -- | 0.84 |
| | Yes | 14 | 23.79 | 5.15 | -- | -- | -- |
| FRL | No | 24,733 | 27.53 | 6.20 | 2.65 | -- | 0.82 |
| | Yes | 19,570 | 23.60 | 7.00 | 2.83 | 0.60 | 0.84 |
| LEP | No | 43,626 | 25.88 | 6.81 | 2.73 | -- | 0.84 |
| | Yes | 677 | 20.08 | 6.60 | 2.93 | 0.85 | 0.80 |
| Title I | No | 42,091 | 25.94 | 6.80 | 2.73 | -- | 0.84 |
| | Yes | 2,212 | 23.07 | 7.25 | 2.84 | 0.42 | 0.85 |
| IEP | No | 40,598 | 26.45 | 6.42 | 2.71 | -- | 0.82 |
| | Yes | 3,705 | 18.61 | 7.29 | 2.93 | 1.21 | 0.84 |
| Accommodations | No | 43,352 | 25.99 | 6.72 | 2.73 | -- | 0.84 |
| | Yes | 951 | 17.04 | 7.10 | 3.03 | 1.33 | 0.82 |

**Table 10.22 – Alpha Coefficients and Standard Errors of Measurement for English II, Spring 2012**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 62,024 | 23.59 | 5.76 | 2.40 | -- | 0.83 |
| Gender | Female | 30,860 | 24.21 | 5.51 | 2.37 | -0.22 | 0.81 |
| | Male | 31,164 | 22.98 | 5.94 | 2.42 | -- | 0.83 |
| Ethnicity | American Indian/ Alaskan Native | 306 | 22.97 | 5.43 | 2.43 | 0.24 | 0.80 |
| | Asian | 1,220 | 24.43 | 6.05 | 2.33 | -0.03 | 0.85 |
| | Pacific Islander | 80 | 22.20 | 6.19 | 2.47 | 0.38 | 0.84 |
| | Black (not Hispanic) | 8,945 | 20.24 | 6.08 | 2.56 | 0.72 | 0.82 |
| | Hispanic | 2,271 | 22.17 | 5.78 | 2.47 | 0.38 | 0.82 |
| | White (not Hispanic) | 48,528 | 24.26 | 5.46 | 2.36 | -- | 0.81 |
| | Multiracial | 674 | 23.42 | 5.75 | 2.40 | 0.15 | 0.83 |
| Migrant | No | 62,007 | 23.59 | 5.76 | 2.40 | -- | 0.83 |
| | Yes | 18 | 18.94 | 5.20 | -- | -- | -- |
| FRL | No | 36,615 | 25.05 | 5.14 | 2.31 | -- | 0.80 |
| | Yes | 25,410 | 21.50 | 5.96 | 2.51 | 0.65 | 0.82 |
| LEP | No | 61,044 | 23.68 | 5.72 | 2.39 | -- | 0.82 |
| | Yes | 981 | 18.12 | 5.94 | 2.63 | 0.97 | 0.80 |
| Title I | No | 57,954 | 23.81 | 5.66 | 2.39 | -- | 0.82 |
| | Yes | 4,071 | 20.55 | 6.33 | 2.53 | 0.57 | 0.84 |
| IEP | No | 55,324 | 24.33 | 5.21 | 2.36 | -- | 0.80 |
| | Yes | 6,701 | 17.49 | 6.43 | 2.66 | 1.28 | 0.83 |
| Accommodations | No | 60,353 | 23.81 | 5.59 | 2.38 | -- | 0.82 |
| | Yes | 1,671 | 15.67 | 6.34 | 2.87 | 1.45 | 0.79 |

**Table 10.23 – Alpha Coefficients and Standard Errors of Measurement for Geometry, Spring 2012**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 30,251 | 24.33 | 6.29 | 2.76 | -- | 0.81 |
| Gender | Female | 15,657 | 24.23 | 6.20 | 2.77 | 0.03 | 0.80 |
| | Male | 14,594 | 24.44 | 6.38 | 2.75 | -- | 0.81 |
| Ethnicity | American Indian/ Alaskan Native | 169 | 24.05 | 5.90 | 2.79 | 0.18 | 0.78 |
| | Asian | 449 | 26.49 | 6.73 | 2.68 | -0.23 | 0.84 |
| | Pacific Islander | 61 | 21.75 | 6.79 | 2.84 | 0.57 | 0.83 |
| | Black (not Hispanic) | 4,033 | 19.88 | 6.13 | 2.91 | 0.88 | 0.78 |
| | Hispanic | 1,227 | 22.57 | 6.29 | 2.83 | 0.43 | 0.80 |
| | White (not Hispanic) | 23,978 | 25.13 | 5.96 | 2.73 | -- | 0.79 |
| | Multiracial | 334 | 24.86 | 6.36 | 2.74 | 0.04 | 0.81 |
| Migrant | No | 30,241 | 24.33 | 6.29 | 2.76 | -- | 0.81 |
| | Yes | 10 | 22.60 | 5.99 | -- | -- | -- |
| FRL | No | 18,121 | 25.50 | 6.03 | 2.71 | -- | 0.80 |
| | Yes | 12,130 | 22.59 | 6.26 | 2.83 | 0.47 | 0.80 |
| LEP | No | 29,816 | 24.39 | 6.27 | 2.76 | -- | 0.81 |
| | Yes | 435 | 20.18 | 6.43 | 2.90 | 0.67 | 0.80 |
| Title I | No | 28,648 | 24.55 | 6.21 | 2.75 | -- | 0.80 |
| | Yes | 1,603 | 20.42 | 6.44 | 2.87 | 0.66 | 0.80 |
| IEP | No | 28,535 | 24.63 | 6.15 | 2.75 | -- | 0.80 |
| | Yes | 1,716 | 19.43 | 6.47 | 2.91 | 0.84 | 0.80 |
| Accommodations | No | 29,720 | 24.44 | 6.24 | 2.76 | -- | 0.81 |
| | Yes | 531 | 18.37 | 5.84 | 2.99 | 0.97 | 0.74 |

**Table 10.24 – Alpha Coefficients and Standard Errors of Measurement for Government, Spring 2012**

| Group | Subgroup | N-Count | Mean (RS) | SD (RS) | SEM (RS) | Effect Size | Reliability |
|---|---|---|---|---|---|---|---|
| All Students | All Students | 40,199 | 24.82 | 7.03 | 2.72 | -- | 0.85 |
| Gender | Female | 19,827 | 24.43 | 6.72 | 2.74 | 0.11 | 0.83 |
| | Male | 20,372 | 25.20 | 7.29 | 2.69 | -- | 0.86 |
| Ethnicity | American Indian/ Alaskan Native | 211 | 24.36 | 6.55 | 2.75 | 0.19 | 0.82 |
| | Asian | 700 | 25.60 | 7.79 | 2.66 | 0.01 | 0.88 |
| | Pacific Islander | 56 | 22.89 | 7.20 | 2.84 | 0.41 | 0.84 |
| | Black (not Hispanic) | 5,118 | 20.14 | 6.75 | 2.88 | 0.82 | 0.82 |
| | Hispanic | 1,524 | 22.90 | 6.93 | 2.82 | 0.41 | 0.83 |
| | White (not Hispanic) | 32,145 | 25.65 | 6.75 | 2.68 | -- | 0.84 |
| | Multiracial | 445 | 25.10 | 6.52 | 2.72 | 0.08 | 0.83 |
| Migrant | No | 40,187 | 24.82 | 7.03 | 2.72 | -- | 0.85 |
| | Yes | 12 | 22.17 | 6.22 | -- | -- | -- |
| FRL | No | 24,204 | 26.57 | 6.61 | 2.63 | -- | 0.84 |
| | Yes | 15,995 | 22.18 | 6.81 | 2.83 | 0.66 | 0.83 |
| LEP | No | 39,592 | 24.92 | 7.00 | 2.71 | -- | 0.85 |
| | Yes | 607 | 18.63 | 6.16 | 2.93 | 0.90 | 0.77 |
| Title I | No | 38,224 | 25.10 | 6.92 | 2.70 | -- | 0.85 |
| | Yes | 1,975 | 19.42 | 6.93 | 2.90 | 0.82 | 0.83 |
| IEP | No | 35,854 | 25.45 | 6.76 | 2.69 | -- | 0.84 |
| | Yes | 4,345 | 19.63 | 7.06 | 2.88 | 0.86 | 0.83 |
| Accommodations | No | 38,209 | 25.19 | 6.89 | 2.70 | -- | 0.85 |
| | Yes | 1,990 | 17.82 | 5.95 | 2.97 | 1.08 | 0.75 |

## 10.5 Reliability of Classifications

Decision consistency is the extent to which a student's achievement level can be replicated given a second, parallel form of the test. As in previous years, the reliability of student achievement-level classifications – Below Basic, Basic, Proficient, and Advanced – was evaluated using a computer program developed by Huynh (1979). This FORTRAN program is based on the beta-binomial model that also provides standard errors SEs for the consistency estimates. Classification consistency refers to the degree to which each student's achievement level can be replicated and is similar to the traditional test retest or equivalent forms reliability. Using the maximum possible score, mean, standard deviation, and KR-21 reliability estimate, the program computes parameters ($\alpha$, $\beta$) for the beta-binomial distribution. Kappa indices, which estimate the level of improvement in decision consistency beyond chance when test data are used, are then computed (Huynh, 1979). The Kappa indices are shown in Table 10.27.

Table 10.28 shows the decision consistency (Huynh, 1979) measure for each achievement level by subject. Across achievement levels and subjects, the decision consistency indices (p) are typically in the 60s. A second analysis was conducted to determine the indices if a student's achievement was labeled 'pass' for a classification of Proficient or Advanced, or 'fail' for a classification of Below Basic or Basic. As indicated in Table 10.30, the indices would then be in the 80s range.

**Table 10.27 – Classification Consistency Coefficients**

| Test Period | Subject | N-Count | N (Items) | Raw Cut Score | | | Mean (RS) | SD (RS) | *Kappa* | SE (*k*) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Basic | Proficient | Advanced | | | | |
| Summer 2011 | Algebra I | 629 | 35 | 12 | 21 | 28 | 18.29 | 5.90 | 0.41 | 0.0107 |
| | Algebra II | 124 | 40 | 15 | 23 | 32 | 15.64 | 5.88 | 0.43 | 0.0261 |
| | American History | 185 | 40 | 19 | 24 | 31 | 18.93 | 5.92 | 0.38 | 0.0198 |
| | Biology | 279 | 35 | 13 | 22 | 30 | 18.33 | 6.03 | 0.44 | 0.0161 |
| | English I | 246 | 40 | 16 | 25 | 33 | 21.07 | 7.10 | 0.47 | 0.0161 |
| | English II | 313 | 35 | 13 | 21 | 29 | 19.50 | 5.72 | 0.40 | 0.0144 |
| | Geometry | 192 | 40 | 17 | 23 | 32 | 19.73 | 5.79 | 0.37 | 0.0217 |
| | Government | 821 | 40 | 15 | 25 | 33 | 24.46 | 7.17 | 0.48 | 0.0085 |
| Fall 2011 | Algebra I | 3,999 | 35 | 12 | 20 | 28 | 19.66 | 8.00 | 0.54 | 0.0038 |
| | Algebra II | 514 | 40 | 16 | 24 | 33 | 27.16 | 7.32 | 0.51 | 0.0109 |
| | American History | 831 | 40 | 19 | 25 | 32 | 23.75 | 7.05 | 0.44 | 0.0098 |
| | Biology | 3,029 | 35 | 13 | 22 | 30 | 20.01 | 7.08 | 0.50 | 0.0043 |
| | English I | 220 | 40 | 16 | 25 | 33 | 24.21 | 8.17 | 0.52 | 0.0163 |
| | English II | 3,022 | 35 | 13 | 22 | 30 | 21.09 | 6.71 | 0.48 | 0.0043 |
| | Geometry | 729 | 40 | 17 | 24 | 32 | 25.96 | 8.51 | 0.55 | 0.0088 |
| | Government | 17,228 | 40 | 15 | 25 | 34 | 23.74 | 8.10 | 0.53 | 0.0017 |
| Spring 2012 | Algebra I | 64,446 | 35 | 12 | 21 | 28 | 21.51 | 6.66 | 0.48 | 0.0010 |
| | Algebra II | 25,150 | 40 | 15 | 23 | 32 | 23.75 | 7.18 | 0.47 | 0.0016 |
| | American History | 38,571 | 40 | 19 | 24 | 31 | 22.85 | 6.26 | 0.38 | 0.0015 |
| | Biology | 61,746 | 35 | 13 | 22 | 30 | 22.18 | 6.38 | 0.47 | 0.0010 |
| | English I | 44,303 | 40 | 16 | 25 | 33 | 25.79 | 6.85 | 0.46 | 0.0012 |
| | English II | 62,024 | 35 | 13 | 21 | 29 | 23.59 | 5.76 | 0.44 | 0.0011 |
| | Geometry | 30,251 | 40 | 17 | 23 | 32 | 24.33 | 6.29 | 0.40 | 0.0017 |
| | Government | 40,199 | 40 | 15 | 25 | 33 | 24.82 | 7.03 | 0.47 | 0.0012 |

**Table 10.28 – Raw Agreement Consistency Coefficients**

| Test Period | Subject | N-Count | N (Items) | Raw Cut Score | | | Mean (RS) | SD (RS) | *p* | SE (*p*) |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Basic | Proficient | Advanced | | | | |
| Summer 2011 | Algebra I | 629 | 35 | 12 | 21 | 28 | 18.29 | 5.90 | 0.63 | 0.0021 |
| | Algebra II | 124 | 40 | 15 | 23 | 32 | 15.64 | 5.88 | 0.66 | 0.0146 |
| | American History | 185 | 40 | 19 | 24 | 31 | 18.93 | 5.92 | 0.60 | 0.0160 |
| | Biology | 279 | 35 | 13 | 22 | 30 | 18.33 | 6.03 | 0.65 | 0.0033 |
| | English I | 246 | 40 | 16 | 25 | 33 | 21.07 | 7.10 | 0.64 | 0.0061 |
| | English II | 313 | 35 | 13 | 21 | 29 | 19.50 | 5.72 | 0.62 | 0.0026 |
| | Geometry | 192 | 40 | 17 | 23 | 32 | 19.73 | 5.79 | 0.58 | 0.0114 |
| | Government | 821 | 40 | 15 | 25 | 33 | 24.46 | 7.17 | 0.65 | 0.0025 |
| Fall 2011 | Algebra I | 3,999 | 35 | 12 | 20 | 28 | 19.66 | 8.00 | 0.67 | 0.0021 |
| | Algebra II | 514 | 40 | 16 | 24 | 33 | 27.16 | 7.32 | 0.66 | 0.0051 |
| | American History | 831 | 40 | 19 | 25 | 32 | 23.75 | 7.05 | 0.59 | 0.0056 |
| | Biology | 3,029 | 35 | 13 | 22 | 30 | 20.01 | 7.08 | 0.66 | 0.0014 |
| | English I | 220 | 40 | 16 | 25 | 33 | 24.21 | 8.17 | 0.66 | 0.0080 |
| | English II | 3,022 | 35 | 13 | 22 | 30 | 21.09 | 6.71 | 0.65 | 0.0011 |
| | Geometry | 729 | 40 | 17 | 24 | 32 | 25.96 | 8.51 | 0.67 | 0.0061 |
| | Government | 17,228 | 40 | 15 | 25 | 34 | 23.74 | 8.10 | 0.67 | 0.0006 |
| Spring 2012 | Algebra I | 64,446 | 35 | 12 | 21 | 28 | 21.51 | 6.66 | 0.63 | 0.0004 |
| | Algebra II | 25,150 | 40 | 15 | 23 | 32 | 23.75 | 7.18 | 0.63 | 0.0005 |
| | American History | 38,571 | 40 | 19 | 24 | 31 | 22.85 | 6.26 | 0.55 | 0.0008 |
| | Biology | 61,746 | 35 | 13 | 22 | 30 | 22.18 | 6.38 | 0.65 | 0.0002 |
| | English I | 44,303 | 40 | 16 | 25 | 33 | 25.79 | 6.85 | 0.63 | 0.0004 |
| | English II | 62,024 | 35 | 13 | 21 | 29 | 23.59 | 5.76 | 0.64 | 0.0003 |
| | Geometry | 30,251 | 40 | 17 | 23 | 32 | 24.33 | 6.29 | 0.60 | 0.0005 |
| | Government | 40,199 | 40 | 15 | 25 | 33 | 24.82 | 7.03 | 0.64 | 0.0004 |

**Table 10.29 – Classification Consistency Coefficients (Two Classification Categories)**

| Test Period | Subject | N-Count | N (Items) | Raw Cut Scores | Mean (RS) | SD (RS) | *Kappa* | SE (*k*) |
|---|---|---|---|---|---|---|---|---|
| | | | | Proficient/ Advanced | | | | |
| Summer 2011 | Algebra I | 629 | 35 | 21 | 18.29 | 5.90 | 0.56 | 0.0137 |
| | Algebra II | 124 | 40 | 23 | 15.64 | 5.88 | 0.48 | 0.0428 |
| | American History | 185 | 40 | 24 | 18.93 | 5.92 | 0.50 | 0.0308 |
| | Biology | 279 | 35 | 22 | 18.33 | 6.03 | 0.56 | 0.0207 |
| | English I | 246 | 40 | 25 | 21.07 | 7.10 | 0.61 | 0.0195 |
| | English II | 313 | 35 | 21 | 19.50 | 5.72 | 0.57 | 0.0195 |
| | Geometry | 192 | 40 | 23 | 19.73 | 5.79 | 0.51 | 0.0284 |
| | Government | 821 | 40 | 25 | 24.46 | 7.17 | 0.64 | 0.0095 |
| Fall 2011 | Algebra I | 3,999 | 35 | 20 | 19.66 | 8.00 | 0.72 | 0.0035 |
| | Algebra II | 514 | 40 | 24 | 27.16 | 7.32 | 0.66 | 0.0123 |
| | American History | 831 | 40 | 25 | 23.75 | 7.05 | 0.36 | 0.0098 |
| | Biology | 3,029 | 35 | 22 | 20.01 | 7.08 | 0.66 | 0.0047 |
| | English I | 220 | 40 | 25 | 24.21 | 8.17 | 0.70 | 0.0156 |
| | English II | 3,022 | 35 | 22 | 21.09 | 6.71 | 0.65 | 0.0050 |
| | Geometry | 729 | 40 | 24 | 25.96 | 8.51 | 0.72 | 0.0082 |
| | Government | 17,228 | 40 | 25 | 23.74 | 8.10 | 0.69 | 0.0018 |
| Spring 2012 | Algebra I | 64,446 | 35 | 21 | 21.51 | 6.66 | 0.64 | 0.0011 |
| | Algebra II | 25,150 | 40 | 23 | 23.75 | 7.18 | 0.64 | 0.0018 |
| | American History | 38,571 | 40 | 24 | 22.85 | 6.26 | 0.57 | 0.0017 |
| | Biology | 61,746 | 35 | 22 | 22.18 | 6.38 | 0.63 | 0.0012 |
| | English I | 44,303 | 40 | 25 | 25.79 | 6.85 | 0.63 | 0.0014 |
| | English II | 62,024 | 35 | 21 | 23.59 | 5.76 | 0.58 | 0.0014 |
| | Geometry | 30,251 | 40 | 23 | 24.33 | 6.29 | 0.57 | 0.0019 |
| | Government | 40,199 | 40 | 25 | 24.82 | 7.03 | 0.64 | 0.0014 |

