

Maryland High School Assessment 2006 Technical Report

**Algebra/Data Analysis
Biology
English
Government**

**Educational Testing Service
January 2007
Revised June 2007**

Forward

The technical information included in this report is intended for use by those who evaluate tests, interpret scores, or use test results in making educational decisions. It is assumed that the reader has some technical knowledge of test construction and measurement procedures, as stated in Standards of Educational and Psychological Testing (American Educational Research Association, American Psychological Association, National Council on Measurement in Education, 1999).

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Introduction

The 2006 Maryland High School Assessments (MDHSAs) consisted of end-of-course tests in Algebra/Data Analysis, Biology, English, and Government. The MDHSA are referred to as “end-of-course” tests because students take each test as they complete the appropriate coursework. In addition, results from the English and Algebra administrations are used in the Maryland State Department of Education (MSDE) Adequate Yearly Progress reports, required under the No Child Left Behind Act (NCLB) for the 2006 school year.

The MDHSAs consist of selected-response (SR) items, which require students to choose between four short response options; brief constructed response (BCR) items, which require students to write a short response; and extended constructed response (ECR) items, which require students to write a longer response. The SR items are machine-scored; the BCR and ECR items are scored by raters. In addition, Algebra/Data Analysis tests include items that require a student-produced response (SPR); to respond students must grid in correct responses on the answer document. All items are based on content outlined in Maryland’s Core Learning Goals.

The MDHSAs for Algebra, Biology, English, and Government are administered in January, May and July. For January and May 2006 administrations, three operational test forms were constructed; one for the primary administration window, and one for each of two make-up administrations. For the July 2006 administration, two forms were constructed; one for the first week of testing and one for the second week of testing.

For all content areas except English, each test form consisted of operational and field test items. Operational items were common across each of the operational forms and were used to produce student scores. The field test items were scored along with the operational items, but the item scores from the field test items were not used in producing a test score. Instead, the performance on the field test items was analyzed and the calibrated items were placed into the item bank. For these content areas, with the exception of items selected for public release, all operational items are returned to the item bank where they must remain unused for at least two years to minimize item exposure.

The English forms consisted of a set of items that appeared on the 2005 English test forms and field test items. Items selected for score reporting were determined after the test administration. Detailed information about the English forms is provided in Section 6. All English items were analyzed and placed into the item bank for use in future test form construction.

The item response models used to calibrate the items in the MDHSA tests were the three-parameter logistic (3PL) model and the two-parameter partial credit (2PPC) model, also known as the generalized partial credit model (GPCM; see Section 5). These models were used to generate both total test scores and subscores. The total test scores were

generated using item-pattern scoring, and the subscores were generated using raw score (RS) to scale score (SS) tables. Total test results in the scale score metric were reported to students. Subscores were not reported to students but were aggregated at the classroom level to provide teachers and administrators with additional information about student performance in each of the subscore categories.

Beginning with the 2004 administration, a pre-equated design was implemented; prior to 2004, scores were based on parameters that were estimated following the administration using a post-equated¹ design. In the pre-equated design, item parameters are not updated following an administration; instead existing bank parameters are used to produce student scores. Using this design, scores can be calculated and assigned to students immediately after their answer documents have been processed.

All technical support and analyses were carried out in accordance with both the *ETS Standards for Quality and Fairness* (2002) and the *Standards for Educational and Psychological Testing*, issued jointly by the American Educational Research Association, American Psychological Association, and National Council on Measurement in Education (1999).

This report is divided into 6 sections: Section 1 describes test development, form construction and administration details; Section 2 discusses the validity of the MDHSAs; Section 3 describes the scoring procedures and score types; Section 4 provides statistical summary results for each of the test forms administered in 2006; Section 5 describes the analyses conducted using the field test data including classical item analyses, differential item functioning, and item response theory calibrations and scaling; and Section 6 provides information regarding the MDHSA English examinations.

There are two Appendices. Appendix A provides scree plots for the English examinations. Appendix B provides classical item statistics for each operational form and field-test item administered in 2006.

¹ In the post-equated design, anchor items representative of the content and difficulty of the test forms were used to equate the test forms using a Stocking and Lord procedure (CTB/McGraw-Hill, December, 2003).

Section 1. Test Construction and Administration

Test Development

Planning

Planning for the test development process began with the creation of item development plans for each content area. ETS content leaders collaborated with their content counterparts at MSDE to create these plans. The item bank was reviewed to determine how well the available item pool matched the test form requirements set forth in the test form blueprint as defined by the Core Learning Goals. Areas that contained low item counts were given priority when determining which indicators were to be addressed by the item writers. After these critical need areas were defined and addressed, the remaining numbers of items to be developed (which was determined by the requirements set forth in the RFP) were distributed among the remaining indicators in a fashion that would best ensure sufficient numbers of items would be available to use in the construction of operational forms for future administrations.

Test Specifications and Design

The basic test design was pre-determined by MSDE and provided to ETS in the form of the content specific “Test Specs – Test Form Matrix” document presented in Tables 1.2 to 1.6. This basic test design document provided information based on specified expectations and the distribution of the number of items by item type for each reporting category. How the specific items were placed throughout the forms was left to the collaborative efforts of the ETS and MSDE content specialists. Construction of the operational forms was based on test blueprints as approved by MSDE.

Item Type

As noted previously, there were four item types that were used in the MDHSA tests. These item types were selected response (SR), student produced response (SPR), brief constructed response (BCR), and extended constructed response (ECR). Table 1.1 shows how these item types were distributed by content area.

Table 1.1 Numbers of Items by Item Type for Each MDHSA Content Area

Content Area	Item Type			
	SR	SPR	BCR	ECR
Algebra	26	6	3	3
Biology	48	-	7	-
English	46	-	2	2
Government	50	-	7	1

Item Writing

Item writers, at least 50 percent of whom were Maryland educators, were employed to develop high quality test items that were aligned with Core Learning Goals. The item writers were selected on the basis of their depth of content knowledge and familiarity with the MDHSA testing program.

The item writers were trained on general item writing techniques as well as writing guidelines that were specific to the MDHSA program. Approximately one month after the initial item writer training, writers were provided a follow-up training session. This session was designed to evaluate how well their writing skills had developed to that point and to provide constructive feedback to guide the rest of their writing assignment.

Upon completion of their writing assignment, item writers submitted their items to ETS. The items that were accepted proceeded to item review and revision process. Specific requirements of writing for the MDHSA program can be found in the “Guidelines for Item Writers” document.

Item Review and Revision

All items developed for this program underwent a series of editorial reviews in accordance with the following procedures:

- Items edited according to standard rules developed in conjunction with MSDE.
- Items reviewed for accuracy, organization and comprehension, style, usage, consistency and sensitivity.
- Item content reviewed to establish whether the item measured the intended Goal-Expectation-Indicator.
- Verification that copyright and/or trademark permission had been obtained for any required materials.
- Internal reviews conducted and historical records established for all version changes.

After ETS performed required internal reviews, items were submitted to MSDE for their review. If the MSDE content specialist requested a copy, an original version of the item as submitted by the item writer was provided. Any associated stimulus material, graphic, and/or art was provided as well as information regarding the Goal-Expectation-Indicator that each question addressed.

MSDE performed a review of the items and provided feedback to ETS content specialists. These edits were incorporated into the items, then MSDE and ETS content specialists met and conducted a side-by-side review of the items. Any final edits to the items were made. The items were then prepared for Content Review Committee review. All constructed response items were also submitted to Measurement Incorporated (MI) for review.

The final round of reviews involved the Content Review Committee and Bias/Fairness Review Committee. These committees were diverse groups of Maryland educators who reviewed each item and ensured that content in each item accurately reflected what was taught in Maryland schools and that no individual or group would be unfairly favored or disadvantaged due to the content of the items.

Upon the completion of this final round of review, MSDE and ETS content specialists conducted another side-by-side meeting to evaluate reviews by MI, Content Review Committee, and Bias/Fairness Review Committee. The ETS content specialist then made any necessary edits to the items. The items that survived this process were ready to be placed in field test sections of operational forms.

Test Specifications

All of the 2006 operational test forms were constructed from items from the Maryland item bank. The pool of items available for use in the construction of the 2006 forms included all items that had been administered, calibrated and linked to the operational scale. The MDHSA operational scale was defined in 2002 and included items administered in 2002 and 2003. Items flagged for poor fit and items flagged for substantial differential item functioning (DIF) against one of the focal groups were excluded from the available item pool. Please refer to Section 5 for a more detailed account of these analyses and flagging criteria.