**Table 10.30 – Raw Agreement Consistency Coefficients (Two Classification Categories)**

| Test Period | Subject | N-Count | N (Items) | Raw Cut Scores | Mean (RS) | SD (RS) | *p* | SE (*p*) |
|---|---|---|---|---|---|---|---|---|
| | | | | Proficient/ Advanced | | | | |
| Summer 2011 | Algebra I | 629 | 35 | 21 | 18.29 | 5.90 | 0.80 | 0.0061 |
| | Algebra II | 124 | 40 | 23 | 15.64 | 5.88 | 0.88 | 0.0127 |
| | American History | 185 | 40 | 24 | 18.93 | 5.92 | 0.82 | 0.0109 |
| | Biology | 279 | 35 | 22 | 18.33 | 6.03 | 0.81 | 0.0085 |
| | English I | 246 | 40 | 25 | 21.07 | 7.10 | 0.83 | 0.0082 |
| | English II | 313 | 35 | 21 | 19.50 | 5.72 | 0.78 | 0.0095 |
| | Geometry | 192 | 40 | 23 | 19.73 | 5.79 | 0.78 | 0.0119 |
| | Government | 821 | 40 | 25 | 24.46 | 7.17 | 0.82 | 0.0048 |
| Fall 2011 | Algebra I | 3,999 | 35 | 20 | 19.66 | 8.00 | 0.86 | 0.0017 |
| | Algebra 2 | 514 | 40 | 24 | 27.16 | 7.32 | 0.86 | 0.0049 |
| | American History | 831 | 40 | 25 | 23.75 | 7.05 | 0.82 | 0.0049 |
| | Biology | 3,029 | 35 | 22 | 20.01 | 7.08 | 0.83 | 0.0023 |
| | English I | 220 | 40 | 25 | 24.21 | 8.17 | 0.85 | 0.0078 |
| | English II | 3,022 | 35 | 22 | 21.09 | 6.71 | 0.82 | 0.0025 |
| | Geometry | 729 | 40 | 24 | 25.96 | 8.51 | 0.87 | 0.0037 |
| | Government | 17,228 | 40 | 25 | 23.74 | 8.10 | 0.85 | 0.0009 |
| Spring 2012 | Algebra I | 64,446 | 35 | 21 | 21.51 | 6.66 | 0.83 | 0.0005 |
| | Algebra II | 25,150 | 40 | 23 | 23.75 | 7.18 | 0.82 | 0.0009 |
| | American History | 38,571 | 40 | 24 | 22.85 | 6.26 | 0.78 | 0.0008 |
| | Biology | 61,746 | 35 | 22 | 22.18 | 6.38 | 0.82 | 0.0006 |
| | English I | 44,303 | 40 | 25 | 25.79 | 6.85 | 0.82 | 0.0007 |
| | English II | 62,024 | 35 | 21 | 23.59 | 5.76 | 0.83 | 0.0006 |
| | Geometry | 30,251 | 40 | 23 | 24.33 | 6.29 | 0.80 | 0.0009 |
| | Government | 40,199 | 40 | 25 | 24.82 | 7.03 | 0.82 | 0.0007 |

## 11.5 Validity Evidence Based on the Internal Structure of the MO EOC Assessments

Standard 1.11[9] pertains to the relationships between the parts of the test. Because the MO EOC Assessments measure student performance in several subjects, it is important to study the pattern of relationships among the content domains and clusters. One way to study patterns of relationships to provide evidence supporting the inferences made from test scores is the multitrait, multimethod matrix. Tables 11.1 – 11.6 summarize Pearson correlation coefficients among test domains and clusters for Algebra I, Algebra II, Biology, English II, Geometry, and Government. Because both English I and American History have only one content strand, correlation coefficients were not calculated for these EOC Assessments. The correlations between clusters within each assessment are in the moderate to moderately high range, suggesting strong relationships between the clusters. Note that the high correlations between cluster scores and total assessment scores are inflated because of the overlap of items.

**Table 11.1 – Pearson Correlation Coefficients Between Domains and Clusters for Algebra I**

| Test Period | Subject | N-Count | Content Strand | Number and Operations | Algebraic Relationships | Data and Probability |
|---|---|---|---|---|---|---|
| Summer 2011 | Algebra I | 629 | Number and Operations | 1.00 | 0.56 | 0.42 |
| | | | Algebraic Relationships | | 1.00 | 0.54 |
| | | | Data and Probability | | | 1.00 |
| Fall 2011 | Algebra I | 3,999 | Number and Operations | 1.00 | 0.74 | 0.66 |
| | | | Algebraic Relationships | | 1.00 | 0.71 |
| | | | Data and Probability | | | 1.00 |
| Spring 2012 | Algebra I | 64,446 | Number and Operations | 1.00 | 0.66 | 0.56 |
| | | | Algebraic Relationships | | 1.00 | 0.63 |
| | | | Data and Probability | | | 1.00 |

[9] Standard 1.11: If the rationale for a test use or interpretation depends on premises about the relationships among parts of the test, evidence concerning the internal structure of the test should be provided (p. 20).

**Table 11.2 – Pearson Correlation Coefficients Between Domains and Clusters for Algebra II**

| Test Period | Subject | N-Count | Content Strand | Number and Operations | Algebraic Relationships | Data and Probability |
|---|---|---|---|---|---|---|
| Summer 2011 | Algebra II | 124 | Number and Operations | 1.00 | 0.52 | 0.42 |
| | | | Algebraic Relationships | | 1.00 | 0.51 |
| | | | Data and Probability | | | 1.00 |
| Fall 2011 | Algebra II | 514 | Number and Operations | 1.00 | 0.67 | 0.55 |
| | | | Algebraic Relationships | | 1.00 | 0.66 |
| | | | Data and Probability | | | 1.00 |
| Spring 2012 | Algebra II | 25,150 | Number and Operations | 1.00 | 0.62 | 0.50 |
| | | | Algebraic Relationships | | 1.00 | 0.59 |
| | | | Data and Probability | | | 1.00 |

**Table 11.3 – Pearson Correlation Coefficients Between Domains and Clusters for Biology**

| Test Period | Subject | N-Count | Content Strand | Characteristics and Interactions of Living Organisms | Changes in Ecosystems and Interactions of Organisms with their Environments |
|---|---|---|---|---|---|
| Summer 2011 | Biology | 279 | Characteristics and Interactions of Living Organisms | 1.00 | 0.60 |
| | | | Changes in Ecosystems and Interactions of Organisms with their Environments | | 1.00 |
| Fall 2011 | Biology | 3,029 | Characteristics and Interactions of Living Organisms | 1.00 | 0.69 |
| | | | Changes in Ecosystems and Interactions of Organisms with their Environments | | 1.00 |
| Spring 2012 | Biology | 61,746 | Characteristics and Interactions of Living Organisms | 1.00 | 0.66 |
| | | | Changes in Ecosystems and Interactions of Organisms with their Environments | | 1.00 |

**Table 11.4 – Pearson Correlation Coefficients Between Domains and Clusters for English II**

| Test Period | Subject | N-Count | Content Strand | Reading | Writing |
|---|---|---|---|---|---|
| Summer 2011 | English II | 313 | Reading | 1.00 | 0.32 |
| | | | Writing | | 1.00 |
| Fall 2011 | English II | 3,022 | Reading | 1.00 | 0.53 |
| | | | Writing | | 1.00 |
| Spring 2012 | English II | 62,024 | Reading | 1.00 | 0.46 |
| | | | Writing | | 1.00 |

**Table 11.5 – Pearson Correlation Coefficients Between Domains and Clusters for Geometry**

| Test Period | Subject | N-Count | Content Strand | Geometry/ Algebraic Relationships | Geometric and Spatial Relationships | Measurement |
|---|---|---|---|---|---|---|
| Summer 2011 | Geometry | 192 | Geometry/Algebraic Relationships | 1.00 | 0.44 | 0.39 |
| | | | Geometric and Spatial Relationships | | 1.00 | 0.57 |
| | | | Measurement | | | 1.00 |
| Fall 2011 | Geometry | 729 | Geometry/Algebraic Relationships | 1.00 | 0.74 | 0.65 |
| | | | Geometric and Spatial Relationships | | 1.00 | 0.76 |
| | | | Measurement | | | 1.00 |
| Spring 2012 | Geometry | 30,251 | Geometry/Algebraic Relationships | 1.00 | 0.54 | 0.47 |
| | | | Geometric and Spatial Relationships | | 1.00 | 0.60 |
| | | | Measurement | | | 1.00 |

**Table 11.6 – Pearson Correlation Coefficients Between Domains and Clusters for Government**

| Test Period | Subject | N-Count | Content Strand | Principles and Processes of Governance Systems | Principles of Constitutional Democracy |
|---|---|---|---|---|---|
| Summer 2011 | Government | 821 | Principles and Processes of Governance Systems | 1.00 | 0.76 |
| | | | Principles of Constitutional Democracy | | 1.00 |
| Fall 2011 | Government | 17,228 | Principles and Processes of Governance Systems | 1.00 | 0.80 |
| | | | Principles of Constitutional Democracy | | 1.00 |
| Spring 2012 | Government | 40,199 | Principles and Processes of Governance Systems | 1.00 | 0.74 |
| | | | Principles of Constitutional Democracy | | 1.00 |

### 11.6 Discriminant Validity Evidence for the MO EOC Assessments

Table 11.7 provides evidence of discriminant validity with correlations between all assessments for the Spring 2012 administration period. Using the Missouri unique student identification, the datasets were merged and only those students taking two or more statements were used in this analysis. For more information, Appendix B contains a construct validity study on the MO EOC Assessments, conducted by CTB/McGraw-Hill.

Evidence of discriminant validity is seen when comparing correlations between the similar contents of Algebra I and Geometry (0.71), Algebra I and Algebra II (0.79), and English II and English I (0.73), as well as the dissimilar contents of Algebra I and English I (0.52), English II and Algebra II (0.55), and English II and Geometry (0.53).

**Table 11.7 – Pearson Correlation Coefficients Between Phase I and Phase II Assessments**

| | Algebra II | English I | History | Geometry | Government |
|---|---|---|---|---|---|
| **Algebra I** | 0.79 (N= 145) | 0.52 (N= 3,483) | 0.50 (N= 2,842) | 0.71 (N= 276) | 0.62 (N= 2,560) |
| **Biology** | 0.59 (N= 5,977) | 0.58 (N= 3,535) | 0.64 (N= 5,820) | 0.56 (N= 9,382) | 0.72 (N= 4,237) |
| **English II** | 0.55 (N= 5,956) | 0.73 (N= 269) | 0.64 (N= 5,256) | 0.53 (N= 9,455) | 0.69 (N= 4,089) |

## References

American Educational Research Association (AERA), American Psychological Association (APA), and the National Council on Measurement in Education (NCME). 1999. *Standards for educational and psychological testing*. Washington, D.C.: American Psychological Association.

Huynh, H. 1979. Computational and statistical inference for two reliability indices based on the beta-binomial model. *Journal of Educational Statistics* 4:231–246.

Appendix A

# Impact of Performance Event Removal

***A Comparison of Spring 2011 Preliminary Impact Data with Spring 2010 Census Impact Data***

- Presented to the DESE Assessment Technical Advisory Committee (TAC) by Riverside Publishing in December 2010 and March 2011

At the request of the Department of Elementary and Secondary Education (DESE), Riverside Publishing performed a series of analyses to study the potential impact of removing performance events (PE) from the Missouri End-of-Course assessments. The analyses focused on the Phase I assessments, which include English II, Algebra I, and Biology.

Riverside reported results from these analyses to the DESE Assessment Technical Advisory Committee (TAC) at the December 2010 and March 2011 Meetings. The TAC determined that for Algebra I and English II, new performance standards would not need to be set and that no further adjustments were necessary. For Biology, however, where 20 score points were dropped, the TAC recommended that an equipercentile method be used to yield more consistent results.

This report shows the impact (in terms of percentage in each performance category) after removing performance events (PE) from the Spring 2011 Missouri End-of-Course assessments. Results are based on the data that was available as of 5/23/2011. Tables 1.1 through 1.3 show the number correct raw score and scale cut scores for the Spring 2011 assessments.

**Table 1.1 – Raw Cut Scores for English II**

| Achievement Level | Raw Score | Scale Score |
|---|---|---|
| Below Basic | 0-11 | 100-179 |
| Basic | 12-20 | 180-199 |
| Proficient | 21-29 | 200-224 |
| Advanced | 30-35 | 225-250 |

**Table 1.2 – Raw Cut Scores for Algebra I**

| Achievement Level | Raw Score | Scale Score |
|---|---|---|
| Below Basic | 0-11 | 100-176 |
| Basic | 12-19 | 177-199 |
| Proficient | 20-27 | 200-224 |
| Advanced | 28-35 | 225-250 |

**Table 1.3 – Raw Cut Scores for Biology**

| Achievement Level | Raw Score | Scale Score |
|---|---|---|
| Below Basic | 0-12 | 100-177 |
| Basic | 13-21 | 178-199 |
| Proficient | 22-29 | 200-224 |
| Advanced | 30-35 | 225-250 |

Tables 1.4 through 1.6 provide comparisons of the Spring 2011 data set and the Spring 2010 census data. Inspection of these tables shows that the demographics for the Spring 2011 samples were very similar to the census, or complete set of data. Table 1.7 shows a comparison of the performance level distributions for the Spring 2011 sample data and the Spring 2010 census data. The raw score distributions for Spring 2011 are presented in Table 1.8. Also, the school districts included in the Spring 2011 data sample are listed in Table 1.9.

**Table 1.4 – Comparison of the Spring 2010 Census Data and Spring 2011 Sample Data, English II**

| | Spring 2010 | | Spring 2011 | | Difference |
|---|---|---|---|---|---|
| | N | % | N | % | |
| **All Students** | 61,802 | | 54,886 | | |
| **Gender** | | | | | |
| Female | 30,983 | 50.1 | 27,591 | 50.3 | 0.2 |
| Male | 30,819 | 49.9 | 27,295 | 49.7 | -0.2 |
| **Race/Ethnicity** | | | | | |
| White | 48,602 | 78.7 | 44,941 | 81.0 | 2.3 |
| Black | 9,833 | 15.9 | 7,353 | 13.3 | -2.6 |
| Hispanic | 1,865 | 3.0 | 1,853 | 3.3 | 0.3 |
| Asian | 1,113 | 1.8 | 1,063 | 1.9 | 0.1 |
| American Indian | 330 | 0.5 | 249 | 0.5 | 0.0 |

**Table 1.5 – Comparison of the Spring 2010 Census Data and Spring 2011 Sample Data, Algebra I**

| | Spring 2010 | | Spring 2011 | | Difference |
|---|---|---|---|---|---|
| | N | % | N | % | |
| **All Students** | 60,454 | | 54,135 | | |
| **Gender** | | | | | |
| Female | 30,460 | 50.4 | 27,012 | 49.9 | -0.5 |
| Male | 29,994 | 49.6 | 27,123 | 50.1 | 0.5 |
| **Race/Ethnicity** | | | | | |
| White | 47,090 | 78.0 | 43,573 | 80.6 | 2.6 |
| Black | 9,636 | 16.0 | 7,443 | 13.8 | -2.2 |
| Hispanic | 2,069 | 3.4 | 1,726 | 3.2 | -0.2 |
| Asian | 1,293 | 2.1 | 1,033 | 1.9 | -0.2 |
| American Indian | 314 | 0.5 | 272 | 0.5 | 0.0 |

**Table 1.6 – Comparison of the Spring 2010 Census Data and Spring 2011 Sample Data, Biology**

| | Spring 2010 | | Spring 2011 | | Difference |
|---|---|---|---|---|---|
| | N | % | N | % | |
| **All Students** | 59,809 | | 56,124 | | |
| **Gender** | | | | | |
| Female | 30,272 | 50.6 | 27,463 | 48.9 | -1.7 |
| Male | 29,537 | 49.4 | 28,661 | 51.1 | 1.7 |
| **Race/Ethnicity** | | | | | |
| White | 47,069 | 78.7 | 42,930 | 80.4 | 1.7 |
| Black | 9,276 | 15.5 | 7,372 | 13.8 | -1.7 |
| Hispanic | 1,927 | 3.2 | 1,772 | 3.3 | 0.1 |
| Asian | 1,164 | 1.9 | 1,041 | 2.0 | 0.1 |
| American Indian | 340 | 0.6 | 270 | 0.5 | -0.1 |

**Table 1.7 – Comparison of the Performance Level Distributions for the Spring 2011 Sample and the Spring 2010 Census**

| | Performance Level | 2011 Sample | | 2010 Census | | Difference (2011-2010) |
|---|---|---|---|---|---|---|
| | | N | % | N | % | % |
| **English II** | Below Basic | 2,100 | 3.7 | 1,830 | 3.0 | 0.7 |
| | Basic | 11,672 | 20.8 | 14,260 | 23.0 | -2.2 |
| | Proficient | 27,157 | 48.4 | 31,658 | 51.1 | -2.8 |
| | Advanced | 15,242 | 27.1 | 14,163 | 22.9 | 4.2 |
| **Algebra I** | Below Basic | 445 | 8.1 | 3,733 | 6.2 | 1.9 |
| | Basic | 16,134 | 29.4 | 20,593 | 34.0 | -4.6 |
| | Proficient | 22,884 | 41.7 | 25,381 | 41.9 | -0.2 |
| | Advanced | 11,436 | 20.8 | 10,837 | 17.9 | 2.9 |
| **Biology** | Below Basic | 3,087 | 5.7 | 3,703 | 6.2 | -0.5 |
| | Basic | 16,515 | 30.5 | 20,890 | 34.9 | -4.4 |
| | Proficient | 25,807 | 47.6 | 27,984 | 46.7 | 0.9 |
| | Advanced | 8,757 | 16.2 | 7,327 | 12.2 | 4.0 |