As noted previously, each test form was constructed to meet specific test blueprints. Tables 1.2 to 1.5 indicate the distribution of number of items within each reporting category by item type. The number of score points associated with each item type is provided in these tables. The forms for Algebra, Biology and Government consisted of two sessions administered within a single sitting (the two sessions were separated by a short break); the forms for English consisted of three sessions.

Rubrics for items can be found at the following locations:

Algebra	http://mdk12.org/rubrics/mathematics .
Biology	http://mdk12.org/rubrics/science
English	http://mdk12.org/rubrics/english
Government	http://mdk12.org/rubrics/socialstudies

Table 1.2 Algebra Blueprint

ALGEBRA					
Reporting Category	Number of Items				Total Points per Category
	SR	SPR	BCR	ECR	
	(1 pt)	(1 pt)	(3 pts)	(4 pts)	
Expectation 1.1 The student will analyze a wide variety of patterns and functional relationships using the language of mathematics and appropriate technology	8	1	0	1	13
Expectation 1.2 The student will model and interpret real-world situations, using the language of mathematics and appropriate technology.	10	3	0	1	17
Expectation 3.1 The student will collect, organize, analyze, and present data.	4	2	2	0	12
Expectation 3.2 The student will apply the basic concepts of statistics and probability to predict possible outcomes of real-world situations.	4	0	1	1	11
TOTAL	26	6	3	3	53

Table 1.3 Biology Blueprint

BIOLOGY				
Reporting Category	Number of Items			Total Points per Category
	SR	BCR	ECR	
	(1 pt)	(4 pts)	(4 pt)	
Goal 1 Skills and Processes of Biology	8	2	0	16
Expectation 3.1 Structure and Function of Biological Molecules	8	1	0	12
Expectation 3.2 Structure and Function of Cells and Organisms	9	1	0	13
Expectation 3.3 Inheritance of Traits	9	1	0	13
Expectation 3.4 Mechanism of Evolutionary Change	5	1	0	9
Expectation 3.5 Interdependence of Organisms in the Biosphere	9	1	0	13
TOTAL	48	7	0	76

Table 1.4 English Blueprint

ENGLISH				
Reporting Category	Number of Items			Total Points per Category
	SR	BCR	ECR	
	(1 pt)	(3 pts)	(4 pt)	
1: Reading and Literature: Comprehension and Interpretation (RC) Includes the following indicators: 1.1.1; 1.1.2; 1.1.3; 1.2.1; 1.3.3; 3.2.2	13	1	0	16
2: Reading and Literature: Making Connections and Evaluation (RE) Includes the following indicators: 1.1.4; 1.2.2; 1.2.3; 1.2.4; 1.2.5; 1.3.5; 4.1.1; 4.2.1	11	1	0	14
3: Writing - Composing (WC) Includes the following indicators: 2.1.1; 2.1.4; 2.2.1; 2.2.2; 2.2.3; 2.2.5; 2.3.1; 2.3.3; 4.3.1	8	0	2	16
4: Language Usage and Conventions (WL) Includes the following indicators: 3.1.3; 3.1.4; 3.1.6; 3.1.8; 3.3.1; 3.3.2	14	0	0	14
TOTAL	46	2	2	60

Table 1.5 Government Blueprint

GOVERNMENT				
Reporting Category	Number of Items			Total Points per Category
	SR	BCR	ECR	
	(1 pts)	(4 pts)	(4 pts)	
Expectation 1.1 The student will demonstrate understanding of the structure and functions of government and politics in the United States	13	2	1 (alt w/E2)	21-25
Expectation 1.2 The student will evaluate how the United States government has maintained a balance between protecting rights and maintaining order.	11	2	1 (alt w/E1)	19-23
Goal 2 The student will demonstrate an understanding of the history, diversity, and commonality of the peoples of the nation and world, the reality of human interdependence, and the need for global cooperation, through a perspective that is both historical and multicultural.	8	1	0	12
Goal 3 The student will demonstrate an understanding of geographic concepts and processes to examine the role of culture, technology, and the environment in the location and distribution of human activities throughout history.	7	1	0	11
Goal 4 The student will demonstrate an understanding of the historical development and current status of economic principles, institutions, and processes needed to be effective citizens, consumers, and workers.	11	1	0	15
TOTAL	50	7	1	82

Item Selection and Form Design

In order to conserve the item pool, the operational set of items consisted of a common set of items shared across forms within an administration and a unique set of items. Approximately 60% of the total form was common across the operational test sections of the January and May forms. The remaining items in the forms consisted of different mixtures of items that varied across forms. The guidelines used to construct the forms are listed in Tables 1.6 to 1.8. The exact composition of the forms varied slightly based on available items in the pool.

Table 1.6 Form Construction Specifications for the January 2006 Administration

Primary Week Form A	Primary Week Form B	Make-Up #1 Form C	Make-Up #2 Form D
Common set – 60%	Common set – 60%	Common set – 60%	Common set – 60%
Unique Items from the pool – 40% (same as items in Form B)	Unique Items from the pool – 40% (same as items in Form A)	Half of the items from primary week’s 40% – 20%	Other half of items from primary week’s 40% items – 20%
		Unique items from the pool – 20%	Unique items from the pool – 20%
Field Test Section – unique items	Field Test Section – unique items	Field Test Section – same as Form A	Field Test Section – same as Form A

Table 1.7 Form Construction Specifications for the May 2006 Administration

Primary Week Forms E -K	Make-Up #1 Form X	Make-Up #2 Form Y
Common Set –60%	Common Set –60%	Common Set – 60%
Items from the pool – 40% (the same for Forms E – K)	Half of items from primary week’s 40% items – 20%	Other half of items from primary week’s 40% items – 20%
	Unique items from the pool – 20%	Unique items from the pool – 20%
Field Test Section – unique sets of items for Forms E through K	Field Test Section – same as Form E	Field Test Section – same as Form E

Table 1.8 Form Construction Specifications for the 2006 Summer Administration

Primary Week #1 Form L	Primary Week #2 Form M
Common Set –60%	Common Set –60%
Unique Items from the pool – 40%	Unique Items from the pool – 40%
Field Test Section – items repeated from May 05 forms	Field Test Section – items repeated from May 05 forms

In addition to the operational items, embedded field test items were included with each version of the test form, resulting in several versions of an operational form that contained different sets of field test items. The items being field-tested were either newly written items or previously administered items that had poor item statistics and/or had been revised. Items eligible for re-field testing included items from the 2000-2001 administration years. These items were judged to be acceptable from a content perspective, but had one or more of the following characteristics: p-values less than 0.25, item-total correlations of less than 0.15, collapsed score levels for constructed response items (i.e., very few responses in the top score levels), very high omit rates or SR items with one best answer, as well as positive point-biserials on one or more distractors. For the administration, different versions of the forms were spiraled at the student level.

Forms were constructed using the test construction software associated with the customer item bank. The goal was to match the conditional standard error of measurement curve (CSEM) and test characteristic curves (TCC) with the “target” form defined as the base form used to set the operational scale in 2002. The test information function, CSEM, and TCC were graphically displayed using item parameters associated with the operational items.

The general steps completed during the test construction process are:

1. For each administration, all operational forms were constructed simultaneously in order to provide the best opportunity to construct parallel forms.
2. First the common set of items was selected. Then items that matched the test blueprint were selected to match the target test characteristic and standard error of measurement curves.
3. Test developers were careful to ensure that the item selections met all content specifications, including matching items to the test blueprint, distribution of keys, and avoidance of clueing² or clanging³.

² Clueing refers to information within a passage, stimulus, item, graphic, or other test component that allows respondents to select/construct the correct answer to one or more items in an assessment without the knowledge and/or skill targeted by the item.

4. After the operational forms were selected, the field test sets were constructed. Field test sets did not meet any psychometric criteria, but the sets were constructed so that they could be completed by students in 30-minutes. Field test sets consisted of SR items, a combination of BCR and SR items, or an ECR item. The field test items were embedded in the operational test.

³ Clanging occurs when an identical or resembling word(s) appears in both the item stem and one or more item distracters.