**Table 1.8 Raw Score Distributions for Spring 2011**

| | | English II | | | |
|---|---|---|---|---|---|
| RS | PL | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| 1 | Below Basic | 0 | 0.0 | 0 | 0.0 |
| 2 | Below Basic | 1 | 0.0 | 1 | 0.0 |
| 3 | Below Basic | 7 | 0.0 | 8 | 0.0 |
| 4 | Below Basic | 30 | 0.1 | 38 | 0.1 |
| 5 | Below Basic | 43 | 0.1 | 81 | 0.1 |
| 6 | Below Basic | 82 | 0.2 | 163 | 0.3 |
| 7 | Below Basic | 162 | 0.3 | 325 | 0.6 |
| 8 | Below Basic | 279 | 0.5 | 604 | 1.1 |
| 9 | Below Basic | 384 | 0.7 | 988 | 1.8 |
| 10 | Below Basic | 478 | 0.9 | 1466 | 2.6 |
| 11 | Below Basic | 634 | 1.1 | 2100 | 3.7 |
| 12 | Basic | 755 | 1.3 | 2855 | 5.1 |
| 13 | Basic | 816 | 1.5 | 3671 | 6.5 |
| 14 | Basic | 967 | 1.7 | 4638 | 8.3 |
| 15 | Basic | 1133 | 2.0 | 5771 | 10.3 |
| 16 | Basic | 1258 | 2.2 | 7029 | 12.5 |
| 17 | Basic | 1458 | 2.6 | 8487 | 15.1 |
| 18 | Basic | 1624 | 2.9 | 10111 | 18.0 |
| 19 | Basic | 1772 | 3.2 | 11883 | 21.2 |
| 20 | Basic | 1889 | 3.4 | 13772 | 24.5 |
| 21 | Proficient | 2143 | 3.8 | 15915 | 28.3 |
| 22 | Proficient | 2375 | 4.2 | 18290 | 32.6 |
| 23 | Proficient | 2480 | 4.4 | 20770 | 37.0 |
| 24 | Proficient | 2845 | 5.1 | 23615 | 42.0 |
| 25 | Proficient | 2985 | 5.3 | 26600 | 47.4 |
| 26 | Proficient | 3241 | 5.8 | 29841 | 53.1 |
| 27 | Proficient | 3592 | 6.4 | 33433 | 59.5 |
| 28 | Proficient | 3682 | 6.6 | 37115 | 66.1 |
| 29 | Proficient | 3814 | 6.8 | 40929 | 72.9 |
| 30 | Advanced | 3893 | 6.9 | 44822 | 79.8 |
| 31 | Advanced | 3718 | 6.6 | 48540 | 86.4 |
| 32 | Advanced | 3316 | 5.9 | 51856 | 92.3 |
| 33 | Advanced | 2527 | 4.5 | 54383 | 96.8 |
| 34 | Advanced | 1343 | 2.4 | 55726 | 99.2 |
| 35 | Advanced | 445 | 0.8 | 56171 | 100.0 |

Table 1.8 Raw Score Distributions for Spring 2011 (continued)

| | | Algebra I | | | |
|---|---|---|---|---|---|
| RS | PL | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| 1 | Below Basic | 1 | 0.0 | 1 | 0.0 |
| 2 | Below Basic | 8 | 0.0 | 9 | 0.0 |
| 3 | Below Basic | 12 | 0.0 | 21 | 0.0 |
| 4 | Below Basic | 38 | 0.1 | 59 | 0.1 |
| 5 | Below Basic | 102 | 0.2 | 161 | 0.3 |
| 6 | Below Basic | 227 | 0.4 | 388 | 0.7 |
| 7 | Below Basic | 375 | 0.7 | 763 | 1.4 |
| 8 | Below Basic | 596 | 1.1 | 1359 | 2.5 |
| 9 | Below Basic | 828 | 1.5 | 2187 | 4.0 |
| 10 | Below Basic | 1057 | 1.9 | 3244 | 5.9 |
| 11 | Below Basic | 1209 | 2.2 | 4453 | 8.1 |
| 12 | Basic | 1445 | 2.6 | 5898 | 10.7 |
| 13 | Basic | 1610 | 2.9 | 7508 | 13.7 |
| 14 | Basic | 1757 | 3.2 | 9265 | 16.9 |
| 15 | Basic | 2009 | 3.7 | 11274 | 20.5 |
| 16 | Basic | 2094 | 3.8 | 13368 | 24.4 |
| 17 | Basic | 2231 | 4.1 | 15599 | 28.4 |
| 18 | Basic | 2402 | 4.4 | 18001 | 32.8 |
| 19 | Basic | 2586 | 4.7 | 20587 | 37.5 |
| 20 | Proficient | 2687 | 4.9 | 23274 | 42.4 |
| 21 | Proficient | 2779 | 5.1 | 26053 | 47.5 |
| 22 | Proficient | 2820 | 5.1 | 28873 | 52.6 |
| 23 | Proficient | 2956 | 5.4 | 31829 | 58.0 |
| 24 | Proficient | 2929 | 5.3 | 34758 | 63.3 |
| 25 | Proficient | 2927 | 5.3 | 37685 | 68.6 |
| 26 | Proficient | 2890 | 5.3 | 40575 | 73.9 |
| 27 | Proficient | 2896 | 5.3 | 43471 | 79.2 |
| 28 | Advanced | 2517 | 4.6 | 45988 | 83.8 |
| 29 | Advanced | 2447 | 4.5 | 48435 | 88.2 |
| 30 | Advanced | 2079 | 3.8 | 50514 | 92.0 |
| 31 | Advanced | 1702 | 3.1 | 52216 | 95.1 |
| 32 | Advanced | 1271 | 2.3 | 53487 | 97.4 |
| 33 | Advanced | 811 | 1.5 | 54298 | 98.9 |
| 34 | Advanced | 452 | 0.8 | 54750 | 99.7 |
| 35 | Advanced | 157 | 0.3 | 54907 | 100.0 |

**Table 1.8 Raw Score Distributions for Spring 2011 (continued)**

| | | Biology | | | |
|---|---|---|---|---|---|
| RS | PL | Frequency | Percent | Cumulative Frequency | Cumulative Percent |
| 1 | Below Basic | 2 | 0.0 | 2 | 0.0 |
| 2 | Below Basic | 1 | 0.0 | 3 | 0.0 |
| 3 | Below Basic | 12 | 0.0 | 15 | 0.0 |
| 4 | Below Basic | 14 | 0.0 | 29 | 0.1 |
| 5 | Below Basic | 41 | 0.1 | 70 | 0.1 |
| 6 | Below Basic | 97 | 0.2 | 167 | 0.3 |
| 7 | Below Basic | 183 | 0.3 | 350 | 0.7 |
| 8 | Below Basic | 283 | 0.5 | 633 | 1.2 |
| 9 | Below Basic | 399 | 0.7 | 1032 | 1.9 |
| 10 | Below Basic | 573 | 1.1 | 1605 | 3.0 |
| 11 | Below Basic | 665 | 1.2 | 2270 | 4.2 |
| 12 | Below Basic | 817 | 1.5 | 3087 | 5.7 |
| 13 | Basic | 1023 | 1.9 | 4110 | 7.6 |
| 14 | Basic | 1134 | 2.1 | 5244 | 9.7 |
| 15 | Basic | 1395 | 2.6 | 6639 | 12.3 |
| 16 | Basic | 1592 | 2.9 | 8231 | 15.2 |
| 17 | Basic | 1795 | 3.3 | 10026 | 18.5 |
| 18 | Basic | 2016 | 3.7 | 12042 | 22.2 |
| 19 | Basic | 2350 | 4.3 | 14392 | 26.6 |
| 20 | Basic | 2426 | 4.5 | 16818 | 31.1 |
| 21 | Basic | 2784 | 5.1 | 19602 | 36.2 |
| 22 | Proficient | 3054 | 5.6 | 22656 | 41.8 |
| 23 | Proficient | 3175 | 5.9 | 25831 | 47.7 |
| 24 | Proficient | 3240 | 6.0 | 29071 | 53.7 |
| 25 | Proficient | 3444 | 6.4 | 32515 | 60.0 |
| 26 | Proficient | 3448 | 6.4 | 35963 | 66.4 |
| 27 | Proficient | 3326 | 6.1 | 39289 | 72.5 |
| 28 | Proficient | 3184 | 5.9 | 42473 | 78.4 |
| 29 | Proficient | 2936 | 5.4 | 45409 | 83.8 |
| 30 | Advanced | 2590 | 4.8 | 47999 | 88.6 |
| 31 | Advanced | 2168 | 4.0 | 50167 | 92.6 |
| 32 | Advanced | 1779 | 3.3 | 51946 | 95.9 |
| 33 | Advanced | 1281 | 2.4 | 53227 | 98.3 |
| 34 | Advanced | 702 | 1.3 | 53929 | 99.6 |
| 35 | Advanced | 237 | 0.4 | 54166 | 100.0 |

Table 1.9 Districts Included in the Spring 2011 Data

| District Name | District Code |
|---|---|
| ADAIR CO. R-II | 1092 |
| ADVANCE R-IV | 103129 |
| AFFTON 101 | 96098 |
| ALBANY R-III | 38046 |
| ALTON R-IV | 75087 |
| APPLETON CITY R-II | 93120 |
| ARCADIA VALLEY R-II | 47062 |
| ARCHIE R-V | 19139 |
| ASH GROVE R-IV | 39135 |
| ATLANTA C-3 | 61150 |
| AURORA R-VIII | 55110 |
| AVA R-I | 34124 |
| AVENUE CITY R-IX | 2090 |
| BAKERSFIELD R-IV | 77101 |
| BALLARD R-II | 7122 |
| BAYLESS | 96099 |
| BELL CITY R-II | 103128 |
| BELTON 124 | 19152 |
| BERNIE R-XIII | 103135 |
| BEVIER C-4 | 61151 |
| BILLINGS R-IV | 22091 |
| BISMARCK R-V | 94076 |
| BLAIR OAKS R-II | 26002 |
| BLOOMFIELD R-XIV | 103131 |
| BLUE EYE R-V | 104045 |
| BLUE SPRINGS R-IV | 48068 |
| BOLIVAR R-I | 84001 |
| BOONVILLE R-I | 27061 |
| BOSWORTH R-V | 17124 |
| BOWLING GREEN R-I | 82100 |
| BRADLEYVILLE R-I | 106001 |
| BRAYMER C-4 | 13061 |
| BRECKENRIDGE R-I | 13054 |
| BRENTWOOD | 96101 |
| BROOKFIELD R-III | 58112 |
| BRUNSWICK R-II | 21149 |
| BUCHANAN CO. R-IV | 11079 |
| BUCKLIN R-II | 58107 |
| BUNKER R-III | 90077 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| BUTLER R-V | 7129 |
| CABOOL R-IV | 107155 |
| CAINSVILLE R-I | 41001 |
| CALHOUN R-VIII | 42117 |
| CAMDENTON R-III | 15002 |
| CAMERON R-I | 25001 |
| CAMPBELL R-II | 35093 |
| CANTON R-V | 56015 |
| CAPE GIRARDEAU 63 | 16096 |
| CARL JUNCTION R-I | 49132 |
| CARROLLTON R-VII | 17125 |
| CARTHAGE R-IX | 49142 |
| CARUTHERSVILLE 18 | 78012 |
| CASSVILLE R-IV | 5123 |
| CENTER 58 | 48080 |
| CENTRAL R-III | 94086 |
| CENTRALIA R-VI | 10091 |
| CHADWICK R-I | 22088 |
| CHAFFEE R-II | 100060 |
| CHARLESTON R-I | 67061 |
| CHILHOWEE R-IV | 51153 |
| CHILLICOTHE R-II | 59117 |
| CLARK CO. R-I | 23101 |
| CLARKTON C-4 | 35097 |
| CLAYTON | 96102 |
| CLEARWATER R-I | 111087 |
| CLEVER R-V | 22092 |
| CLIMAX SPRINGS R-IV | 15003 |
| CLINTON | 42124 |
| CLINTON CO. R-III | 25003 |
| COLE CAMP R-I | 8111 |
| COLE CO. R-I | 26001 |
| COLE CO. R-V | 26005 |
| COLUMBIA 93 | 10093 |
| COMMUNITY R-VI | 4106 |
| CONCORDIA R-II | 54037 |
| CONSTRUCTION CAREERS | 115901 |
| COOPER CO. R-IV | 27056 |
| COOTER R-IV | 78004 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| CRAIG R-III | 44078 |
| CRANE R-III | 104043 |
| CRAWFORD CO. R-I | 28101 |
| CRAWFORD CO. R-II | 28102 |
| CROCKER R-II | 85049 |
| CRYSTAL CITY 47 | 50013 |
| DADEVILLE R-II | 29002 |
| DALLAS CO. R-I | 30093 |
| DELASALLE CHARTER | 48923 |
| DELTA C-7 | 78009 |
| DELTA R-V | 16092 |
| DENT PHELPS R III | 33093 |
| DERRICK THOMAS ACAD | 48917 |
| DIAMOND R-IV | 73102 |
| DIXON R-I | 85048 |
| DONIPHAN R-I | 91092 |
| DREXEL R-IV | 19150 |
| DUNKLIN R-V | 50005 |
| EAST BUCHANAN CO C 1 | 11076 |
| EAST CARTER R II | 18047 |
| EAST NEWTON CO. R-VI | 73099 |
| EAST PRAIRIE R-II | 67055 |
| EL DORADO SPR R II | 20002 |
| ELDON R-I | 66102 |
| ELSBERRY R-II | 57002 |
| EMINENCE R-I | 101107 |
| EVERTON R-III | 29003 |
| EXCELSIOR SPRINGS 40 | 24089 |
| EXETER R-VI | 5122 |
| FAIR GROVE R-X | 39142 |
| FAIR PLAY R-II | 84002 |
| FAIRFAX R-III | 3033 |
| FARMINGTON R-VII | 94078 |
| FAYETTE R-III | 45077 |
| FERGUSON FLORISSANT | 96089 |
| FESTUS R-VI | 50006 |
| FORDLAND R-III | 112101 |
| FORSYTH R-III | 106003 |
| FORT OSAGE R-I | 48066 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| FOX C-6 | 50012 |
| FRANCIS HOWELL R-III | 92088 |
| FRANKLIN CO. R-II | 36123 |
| FREDERICKTOWN R-I | 62072 |
| FT. ZUMWALT R-II | 92087 |
| FULTON 58 | 14129 |
| GAINESVILLE R-V | 77102 |
| GALENA R-II | 104042 |
| GALLATIN R-V | 31121 |
| GASCONADE CO. R-I | 37039 |
| GASCONADE CO. R-II | 37037 |
| GIDEON 37 | 72073 |
| GILMAN CITY R-IV | 41004 |
| GLASGOW | 45078 |
| GOLDEN CITY R-III | 6103 |
| GRAIN VALLEY R-V | 48069 |
| GRANDVIEW C-4 | 48074 |
| GRANDVIEW R-II | 50002 |
| GREEN CITY R-I | 105123 |
| GREEN FOREST R-II | 33092 |
| GREEN RIDGE R-VIII | 80121 |
| GREENFIELD R-IV | 29004 |
| GREENVILLE R-II | 111086 |
| GREENWOOD LAB SCHOOL | 119119 |
| GRUNDY CO. R-V | 40100 |
| HALE R-I | 17121 |
| HALFWAY R-III | 84003 |
| HALLSVILLE R-IV | 10089 |
| HAMILTON R-II | 13055 |
| HANCOCK PLACE | 96103 |
| HANNIBAL 60 | 64075 |
| HARDIN CENTRAL C 2 | 89088 |
| HARRISBURG R-VIII | 10092 |
| HARRISONVILLE R-IX | 19149 |
| HARTVILLE R-II | 114113 |
| HAYTI R-II | 78002 |
| HAZELWOOD | 96088 |
| HENRY CO. R-I | 42111 |
| HICKMAN MILLS C-1 | 48072 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| HICKORY CO. R-I | 43001 |
| HIGBEE R-VIII | 88075 |
| HIGH POINT R-III | 68071 |
| HILLSBORO R-III | 50003 |
| HOGAN PREPARATORY AC | 48904 |
| HOLCOMB R-III | 35094 |
| HOLDEN R-III | 51152 |
| HOLLISTER R-V | 106005 |
| HOPE ACADEMY CH | 48920 |
| HOUSTON R-I | 107152 |
| HUDSON R-IX | 7126 |
| HUMANSVILLE R-IV | 84004 |
| HUME R-VIII | 7125 |
| HURLEY R-I | 104041 |
| IBERIA R-V | 66107 |
| IMAGINE ACADEMY OF C | 115908 |
| INDEPENDENCE 30 | 48077 |
| IRON CO. C-4 | 47065 |
| ISLAMIC SCH OF G K C | 120120 |
| JACKSON R-II | 16090 |
| JAMESTOWN C-1 | 68074 |
| JASPER CO. R-V | 49137 |
| JEFFERSON C-123 | 74195 |
| JEFFERSON CITY | 26006 |
| JEFFERSON CO. R-VII | 50007 |
| JENNINGS | 96104 |
| JOHNSON CO. R-VII | 51154 |
| JOPLIN SCHOOLS | 49148 |
| KEARNEY R-I | 24086 |
| KENNETT 39 | 35102 |
| KEYTESVILLE R-III | 21150 |
| KING CITY R-I | 38044 |
| KINGSTON K-14 | 110014 |
| KINGSVILLE R-I | 51150 |
| KIRBYVILLE R-VI | 106006 |
| KIRKSVILLE R-III | 1091 |
| KIRKWOOD R-VII | 96092 |
| KNOB NOSTER R-VIII | 51155 |
| KNOX CO. R-I | 52096 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| LA MONTE R-IV | 80118 |
| LA PLATA R-II | 61154 |
| LACLEDE CO. C-5 | 53114 |
| LACLEDE CO. R-I | 53111 |
| LADUE | 96106 |
| LAFAYETTE CO. C-1 | 54039 |
| LAKELAND R-III | 93123 |
| LAMAR R-I | 6104 |
| LAQUEY R-V | 85045 |
| LATHROP R-II | 25002 |
| LAWSON R-XIV | 89080 |
| LEBANON R-III | 53113 |
| LEE A TOLBERT COM AC | 48910 |
| LEE'S SUMMIT R-VII | 48071 |
| LEETON R-X | 51156 |
| LEOPOLD R-III | 9078 |
| LESTERVILLE R-IV | 90078 |
| LEWIS CO. C-1 | 56017 |
| LEXINGTON R-V | 54045 |
| LIBERAL R-II | 6101 |
| LIBERTY 53 | 24090 |
| LICKING R-VIII | 107154 |
| LIFT FOR LIFE ACADEM | 115902 |
| LINCOLN R-II | 8106 |
| LINDBERGH SCHOOLS | 96093 |
| LINN CO. R-I | 58106 |
| LOCKWOOD R-I | 29001 |
| LOGAN ROGERSV R VIII | 39139 |
| LONE JACK C-6 | 48075 |
| LONEDELL R-XIV | 36133 |
| LOUISIANA R-II | 82108 |
| LUTIE R-VI | 77104 |
| MACKS CREEK R-V | 15004 |
| MACON CO. R-I | 61156 |
| MACON CO. R-IV | 61158 |
| MADISON C-3 | 69108 |
| MALDEN R-I | 35092 |
| MALTA BEND R-V | 97119 |
| MANSFIELD R-IV | 114115 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| MAPLEWOOD RICHMOND | 96107 |
| MARCELINE R-V | 58109 |
| MARIES CO. R-I | 63066 |
| MARIES CO. R-II | 63067 |
| MARION C. EARLY R-V | 84005 |
| MARION CO. R-II | 64072 |
| MARIONVILLE R-IX | 55106 |
| MARQUAND ZION R VI | 62070 |
| MARSHALL | 97129 |
| MARSHFIELD R-I | 112102 |
| MARYVILLE R-II | 74201 |
| MAYSVILLE R-I | 32055 |
| MCDONALD CO. R-I | 60077 |
| MEADOW HEIGHTS R-II | 9077 |
| MEADVILLE R-IV | 58108 |
| MEHLVILLE R-IX | 96094 |
| MERAMEC VALLEY R-III | 36126 |
| MEXICO 59 | 4110 |
| MIAMI R-I | 7121 |
| MID BUCHANAN CO R V | 11078 |
| MIDDLE GROVE C-1 | 69104 |
| MILLER CO. R-III | 66103 |
| MILLER R-II | 55104 |
| MOBERLY | 88081 |
| MONETT R-I | 5128 |
| MONITEAU CO. R-I | 68070 |
| MONROE CITY R-I | 69106 |
| MONTGOMERY CO. R-II | 70093 |
| MONTROSE R-XIV | 42121 |
| MORGAN CO. R-I | 71091 |
| MORGAN CO. R-II | 71092 |
| MOUND CITY R-II | 44083 |
| MOUNTAIN GROVE R-III | 114114 |
| MOUNTAIN VIEW R III | 46130 |
| MOVIP | 401401 |
| MT. VERNON R-V | 55108 |
| NAYLOR R-II | 91091 |
| NEOSHO R-V | 73108 |
| NEVADA R-V | 108142 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| NEW BLOOMFIELD R-III | 14127 |
| NEW FRANKLIN R-I | 45076 |
| NEW HAVEN | 36138 |
| NEW MADRID CO. R-I | 72074 |
| NEWBURG R-II | 81095 |
| NEWTOWN HARRIS R III | 105125 |
| NIANGUA R-V | 112099 |
| NIXA R-II | 22089 |
| NODAWAY HOLT R VII | 74187 |
| NORBORNE R-VIII | 17126 |
| NORMANDY | 96109 |
| NORTH ANDREW CO R VI | 2089 |
| NORTH CALLAWAY CO | 14126 |
| NORTH DAVIESS R-III | 31118 |
| NORTH HARRISON R-III | 41003 |
| NORTH KANSAS CITY 74 | 24093 |
| NORTH MERCER CO. R-3 | 65096 |
| NORTH NODAWAY CO. | 74197 |
| NORTH PEMISCOT CO. R | 78001 |
| NORTH PLATTE CO. R-I | 83001 |
| NORTH SHELBY | 102081 |
| NORTH ST. FRANCOIS C | 94083 |
| NORTHEAST NODAWAY CO | 74194 |
| NORTHEAST VER CO R I | 108147 |
| NORTHWEST R-I | 50001 |
| NORTHWESTERN R-I | 21148 |
| NORWOOD R-I | 114112 |
| OAK RIDGE R-VI | 16094 |
| ODESSA R-VII | 54041 |
| ORAN R-III | 100065 |
| ORCHARD FARM R-V | 92091 |
| OREGON HOWELL R III | 75086 |
| ORRICK R-XI | 89087 |
| OSAGE CO. R-I | 76081 |
| OSAGE CO. R-II | 76082 |
| OSAGE CO. R-III | 76083 |
| OSBORN R-O | 32054 |
| OSCEOLA | 93124 |
| OTTERVILLE R-VI | 27058 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| OZARK R-VI | 22093 |
| PALMYRA R-I | 64074 |
| PARIS R-II | 69109 |
| PARK HILL | 83005 |
| PARKWAY C-2 | 96095 |
| PATTONSBURG R-II | 31116 |
| PATTONVILLE R-III | 96090 |
| PERRY CO. 32 | 79077 |
| PETTIS CO. R-V | 80116 |
| PHELPS CO. R-III | 81097 |
| PIERCE CITY R-VI | 55105 |
| PIKE CO. R-III | 82101 |
| PILOT GROVE C-4 | 27059 |
| PLATO R-V | 107156 |
| PLATTE CO. R-III | 83003 |
| PLEASANT HILL R-III | 19148 |
| PLEASANT HOPE R-VI | 84006 |
| POLO R-VII | 13059 |
| POPLAR BLUFF R-I | 12109 |
| PRINCETON R-V | 65098 |
| PUTNAM CO. R-I | 86100 |
| PUXICO R-VIII | 103130 |
| RALLS CO. R-II | 87083 |
| RAYMORE PECULIAR | 19142 |
| RAYTOWN C-2 | 48073 |
| REEDS SPRING R-IV | 104044 |
| RENICK R-V | 88073 |
| REPUBLIC R-III | 39134 |
| RICH HILL R-IV | 7124 |
| RICHLAND R-I | 103127 |
| RICHLAND R-IV | 85044 |
| RICHMOND R-XVI | 89089 |
| RIDGEWAY R-V | 41005 |
| RISCO R-II | 72066 |
| RITENOUR | 96110 |
| RIVERVIEW GARDENS | 96111 |
| ROCK PORT R-II | 3032 |
| ROCKWOOD R-VI | 96091 |
| ROLLA 31 | 81096 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| SALEM R-80 | 33090 |
| SALISBURY R-IV | 21151 |
| SANTA FE R-X | 54042 |
| SARCOXIE R-II | 49140 |
| SAVANNAH R-III | 2097 |
| SCHOOL OF THE OSAGE | 66105 |
| SCHUYLER CO. R-I | 98080 |
| SCOTLAND CO. R-I | 99082 |
| SCOTT CITY R-I | 100059 |
| SCOTT CO. CENTRAL | 100062 |
| SCOTT CO. R-IV | 100061 |
| SEDALIA 200 | 80125 |
| SENATH HORNERSV C 8 | 35098 |
| SENECA R-VII | 73106 |
| SEYMOUR R-II | 112103 |
| SHELBY CO. R-IV | 102085 |
| SHELDON R-VIII | 108144 |
| SHERWOOD CASS R-VIII | 19144 |
| SIKESTON R-6 | 100063 |
| SILEX R-I | 57001 |
| SLATER | 97130 |
| SMITHTON R-VI | 80119 |
| SMITHVILLE R-II | 24087 |
| SOUTH CALLAWAY CO | 14130 |
| SOUTH HARRISON R II | 41002 |
| SOUTH HOLT CO. R-I | 44084 |
| SOUTH IRON CO. R-I | 47060 |
| SOUTH NODAWAY CO | 74202 |
| SOUTH PEMISCOT CO. R | 78005 |
| SOUTHERN BOONE CO R | 10087 |
| SOUTHERN REYNOLDS CO | 90076 |
| SOUTHLAND C-9 | 35099 |
| SOUTHWEST LIVINGSTON | 59113 |
| SOUTHWEST R-V | 5121 |
| SPARTA R-III | 22090 |
| SPECL. SCH. DST. ST. | 96119 |
| SPOKANE R-VII | 22094 |
| SPRING BLUFF R-XV | 36134 |
| SPRINGFIELD R-XII | 39141 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| ST. CHARLES R-VI | 92090 |
| ST. CLAIR R-XIII | 36136 |
| ST. ELIZABETH R-IV | 66104 |
| ST. JAMES R-I | 81094 |
| ST. JOSEPH | 11082 |
| ST. LOUIS CITY | 115115 |
| STANBERRY R-II | 38045 |
| STE. GENEVIEVE CO. R | 95059 |
| STEELVILLE R-III | 28103 |
| STET R-XV | 89077 |
| STEWARTSVILLE C-2 | 32058 |
| STOCKTON R-I | 20001 |
| STOUTLAND R-II | 15001 |
| STRAFFORD R-VI | 39137 |
| STURGEON R-V | 10090 |
| SULLIVAN | 36137 |
| SUMMERSVILLE R-II | 107153 |
| SWEET SPRINGS R-VII | 97131 |
| TARKIO R-I | 3031 |
| THAYER R-II | 75085 |
| TINA AVALON R II | 17122 |
| TIPTON R-VI | 68073 |
| TRENTON R-IX | 40107 |
| TRI COUNTY R VII | 31122 |
| TROY R-III | 57003 |
| TWIN RIVERS R-X | 12110 |
| UNION R-XI | 36131 |
| UNION STAR R-II | 32056 |
| UNIVERSITY CITY | 96112 |
| VALLEY PARK | 96113 |
| VALLEY R-VI | 110031 |
| VAN BUREN R-I | 18050 |
| VAN FAR R I | 4109 |
| VERONA R-VII | 55111 |
| WALNUT GROVE R-V | 39136 |
| WARREN CO. R-III | 109003 |
| WARRENSBURG R-VI | 51159 |
| WARSAW R-IX | 8107 |
| WASHINGTON | 36139 |

Table 1.9 Districts Included in the Spring 2011 Data (continued)

| District Name | District Code |
|---|---|
| WAYNESVILLE R-VI | 85046 |
| WEAUBLEAU R-III | 43003 |
| WEBB CITY R-VII | 49144 |
| WEBSTER GROVES | 96114 |
| WELLINGTON NAPOLEON | 54043 |
| WELLSVILLE MIDDLETOW | 70092 |
| WENTZVILLE R-IV | 92089 |
| WEST NODAWAY CO. R-I | 74190 |
| WEST PLAINS R-VII | 46134 |
| WEST PLATTE CO. R-II | 83002 |
| WEST ST. FRANCOIS CO | 94087 |
| WESTRAN R-I | 88080 |
| WHEATLAND R-II | 43002 |
| WHEATON R-III | 5120 |
| WILLARD R-II | 39133 |
| WILLOW SPRINGS R-IV | 46131 |
| WINDSOR C-1 | 50010 |
| WINFIELD R-IV | 57004 |
| WINONA R-III | 101105 |
| WINSTON R-VI | 31117 |
| WOODLAND R-IV | 9080 |
| WORTH CO. R-III | 113001 |
| WRIGHT CITY R-II | 109002 |

**Appendix B**

# An Examination of Convergent and Divergent Validity On the Missouri End-Of-Course Assessments

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## An Examination of Convergent and Divergent Validity On the Missouri End-Of-Course Assessments

Evidence for construct-related validity—the meaning of test scores and the inferences they support—is a central concept underlying the validation process of test scores. Convergent and divergent validity are subtypes of construct validity. Convergent validity examines the extent to which theoretically related constructs are also empirically related, while divergent validity examines the extent to which theoretically unrelated constructs are, in fact, not empirically related. In Missouri, eight end-of-course assessments are administered to students, and each of these assessments measures unique content in the fields of mathematics, English, social studies, or science. We expect that each of these assessments will measure student ability in distinct, yet related, ways. We anticipate that particular relationship patterns exist between these assessments and that these patterns can be measured empirically. This paper will pay particular attention to the divergent validity of the varying end-of-course (EOC) assessments in Missouri; however, it is difficult to study divergent validity of differing constructs without at least mentioning convergent validity between those constructs.

### Theoretical Relationship Between the EOC Assessments

Eight tests comprise the Missouri EOC assessment family: English I, English II, Algebra I, Algebra II, Geometry, Biology, Government, and American History. The Algebra I, English II, and Biology EOC assessments are required of all Missouri students prior to graduation and fulfill the requirements of the No Child Left Behind act (NCLB, 2002). In addition, Missouri school districts are required to administer the Government EOC assessment to all students prior to graduation. All other EOC assessments are optional.

When conducting a study of divergent validity, it is important to first theorize on the relationships that we expect to occur between the assessments. There are three major groups of EOC assessments: mathematics, English, and social studies. The mathematics EOC assessments are Algebra I, Algebra II, and Geometry; the social studies EOC assessments are Government and American History; and the English EOC assessments are English I and English II. We anticipate that EOC assessments within each of these groups will be more related to each other than they are with other assessments from the other groups.

There are also methodological artifacts that may artificially strengthen the relationship between EOC assessments from seemingly unrelated content areas. EOC assessments that require a good deal of reading and/or writing are probably more strongly related to English I and English II than those EOC assessments that do not. For example, the Biology assessment had an embedded performance event in 2009 and 2010 but not in 2011. We anticipate that Biology will be more related to English I and English II in 2009 and 2010 than it is in 2011 simply because of the requirements of the performance event.

## Data

The data come from the Spring 2009, 2010, and 2011 operational administrations of the MAP EOC assessments. The following abbreviations are used in all tables for the EOC assessment names:

- English I: E1
- English II: E2
- Algebra I: A1
- Algebra II: A2
- Geometry: GE
- Biology: B1
- American History: AH
- Government: GV

At the strand level, the following abbreviations are used:

- R: Reading
- W: Writing
- A: Algebraic Relationships
- D: Data and Probability
- N: Numbers and Operations
- G: Geometric and Spatial Relationships
- M: Measurement
- EC: Changes in Ecosystems and Interactions of Organisms with Their Environment
- IN: Scientific Inquiry
- LO: Characteristics of Living Organisms
- GS: Principles and Processes of Governance Systems
- PC: Principles of Constitutional Democracy
- H: Missouri, United States, and World History
- TO: Total

The data were limited to first-time test takers. Students who had taken a retest were pulled from the data set. The cross-year, student-level data were matched using Missouri's unique student identification number. The EOC assessments are course dependent, and students will not take all of the EOC assessment within a single grade level; therefore, it is necessary to match students across years of test data in order to capture multiple test scores for the same student. Table 1 shows the total number of first-time test takers for each MAP EOC assessment in 2009, 2010, and 2011. Table 2 shows the number of students who had multiple administrations of an EOC assessment across 2009, 2010, and 2011.

Table 3 shows the lower triangle of a data matrix containing the number of students who were matched for use in the data analyses by pairs of assessments. To be included in the analyses, students had to take two or more of the MAP EOC assessments in 2009, 2010, and/or 2011. The data on the diagonal represents the number of students taking a test in a given year. For example, 60,769 students were tested in Algebra I (A1) in 2010.

The columns of the matrix show the first year an EOC assessment was taken, and the rows of the matrix contain the second year. To read the data in this table, start with a year/content combination in the column and find the row with the year/content combination that

is of interest. Suppose you want to know the number of students who took English I (E1) in 2010 and English II in 2011. Find English I within the cluster of columns under 2010 and then find English II within the cluster of rows for 2011. The data in the table show that 36,635 students took English I in 2010 followed by English II in 2011.

Only those pairs of data where n ≥ 1,000 were included in the analyses presented below. We want to examine patterns of relationships with the data in this study that apply to the typical test takers, not ones who take tests in an anomalous sequence from their statewide peer group. Test pairs with less than 1,000 most likely represent atypical relationships where a very small number of students took the EOCs in a manner that is inconsistent with the rest of the state.

**Table 1. Total Number of Students Tested in 2009-2011 by Content Area EOC Assessment**

| Year | E2 | A1 | B1 | E1 | A2 | GE | GV | AH |
|---|---|---|---|---|---|---|---|---|
| **2009** | 62507 | 60527 | 60913 | | | | | |
| **2010** | 61672 | 60769 | 61507 | 42629 | 22067 | 27262 | 38189 | 33495 |
| **2011** | 62255 | 63538 | 63503 | 41813 | 22364 | 26122 | 40921 | 35362 |

**Table 2. Total Number of Students with Multiple Administrations by Content Area EOC Assessment Across 2009, 2010, 2011**

| EOC Assessment | Number of Students with Multiple Administrations |
|---|---|
| A1 | 5532 |
| A2 | 295 |
| AH | 365 |
| B1 | 2372 |
| E1 | 480 |
| E2 | 2914 |
| GE | 270 |
| GV | 977 |

**Table 3. Number of Students Taking Pairs of EOC assessments Within and Across Years**

| Year | EOC Assessment | EOC assessment first taken in: | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2009 | | | 2010 | | | | | | | | 2011 | | | | | | | |
| | | E2 | A1 | B1 | E1 | E2 | A1 | A2 | GE | B1 | GV | AH | E1 | E2 | A1 | A2 | GE | B1 | GV | AH |
| 2009 | E2 | 62507 | | | | | | | | | | | | | | | | | | |
| | A1 | 9227 | 60527 | | | | | | | | | | | | | | | | | |
| | B1 | 33884 | 12797 | 60913 | | | | | | | | | | | | | | | | |
| 2010 | E1 | 206 | 7641 | 250 | 42629 | | | | | | | | | | | | | | | |
| | E2 | | 29203 | 11330 | 597 | 61672 | | | | | | | | | | | | | | |
| | A1 | 3333 | | 3203 | 19959 | 9630 | 60769 | | | | | | | | | | | | | |
| | A2 | 10448 | 4292 | 8213 | 1227 | 7541 | 256 | 22067 | | | | | | | | | | | | |
| | GE | 5001 | 20369 | 5205 | 5380 | 13989 | 405 | 1251 | 27262 | | | | | | | | | | | |
| | B1 | 10565 | 23498 | | 6668 | 33552 | 13514 | 7450 | 11498 | 61507 | | | | | | | | | | |
| | GV | 15032 | 7692 | 10765 | 8075 | 6547 | 7697 | 4368 | 4299 | 7193 | 38189 | | | | | | | | | |
| | AH | 11336 | 6942 | 7506 | 12621 | 6669 | 8100 | 6237 | 5743 | 8460 | 843 | 33495 | | | | | | | | |
| 2011 | E1 | 50 | 246 | 43 | | 124 | 8045 | 15 | 176 | 160 | 113 | 97 | 41813 | | | | | | | |
| | E2 | | 12273 | 714 | 36635 | | 27949 | 1239 | 5475 | 12458 | 9871 | 11948 | 236 | 62255 | | | | | | |
| | A1 | 2249 | | 1937 | 7197 | 3527 | | 547 | 427 | 3429 | 3213 | 3554 | 20014 | 10932 | 63538 | | | | | |
| | A2 | 1696 | 14475 | 2346 | 7271 | 10440 | 5173 | | 13560 | 8538 | 3105 | 4756 | 1294 | 8099 | 129 | 22364 | | | | |
| | GE | 799 | 3158 | 952 | 11879 | 5046 | 19810 | 1712 | | 5387 | 3037 | 5760 | 5400 | 13621 | 295 | 1251 | 26122 | | | |
| | B1 | 1793 | 11781 | | 23678 | 10549 | 23431 | 2587 | 6274 | | 9271 | 10792 | 7108 | 33739 | 15294 | 8063 | 11150 | 63503 | | |
| | GV | 4144 | 9615 | 5231 | 4555 | 15925 | 8075 | 2858 | 4723 | 11631 | | 6199 | 6264 | 7603 | 8668 | 4614 | 4315 | 8024 | 40921 | |
| | AH | 610 | 7603 | 1988 | 5760 | 11526 | 7652 | 2883 | 5290 | 8005 | 2310 | | 13757 | 7245 | 9283 | 6240 | 6152 | 8745 | 740 | 35362 |

## Statistical Methodology

Two statistical tests were used to analyze the data. Test reliability was estimated using Cronbach's (1951) coefficient alpha. The internal consistency coefficient (Cronbach's alpha) is a measure of item homogeneity. In order for a group of items to be homogeneous, they must measure the same construct (construct validity) or represent the same content domain (content validity). Divergent validity was examined using Pearson product-moment (PPM) correlation coefficients.