Section 2. Validity

Validity is one of the most important attributes of assessment quality. Validity refers to the degree to which evidence supports a proposed interpretation or use of a set of scores, and it is one of the most fundamental considerations in developing and evaluating tests (AERA, APA, & NCME, 1999). Validity is not based on a single study or type of study; but involves an ongoing process of gathering evidence supporting the interpretation or use of the resulting test scores. The process begins with the test design and continues throughout the entire assessment process, including design, content specifications, item development, psychometric quality, and inferences made from the results.

The development of test content for each MDHSA was overseen by a content expert who had a depth of knowledge and teaching experience related to the course in which the MDHSA was to be administered. Appropriate content leads who had similar qualifications reviewed the test development work of these individuals.

The test development process provided numerous opportunities for the client to review test content and make changes to ensure that the items were valid measures of the knowledge and skills of Maryland students according to course standards. Every item that was created was referenced to a particular instructional standard (i.e., goal, expectation, or indicator). During the internal ETS development process the specific reference was confirmed or changed to reflect changes to the item. When the item went to a committee of Maryland educators for a content review, the members of the committee made independent judgments about the match of the item content to the standard it was intended to measure, and evaluated the appropriateness for the age of students being tested. These judgments were tabulated and reviewed by the content experts who used the information to decide which items would advance to the field test stage of development.

The constructs measured by each MDHSA are described in detail in the Maryland high school curriculum standards (Core Learning Goals). All ETS content staff working on item development has been trained in the Core Learning Goals. The test blueprint documents presented in Section 1 (see Tables 1.2 to 1.5) were created in collaboration with committees of Maryland educators and were derived from the Maryland goals, expectations, and indicators. The Learning Goals can be found on the MSDE website at <http://www.mdk12.org>.

Although all eligible students participated in the MDHSA and information regarding student performance was provided to students, parents, teachers and other stakeholders, scores had no consequences for individual students. Algebra and English scores were used for AYP as a component of the Maryland No Child Left Behind (NCLB) Accountability program. Information on the interpretation of scores was provided to students, parents, schools and other stakeholders via the MSDE website.

In addition to the validation documentation gathered and maintained by MSDE, empirical information in support of the MDHSA follows:

- Section 3 provides detailed information concerning the scores that were reported for the MDHSA and the cut-scores for each content area.
- Section 4 provides demographic information for the population of students who were administered the MDHSA. Summary statistics at the test level are reported for the student population and for subgroups. In addition, score reliability analyses and measures of decision accuracy and consistency are provided for the student population.
- Section 5 includes documentation regarding the field test analyses. Descriptions of classical item analyses, differential item functioning, item response theory calibration and scaling are included. In addition, summary tables of item p-values and item-total correlations distributions are provided.
- Section 6 describes the development of the new English test. The section covers the procedures used for selecting operational items, calibration and linking, summary statistics of student achievement, decision accuracy and consistency, IRT analyses, and factor analyses.

Section 3. Scoring Procedures and Score Types

Scale Scores

The MHSA reporting scale ranges from 240 to 650. It was established in 2003 and defined so that the scores had a mean of 400 and a standard deviation 40. These scores represent ability estimates obtained using Item Response Theory (IRT). (See Section 5 IRT Calibration and Scaling for details on the 3-parameter logistic [3PL] and generalized partial-credit [GPCM] IRT models used for the MHSA).

Scale scores based on maximum likelihood estimates (MLE) are reported for the total test scores. While the total test score is based on item-pattern (IP) scoring, the subscores are based on raw score to scale score (RS-SS) scoring tables.

When IP scoring using the 3PL model is used the likelihood equation can have multiple maxima. Therefore, a numerical method was developed to find the scale score at the global maximum in the likelihood function. RS-SS scoring tables were obtained by taking the inverse of the TCC for items contributing to the associated subscores (Yen, 1984).

Conditional Standard Errors of Measurement

Corresponding conditional standard errors of measurement (SEM) were produced for both types of scoring and were equal to the inverse of the square root of the test information function.

$$\text{SEM}(\hat{\theta}) = \frac{1}{\sqrt{I(\hat{\theta})}},$$

where $\text{SEM}(\hat{\theta})$ refers to the standard error of measurement, and $I(\hat{\theta})$ refers to the test information function.

The test information function is the sum of corresponding information functions of the test items when optimal item weights are used. Item information functions depend on the item difficulty, discrimination and conditional item score variance. Thus, while polytomous items often have lower discriminations than selected response items (Fitzpatrick et al., 1996), they may convey more information because they have more score points.

Lowest and Highest Obtainable Test Scores

The maximum likelihood procedure under the 3PL model cannot produce reasonable scale score estimates for students with perfect scores or scores below the level expected by guessing. While maximum likelihood estimates are usually available for students with extreme scores other than zero or perfect, occasionally these estimates have very large CSEMs, and differences between these extreme values have little meaning. Therefore, scores were established for these students based on a rational procedure (refer to Appendix 3.C of the 2004 Technical Report). These values were called the lowest obtainable scale score (LOSS) and the highest obtainable scale score (HOSS). The same LOSS and HOSS values were used for RS-SS tables and the IP scoring. Starting with the summer 2005 administration, MSDE decided that the LOSS and HOSS values would be 240 and 650, respectively, for all content areas.

Cut-Scores

The cut-scores associated with each of the performance levels in the non-English content areas were established by MSDE in 2003. These values are given in Table 3.1. The English cut-scores were established during the standard setting meeting held in October of 2005. One cut-score was established for Biology and Government. Because Algebra and English results are used as the high school mathematics and English/language arts components of the Maryland accountability plan under NCLB, two cut-scores were established.

Table 3.1 MDHSA 2006 Cut-Scores by Content Area

Content Area	Cut-score	
	Proficient	Advanced
Algebra	412	450
Biology	400	
English	396	429
Government	394	

Year-to-Year Scale Maintenance

The Maryland HSA tests have been pre-equated since 2004. In the pre-equated design, a pool of IRT calibrated items expressed on the reporting scale exists for test form construction. The item parameter estimates for new forms are obtained from the bank and are used to build test forms that are parallel across administrations. Student scores are produced with the new form bank-obtained item parameters, thereby linking scores from one administration to the other.

To increase the item pool, the MDHSA embeds field test items in the operational test forms. The field-test data for the January and May administrations are delivered in the fall, and the field-test items are calibrated with the operational items at that time. The calibrations are linked to the reporting scale using all operational non-CR items as anchors and the Stocking and Lord procedure (Stocking & Lord, 1983). Having all operational non-CR items serve as linking items ensures that the linking set is large and reliable. Item bank parameters are established at the time of field test and are not updated following each administration.

To ensure that items behave the same way across administrations, construction of new forms follows rules defined by Kolen & Brennan (1995). These rules are:

- a) items should appear in contexts and positions as when the item parameters were established,
- b) operational items should appear in similar positions on the test. It may be problematic if an item is positioned in very different locations on the two forms, such as at the beginning of the test on one form and at the end of the test on another form, and
- c) the text is exactly the same in the old and new forms. Minor editorial changes and rearranging answer choices are discouraged; otherwise the items may function differently.

Section 4. Test-Level Analyses

Test-level analyses include demographic distributions, reliability analyses, summary statistics, and decision consistency and accuracy.

Demographic Distributions

All eligible students completed the MDHSA. The demographic characteristics of the students are given in Tables 4.1 to 4.3 for the January and May administrations of Algebra, Biology, and Government, respectively. The number of students participating in the May administration was greater than the number of students participating in the January administration. As a result, only two field test versions were included in the January administration to ensure sufficient sample sizes for the analyses of the field test items. Due to the small numbers of students participating in the July administration, the May field test sections were repeated to ensure that the test length was comparable.