*Reliability*

It is necessary to consider validity information in the context of reliability. In general, we expect to see lower correlation coefficients between variables that are less reliable. The reliability of the raw scores on the EOC assessment and domains was evaluated using Cronbach's (1951) coefficient alpha, which is a lower-bound estimate of test reliability. The reliability coefficient is a ratio of the variance of true test scores to those of the observed scores, with the values ranging from 0 to 1. The closer the value of the reliability coefficient is to 1, the more consistent the scores, where 1 refers to a perfectly consistent test. As a rule of thumb, reliability coefficients that are equal to or greater than 0.8 are considered acceptable for tests of moderate lengths.

Cronbach's coefficient alpha was computed using the formula

$$\alpha = \frac{n}{n-1}\left[1 - \frac{\sum_{i=1}^{n} \sigma_i^2}{\sigma_X^2}\right],$$

where $n$ is the number of items on the test, $\sigma_i^2$ is the variance of item $i$ and $\sigma_X^2$ is the variance of the total test score.

*Pearson Product-Moment Correlation*

The divergent relationship between test pairs was estimated using PPM correlation coefficients. In addition, the correlation coefficients were estimated between the domains that comprise the assessments. The domain-level correlation coefficients were estimated both within and between EOC assessments.

Because the correlation coefficients will be affected by the limited number of items measuring each domain, the correlation coefficient between two content standard subscores may be artificially low because of measurement error. For this reason, we correct correlation coefficients for attenuation when examining the content standard strand scores. The American Educational Research Association, American Psychological Association, and National Council on Measurement in Education (1999) Standard 1.18 states:

> When statistical adjustments, such as those for restriction of range or attenuation, are made, both adjusted and unadjusted coefficients, as well as the specific procedure used, and all statistics used in the adjustment, should be reported.

We can correct for the attenuation of the correlation coefficient (*rca*) statistically using Spearman's formula

$$r_{ca} = \frac{r_{xy}}{\sqrt{r_{xx} r_{yy}}},$$

where $r_{xy}$ is the PPM between two content standards, $r_{xx}$ is the reliability of one of those content standards, and $r_{yy}$ is the reliability of the other content standard.

*Interpreting Results*

The correlation coefficient represents the strength of the relationship between two variables. Unfortunately, there is not a widely accepted rule about how to interpret the strength of a correlation coefficient. The way in which a correlation coefficient is interpreted will depend on the field of study. For example, a correlation coefficient of $r = 0.45$ may be considered a strong relationship for some psychological measures, while researchers in another field would consider that relationship to be quite weak. For this report, we use the following criteria to provide context to the correlation coefficients between sets of assessments. These criteria are based on our experiences in dealing with educational assessments.

- Strong relationship: $r > |0.70|$
- Moderate relationship: $|0.30| < r < |0.69|$
- Weak relationship: $0.0 < r < |0.29|$

In addition, it is important to pay attention to the relationships among the variables. Does the pattern of correlation coefficients make sense? Do higher correlations occur where the tests are expected to be related and lower correlations occur where tests are not expected to be related?

## Results

In this section, we first examine the relationship between the total EOC assessments. This is followed by an examination of the component parts of the EOC assessment.

*Total-Test EOC Assessment*

Table 4 shows the lower triangle of the correlation matrix between EOC assessment pairs both within a year and across years. Again, the columns of the matrix show the first year a student took an EOC assessment and the rows show the second year. The reliabilities for each

EOC assessment are presented on the diagonal of the matrix. The numbers of test items are shown in the table in the third column and row.

*Reliabilities*

Table 4 shows that all EOC assessments had reliability coefficients that were 0.81 or larger. In 2009 and 2010, all tests had coefficients that were 0.85 or larger. In 2011, all EOC assessments had coefficients that were .84 or higher, with the exceptions being American History, Geometry and Algebra II. Nonetheless, all tests were of acceptable reliability for tests of moderate length.

*Within-Year Results*

In 2009 and 2010, the Biology assessment appears to have a strong relationship with all other assessments, except Algebra I (2009) and Algebra II (2010), when the performance event (PE) is included in the assessment. When the PE was removed from the assessment in 2011, the strength of the relationship (as based on the correlation coefficient) between Biology and the other content areas is lessened.

As anticipated, the correlation coefficients between the EOC assessments in the mathematics group indicate a strong relationship between Algebra II and Geometry within years. The within-year relationship between English I and English II cannot be measured because too few students took both the English I and English II EOC assessments in a single year. The same is true for Algebra I and the other mathematics EOC assessments as well as the Government and American History EOC assessments.

The pattern of correlation coefficients between the EOC assessments within the mathematics group and those EOC assessments within the English group demonstrate only moderate relationships. Similarly, there are only moderate relationships between the social

studies EOC assessments and the mathematics EOC assessments. The Government assessment appears to be more strongly related to the English assessments than does the American History assessment, as indicated by higher correlation coefficients between the English I, English II, and Government EOC assessments than the correlation coefficients between the English I, English II, and American History EOC assessments.

*One-Year Lag Between EOC assessments*

For the most part, there is a strong relationship between the mathematics EOC assessments when there is a one-year lag. There are a couple of exceptions. When Algebra I is administered in 2010 and Algebra II in 2011, there is a moderate relationship between the two EOC assessments. In this case, $r = 0.69$ which is just below the cutoff for a strong relationship. When Algebra II is administered in 2010 and Geometry is measured in 2011, there is a moderate relationship ($r = 0.62$). It is important to note that this administration order appears to be atypical with only $n = 1{,}712$ students taking the test in this administration order. When Geometry was taken in 2010 and Algebra II in 2011, then the relationship is strong ($r = 0.70$ and $n = 13{,}560$).

There is a strong relationship ($r = 0.73$) between performance on English I administered in 2010 and English II administered in 2011. There tends to be a strong relationship between Biology and Government when Biology is administered in the first year and the other EOC assessment is administered in the second year. There is a strong relationship between American History and Government when there is a one-year lag between tests.

The pattern of correlation coefficients again reveals lower correlation coefficients between the mathematics EOC assessments and the English EOC assessments. This same pattern is seen between the mathematics and social studies EOC assessments. The correlation coefficients are higher, yet still moderate, between the English EOC assessments and the social studies EOC assessments.

*Two-Year Lag*

The Biology test is strongly related to both Algebra I and Government when there is a two-year lag where Biology is taken in 2009 and the other EOC assessments are taken in 2011. There is a moderate relationship ($r$ = 0.69) between Algebra I and Algebra II when Algebra I is taken in 2009 and Algebra II is taken in 2011.

The pattern of correlation coefficients is again smaller between the mathematics EOC assessments and the English EOC assessments and between the mathematics EOC assessments and the social studies EOC assessments than they are between the English and social studies EOC assessments.

Tables 5, 6, and 7 disaggregate each of the EOC assessments into its strand-level components for 2009, 2010, and 2011, respectively. Because some strands have very few items (e.g., writing (W) has only 6 items), we also show the reliabilities and the correlation coefficients that have been corrected for attenuation ($r_{ca}$). In each of these tables, the same sorts of patterns emerge. The $r_{ca}$ is higher when comparing strands within an EOC assessment. Also, the correlation coefficients between the Biology strands and the mathematics group strands for the EOC assessments are lower than the correlation coefficients between the Biology strands and the English group strands for the EOC assessments. The correlation coefficients between the EOC assessments in the English group and the social studies group appear, for the most part, to be moderately related to each other.

Table 8 shows the $r_{ca}$ paired across 2009 and 2010 or 2009 and 2011, with the 2009 strand reliabilities in the diagonal. The students in the data have been matched across years. The number of students in each pair can be found in Table 3. (This same information for the uncorrected correlation coefficients may be found in Table A.1 in the Appendix.) Table 9 shows

the $r_{ca}$ paired for 2010 and 2011, with the 2010 strand reliabilities in the diagonal. (This same information for the uncorrected correlation coefficients may be found in Table A.2 in the Appendix.) The patterns of $r_{ca}$ found in Tables 8 and 9 reveal the same patterns revealed in earlier tables. The mathematics EOC assessments appear to be strongly related. The Biology EOC assessment is strongly related to the English and social studies EOC assessments. The English EOC assessments appear to be strongly related to the social studies EOC assessments. The mathematics EOC assessments are only moderately related to the other EOC assessments.

**Table 4. PPM Correlation Between EOC Assessment Pairs with Reliability on the Diagonal for Within-Year Matrices**

| Year | EOC | 2009 | | | | 2010 | | | | | | | | | 2011 | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | E2 | A1 | B1 | | E1 | E2 | A1 | A2 | GE | B1 | GV | AH | | E1 | E2 | A1 | A2 | GE | B1 | GV | AH |
| | | # of items | 36 | 36 | 46 | # of items | 40 | 36 | 36 | 40 | 40 | 47 | 40 | 40 | # of items | 40 | 35 | 35 | 40 | 40 | 34 | 40 | 40 |
| 2009 | E2 | 36 | 0.87 | | | | | | | | | | | | | | | | | | | | |
| | A1 | 36 | 0.51 | 0.86 | | | | | | | | | | | | | | | | | | | |
| | B1 | 46 | 0.72 | 0.68 | 0.89 | | | | | | | | | | | | | | | | | | |
| 2010 | E1 | 40 | | 0.53 | | 40 | 0.87 | | | | | | | | | | | | | | | | |
| | E2 | 36 | | 0.52 | 0.69 | 36 | | 0.85 | | | | | | | | | | | | | | | |
| | A1 | 36 | 0.52 | | 0.62 | 36 | 0.58 | 0.57 | 0.86 | | | | | | | | | | | | | | |
| | A2 | 40 | 0.46 | 0.73 | 0.58 | 40 | 0.54 | 0.51 | | 0.85 | | | | | | | | | | | | | |
| | GE | 40 | 0.47 | 0.72 | 0.62 | 40 | 0.53 | 0.54 | | 0.82 | 0.87 | | | | | | | | | | | | |
| | B1 | 47 | 0.67 | 0.68 | | 47 | 0.75 | 0.71 | 0.71 | 0.67 | 0.70 | 0.89 | | | | | | | | | | | |
| | GV | 40 | 0.66 | 0.60 | 0.73 | 40 | 0.70 | 0.68 | 0.58 | 0.56 | 0.60 | 0.75 | 0.88 | | | | | | | | | | |
| | AH | 40 | 0.59 | 0.52 | 0.66 | 40 | 0.66 | 0.63 | 0.51 | 0.50 | 0.57 | 0.71 | | 0.85 | | | | | | | | | |
| 2011 | E1 | 40 | | | | 40 | | | 0.46 | | | | | | 40 | 0.84 | | | | | | | |
| | E2 | 35 | | 0.58 | 0.61 | 35 | 0.73 | | 0.55 | 0.55 | 0.53 | 0.72 | 0.65 | 0.60 | 35 | | 0.86 | | | | | | |
| | A1 | 35 | 0.59 | | 0.72 | 35 | 0.52 | 0.56 | | | | 0.62 | 0.55 | 0.45 | 35 | 0.54 | 0.59 | 0.87 | | | | | |
| | A2 | 40 | 0.42 | 0.69 | 0.54 | 40 | 0.52 | 0.45 | 0.69 | | 0.70 | 0.60 | 0.55 | 0.50 | 40 | 0.49 | 0.53 | | 0.81 | | | | |
| | GE | 40 | | 0.64 | | 40 | 0.51 | 0.45 | 0.72 | 0.62 | | 0.61 | 0.51 | 0.47 | 40 | 0.47 | 0.54 | | 0.73 | 0.82 | | | |
| | B1 | 34 | 0.60 | 0.64 | | 34 | 0.65 | 0.63 | 0.62 | 0.56 | 0.65 | | 0.66 | 0.64 | 34 | 0.68 | 0.69 | 0.64 | 0.60 | 0.58 | 0.84 | | |
| | GV | 40 | 0.67 | 0.56 | 0.74 | 40 | 0.69 | 0.65 | 0.59 | 0.59 | 0.59 | 0.73 | | 0.73 | 40 | 0.72 | 0.74 | 0.63 | 0.53 | 0.57 | 0.75 | 0.86 | |
| | AH | 40 | | 0.51 | 0.65 | 40 | 0.64 | 0.60 | 0.52 | 0.44 | 0.51 | 0.67 | 0.70 | | 40 | 0.66 | 0.66 | 0.52 | 0.50 | 0.54 | 0.67 | | 0.81 |

**Table 5. Correlation Coefficient (Lower Diagonal), Reliabilities (Diagonal), and $r_{ca}$ (Upper Diagonal) by Strand for 2009**

| EOC | Strand | 2009 | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | English II | | | Algebra I | | | | Biology | | | |
| | | R | W | TO | A | D | N | TO | EC | IN | LO | TO |
| | # of Items | 30 | 6 | 36 | 20 | 8 | 8 | 36 | 13 | 11 | 22 | 46 |
| E2 | R | 0.85 | 0.91 | 1.14 | 0.56 | 0.54 | 0.55 | 0.58 | 0.82 | 0.76 | 0.77 | 0.82 |
| | W | 0.63 | 0.57 | 1.09 | 0.50 | 0.46 | 0.48 | 0.51 | 0.68 | 0.70 | 0.66 | 0.73 |
| | TO | 0.98 | 0.76 | 0.87 | 0.57 | 0.54 | 0.55 | 0.59 | 0.81 | 0.76 | 0.77 | 0.82 |
| A1 | A | 0.45 | 0.33 | 0.47 | 0.77 | 0.99 | 0.97 | 1.17 | 0.66 | 0.71 | 0.70 | 0.76 |
| | D | 0.38 | 0.26 | 0.39 | 0.66 | 0.59 | 0.99 | 1.13 | 0.69 | 0.69 | 0.70 | 0.76 |
| | N | 0.40 | 0.29 | 0.41 | 0.68 | 0.61 | 0.64 | 1.12 | 0.67 | 0.67 | 0.67 | 0.73 |
| | TO | 0.50 | 0.36 | 0.51 | 0.95 | 0.81 | 0.83 | 0.87 | 0.69 | 0.72 | 0.72 | 0.78 |
| B1 | EC | 0.63 | 0.44 | 0.64 | 0.49 | 0.45 | 0.45 | 0.54 | 0.71 | 0.82 | 0.94 | 1.06 |
| | IN | 0.61 | 0.46 | 0.62 | 0.54 | 0.46 | 0.47 | 0.58 | 0.61 | 0.76 | 0.81 | 1.06 |
| | LO | 0.64 | 0.45 | 0.64 | 0.56 | 0.48 | 0.48 | 0.60 | 0.71 | 0.64 | 0.81 | 1.07 |
| | TO | 0.72 | 0.52 | 0.73 | 0.63 | 0.55 | 0.55 | 0.68 | 0.85 | 0.87 | 0.91 | 0.89 |