Table 4.1 Demographic Information for Algebra

		January Primary Forms		January Make-Up Forms		May Primary Forms		May Make-Up Forms	
		N	%	N	%	N	%	N	%
Overall		5921		904		68550		3221	
Gender									
	Male	2962	50.03	469	51.88	34150	49.82	1694	52.59
	Female	2870	48.47	428	47.35	34092	49.73	1414	43.90
	Missing	89	1.50	7	0.77	308	0.45	113	3.51
Special Education									
	Yes	31	0.52	4	0.44	643	0.94	42	1.30
	No	5888	99.44	900	99.56	67792	98.89	3174	98.54
	504	2	0.03	0	0.00	115	0.17	5	0.16
Ethnicity									
	American Indian	24	0.41	3	0.33	227	0.33	20	0.62
	Asian/Pacific Islander	153	2.58	21	2.32	3710	5.41	75	2.33
	African American	2487	42.00	584	64.60	24778	36.15	1456	45.20
	White	2786	47.05	221	24.45	34813	50.78	1267	39.34
	Hispanic	281	4.75	41	4.54	4226	6.16	179	5.56
	Missing	190	3.21	34	3.76	796	1.16	224	6.95
Limited English Proficient									
	Yes	0	0.00	0	0.00	138	0.20	6	0.19
	No	5921	100.00	904	100.00	68373	99.74	3215	99.81
	Exited	0	0.00	0	0.00	39	0.06	0	0.00

Table 4.2 Demographic Information for Biology

		January Primary Forms		January Make-Up Forms		May Primary Forms		May Make-Up Forms	
		N	%	N	%	N	%	N	%
Overall		7533		866		68550		2592	
Gender									
	Male	3660	48.59	435	50.23	34150	49.82	1331	51.35
	Female	3824	50.76	409	47.23	34092	49.73	1228	47.38
	Missing	49	0.65	22	2.54	308	0.45	33	1.27
Special Education									
	Yes	36	0.48	3	0.35	643	0.94	34	1.31
	No	7497	99.52	863	99.65	67792	98.89	2553	98.50
	504	0	0.00	0	0.00	115	0.17	5	0.19
Ethnicity									
	American Indian	18	0.24	4	0.46	227	0.33	13	0.50
	Asian/Pacific Islander	156	2.07	24	2.77	3710	5.41	86	3.32
	African American	1890	25.09	470	54.27	24778	36.15	1181	45.56
	White	5129	68.09	281	32.45	34813	50.78	1034	39.89
	Hispanic	255	3.39	56	6.47	4226	6.16	184	7.10
	Missing	85	1.13	31	3.58	796	1.16	94	3.63
Limited English Proficient									
	Yes	0	0.00	0	0.00	138	0.20	4	0.15
	No	7533	100.00	866	100.00	68373	99.74	2587	99.81
	Exited	0	0.00	0	0.00	39	0.06	1	0.04

Table 4.3 Demographic Information for Government

		January Primary Forms		January Make-Up Forms		May Primary Forms		May Make-Up Forms	
		N	%	N	%	N	%	N	%
Overall		7648		849		54349		2252	
Gender									
	Male	3745	48.97	410	48.29	26763	49.24	1172	52.04
	Female	3867	50.56	408	48.06	27375	50.37	1035	45.96
	Missing	36	0.47	31	3.65	211	0.39	45	2.00
Special Education									
	Yes	14	0.18	5	0.59	576	1.06	23	1.02
	No	7634	99.82	844	99.41	53676	98.76	2227	98.89
	504	0	0.00	0	0.00	97	0.18	2	0.09
Ethnicity									
	American Indian	21	0.27	5	0.59	205	0.38	12	0.53
	Asian/Pacific Islander	132	1.73	18	2.12	3346	6.16	64	2.84
	African American	2153	28.15	486	57.24	19326	35.56	921	40.90
	White	5033	65.81	247	29.09	27499	50.60	971	43.12
	Hispanic	230	3.01	45	5.30	3558	6.55	174	7.73
	Missing	79	1.03	48	5.65	415	0.76	110	4.88
Limited English Proficient									
	Yes	0	0.00	0	0.00	100	0.18	4	0.18
	No	7648	100.00	849	100.00	54218	99.76	2247	99.78
	Exited	0	0.00	0	0.00	0	0.00	0	0.00

Reliability

Reliability describes the extent to which differences in test scores reflect true differences in the knowledge, ability, or skill being tested rather than fluctuations due to chance or factors other than those which were being tested. The variance in the distributions of test scores (i.e., the differences among individuals) is partly due to real differences in the knowledge, skill, or ability being tested (true-score variance) and partly due to random errors in the measurement process (error variance).

The number used to describe reliability is an estimate of the proportion of the total variance that is true variance. Several different ways of estimating this proportion exist. The estimates of reliability given in this report are internal-consistency measures, which were derived from analysis of the consistency of the performance of individuals on items within a test (internal-consistency reliability). Therefore, the estimates apply only to the test form being analyzed. They do not take into account form-to-form variation due to equating limitations or lack of parallelism, nor were they responsive to day-to-day variation due to, for example, state of health or testing environment. Reliability coefficients range from 0 to 1. The higher the reliability coefficient for a set of scores, the more likely individuals would be to obtain very similar scores if they took another form of the test.

The formula for the internal consistency reliability as measured by Cronbach's alpha (Cronbach, 1951) is reported below:

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

where n is the number of items, σ_i^2 is the variance of scores on the i -th item, and σ_x^2 is the variance of the total score (sum of scores on the individual items).

Since all four content areas contain mixed item types (dichotomous and polytomous items), it is more appropriate to report stratified alpha (Feldt & Brennan, 1989). Stratified alpha is a weighted average of Cronbach's alpha for item sets with different maximum score points or "strata." The formula for calculating the stratified alpha is:

$$strata \rho = 1 - \frac{\sum \sigma_{x_j}^2 (1 - \alpha_j)}{\sigma_x^2}$$

where $\sigma_{x_j}^2$ is the variance for strata j of the test, σ_x^2 is the total variance of the test, and α_j is the Cronbach's alpha for strata j of the test.

The results for the reliability analyses of the total test score are presented with the summary statistics in Tables 4.9 to 4.16. The reliability results indicate that all of the MDHSAs were highly reliable: reliabilities ranged from 0.89 to 0.95 for the primary forms, and from 0.90 to 0.96 for the make-up forms.

Summary Statistics

The mean scale scores by content area for the January and May administrations are presented in Table 4.4. The mean scores for Algebra, Biology, and Government were higher for the May administration compared to the January administration.

Table 4.4 Mean Scores by Administration

	Jan 2006			May 2006		
	N	Mean	SD	N	Mean	SD
Algebra	6825	404.18	46.39	71771	423.38	41.56
Biology	8399	407.55	43.73	52914	416.31	40.01
Government	8497	407.36	41.35	56601	420.40	46.29

The 2006 data presented in Tables 4.5 to 4.7 are based on students who took the tests in January, May, and July. The mean scale scores are presented for the years 2003 to 2006 by content area in Table 4.5. The mean scale scores are highest for 2006 compared to the other years.

Table 4.5 Comparison of Mean Scores

	2003	2004	2005	2006
Algebra	408.3	411.9	409.5	421.5
Biology	400.8	406.2	404.7	415.0
Government	403.5	406.5	409.3	418.5

Table 4.6 presents the passing rates for Algebra, Biology, and Government. The passing rate for all three content areas is highest for 2006 compared to the passing rates for 2003, 2004, and 2005. As can be seen in the table, 66.6% of students achieved the proficient standard or above in the three subject areas.

Table 4.6 Comparison of Percentage Passing Rates

	2003	2004	2005	2006
Algebra	53.1	59.3	54.5	66.6
Biology	54.3	62.0	58.4	67.7
Government	39.8	54.6	67.1	74.1

Table 4.7 presents the percent of Algebra students classified as basic, proficient, and advanced. Algebra is the mathematics component of the MSDE Adequate Yearly Progress report as required under the NCLB act. As can be seen in the table, one-third of

students achieved the Basic performance level, whereas two-thirds of students achieved the Proficient or Advanced performance levels.

Table 4.7 Classification Rates for Algebra

	2006
Basic	33.4
Proficient	40.7
Advanced	25.9

Summary statistics for all students and for subgroups based on gender, special education programs, ethnicity, and English language fluency are presented in Tables 4.8 through 4.13. The tables include number of students tested for whom valid scores were available, mean scale scores, and standard deviations of scale scores. In addition, test score reliabilities are provided for the overall group of examinees. Information is presented for the primary forms of the content area, followed by the make-up forms.

Results indicate that for each administration and content area, students who took the primary form scored higher on average than students who took the make-up form(s). In addition, performance varied over subgroups. At the overall examinee level, score reliability coefficients ranged from 0.89 (May primary algebra form) to 0.95 (May primary government form).

Table 4.8 Summary Statistics for Algebra Primary Forms

		January				May			
		Mean	SD	N	Alpha	Mean	SD	N	Alpha
Overall		407.86	45.42	5921	0.90	424.94	40.36	68550	0.89
Gender									
	Male	403.54	49.79	2962		422.98	43.44	34150	
	Female	412.42	39.95	2870		427.17	36.65	34092	
	Missing	404.21	44.60	89		395.18	52.89	308	
Special Education									
	Yes	*	*	31		394.12	42.73	643	
	No	408.02	45.39	5888		425.21	40.24	67792	
	504	*	*	2		433.03	27.36	115	
Ethnicity									
	American Indian	*	*	24		417.34	43.48	227	
	Asian/Pacific Islander	421.61	35.57	153		447.27	31.98	3710	
	African American	385.38	47.58	2487		405.88	41.59	24778	
	White	428.89	32.86	2786		437.83	33.00	34813	
	Hispanic	396.11	38.51	281		415.63	40.96	4226	
	Missing	399.04	44.01	190		401.70	51.88	796	
Limited English Proficient									
	Yes	*	*	0		380.36	58.41	138	
	No	407.86	45.42	5921		425.03	40.27	68373	
	Exited	*	*	0		*	*	39	

* Statistics not reported for sample size less than 50

Table 4.9 Summary Statistics for Algebra Make Up Forms

		January Make-Up Forms								May Make-Up Forms							
		C				D				X				Y			
		Mean	SD	N	Alpha	Mean	SD	N	Alpha	Mean	SD	N	Alpha	Mean	SD	N	Alpha
Overall		384.38	44.68	588	0.91	372.19	46.04	316	0.92	391.74	51.39	2680	0.92	382.90	52.17	541	0.91
Gender																	
	Male	381.24	47.87	303		367.43	46.23	166		386.54	56.52	1400		378.17	54.00	294	
	Female	387.5	40.96	282		378.14	45.75	146		398.62	43.93	1182		389.25	49.56	232	
	Missing	*	*	3		*	*	4		382.83	47.98	98		*	*	15	
Special Education																	
	Yes	*	*	4		*	*	0		*	*	39		*	*	3	
	No	384.41	44.79	584		372.19	46.04	316		391.94	51.45	2637		383.03	52.26	537	
	504	*	*	0		*	*	0		*	*	4		*	*	1	
Ethnicity																	
	American Indian	*	*	2		*	*	1		*	*	15		*	*	5	
	Asian/Pacific Islander	*	*	12		*	*	9		425.32	45.14	65		*	*	10	
	African American	372.73	42.71	386		363.87	43.35	198		377.31	49.92	1183		372.91	50.88	273	
	White	410.57	38.48	155		397.68	43.86	66		407.86	48.89	1075		400.10	51.92	192	
	Hispanic	*	*	19		*	*	22		383.43	51.01	152		*	*	27	
	Missing	*	*	14		*	*	20		386.45	45.90	190		*	*	34	
Limited English Proficient																	
	Yes	*	*	0		*	*	0		*	*	6		*	*	0	
	No	384.38	44.68	588		372.19	46.04	316		391.80	51.25	2674		382.90	52.17	541	
	Exited	*	*	0		*	*	0		*	*	0		*	*	0	

* Statistics not reported for sample size less than 50 (N<50)

Table 4.10 Summary Statistics for Biology Primary Forms

		January				May			
		Mean	SD	N	Alpha	Mean	SD	N	Alpha
Overall		411.16	41.96	7533	0.94	417.93	39.04	50322	0.94
Gender									
	Male	407.17	45.27	3660		415.77	42.33	24727	
	Female	415.48	37.83	3824		420.14	35.26	25380	
	Missing	*	*	49		404.01	50.30	215	
Special Education									
	Yes	*	*	36		383.52	40.18	483	
	No	411.33	41.95	7497		418.27	38.88	49772	
	504	*	*	0		413.33	33.10	67	
Ethnicity									
	American Indian	*	*	18		408.41	40.00	188	
	Asian/Pacific Islander	425.06	40.55	156		438.99	37.13	3033	
	African American	381.38	42.77	1890		399.38	36.19	16974	
	White	422.93	35.46	5129		429.01	35.81	26617	
	Hispanic	399.41	40.14	255		406.21	36.03	3117	
	Missing	372.61	34.41	85		403.11	45.59	393	
Limited English Proficient									
	Yes	*	*	0		386.19	39.64	57	
	No	411.16	41.96	7533		417.96	39.03	50247	
	Exited	*	*	0		*	*	18	

* Statistics not reported for sample size less than 50

Table 4.11 Summary Statistics for Biology Make Up Forms

		January Make-Up Forms								May Make-Up Forms							
		C				D				X				Y			
		Mean	SD	N	Alpha	Mean	SD	N	Alpha	Mean	SD	N	Alpha	Mean	SD	N	Alpha
Overall		381.39	45.38	571	0.93	366.06	46.17	295	0.90	385.42	46.11	2271	0.92	381.66	40.30	321	0.90
Gender																	
	Male	379.80	50.81	292		358.83	49.79	143		378.95	51.21	1177		378.37	41.79	154	
	Female	383.97	39.06	267		374.08	41.02	142		392.78	38.04	1069		385.70	37.40	159	
	Missing	*	*	12		*	*	10		*	*	25		*	*	8	
Special Education																	
	Yes	*	*	3		*	*	0		*	*	23		*	*	11	
	No	381.28	45.46	568		366.06	46.17	295		385.75	45.91	2244		382.69	39.54	309	
	504	*	*	0		*	*	0		*	*	4		*	*	1	
Ethnicity																	
	American Indian	*	*	3		*	*	1		*	*	13		*	*	0	
	Asian/Pacific Islander	*	*	9		*	*	15		410.99	43.26	78		*	*	8	
	African American	363.64	40.34	311		354.06	42.36	159		374.03	41.95	1031		378.85	33.90	150	
	White	404.63	39.32	208		390.15	46.21	73		395.52	45.47	926		385.69	47.94	108	
	Hispanic	*	*	24		*	*	32		380.25	45.86	153		*	*	31	
	Missing	*	*	16		*	*	15		408.94	58.38	70		*	*	24	
Limited English Proficient																	
	Yes	*	*	0		*	*	0		*	*	3		*	*	1	
	No	381.39	45.38	571		366.06	46.17	295		385.47	46.14	2267		381.47	40.22	320	
	Exited	*	*	0		*	*	0		*	*	1		*	*	0	

* Statistics not reported for sample size less than 50 (N<50)

Table 4.12 Summary Statistics for Government Primary Forms

		January				May			
		Mean	SD	N	Alpha	Mean	SD	N	Alpha
Overall		410.61	39.92	7648	0.94	421.53	45.55	54349	0.95
Gender									
	Male	408.86	42.06	3745		419.01	48.39	26763	
	Female	412.63	37.54	3867		424.15	42.32	27375	
	Missing	*	*	36		401.98	54.50	211	
Special Education									
	Yes	*	*	14		392.53	36.35	576	
	No	410.68	39.90	7634		421.85	45.55	53676	
	504	*	*	0		414.71	37.44	97	
Ethnicity									
	American Indian	*	*	21		414.38	36.26	205	
	Asian/Pacific Islander	421.40	36.41	132		442.30	46.23	3346	
	African American	383.55	39.00	2153		401.89	41.12	19326	
	White	423.11	33.62	5033		434.89	42.96	27499	
	Hispanic	399.37	36.88	230		408.51	41.58	3558	
	Missing	367.04	45.86	79		399.14	52.36	415	
Limited English Proficient									
	Yes	*	*	0		390.68	49.82	100	
	No	410.61	39.92	7648		421.59	45.53	54218	
	Exited	*	*	0		*	*	31	

* Statistics not reported for sample size less than 50

Table 4.13 Summary Statistics for Government Make Up Forms

		January Make-Up Forms								May Make-Up Forms							
		C				D				X				Y			
		Mean	SD	N	Alpha	Mean	SD	N	Alpha	Mean	SD	N	Alpha	Mean	SD	N	Alpha
Overall		381.83	41.35	576	0.93	370.05	43.89	273	0.92	395.44	55.00	1944	0.96	377.86	51.22	308	0.94
Gender																	
	Male	374.92	47.40	262		367.98	49.33	148		389.01	58.20	1012		375.49	52.75	160	
	Female	388.74	34.98	293		373.97	35.05	115		403.71	50.20	891		380.86	48.39	144	
	Missing	*	*	21		*	*	10		*	*	41		*	*	4	
Special Education																	
	Yes	*	*	5		*	*	0		*	*	17		*	*	6	
	No	381.98	41.42	571		370.05	43.89	273		395.84	54.81	1927		378.56	50.53	300	
	504	*	*	0		*	*	0		*	*	0		*	*	2	
Ethnicity																	
	American Indian	*	*	2		*	*	3		*	*	10		*	*	2	
	Asian/Pacific Islander	*	*	12		*	*	6		418.51	43.15	53		*	*	11	
	African American	373.37	39.57	322		362.24	42.43	164		375.30	50.54	761		370.89	49.64	160	
	White	400.30	34.38	184		391.63	43.88	63		415.97	54.04	878		390.32	52.53	93	
	Hispanic	*	*	25		*	*	20		380.99	45.15	149		*	*	25	
	Missing	*	*	31		*	*	17		378.86	43.91	93		*	*	17	
Limited English Proficient																	
	Yes	*	*	0		*	*	0		*	*	4		*	*	0	
	No	381.83	41.35	576		370.05	43.89	273		395.49	55.05	1939		377.86	51.22	308	
	Exited	*	*	0		*	*	0		*	*	1		*	*	0	