**Table 6. MAP EOC Assessment: PPM (Lower Diagonal), Reliabilities (Diagonal), and $r_{ca}$ (Upper Diagonal) by Strand for 2010**

| EOC | | 2010 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | English I | | English II | | | Algebra I | | | | Algebra II | | | | Geometry | | | | Biology | | | | Government | | | American History | |
| | Strand | R | TO | R | W | TO | A | D | N | TO | A | D | N | TO | A | G | M | TO | EC | IN | LO | TO | GS | PC | TO | H | TO |
| | # of Items | 40 | 40 | 30 | 6 | 36 | 20 | 8 | 8 | 36 | 22 | 10 | 8 | 40 | 8 | 24 | 8 | 40 | 13 | 12 | 22 | 47 | 20 | 20 | 40 | 40 | 40 |
| E1 | R | 0.87 | 1.15 | | | | 0.66 | 0.63 | 0.60 | 0.67 | 0.59 | 0.64 | 0.65 | 0.62 | 0.58 | 0.62 | 0.56 | 0.61 | 0.83 | 0.82 | 0.79 | 0.85 | 0.80 | 0.79 | 0.80 | 0.77 | 0.77 |
| | TO | 1.00 | 0.87 | | | | 0.66 | 0.63 | 0.60 | 0.67 | 0.59 | 0.64 | 0.65 | 0.62 | 0.58 | 0.62 | 0.56 | 0.61 | 0.83 | 0.82 | 0.79 | 0.85 | 0.80 | 0.79 | 0.80 | 0.77 | 0.77 |
| E2 | R | | | 0.83 | 0.94 | 1.17 | 0.63 | 0.64 | 0.61 | 0.65 | 0.53 | 0.59 | 0.58 | 0.57 | 0.57 | 0.61 | 0.54 | 0.60 | 0.79 | 0.78 | 0.73 | 0.80 | 0.80 | 0.78 | 0.79 | 0.74 | 0.74 |
| | W | | | 0.62 | 0.52 | 1.13 | 0.65 | 0.66 | 0.63 | 0.67 | 0.55 | 0.56 | 0.60 | 0.57 | 0.59 | 0.60 | 0.53 | 0.60 | 0.73 | 0.79 | 0.72 | 0.79 | 0.76 | 0.74 | 0.75 | 0.69 | 0.69 |
| | TO | | | 0.98 | 0.76 | 0.85 | 0.65 | 0.66 | 0.63 | 0.67 | 0.56 | 0.60 | 0.61 | 0.59 | 0.60 | 0.63 | 0.55 | 0.62 | 0.79 | 0.80 | 0.74 | 0.81 | 0.80 | 0.78 | 0.79 | 0.74 | 0.74 |
| A1 | A | 0.54 | 0.54 | 0.51 | 0.42 | 0.53 | 0.79 | 0.95 | 0.97 | 1.17 | | | | | | | | | 0.68 | 0.81 | 0.73 | 0.81 | 0.66 | 0.64 | 0.66 | 0.59 | 0.59 |
| | D | 0.44 | 0.44 | 0.43 | 0.36 | 0.46 | 0.64 | 0.57 | 0.95 | 1.11 | | | | | | | | | 0.70 | 0.77 | 0.69 | 0.78 | 0.63 | 0.61 | 0.63 | 0.58 | 0.58 |
| | N | 0.43 | 0.43 | 0.42 | 0.35 | 0.44 | 0.66 | 0.55 | 0.59 | 1.13 | | | | | | | | | 0.64 | 0.73 | 0.63 | 0.73 | 0.62 | 0.61 | 0.63 | 0.55 | 0.55 |
| | TO | 0.58 | 0.58 | 0.55 | 0.45 | 0.57 | 0.96 | 0.78 | 0.80 | 0.86 | | | | | | | | | 0.70 | 0.81 | 0.72 | 0.81 | 0.67 | 0.65 | 0.67 | 0.60 | 0.60 |
| A2 | A | 0.48 | 0.48 | 0.42 | 0.35 | 0.45 | | | | | 0.76 | 0.90 | 0.95 | 1.16 | 1.04 | 0.91 | 0.86 | 0.92 | 0.56 | 0.70 | 0.72 | 0.72 | 0.59 | 0.58 | 0.59 | 0.53 | 0.53 |
| | D | 0.47 | 0.47 | 0.42 | 0.32 | 0.44 | | | | | 0.62 | 0.62 | 0.96 | 1.12 | 1.03 | 0.96 | 0.94 | 0.97 | 0.67 | 0.79 | 0.74 | 0.80 | 0.67 | 0.65 | 0.67 | 0.62 | 0.62 |
| | N | 0.46 | 0.46 | 0.40 | 0.33 | 0.43 | | | | | 0.63 | 0.57 | 0.57 | 1.14 | 1.09 | 1.00 | 0.98 | 1.01 | 0.66 | 0.79 | 0.78 | 0.81 | 0.67 | 0.64 | 0.66 | 0.60 | 0.60 |
| | TO | 0.54 | 0.54 | 0.48 | 0.38 | 0.51 | | | | | 0.94 | 0.81 | 0.80 | 0.85 | 1.05 | 0.95 | 0.91 | 0.96 | 0.62 | 0.76 | 0.76 | 0.77 | 0.65 | 0.63 | 0.64 | 0.59 | 0.59 |
| GE | A | 0.40 | 0.40 | 0.39 | 0.32 | 0.41 | | | | | 0.68 | 0.60 | 0.61 | 0.72 | 0.55 | 0.96 | 0.94 | 1.13 | 0.62 | 0.76 | 0.73 | 0.77 | 0.68 | 0.68 | 0.68 | 0.65 | 0.65 |
| | G | 0.51 | 0.51 | 0.49 | 0.39 | 0.52 | | | | | 0.71 | 0.67 | 0.67 | 0.78 | 0.64 | 0.80 | 0.95 | 1.15 | 0.68 | 0.77 | 0.73 | 0.79 | 0.71 | 0.68 | 0.69 | 0.66 | 0.66 |
| | M | 0.43 | 0.43 | 0.40 | 0.31 | 0.42 | | | | | 0.61 | 0.60 | 0.61 | 0.69 | 0.57 | 0.70 | 0.67 | 1.09 | 0.64 | 0.74 | 0.69 | 0.76 | 0.64 | 0.63 | 0.64 | 0.64 | 0.64 |
| | TO | 0.53 | 0.53 | 0.51 | 0.40 | 0.54 | | | | | 0.75 | 0.71 | 0.71 | 0.82 | 0.78 | 0.96 | 0.84 | 0.87 | 0.68 | 0.78 | 0.74 | 0.79 | 0.69 | 0.67 | 0.69 | 0.66 | 0.66 |
| BI | EC | 0.67 | 0.67 | 0.62 | 0.46 | 0.63 | 0.53 | 0.46 | 0.42 | 0.56 | 0.42 | 0.46 | 0.43 | 0.50 | 0.40 | 0.53 | 0.46 | 0.55 | 0.76 | 0.85 | 0.90 | 1.03 | 0.81 | 0.80 | 0.80 | 0.80 | 0.80 |
| | IN | 0.67 | 0.67 | 0.62 | 0.50 | 0.64 | 0.63 | 0.51 | 0.49 | 0.66 | 0.54 | 0.54 | 0.52 | 0.61 | 0.49 | 0.60 | 0.53 | 0.64 | 0.64 | 0.77 | 0.88 | 1.09 | 0.84 | 0.83 | 0.83 | 0.77 | 0.77 |
| | LO | 0.64 | 0.64 | 0.57 | 0.45 | 0.59 | 0.56 | 0.45 | 0.42 | 0.58 | 0.54 | 0.50 | 0.51 | 0.60 | 0.47 | 0.56 | 0.49 | 0.59 | 0.68 | 0.67 | 0.75 | 1.10 | 0.81 | 0.80 | 0.81 | 0.77 | 0.77 |
| | TO | 0.75 | 0.75 | 0.69 | 0.54 | 0.71 | 0.68 | 0.55 | 0.52 | 0.71 | 0.59 | 0.59 | 0.57 | 0.67 | 0.54 | 0.66 | 0.58 | 0.70 | 0.84 | 0.90 | 0.89 | 0.89 | 0.86 | 0.85 | 0.85 | 0.82 | 0.82 |
| GV | GS | 0.66 | 0.66 | 0.64 | 0.49 | 0.65 | 0.52 | 0.42 | 0.42 | 0.55 | 0.46 | 0.47 | 0.45 | 0.53 | 0.45 | 0.56 | 0.46 | 0.57 | 0.62 | 0.65 | 0.62 | 0.72 | 0.78 | 1.01 | 1.14 | | |
| | PC | 0.66 | 0.66 | 0.63 | 0.48 | 0.64 | 0.51 | 0.41 | 0.41 | 0.53 | 0.45 | 0.46 | 0.43 | 0.51 | 0.45 | 0.54 | 0.46 | 0.56 | 0.62 | 0.64 | 0.61 | 0.71 | 0.79 | 0.79 | 1.13 | | |
| | TO | 0.70 | 0.70 | 0.68 | 0.51 | 0.68 | 0.55 | 0.45 | 0.45 | 0.58 | 0.48 | 0.49 | 0.47 | 0.56 | 0.48 | 0.58 | 0.49 | 0.60 | 0.66 | 0.68 | 0.65 | 0.76 | 0.95 | 0.95 | 0.88 | | |
| AH | H | 0.66 | 0.66 | 0.62 | 0.46 | 0.63 | 0.49 | 0.40 | 0.39 | 0.51 | 0.43 | 0.45 | 0.42 | 0.50 | 0.44 | 0.54 | 0.48 | 0.57 | 0.64 | 0.62 | 0.61 | 0.71 | | | | 0.85 | 1.17 |
| | TO | 0.66 | 0.66 | 0.62 | 0.46 | 0.63 | 0.49 | 0.40 | 0.39 | 0.51 | 0.43 | 0.45 | 0.42 | 0.50 | 0.44 | 0.54 | 0.48 | 0.57 | 0.64 | 0.62 | 0.61 | 0.71 | | | | 1.00 | 0.85 |

**Table 7. MAP EOC Assessment: PPM (Lower Diagonal), Reliabilities (Diagonal), and $r_{ca}$ (Upper Diagonal) by Strand for 2011**

| EOC | | 2011 | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | English I | | English II | | | Algebra I | | | | Algebra II | | | | Geometry | | | | Biology | | | Government | | | American History | |
| | Strand | R | TO | R | W | TO | A | D | N | TO | A | D | N | TO | A | G | M | TO | EC | LO | TO | GS | PC | TO | H | TO |
| | # of Items | 40 | 40 | 30 | 5 | 35 | 19 | 8 | 8 | 35 | 22 | 9 | 9 | 40 | 8 | 24 | 8 | 40 | 13 | 21 | 34 | 20 | 20 | 40 | 40 | 40 |
| E1 | R | 0.84 | 1.19 | | | | 0.60 | 0.57 | 0.58 | 0.63 | 0.57 | 0.64 | 0.59 | 0.59 | 0.52 | 0.56 | 0.50 | 0.57 | 0.81 | 0.78 | 0.81 | 0.82 | 0.85 | 0.84 | 0.81 | 0.81 |
| | TO | 1.00 | 0.84 | | | | 0.60 | 0.57 | 0.58 | 0.63 | 0.57 | 0.64 | 0.59 | 0.59 | 0.52 | 0.56 | 0.50 | 0.57 | 0.81 | 0.78 | 0.81 | 0.82 | 0.85 | 0.84 | 0.81 | 0.81 |
| E2 | R | | | 0.85 | 0.87 | 1.16 | 0.63 | 0.69 | 0.63 | 0.68 | 0.60 | 0.64 | 0.64 | 0.62 | 0.67 | 0.60 | 0.57 | 0.63 | 0.82 | 0.78 | 0.81 | 0.86 | 0.88 | 0.87 | 0.79 | 0.79 |
| | W | | | 0.53 | 0.44 | 1.07 | 0.54 | 0.61 | 0.54 | 0.58 | 0.49 | 0.54 | 0.55 | 0.52 | 0.52 | 0.52 | 0.48 | 0.53 | 0.71 | 0.69 | 0.71 | 0.79 | 0.81 | 0.80 | 0.63 | 0.63 |
| | TO | | | 0.99 | 0.66 | 0.86 | 0.64 | 0.70 | 0.64 | 0.68 | 0.61 | 0.65 | 0.65 | 0.63 | 0.68 | 0.61 | 0.58 | 0.64 | 0.82 | 0.78 | 0.81 | 0.86 | 0.88 | 0.87 | 0.79 | 0.79 |
| A1 | A | 0.49 | 0.49 | 0.51 | 0.32 | 0.52 | 0.78 | 0.93 | 0.95 | 1.15 | | | | | | | | | 0.66 | 0.73 | 0.72 | 0.68 | 0.69 | 0.69 | 0.60 | 0.60 |
| | D | 0.37 | 0.37 | 0.45 | 0.29 | 0.46 | 0.59 | 0.50 | 0.94 | 1.12 | | | | | | | | | 0.74 | 0.74 | 0.76 | 0.72 | 0.75 | 0.74 | 0.58 | 0.58 |
| | N | 0.44 | 0.44 | 0.48 | 0.30 | 0.49 | 0.70 | 0.55 | 0.69 | 1.10 | | | | | | | | | 0.68 | 0.69 | 0.71 | 0.69 | 0.70 | 0.71 | 0.60 | 0.60 |
| | TO | 0.54 | 0.54 | 0.58 | 0.36 | 0.59 | 0.95 | 0.74 | 0.85 | 0.87 | | | | | | | | | 0.70 | 0.75 | 0.75 | 0.71 | 0.73 | 0.73 | 0.63 | 0.63 |
| A2 | A | 0.43 | 0.43 | 0.46 | 0.27 | 0.47 | | | | | 0.69 | 0.96 | 0.95 | 1.24 | 0.82 | 0.83 | 0.81 | 0.84 | 0.59 | 0.71 | 0.69 | 0.57 | 0.55 | 0.57 | 0.55 | 0.55 |
| | D | 0.42 | 0.42 | 0.42 | 0.26 | 0.43 | | | | | 0.57 | 0.52 | 0.99 | 1.21 | 0.88 | 0.92 | 0.96 | 0.94 | 0.68 | 0.77 | 0.76 | 0.66 | 0.65 | 0.67 | 0.65 | 0.65 |
| | N | 0.39 | 0.39 | 0.42 | 0.26 | 0.44 | | | | | 0.57 | 0.51 | 0.52 | 1.19 | 0.87 | 0.95 | 0.94 | 0.95 | 0.71 | 0.77 | 0.78 | 0.65 | 0.66 | 0.67 | 0.68 | 0.68 |
| | TO | 0.49 | 0.49 | 0.52 | 0.31 | 0.53 | | | | | 0.92 | 0.78 | 0.78 | 0.81 | 0.85 | 0.88 | 0.88 | 0.89 | 0.64 | 0.74 | 0.73 | 0.63 | 0.62 | 0.64 | 0.62 | 0.62 |
| GE | A | 0.35 | 0.35 | 0.45 | 0.25 | 0.46 | | | | | 0.50 | 0.46 | 0.46 | 0.56 | 0.53 | 0.94 | 0.93 | 1.16 | 0.65 | 0.69 | 0.70 | 0.66 | 0.67 | 0.67 | 0.66 | 0.66 |
| | G | 0.43 | 0.43 | 0.47 | 0.29 | 0.48 | | | | | 0.58 | 0.56 | 0.58 | 0.67 | 0.58 | 0.71 | 0.97 | 1.23 | 0.64 | 0.69 | 0.69 | 0.67 | 0.66 | 0.68 | 0.67 | 0.67 |
| | M | 0.32 | 0.32 | 0.37 | 0.23 | 0.38 | | | | | 0.48 | 0.49 | 0.48 | 0.56 | 0.48 | 0.58 | 0.50 | 1.19 | 0.58 | 0.64 | 0.64 | 0.67 | 0.65 | 0.67 | 0.64 | 0.64 |
| | TO | 0.47 | 0.47 | 0.52 | 0.32 | 0.54 | | | | | 0.63 | 0.61 | 0.62 | 0.73 | 0.77 | 0.94 | 0.76 | 0.82 | 0.65 | 0.70 | 0.70 | 0.68 | 0.67 | 0.68 | 0.67 | 0.67 |
| BI | EC | 0.64 | 0.64 | 0.64 | 0.40 | 0.65 | 0.50 | 0.45 | 0.48 | 0.56 | 0.42 | 0.41 | 0.44 | 0.49 | 0.40 | 0.46 | 0.35 | 0.50 | 0.73 | 0.93 | 1.13 | 0.86 | 0.88 | 0.87 | 0.82 | 0.82 |
| | LO | 0.61 | 0.61 | 0.62 | 0.39 | 0.63 | 0.56 | 0.46 | 0.49 | 0.60 | 0.50 | 0.47 | 0.48 | 0.57 | 0.43 | 0.50 | 0.39 | 0.54 | 0.68 | 0.74 | 1.20 | 0.87 | 0.87 | 0.87 | 0.79 | 0.79 |
| | TO | 0.68 | 0.68 | 0.69 | 0.43 | 0.69 | 0.59 | 0.50 | 0.54 | 0.64 | 0.52 | 0.50 | 0.52 | 0.60 | 0.47 | 0.54 | 0.42 | 0.58 | 0.88 | 0.95 | 0.84 | 0.88 | 0.89 | 0.88 | 0.82 | 0.82 |
| GV | GS | 0.66 | 0.66 | 0.70 | 0.46 | 0.70 | 0.52 | 0.45 | 0.50 | 0.58 | 0.41 | 0.42 | 0.41 | 0.50 | 0.42 | 0.49 | 0.42 | 0.54 | 0.65 | 0.65 | 0.71 | 0.77 | 1.01 | 1.16 | | |
| | PC | 0.66 | 0.66 | 0.70 | 0.46 | 0.70 | 0.53 | 0.45 | 0.50 | 0.58 | 0.39 | 0.40 | 0.40 | 0.48 | 0.42 | 0.48 | 0.39 | 0.52 | 0.64 | 0.64 | 0.70 | 0.76 | 0.73 | 1.17 | | |
| | TO | 0.72 | 0.72 | 0.74 | 0.49 | 0.74 | 0.57 | 0.49 | 0.54 | 0.63 | 0.44 | 0.45 | 0.45 | 0.53 | 0.46 | 0.53 | 0.44 | 0.57 | 0.69 | 0.69 | 0.75 | 0.94 | 0.93 | 0.86 | | |
| AH | H | 0.66 | 0.66 | 0.66 | 0.37 | 0.66 | 0.48 | 0.37 | 0.45 | 0.52 | 0.41 | 0.42 | 0.44 | 0.50 | 0.43 | 0.51 | 0.41 | 0.54 | 0.62 | 0.61 | 0.68 | | | | 0.81 | 1.24 |
| | TO | 0.66 | 0.66 | 0.66 | 0.37 | 0.66 | 0.48 | 0.37 | 0.45 | 0.52 | 0.41 | 0.42 | 0.44 | 0.50 | 0.43 | 0.51 | 0.41 | 0.54 | 0.62 | 0.61 | 0.68 | | | | 1.00 | 0.81 |