* Statistics not reported for sample size less than 50 (N<50)

Decision Accuracy and Consistency

The accuracy of decisions based on specified cut-scores was assessed for Reliability of Classification using the computer program RELCLASS, which is an ETS proprietary software. RELCLASS provides two statistics that describe the reliability of classifications based on test scores (Livingston & Lewis, 1995). More specifically, information from an administration of one form is used to estimate the following:

- 1) Decision Accuracy describes the extent to which examinees are classified in the same way as they would be on the basis of the average of all possible forms of a test. Decision accuracy answers the question: How does the actual classification of test takers, based on their single-form scores, agree with the classification that would be made on the basis of their true scores, if their true scores were somehow known?
- 2) Decision Consistency describes the extent to which examinees are classified in the same way as they would be on the basis of a single form of a test other than the one for which data are available. Decision consistency answers the question: What is the agreement between the classifications based on two non-overlapping, equally difficult forms of the test?

RELCLASS estimates decision accuracy using an estimated joint distribution of reported performance level classifications on the current form of the exam and the performance level classifications based on an all-forms average (true score). RELCLASS estimates decision consistency using an estimated joint distribution of reported performance level classifications on the current form of the exam and performance level classifications on the alternate (parallel) form. In each case, the proportion of performance level classifications with exact agreement is the sum of the entries in the diagonal of the contingency table representing the joint distribution.

The results are provided in Tables 4.14 to 4.16 by content area. The tables show that decision accuracy values ranged from 0.82 to 0.94, across all performance levels and from 0.89 to 0.90 for the Proficient and Above classification in algebra. Therefore, the agreement between classifications based on an observable variable (scores on one form of a test) and classifications based on an unobservable variable (the test takers' true scores) was very good. Decision consistency values ranged from 0.73 to 0.92 across all performance levels, and from 0.85 to 0.86 for the Proficient and Above classifications in algebra. Since decision consistency statistics describe the agreement between classifications based on two variables (scores on the form students have taken and a parallel form of the same test that is not administered to the students), these values are within the acceptable range.

Note that in all cases the decision accuracy indices are somewhat larger than the decision consistency indices. This is due to differences in the estimation procedures. The estimation procedure for decision accuracy includes a random component on one of the two variables, whereas in estimating decision consistency each variable includes a random component (Livingston & Lewis, 1995).

Table 4.14 Decision Accuracy and Consistency for the Algebra Tests

	Placement Score	Advanced	Proficient	Basic	Category Total*
January, 2006					
Decision Accuracy	450 – 515	0.12	0.02	0.00	0.14
	412 – 449	0.05	0.24	0.08	0.36
	240 – 411	0.00	0.03	0.47	0.50
	Estimated Proportion Correctly Classified*: Total = 0.82; Proficient & Above = 0.89				
Decision Consistency	450 – 515	0.11	0.03	0.00	0.14
	412 – 449	0.07	0.20	0.09	0.36
	240 – 411	0.00	0.05	0.45	0.50
	Estimated Proportion Correctly Classified*: Total =0.76; Proficient & Above = 0.86				
May, 2006					
Decision Accuracy	450 – 650	0.21	0.06	0.00	0.27
	412 – 449	0.05	0.29	0.08	0.41
	240 – 411	0.00	0.01	0.30	0.32
	Estimated Proportion Correctly Classified*: Total = 0.80; Proficient & Above = 0.90				
Decision Consistency	450 – 650	0.20	0.07	0.01	0.27
	412 – 449	0.07	0.24	0.10	0.41
	240 – 411	0.00	0.03	0.29	0.32
	Estimated Proportion Correctly Classified*: Total =0.73; Proficient & Above = 0.87				

*Inconsistencies with category cell entries are due to rounding.

Table 4.15 Decision Accuracy and Consistency for the Biology Tests

	Placement Score	Proficient	Basic	Category Total*
January, 2006				
Decision Accuracy	400 – 546	0.56	0.06	0.62
	240 – 399	0.02	0.36	0.38
	Estimated Proportion Correctly Classified*: Total = 0.92			
Decision Consistency	400 – 546	0.54	0.08	0.62
	240 – 399	0.03	0.35	0.38
	Estimated Proportion Correctly Classified*: Total =0.89			
May, 2006				
Decision Accuracy	400 – 588	0.67	0.02	0.69
	240 – 399	0.04	0.27	0.31
	Estimated Proportion Correctly Classified*: Total = 0.94			
Decision Consistency	400 – 588	0.66	0.03	0.69
	240 – 399	0.05	0.27	0.31
	Estimated Proportion Correctly Classified*: Total =0.92			

*Inconsistencies with category cell entries are due to rounding.

Table 4.16 Decision Accuracy and Consistency for the Government Tests

	Placement Score	Proficient	Basic	Category Total*
January, 2006				
Decision Accuracy	394 – 606	0.65	0.03	0.68
	240 – 393	0.03	0.29	0.32
	Estimated Proportion Correctly Classified*: Total = 0.94			
Decision Consistency	394 – 606	0.64	0.04	0.68
	240 – 393	0.04	0.28	0.32
	Estimated Proportion Correctly Classified*: Total =0.92			
May, 2006				
Decision Accuracy	394 – 650	0.71	0.04	0.75
	240 – 393	0.01	0.24	0.25
	Estimated Proportion Correctly Classified*: Total = 0.95			
Decision Consistency	394 – 650	0.70	0.06	0.75
	240 – 393	0.02	0.23	0.25
	Estimated Proportion Correctly Classified*: Total =0.92			

*Inconsistencies with category cell entries are due to rounding.

Section 5. Field Test Analyses

Following the receipt of the final scored file from Measurement Incorporated (MI), the field test analyses were completed. The analyses of the field test data consisted of four components: classical item analyses, differential item functioning (DIF), calibration, and scaling. All of the analyses were completed using Genasys, which is an ETS proprietary software. The analysis procedures for each component are described in detail. Samples used for the analyses included all valid records available, including students learning English as a second language, students with IEP or 504 plans, and students receiving accommodations. Only duplicate records, records invalidated by the test administrator, and records with five or fewer item responses were excluded from the analysis sample.

Classical Item Analyses

Classical item analyses involve computing a set of statistics based on classical test theory for every item in each form. The statistics provide key information about the quality of the items from an empirical perspective. The statistics estimated for the MDHSA field test items, and associated criteria used to flag items for the content specialists' review, are described below.

Classical item difficulty (“p-value”):

This statistic indicates the percent of examinees in the sample that answered the item correctly. Desired p-values generally fall within the range of 0.25 to 0.90. Occasionally, items that fall outside this range can be justified for inclusion in an item bank based upon the quality and educational importance of the item content or the ability to measure students with very high or low achievement, especially if the students have not yet received instruction in the content or lack motivation to complete the field test items to the best of their ability.

The item-total correlation of the correct response option (for SR items) or the CR item score with the total test score:

This statistic describes the relationship between performance on the specific item and performance on the entire form. It is sometimes referred to as a discrimination index. For SR items, the item-total correlation is the point-biserial correlation. For CR items, the item-total correlation is the polyserial correlation. Values less than 0.15 were flagged for a weaker than desired relationship and deserve careful consideration by ETS staff and MSDE before including them on future forms. Items with negative correlations can indicate serious problems with the item content (e.g., multiple correct answers, unusually complex content), an incorrect key, or students have not been taught the content.

The proportion of students choosing each response option (SR items):

This statistic indicates the percent of examinees selecting each answer option. Item options not selected by any students or selected by a very low proportion of students indicate problems with plausibility of the option. Items that do not have all answer options functioning may be discarded or revised and field tested again.