**Table 8. $r_{ca}$ Strand for Cross-Year Pairs of EOC Assessments – 2009, 2010 Pairs and 2009, 2011 Pairs with Reliabilities (Diagonal of Same Test pair) from 2009 Administration**

| EOC | Strand | 2009, 2010 Pairs | | | | | | | | | | | | 2009, 2011 Pairs | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | English II | | | Algebra I | | | | Biology | | | | | English II | | | Algebra I | | | | Biology | | | |
| | | # of | R | W | TO | A | D | N | TO | EC | IN | LO | TO | # of | R | W | TO | A | D | N | TO | EC | IN | LO | TO |
| | | Items | 30 | 6 | 36 | 20 | 8 | 8 | 36 | 13 | 11 | 22 | 46 | Items | 30 | 6 | 36 | 20 | 8 | 8 | 36 | 13 | 11 | 22 | 46 |
| E1 | R | 40 | | | | 0.61 | 0.60 | 0.59 | 0.62 | | | | | 40 | | | | | | | | | | | |
| | TO | 40 | | | | 0.61 | 0.60 | 0.59 | 0.62 | | | | | 40 | | | | | | | | | | | |
| E2 | R | 30 | 0.85 | | | 0.56 | 0.56 | 0.57 | 0.58 | 0.78 | 0.72 | 0.74 | 0.79 | 30 | 0.85 | | | 0.65 | 0.65 | 0.64 | 0.66 | | | | |
| | W | 6 | | 0.57 | | 0.59 | 0.55 | 0.58 | 0.60 | 0.74 | 0.78 | 0.75 | 0.80 | 5 | | 0.57 | | 0.59 | 0.58 | 0.58 | 0.59 | | | | |
| | TO | 36 | | | 0.87 | 0.58 | 0.58 | 0.59 | 0.60 | 0.78 | 0.74 | 0.75 | 0.80 | 35 | | | 0.87 | 0.66 | 0.66 | 0.65 | 0.67 | | | | |
| A1 | A | 20 | 0.57 | 0.48 | 0.57 | 0.77 | | | | 0.64 | 0.68 | 0.66 | 0.71 | 19 | 0.66 | 0.62 | 0.66 | 0.77 | | | | 0.69 | 0.78 | 0.77 | 0.79 |
| | D | 8 | 0.61 | 0.57 | 0.62 | | 0.59 | | | 0.64 | 0.66 | 0.61 | 0.69 | 8 | 0.72 | 0.68 | 0.73 | | 0.59 | | | 0.80 | 0.86 | 0.83 | 0.87 |
| | N | 8 | 0.53 | 0.49 | 0.54 | | | 0.64 | | 0.59 | 0.61 | 0.57 | 0.64 | 8 | 0.68 | 0.61 | 0.68 | | | 0.64 | | 0.78 | 0.81 | 0.78 | 0.83 |
| | TO | 36 | 0.59 | 0.52 | 0.60 | | | | 0.87 | 0.64 | 0.68 | 0.65 | 0.71 | 35 | 0.68 | 0.64 | 0.68 | | | | 0.87 | 0.74 | 0.80 | 0.79 | 0.82 |
| A2 | A | 22 | 0.45 | 0.37 | 0.46 | 0.81 | 0.76 | 0.69 | 0.80 | 0.52 | 0.53 | 0.58 | 0.60 | 22 | 0.44 | 0.31 | 0.44 | 0.77 | 0.75 | 0.71 | 0.78 | 0.45 | 0.50 | 0.52 | 0.55 |
| | D | 10 | 0.56 | 0.46 | 0.56 | 0.82 | 0.83 | 0.81 | 0.85 | 0.64 | 0.62 | 0.64 | 0.69 | 9 | 0.54 | 0.34 | 0.53 | 0.83 | 0.86 | 0.81 | 0.85 | 0.57 | 0.58 | 0.64 | 0.67 |
| | N | 8 | 0.54 | 0.44 | 0.55 | 0.83 | 0.80 | 0.79 | 0.84 | 0.61 | 0.61 | 0.64 | 0.68 | 9 | 0.49 | 0.40 | 0.50 | 0.83 | 0.83 | 0.83 | 0.85 | 0.58 | 0.56 | 0.61 | 0.65 |
| | TO | 40 | 0.53 | 0.43 | 0.53 | 0.84 | 0.81 | 0.76 | 0.85 | 0.59 | 0.59 | 0.63 | 0.66 | 40 | 0.50 | 0.36 | 0.50 | 0.81 | 0.80 | 0.77 | 0.82 | 0.54 | 0.56 | 0.59 | 0.63 |
| GE | A | 8 | 0.52 | 0.39 | 0.52 | 0.86 | 0.83 | 0.79 | 0.85 | 0.56 | 0.61 | 0.61 | 0.65 | 8 | | | | 0.76 | 0.74 | 0.72 | 0.77 | | | | |
| | G | 24 | 0.54 | 0.45 | 0.55 | 0.80 | 0.81 | 0.79 | 0.82 | 0.62 | 0.65 | 0.64 | 0.70 | 24 | | | | 0.71 | 0.71 | 0.70 | 0.73 | | | | |
| | M | 8 | 0.47 | 0.37 | 0.46 | 0.76 | 0.79 | 0.78 | 0.79 | 0.59 | 0.58 | 0.60 | 0.65 | 8 | | | | 0.69 | 0.66 | 0.68 | 0.71 | | | | |
| | TO | 40 | 0.54 | 0.44 | 0.54 | 0.82 | 0.83 | 0.80 | 0.83 | 0.62 | 0.64 | 0.65 | 0.70 | 40 | | | | 0.74 | 0.73 | 0.73 | 0.76 | | | | |
| B1 | EC | 13 | 0.72 | 0.58 | 0.71 | 0.63 | 0.67 | 0.67 | 0.66 | 0.71 | | | | 13 | 0.71 | 0.59 | 0.69 | 0.67 | 0.70 | 0.71 | 0.69 | 0.71 | | | |
| | IN | 12 | 0.78 | 0.69 | 0.78 | 0.77 | 0.80 | 0.78 | 0.79 | | 0.76 | | | | | | | | | | | | 0.76 | | |
| | LO | 22 | 0.69 | 0.58 | 0.68 | 0.72 | 0.72 | 0.70 | 0.73 | | | 0.81 | | 21 | 0.70 | 0.64 | 0.69 | 0.76 | 0.77 | 0.74 | 0.76 | | | 0.81 | |
| | TO | 47 | 0.77 | 0.66 | 0.76 | 0.76 | 0.79 | 0.77 | 0.78 | | | | 0.89 | 34 | 0.71 | 0.62 | 0.70 | 0.74 | 0.76 | 0.75 | 0.75 | | | | 0.89 |
| GV | GS | 20 | 0.77 | 0.62 | 0.76 | 0.68 | 0.71 | 0.69 | 0.70 | 0.80 | 0.73 | 0.82 | 0.82 | 20 | 0.78 | 0.69 | 0.77 | 0.61 | 0.65 | 0.64 | 0.64 | 0.83 | 0.74 | 0.83 | 0.84 |
| | PC | 20 | 0.75 | 0.61 | 0.74 | 0.65 | 0.67 | 0.65 | 0.66 | 0.79 | 0.72 | 0.81 | 0.81 | 20 | 0.81 | 0.71 | 0.79 | 0.62 | 0.64 | 0.61 | 0.64 | 0.86 | 0.75 | 0.83 | 0.85 |
| | TO | 40 | 0.76 | 0.62 | 0.75 | 0.67 | 0.70 | 0.68 | 0.68 | 0.80 | 0.72 | 0.81 | 0.82 | 40 | 0.79 | 0.69 | 0.77 | 0.62 | 0.65 | 0.63 | 0.65 | 0.84 | 0.74 | 0.83 | 0.84 |
| AH | H | 40 | 0.70 | 0.52 | 0.68 | 0.60 | 0.62 | 0.60 | 0.61 | 0.75 | 0.63 | 0.74 | 0.75 | 40 | | | | 0.58 | 0.61 | 0.60 | 0.61 | 0.79 | 0.63 | 0.77 | 0.77 |
| | TO | 40 | 0.70 | 0.52 | 0.68 | 0.60 | 0.62 | 0.60 | 0.61 | 0.75 | 0.63 | 0.74 | 0.75 | 40 | | | | 0.58 | 0.61 | 0.60 | 0.61 | 0.79 | 0.63 | 0.77 | 0.77 |

**Table 9. $r_{ca}$ Strand for Cross-Year Pairs of EOC Assessments – 2010, 2011 Pairs with Reliabilities (Diagonal of Same Test pair) from 2010 Administration**

| EOC | Strand | 2010, 2011 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | English I | | English II | | | Algebra I | | | | Algebra II | | | | Geometry | | | | Biology | | | | Government | | | American | |
| | | # of | R | TO | R | W | TO | A | D | N | TO | A | D | N | TO | A | G | M | TO | EC | IN | LO | TO | GS | PC | TO | H | TO |
| | | Items | 40 | 40 | 30 | 6 | 36 | 20 | 8 | 8 | 36 | 22 | 10 | 8 | 40 | 8 | 24 | 8 | 40 | 13 | 12 | 22 | 47 | 20 | 20 | 40 | 40 | 40 |
| E1 | R | 40 | 0.87 | | | | | 0.54 | 0.45 | 0.46 | 0.54 | | | | | | | | | | | | | | | | | |
| | TO | 40 | | 0.87 | | | | 0.54 | 0.45 | 0.46 | 0.54 | | | | | | | | | | | | | | | | | |
| E2 | R | 30 | 0.84 | 0.84 | 0.83 | | | 0.62 | 0.60 | 0.57 | 0.63 | 0.58 | 0.69 | 0.66 | 0.63 | 0.55 | 0.61 | 0.56 | 0.60 | 0.80 | 0.81 | 0.75 | 0.82 | 0.75 | 0.75 | 0.75 | 0.70 | 0.70 |
| | W | 5 | 0.72 | 0.72 | | 0.52 | | 0.54 | 0.54 | 0.49 | 0.55 | 0.59 | 0.65 | 0.60 | 0.62 | 0.48 | 0.56 | 0.50 | 0.54 | 0.69 | 0.75 | 0.68 | 0.74 | 0.63 | 0.63 | 0.64 | 0.57 | 0.57 |
| | TO | 35 | 0.85 | 0.85 | | | 0.85 | 0.63 | 0.61 | 0.57 | 0.64 | 0.59 | 0.69 | 0.66 | 0.64 | 0.56 | 0.62 | 0.57 | 0.61 | 0.80 | 0.81 | 0.75 | 0.82 | 0.74 | 0.75 | 0.75 | 0.70 | 0.70 |
| A1 | A | 19 | 0.55 | 0.55 | 0.60 | 0.65 | 0.62 | 0.79 | | | | 0.69 | 0.83 | 0.85 | 0.78 | 0.77 | 0.80 | 0.80 | 0.81 | 0.56 | 0.66 | 0.60 | 0.66 | 0.62 | 0.61 | 0.63 | 0.48 | 0.48 |
| | D | 8 | 0.57 | 0.57 | 0.66 | 0.71 | 0.68 | | 0.57 | | | 0.64 | 0.83 | 0.81 | 0.74 | 0.66 | 0.77 | 0.66 | 0.73 | 0.61 | 0.67 | 0.57 | 0.68 | 0.60 | 0.57 | 0.59 | 0.50 | 0.50 |
| | N | 8 | 0.57 | 0.57 | 0.60 | 0.66 | 0.62 | | | 0.59 | | 0.62 | 0.82 | 0.74 | 0.71 | 0.71 | 0.80 | 0.77 | 0.79 | 0.61 | 0.70 | 0.57 | 0.68 | 0.60 | 0.56 | 0.59 | 0.51 | 0.51 |
| | TO | 35 | 0.60 | 0.60 | 0.63 | 0.69 | 0.65 | | | | 0.86 | 0.67 | 0.83 | 0.82 | 0.77 | 0.74 | 0.80 | 0.77 | 0.79 | 0.61 | 0.71 | 0.61 | 0.71 | 0.63 | 0.61 | 0.63 | 0.52 | 0.52 |
| A2 | A | 22 | 0.60 | 0.60 | 0.47 | 0.46 | 0.49 | 0.81 | 0.62 | 0.66 | 0.78 | 0.76 | | | | 0.81 | 0.78 | 0.72 | 0.79 | 0.52 | 0.64 | 0.62 | 0.65 | 0.61 | 0.60 | 0.62 | 0.57 | 0.57 |
| | D | 9 | 0.63 | 0.63 | 0.53 | 0.51 | 0.55 | 0.88 | 0.75 | 0.76 | 0.87 | | 0.62 | | | 0.85 | 0.85 | 0.78 | 0.86 | 0.60 | 0.71 | 0.69 | 0.74 | 0.69 | 0.70 | 0.71 | 0.64 | 0.64 |
| | N | 9 | 0.64 | 0.64 | 0.53 | 0.50 | 0.55 | 0.89 | 0.72 | 0.81 | 0.88 | | | 0.57 | | 0.85 | 0.87 | 0.82 | 0.88 | 0.61 | 0.73 | 0.67 | 0.74 | 0.67 | 0.64 | 0.66 | 0.63 | 0.63 |
| | TO | 40 | 0.62 | 0.62 | 0.52 | 0.50 | 0.54 | 0.85 | 0.68 | 0.73 | 0.83 | | | | 0.85 | 0.84 | 0.83 | 0.77 | 0.84 | 0.58 | 0.70 | 0.66 | 0.71 | 0.65 | 0.64 | 0.65 | 0.60 | 0.60 |
| G3 | A | 8 | 0.62 | 0.62 | 0.54 | 0.48 | 0.55 | 0.86 | 0.76 | 0.79 | 0.86 | 0.65 | 0.73 | 0.66 | 0.72 | 0.55 | | | | 0.57 | 0.68 | 0.62 | 0.69 | 0.58 | 0.55 | 0.57 | 0.55 | 0.55 |
| | G | 24 | 0.59 | 0.59 | 0.51 | 0.49 | 0.53 | 0.84 | 0.72 | 0.75 | 0.83 | 0.65 | 0.73 | 0.68 | 0.72 | | 0.80 | | | 0.60 | 0.69 | 0.63 | 0.71 | 0.60 | 0.56 | 0.59 | 0.55 | 0.55 |
| | M | 8 | 0.57 | 0.57 | 0.44 | 0.45 | 0.47 | 0.84 | 0.74 | 0.79 | 0.84 | 0.61 | 0.64 | 0.59 | 0.66 | | | 0.67 | | 0.52 | 0.66 | 0.58 | 0.65 | 0.58 | 0.54 | 0.57 | 0.55 | 0.55 |
| | TO | 40 | 0.61 | 0.61 | 0.53 | 0.50 | 0.55 | 0.86 | 0.74 | 0.78 | 0.85 | 0.68 | 0.75 | 0.70 | 0.75 | | | | 0.87 | 0.60 | 0.71 | 0.64 | 0.72 | 0.61 | 0.57 | 0.60 | 0.57 | 0.57 |
| B1 | EC | 13 | 0.75 | 0.75 | 0.74 | 0.70 | 0.75 | 0.68 | 0.65 | 0.64 | 0.68 | 0.52 | 0.64 | 0.62 | 0.58 | 0.66 | 0.70 | 0.67 | 0.69 | 0.76 | | | | 0.72 | 0.73 | 0.73 | 0.74 | 0.74 |
| | IN | | | | | | | | | | | | | | | | | | | | 0.77 | | | | | | | |
| | LO | 21 | 0.73 | 0.73 | 0.71 | 0.72 | 0.72 | 0.74 | 0.67 | 0.67 | 0.73 | 0.63 | 0.69 | 0.71 | 0.67 | 0.76 | 0.76 | 0.72 | 0.76 | | | 0.75 | | 0.76 | 0.76 | 0.77 | 0.74 | 0.74 |
| | TO | 34 | 0.76 | 0.76 | 0.74 | 0.73 | 0.75 | 0.73 | 0.69 | 0.67 | 0.73 | 0.60 | 0.69 | 0.70 | 0.66 | 0.74 | 0.76 | 0.72 | 0.76 | | | | 0.89 | 0.76 | 0.77 | 0.77 | 0.76 | 0.76 |
| GV | GS | 20 | 0.79 | 0.79 | 0.75 | 0.70 | 0.75 | 0.69 | 0.65 | 0.62 | 0.69 | 0.63 | 0.69 | 0.70 | 0.68 | 0.64 | 0.69 | 0.63 | 0.68 | 0.79 | 0.78 | 0.80 | 0.83 | 0.78 | | | 0.85 | 0.85 |
| | PC | 20 | 0.80 | 0.80 | 0.77 | 0.73 | 0.77 | 0.68 | 0.63 | 0.62 | 0.68 | 0.65 | 0.68 | 0.72 | 0.68 | 0.66 | 0.67 | 0.62 | 0.67 | 0.80 | 0.79 | 0.80 | 0.83 | | 0.79 | | 0.86 | 0.86 |
| | TO | 40 | 0.80 | 0.80 | 0.76 | 0.72 | 0.76 | 0.70 | 0.65 | 0.63 | 0.69 | 0.64 | 0.69 | 0.72 | 0.68 | 0.66 | 0.69 | 0.63 | 0.69 | 0.80 | 0.79 | 0.80 | 0.83 | | | 0.88 | 0.85 | 0.85 |
| AH | H | 40 | 0.77 | 0.77 | 0.72 | 0.65 | 0.73 | 0.62 | 0.56 | 0.58 | 0.62 | 0.50 | 0.53 | 0.55 | 0.53 | 0.58 | 0.61 | 0.57 | 0.61 | 0.77 | 0.73 | 0.75 | 0.79 | 0.83 | 0.81 | 0.83 | 0.85 | |
| | TO | 40 | 0.77 | 0.77 | 0.72 | 0.65 | 0.73 | 0.62 | 0.56 | 0.58 | 0.62 | 0.50 | 0.53 | 0.55 | 0.53 | 0.58 | 0.61 | 0.57 | 0.61 | 0.77 | 0.73 | 0.75 | 0.79 | 0.83 | 0.81 | 0.83 | | 0.85 |

## Discussion

In this paper, we examined the convergent and divergent validity of the MAP EOC assessments. To do this, we examined the relationships between the EOC assessments across 2009, 2010, and 2011. In this section, we discuss the results for each content area and its relationship to the other content areas.

*Mathematics EOC Assessments*

As anticipated, it is clear that the Algebra I, Algebra II, and Geometry EOC assessments are strongly related. Since all are measures of mathematics, it is expected that there will be strong relationships between these particular EOC assessments. In addition, the correlation coefficients indicated that the mathematics EOC assessments are only moderately related to the other EOC assessments, indicating divergent validity. This relationship between the mathematics EOC assessments and the other EOC assessments did not appear to be greatly influenced by the order of administration.

*Social Studies EOC Assessments*

It is clear that the Government and American History EOC assessments are tapping into a similar construct. Again, this was anticipated as both are considered aspects of the broader area of social studies. It was also not surprising that the English EOC assessments and the Government EOC assessments at times showed strong relationships. Both content areas involve a good amount of reading, and this is probably what the correlation coefficient is measuring. While these tests do appear to enjoy strong relationships, the relationships are not so strong as to cause concern that the English and social studies EOC assessments are measuring the same construct.

*English EOC Assessments*

Unsurprisingly, there was a strong relationship between the English I and English II EOC assessments, indicating good convergent validity.

*Biology EOC Assessment*

The Biology EOC assessment is the only high-school science assessment that DESE requires of Missouri high school students. This assessment displayed strong relationships with the English and social studies assessments, particularly when the tests were administered within the same school year. This relationship was mitigated by the removal of the PE from the 2011 test. Without the PE, the assessments appear to be only moderately related with the exception being the relationship between Biology and Government which continued to be strongly related. We suspect that the PE increased the amount of reading and writing necessary to complete the assessment, which strengthened the relationship of Biology to English and to American History. We suspect that the strong relationship between Biology and Government persist because both EOC assessments have heavy process and reading loads.

*Administration Order of Assessments*

In this study, we examined the relationship between constructs both within years and across years. In general, the same types of relationships were observed between the assessments regardless of the administration order of the assessment. Nonetheless, there were particular cases where a small group of students took a course sequence in a different order from the rest of the state, and in these cases, we did see some impact on the relationships between the EOC assessments. For example, the relationship between Geometry and Algebra II was strong when Geometry was taken first and only moderate when Algebra II was taken first. It was noted that the majority of students who tested take Geometry followed by Algebra II. It may be that the

theoretical relationship between the assessments is adversely impacted by students who sequence their coursework in an atypical fashion.

It is anticipated that most Missouri students take English I in their freshman year and English II in their junior year, meaning that there should be a two-year lag between the courses. The data presented here did not allow us to examine the relationship between the English I and English II tests with a two-year lag. Even so, there was still a strong relationship between English I and English II when there was a one-year lag.

*Conclusions*

The purpose of this study was to examine the relationships between the EOC assessments for evidence of divergent (and convergent) validity. In those cases where different content areas appeared to converge (e.g., Biology and Government), we suspect that the relationship reflects an artifact of test construction rather than the construct itself. In general, the results of this study suggest that, although correlated, the EOC assessments are appropriately related to each other and measure their own content areas, regardless of when the tests are administered.

# References

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# Appendix

**Table 1a. *r* by Strand for Cross-Year Pairs of EOC Assessments— 2009, 2010 Pairs and 2009, 2011 Pairs with Reliabilities (Diagonal of Same Test pair) from 2009 Administration**

| | | 2009, 2010 Pairs | | | | | | | | | | | | | 2009, 2011 Pairs | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | English II | | | Algebra I | | | | Biology | | | | | | English II | | | Algebra I | | | | Biology | | | |
| | | # of | R | W | TO | A | D | N | TO | EC | IN | LO | TO | | # of | R | W | TO | A | D | N | TO | EC | IN | LO | TO |
| | | Items | 30 | 6 | 36 | 20 | 8 | 8 | 36 | 13 | 11 | 22 | 46 | | Items | 30 | 6 | 36 | 20 | 8 | 8 | 36 | 13 | 11 | 22 | 46 |
| E1 | R | 40 | | | | 0.50 | 0.43 | 0.44 | 0.53 | | | | | | 40 | | | | | | | | | | | |
| | TO | 40 | | | | 0.50 | 0.43 | 0.44 | 0.53 | | | | | | 40 | | | | | | | | | | | |
| E2 | R | 30 | | | | 0.45 | 0.39 | 0.41 | 0.49 | 0.60 | 0.57 | 0.61 | 0.68 | | 30 | | | | 0.52 | 0.46 | 0.47 | 0.56 | | | | |
| | W | 6 | | | | 0.37 | 0.30 | 0.34 | 0.40 | 0.45 | 0.49 | 0.48 | 0.55 | | 5 | | | | 0.34 | 0.29 | 0.31 | 0.37 | | | | |
| | TO | 36 | | | | 0.47 | 0.41 | 0.43 | 0.52 | 0.61 | 0.59 | 0.62 | 0.69 | | 35 | | | | 0.53 | 0.47 | 0.48 | 0.58 | | | | |
| A1 | A | 20 | 0.47 | 0.32 | 0.47 | | | | | 0.48 | 0.52 | 0.53 | 0.60 | | 19 | 0.53 | 0.42 | 0.54 | | | | | 0.52 | 0.60 | 0.62 | 0.66 |
| | D | 8 | 0.42 | 0.32 | 0.43 | | | | | 0.40 | 0.43 | 0.41 | 0.49 | | 8 | 0.47 | 0.36 | 0.48 | | | | | 0.48 | 0.53 | 0.53 | 0.58 |
| | N | 8 | 0.38 | 0.28 | 0.39 | | | | | 0.38 | 0.41 | 0.39 | 0.46 | | 8 | 0.52 | 0.38 | 0.52 | | | | | 0.55 | 0.59 | 0.58 | 0.65 |
| | TO | 36 | 0.51 | 0.36 | 0.52 | | | | | 0.50 | 0.55 | 0.54 | 0.62 | | 35 | 0.58 | 0.45 | 0.59 | | | | | 0.58 | 0.65 | 0.66 | 0.72 |
| A2 | A | 22 | 0.37 | 0.25 | 0.37 | 0.62 | 0.51 | 0.48 | 0.65 | 0.38 | 0.40 | 0.46 | 0.50 | | 22 | 0.33 | 0.19 | 0.34 | 0.56 | 0.48 | 0.47 | 0.60 | 0.32 | 0.36 | 0.38 | 0.43 |
| | D | 10 | 0.40 | 0.27 | 0.41 | 0.56 | 0.50 | 0.51 | 0.62 | 0.42 | 0.43 | 0.45 | 0.52 | | 9 | 0.36 | 0.19 | 0.36 | 0.52 | 0.47 | 0.46 | 0.57 | 0.34 | 0.36 | 0.41 | 0.45 |
| | N | 8 | 0.38 | 0.25 | 0.38 | 0.55 | 0.46 | 0.47 | 0.59 | 0.39 | 0.40 | 0.44 | 0.49 | | 9 | 0.32 | 0.22 | 0.34 | 0.52 | 0.46 | 0.48 | 0.57 | 0.35 | 0.35 | 0.39 | 0.44 |
| | TO | 40 | 0.45 | 0.30 | 0.46 | 0.68 | 0.57 | 0.56 | 0.73 | 0.46 | 0.47 | 0.52 | 0.58 | | 40 | 0.41 | 0.24 | 0.42 | 0.64 | 0.55 | 0.55 | 0.69 | 0.41 | 0.44 | 0.48 | 0.54 |
| GE | A | 8 | 0.36 | 0.22 | 0.36 | 0.56 | 0.47 | 0.47 | 0.59 | 0.35 | 0.39 | 0.41 | 0.46 | | 8 | | | | 0.49 | 0.41 | 0.42 | 0.53 | | | | |
| | G | 24 | 0.45 | 0.30 | 0.45 | 0.63 | 0.56 | 0.56 | 0.68 | 0.47 | 0.50 | 0.52 | 0.59 | | 24 | | | | 0.53 | 0.46 | 0.47 | 0.58 | | | | |
| | M | 8 | 0.35 | 0.22 | 0.35 | 0.54 | 0.50 | 0.51 | 0.60 | 0.41 | 0.42 | 0.44 | 0.50 | | 8 | | | | 0.43 | 0.36 | 0.38 | 0.47 | | | | |
| | TO | 40 | 0.47 | 0.31 | 0.47 | 0.67 | 0.59 | 0.60 | 0.72 | 0.49 | 0.52 | 0.54 | 0.62 | | 40 | | | | 0.59 | 0.51 | 0.52 | 0.64 | | | | |
| B1 | EC | 13 | 0.57 | 0.38 | 0.57 | 0.48 | 0.44 | 0.46 | 0.53 | | | | | | 13 | 0.56 | 0.38 | 0.55 | 0.50 | 0.46 | 0.48 | 0.54 | | | | |
| | IN | 12 | 0.63 | 0.45 | 0.64 | 0.60 | 0.54 | 0.54 | 0.64 | | | | | | | | | | | | | | | | | |
| | LO | 22 | 0.55 | 0.38 | 0.55 | 0.54 | 0.48 | 0.48 | 0.58 | | | | | | 21 | 0.56 | 0.41 | 0.56 | 0.57 | 0.51 | 0.51 | 0.61 | | | | |
| | TO | 47 | 0.67 | 0.47 | 0.67 | 0.63 | 0.57 | 0.58 | 0.68 | | | | | | 34 | 0.60 | 0.43 | 0.60 | 0.60 | 0.53 | 0.54 | 0.64 | | | | |
| GV | GS | 20 | 0.63 | 0.42 | 0.62 | 0.53 | 0.48 | 0.48 | 0.57 | 0.60 | 0.56 | 0.65 | 0.69 | | 20 | 0.63 | 0.45 | 0.63 | 0.47 | 0.43 | 0.45 | 0.52 | 0.62 | 0.57 | 0.65 | 0.70 |
| | PC | 20 | 0.62 | 0.41 | 0.62 | 0.51 | 0.46 | 0.46 | 0.55 | 0.60 | 0.56 | 0.64 | 0.69 | | 20 | 0.63 | 0.46 | 0.63 | 0.47 | 0.42 | 0.42 | 0.51 | 0.62 | 0.56 | 0.64 | 0.69 |
| | TO | 40 | 0.66 | 0.44 | 0.66 | 0.55 | 0.50 | 0.51 | 0.60 | 0.63 | 0.59 | 0.68 | 0.73 | | 40 | 0.67 | 0.48 | 0.67 | 0.51 | 0.46 | 0.47 | 0.56 | 0.66 | 0.60 | 0.69 | 0.74 |
| AH | H | 40 | 0.60 | 0.36 | 0.59 | 0.49 | 0.44 | 0.44 | 0.52 | 0.58 | 0.51 | 0.61 | 0.66 | | 40 | | | | 0.46 | 0.42 | 0.43 | 0.51 | 0.60 | 0.49 | 0.62 | 0.65 |
| | TO | 40 | 0.60 | 0.36 | 0.59 | 0.49 | 0.44 | 0.44 | 0.52 | 0.58 | 0.51 | 0.61 | 0.66 | | 40 | | | | 0.46 | 0.42 | 0.43 | 0.51 | 0.60 | 0.49 | 0.62 | 0.65 |

**Table 1b. *rca* by Strand for Cross-Year Pairs of EOC Assessments— 2010, 2011 Pairs with Reliabilities (Diagonal of Same Test pair) from 2010 Administration**

| | | | 2010, 2011 | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | English I | | English II | | | Algebra I | | | | Algebra II | | | | Geometry | | | | Biology | | | | Government | | | American History | |
| | | # of | R | TO | R | W | TO | A | D | N | TO | A | D | N | TO | A | G | M | TO | EC | IN | LO | TO | GS | PC | TO | H | TO |
| | | Items | 40 | 40 | 30 | 6 | 36 | 20 | 8 | 8 | 36 | 22 | 10 | 8 | 40 | 8 | 24 | 8 | 40 | 13 | 12 | 22 | 47 | 20 | 20 | 40 | 40 | 40 |
| E1 | R | 40 | | | | | | 0.44 | 0.31 | 0.33 | 0.46 | | | | | | | | | | | | | | | | | |
| | TO | 40 | | | | | | 0.44 | 0.31 | 0.33 | 0.46 | | | | | | | | | | | | | | | | | |
| E2 | R | 30 | 0.72 | 0.72 | | | | 0.51 | 0.41 | 0.40 | 0.54 | 0.46 | 0.50 | 0.46 | 0.54 | 0.38 | 0.50 | 0.42 | 0.52 | 0.64 | 0.65 | 0.59 | 0.71 | 0.61 | 0.61 | 0.65 | 0.60 | 0.60 |
| | W | 5 | 0.44 | 0.44 | | | | 0.32 | 0.27 | 0.25 | 0.34 | 0.34 | 0.34 | 0.30 | 0.38 | 0.23 | 0.33 | 0.27 | 0.34 | 0.40 | 0.44 | 0.39 | 0.46 | 0.37 | 0.37 | 0.40 | 0.35 | 0.35 |
| | TO | 35 | 0.73 | 0.73 | | | | 0.52 | 0.43 | 0.41 | 0.55 | 0.48 | 0.51 | 0.46 | 0.55 | 0.38 | 0.52 | 0.43 | 0.53 | 0.64 | 0.66 | 0.60 | 0.72 | 0.61 | 0.62 | 0.65 | 0.60 | 0.60 |
| A1 | A | 19 | 0.45 | 0.45 | 0.48 | 0.42 | 0.50 | | | | | 0.53 | 0.57 | 0.57 | 0.64 | 0.51 | 0.63 | 0.58 | 0.67 | 0.43 | 0.51 | 0.46 | 0.55 | 0.49 | 0.48 | 0.52 | 0.39 | 0.39 |
| | D | 8 | 0.37 | 0.37 | 0.42 | 0.36 | 0.44 | | | | | 0.40 | 0.46 | 0.43 | 0.49 | 0.35 | 0.48 | 0.38 | 0.49 | 0.38 | 0.42 | 0.35 | 0.45 | 0.37 | 0.36 | 0.39 | 0.33 | 0.33 |
| | N | 8 | 0.44 | 0.44 | 0.46 | 0.39 | 0.48 | | | | | 0.45 | 0.53 | 0.47 | 0.55 | 0.44 | 0.59 | 0.52 | 0.61 | 0.44 | 0.51 | 0.41 | 0.53 | 0.44 | 0.42 | 0.46 | 0.39 | 0.39 |
| | TO | 35 | 0.52 | 0.52 | 0.53 | 0.46 | 0.56 | | | | | 0.54 | 0.61 | 0.58 | 0.66 | 0.51 | 0.66 | 0.59 | 0.69 | 0.50 | 0.58 | 0.49 | 0.62 | 0.52 | 0.50 | 0.55 | 0.45 | 0.45 |
| A2 | A | 22 | 0.46 | 0.46 | 0.35 | 0.27 | 0.37 | 0.59 | 0.38 | 0.42 | 0.60 | | | | | 0.49 | 0.57 | 0.49 | 0.61 | 0.37 | 0.46 | 0.44 | 0.51 | 0.45 | 0.44 | 0.48 | 0.43 | 0.43 |
| | D | 9 | 0.42 | 0.42 | 0.35 | 0.26 | 0.36 | 0.56 | 0.40 | 0.42 | 0.58 | | | | | 0.45 | 0.55 | 0.46 | 0.58 | 0.37 | 0.45 | 0.43 | 0.50 | 0.44 | 0.45 | 0.48 | 0.42 | 0.42 |
| | N | 9 | 0.43 | 0.43 | 0.35 | 0.26 | 0.36 | 0.57 | 0.39 | 0.45 | 0.59 | | | | | 0.45 | 0.56 | 0.49 | 0.59 | 0.38 | 0.46 | 0.42 | 0.50 | 0.43 | 0.41 | 0.45 | 0.42 | 0.42 |
| | TO | 40 | 0.52 | 0.52 | 0.43 | 0.33 | 0.45 | 0.68 | 0.46 | 0.50 | 0.69 | | | | | 0.56 | 0.66 | 0.57 | 0.70 | 0.45 | 0.55 | 0.52 | 0.60 | 0.52 | 0.51 | 0.55 | 0.50 | 0.50 |
| G3 | A | 8 | 0.42 | 0.42 | 0.36 | 0.26 | 0.37 | 0.56 | 0.42 | 0.44 | 0.58 | 0.42 | 0.42 | 0.37 | 0.49 | | | | | 0.36 | 0.44 | 0.39 | 0.48 | 0.37 | 0.36 | 0.39 | 0.37 | 0.37 |
| | G | 24 | 0.46 | 0.46 | 0.39 | 0.30 | 0.41 | 0.63 | 0.46 | 0.49 | 0.65 | 0.48 | 0.48 | 0.44 | 0.56 | | | | | 0.44 | 0.51 | 0.46 | 0.56 | 0.45 | 0.42 | 0.46 | 0.43 | 0.43 |
| | M | 8 | 0.37 | 0.37 | 0.29 | 0.23 | 0.30 | 0.53 | 0.39 | 0.43 | 0.55 | 0.38 | 0.35 | 0.32 | 0.43 | | | | | 0.32 | 0.41 | 0.36 | 0.44 | 0.36 | 0.34 | 0.38 | 0.36 | 0.36 |
| | TO | 40 | 0.51 | 0.51 | 0.43 | 0.33 | 0.45 | 0.69 | 0.50 | 0.54 | 0.72 | 0.53 | 0.53 | 0.48 | 0.62 | | | | | 0.47 | 0.56 | 0.50 | 0.61 | 0.49 | 0.46 | 0.51 | 0.47 | 0.47 |
| B1 | EC | 13 | 0.60 | 0.60 | 0.58 | 0.43 | 0.59 | 0.51 | 0.42 | 0.42 | 0.54 | 0.39 | 0.43 | 0.40 | 0.46 | 0.41 | 0.53 | 0.47 | 0.55 | | | | | 0.55 | 0.55 | 0.59 | 0.58 | 0.58 |
| | IN | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | LO | 21 | 0.58 | 0.58 | 0.55 | 0.45 | 0.57 | 0.56 | 0.44 | 0.44 | 0.58 | 0.47 | 0.46 | 0.46 | 0.53 | 0.49 | 0.59 | 0.51 | 0.61 | | | | | 0.58 | 0.58 | 0.62 | 0.59 | 0.59 |
| | TO | 34 | 0.65 | 0.65 | 0.62 | 0.48 | 0.63 | 0.60 | 0.47 | 0.47 | 0.62 | 0.48 | 0.49 | 0.48 | 0.56 | 0.50 | 0.62 | 0.54 | 0.65 | | | | | 0.62 | 0.62 | 0.66 | 0.64 | 0.64 |
| GV | GS | 20 | 0.65 | 0.65 | 0.60 | 0.44 | 0.61 | 0.54 | 0.43 | 0.42 | 0.56 | 0.49 | 0.47 | 0.47 | 0.55 | 0.42 | 0.54 | 0.45 | 0.56 | 0.60 | 0.60 | 0.60 | 0.68 | | | | 0.69 | 0.69 |
| | PC | 20 | 0.64 | 0.64 | 0.60 | 0.45 | 0.61 | 0.52 | 0.41 | 0.41 | 0.54 | 0.48 | 0.45 | 0.47 | 0.54 | 0.42 | 0.51 | 0.43 | 0.54 | 0.60 | 0.59 | 0.59 | 0.67 | | | | 0.68 | 0.68 |
| | TO | 40 | 0.69 | 0.69 | 0.64 | 0.48 | 0.65 | 0.57 | 0.45 | 0.44 | 0.59 | 0.52 | 0.50 | 0.50 | 0.59 | 0.45 | 0.57 | 0.48 | 0.59 | 0.64 | 0.64 | 0.64 | 0.73 | | | | 0.73 | 0.73 |
| AH | H | 40 | 0.64 | 0.64 | 0.59 | 0.42 | 0.60 | 0.50 | 0.37 | 0.40 | 0.52 | 0.39 | 0.38 | 0.37 | 0.44 | 0.39 | 0.48 | 0.42 | 0.51 | 0.60 | 0.57 | 0.58 | 0.67 | 0.66 | 0.65 | 0.70 | | |
| | TO | 40 | 0.64 | 0.64 | 0.59 | 0.42 | 0.60 | 0.50 | 0.37 | 0.40 | 0.52 | 0.39 | 0.38 | 0.37 | 0.44 | 0.39 | 0.48 | 0.42 | 0.51 | 0.60 | 0.57 | 0.58 | 0.67 | 0.66 | 0.65 | 0.70 | | |