The point-biserial correlation of incorrect response option (SR items) with the total score:

These statistics describe the relationship between selecting an incorrect response option for a specific item and performance on the entire test. Typically, the correlation between an incorrect answer and total test performance is weak or negative. Values are typically compared and contrasted with the discrimination index. When the magnitude of these point-biserial correlations for the incorrect answer is stronger, relative to the correct answer, the item will be carefully reviewed for content-related problems. Alternatively, positive point-biserial correlations on incorrect option choices may indicate that students have not had sufficient opportunity to learn the material.

Percent of students omitting an item:

This statistic is useful for identifying problems with test features such as testing time and item/test layout. Typically, it is assumed that if students have an adequate amount of testing time, 95% of students should attempt to answer each question. When a pattern of omit percentages exceeds 5% for a series of items at the end of a timed section, this may indicate that there was insufficient time for students to complete all items. Alternatively, if the omit percentage is greater than 5% for a single item, this could be an indication of an item/test layout problem. For example, students might accidentally skip an item that follows a lengthy stem.

Frequency distribution of CR score points:

Observation of the distribution of scores is useful to identify how well the item is functioning. If no students are assigned the top score point, this may indicate that the item is not functioning with respect to the rubric, there are problems with the item content, or students have not been taught the content.

Summaries of p-values by content area for the field test items administered in January are found in Table 5.1 for SR items and Table 5.2 for CR items. Summaries of item-total

correlations by content area for the field test items administered in January are found in Table 5.3 for the SR items and Table 5.4 for the CR items. Summaries of p-values by content area for the field test items administered in May are found in Table 5.5 for SR items and Table 5.6 for CR items. Summaries of item-total correlations by content area for the field test items administered in May are found in Table 5.7 for the SR items and Table 5.8 for the CR items. In addition, a series of flags was created to identify items with extreme values. Flagged items were subject to additional scrutiny prior to the inclusion of the items in the final calibrations. The following flagging criteria were applied to all items tested in the 2006 assessments:

- *Difficulty Flag*: P-values less than 0.25 or greater than 0.90.
- *Discrimination Flag*: Point-biserial correlation less than 0.15 for the correct answer.
- *Distracter Flag*: Point-biserial correlation positive for incorrect option.
- *Omit Flag*: Percent omitted is greater than 5.
- *Collapsed Score Levels*: Items with no students obtaining the score point.

Following the classical item analyses, most items with poor item statistics and all items that were not scored, as per MSDE's instructions, were removed from further analyses. Table 5.9 presents items that were removed from further analyses and identified for revision and possible re-field testing. Table 5.10 presents items that, although flagged for statistical reasons including high omit rates; extreme p-values; low correlations; missing responses for SR distracters or CR score points; and C-Level DIF, were retained for further analyses and evaluation. Calibration results indicated the items were estimated reasonably, and therefore were not removed from scaling.

Differential Item Functioning

Following the classical item analyses, differential item functioning (DIF) analyses were completed. One goal of test development is to assemble a set of items that provides an estimate of student ability that is as fair and accurate as possible for all groups within the population. DIF statistics are used to identify items whereby identifiable groups of students with the same underlying level of ability have different probabilities of answering correctly (e.g. females, African Americans, Hispanics). If the item is more difficult for an identifiable subgroup, the item may be measuring something different than the intended construct. However, it is important to recognize that DIF flagged items might be related to actual differences in relevant knowledge or skill (item impact) or statistical Type I error. Subsequent review by content experts and bias/sensitivity committees is required to determine the source and meaning of evident differences.

ETS used two DIF detection methods: the Mantel-Haenszel and standardization approaches. As part of the Mantel-Haenszel procedure, the statistic described by Holland

& Thayer (1988), known as MH D-DIF, was used⁴. This statistic is expressed as the difference between the focal and reference group performance on an item after conditioning on total test score. Negative MH D-DIF statistics favor the reference group and positive values favor the focal group. The classification logic used for flagging items is based on a combination of absolute differences and significance testing. Items that are not significantly different based on the MH D-DIF ($p > 0.05$) are considered to have similar performance between the two studied groups; these items are considered to be functioning appropriately. For items where the statistical test indicates significant differences ($p < 0.05$), the effect size is used to determine the direction and severity of the DIF. For the ELA CR item, the Mantel-Haenszel procedure was executed where item categories are treated as integer scores and a chi-square test was carried out with one degree of freedom. The male and white groups were treated as the reference groups for gender and ethnicity, respectively; the female and other ethnic groups were considered the focal groups.

Based on their DIF statistics, items are classified into one of three categories and assigned values of A, B or C. Category A items contain negligible DIF, Category B items exhibit slight or moderate DIF, and Category C items have moderate to large DIF. Negative values imply that conditional on the matching variable, the focal group has a lower mean item score than the reference group. In contrast a positive value implies that, conditional on the matching variable, the reference group has lower mean item score than the focal group.

For constructed response (CR) items, the MH D-DIF statistic is not calculated; instead the standardization procedure is used in conjunction with the Mantel chi-square statistic. Analogous flagging rules have been developed that are used to classify the CR items into A, B, or C DIF categories. The flagging criteria for constructed response items are:

⁴ The formula for the estimate of constant odds ratio is:

$$\alpha_{MH} = \frac{\left(\sum_m \frac{R_{rm} W_{fm}}{N_m} \right)}{\left(\sum_m \frac{R_{fm} W_{rm}}{N_m} \right)},$$

where,

- R_{rm} = number in reference group at ability level m answering the item right,
- W_{fm} = number in focal group at ability level m, answering the item wrong,
- R_{fm} = number in focal group at ability level m answering the item right,
- W_{rm} = number in reference group at ability level m, answering the item wrong,
- N_m = total group at ability level m.

This can then be used in the following formula (Holland & Thayer, 1985):

$$MH\ D - DIF = -2.35 \ln[\alpha_{MH}].$$

- A) If the Mantel Chi-square p-value > 0.05 and/or the Mantel Chi-square p-value < 0.05 and the Standardized Mean Difference (SMD)/SD ≤ 0.17 , the item is classified as A.
- B) If the Mantel Chi-square p-value < 0.05 and $|SMD/SD| > 0.17$ then the item is classified as B.
- C) If the Mantel Chi-square p-value < 0.05 and $|SMD/SD| > 0.25$ then the item is classified as C.

Positive values favor the focal group and negative values favor the reference group.

There were 4 items flagged for C-level DIF against one of the identified focal groups (i.e., female, African American, American Indian, Asian, Hispanic). Refer to Table 5.10. The item in the January Algebra test was a CR item that favored females. The item in the May Algebra test was a SR item that was flagged for three focal groups of Hispanics, African Americans, and females, and favored the reference groups of Whites and males. The biology SR item in the January test favored males as opposed to females, as did the Government SR item in the May test. These items are flagged in the bank and will be reviewed.

IRT Calibration and Scaling

One purpose of item calibration and scaling is to create a common scale for expressing the difficulty estimates of all the items across all versions of a test. The resulting scale has a mean score of 0 and a standard deviation of 1. It should be noted that this scale is often referred to as the “theta” metric and is not used for reporting purposes because the values typically range from -3 to $+3$. Therefore, the scale is usually transformed to a reporting scale (also known as a scale score), which can be more meaningfully interpreted by students, teachers, and other stakeholders.

As noted previously, the IRT models used to calibrate the MDHSA test items were the 3-parameter logistic (3PL) model for SR items and the generalized partial credit model (GPCM) for CR items. Item response theory expresses the probability that a student will achieve a certain score on an item (such as correct or incorrect) as a function of the item’s statistical properties and the ability level (or proficiency level) of the student.

The fundamental equation of the 3PL model relates the probability that a person with ability θ will respond correctly to item j :

$$P(U_j = 1 | \theta) = P_j(\theta) = c_j + \frac{1 - c_j}{1 + e^{-1.7a_j(\theta - b_j)}}$$

where:

U_j is the response to item j , 1 if correct and 0 if incorrect;

- a_j is the slope parameter of item j , characterizing its discrimination ;
- b_j is the threshold parameter of item j , characterizing its difficulty; and
- c_j is the lower asymptote parameter of item j , reflecting the chance that students with very low proficiency will select the correct answer, sometimes called the “pseudo-guessing” level.

The parameters estimated for the 3PL model were discrimination (a), difficulty (b), and the pseudo-guessing level (c).

The GPCM is given by

$$P_{jk}(\theta) = \frac{\exp\left[\sum_{v=1}^k Z_{jv}(\theta)\right]}{\sum_{c=1}^{m_j} \exp\left[\sum_{v=1}^c Z_{jv}(\theta)\right]},$$

where

$$Z_{jk}(\theta) = 1.7a_j(\theta - b_{jk}) = 1.7a_j(\theta - b_j + d_k),$$

$$\sum_{k=2}^{m_j} d_k = 0,$$

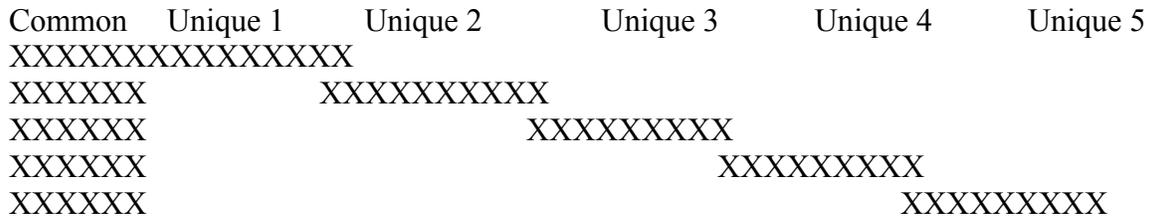
- P_{jk} is the probability of responding in the k^{th} category from m_j+1 categories for item j ,
- θ is the ability level,
- a_j is the item parameter characterizing the discrimination for item j ,
- b_{jk} is an item-category parameter for item j ,
- b_j is the item parameter characterizing the difficulty for item j , and
- d_k is the category parameter characterizing the relative difficulty of categories k .

A proprietary version of the PARSCALE computer program (Muraki & Bock, 1995) was used for all item calibration work. This program estimates parameters for a generalized partial-credit model using procedures described by Muraki (1992). The resulting calibrations were then scaled to the bank estimates using Stocking and Lord’s (1983) TCC method and the operational items as the anchor set.

The calibration and equating process is outlined in the steps below:

1. For each test, calibrate all items using a sparse matrix design that places all items on a common scale. Essentially, this means that the data was set up using the following format. In the diagram below X's represent items, spaces indicating missing data. For example, items included on version 2 but not on version 1, 3, 4

or 5 were treated as “not reached” for the purposes of the analyses and were denoted as “missing” in the diagram below.



2. Once the items have been calibrated, results are reviewed to determine if any items failed to calibrate.
3. After the final calibration parameters were obtained, the items were then linked to the bank scale using the test characteristic curve method. Specifically, the operational items were used to place the field test items onto the operational reporting scale.

Once the items were calibrated and placed onto the operational scale, the items were loaded into the item bank. Items were listed as unavailable based on the following criteria:

- Item-total correlation less than 0.1
- Item p-value less than 0.1
- Field test CR items that have fewer than 20 students achieving the highest score level
- Item not scored

Statistical Summary Tables

Table 5.1 Distribution of P-Values for the January Field Test SR Items

P-Value	Percent and Number of Items					
	Algebra		Biology		Government	
	%	N	%	N	%	N
< 0.30 ^a	6.25	1	12.50	3	0.00	0
0.30 to 0.40	12.50	2	20.83	5	20.00	2
0.41 to 0.50	18.75	3	8.33	2	40.00	4
0.51 to 0.60	12.50	2	25.00	6	10.00	1
0.61 to 0.70	12.50	2	4.17	1	10.00	1
0.71 to 0.80	18.75	3	25.00	6	20.00	2
≥ 0.81 ^b	18.75	3	4.17	1	0.00	0
Descriptive Stats						
Number of Items	16		24		10	
Mean	0.59		0.53		0.52	
SD	0.21		0.19		0.17	
Min	0.18		0.16		0.30	
Max	0.94		0.84		0.78	

^a p-value < 0.25: 1 algebra item; 1 biology item

^b p-value > 0.90: 1 algebra item

Table 5.2 Distribution of P-Values for the January Field Test CR Items

P-Value	Percent and Number of Items					
	Algebra		Biology		Government	
	%	N	%	N	%	N
< 0.30	0.00	0	50.00	1	0.00	0
0.30 to 0.40	33.33	1	50.00	1	50.00	1
0.41 to 0.50	33.33	1	0.00	0	50.00	1
0.51 to 0.60	33.33	1	0.00	0	0.00	0
0.61 to 0.70	0.00	0	0.00	0	0.00	0
0.71 to 0.80	0.00	0	0.00	0	0.00	0
≥ 0.81	0.00	0	0.00	0	0.00	0
Descriptive Stats						
Number of Items	3		2		2	
Mean	0.46		0.30		0.38	
SD	0.05		0.03		0.03	
Min	0.40		0.27		0.36	
Max	0.51		0.32		0.41	

Table 5.3 Distribution of Item-Total Correlations for the January Field Test SR Items

Correlation	Percent and Number of Items					
	Algebra		Biology		Government	
	%	N	%	N	%	N
< 0.15	0.00	0	12.50	3	0.00	0
0.15 to 0.24	0.00	0	16.67	4	30.00	3
0.25 to 0.34	31.25	5	16.67	4	40.00	4
0.35 to 0.44	50.00	8	20.83	5	30.00	3
0.45 to 0.54	12.5	2	33.33	8	0.00	0
≥ 0.55	6.25	1	0.00	0	0.00	0
Descriptive Stats						
Number of Items	16		24		10	
Mean	0.38		0.35		0.32	
SD	0.09		0.15		0.07	
Min	0.25		0.04		0.21	
Max	0.56		0.52		0.40	

Table 5.4 Distribution of Item-Total Correlations for January Field Test CR Items

Correlation	Percent and Number of Items					
	Algebra		Biology		Government	
	%	N	%	N	%	N
< 0.15	0.00	0	0.00	0	0.00	0
0.15 to 0.24	0.00	0	0.00	0	0.00	0
0.25 to 0.34	0.00	0	0.00	0	0.00	0
0.35 to 0.44	0.00	0	0.00	0	0.00	0
0.45 to 0.54	33.33	1	0.00	0	0.00	0
≥ 0.55	66.67	2	100.00	2	100.00	2
Descriptive Stats						
Number of Items	3		2		2	
Mean	0.60		0.66		0.71	
SD	0.08		0.01		0.02	
Min	0.52		0.65		0.69	
Max	0.68		0.67		0.72	

Table 5.5 Distribution of P-Values for the May Field Test SR Items

P-Value	Percent and Number of Items					
	Algebra		Biology		Government	
	%	N	%	N	%	N
< 0.30 ^a	12.50	6	1.30	1	0.00	0
0.30 to 0.40	12.50	6	9.09	7	6.67	2
0.41 to 0.50	14.58	7	16.88	13	16.67	5
0.51 to 0.60	22.92	11	20.78	16	26.67	8
0.61 to 0.70	18.75	9	23.38	18	23.33	7
0.71 to 0.80	16.67	8	14.29	11	20.00	6
≥ 0.81 ^b	2.08	1	14.29	11	6.67	2
Descriptive Stats						
Number of Items	48		77		30	
Mean	0.52		0.61		0.59	
SD	0.17		0.16		0.14	
Min	0.17		0.29		0.36	
Max	0.81		0.93		0.84	

^a p-value < 0.25: 3 algebra items

^b p-value > 0.90: 1 biology item

Table 5.6 Distribution of P-Values for the May Field Test CR Items

P-Value	Percent and Number of Items					
	Algebra		Biology		Government	
	%	N	%	N	%	N
< 0.30 ^a	0.00	0	70.00	7	0.00	0
0.30 to 0.40	45.45	5	30.00	3	100.00	5
0.41 to 0.50	54.55	6	0.00	0	0.00	0
0.51 to 0.60	0.00	0	0.00	0	0.00	0
0.61 to 0.70	0.00	0	0.00	0	0.00	0
0.71 to 0.80	0.00	0	0.00	0	0.00	0
≥ 0.81	0.00	0	0.00	0	0.00	0
Descriptive Stats						
Number of Items	11		10		5	
Mean	0.41		0.28		0.36	
SD	0.06		0.05		0.05	
Min	0.32		0.18		0.31	
Max	0.50		0.33		0.40	

^a p-value < 0.25: 1 biology item

Table 5.7 Distribution of Item-Total Correlations for the May Field Test SR Items

Correlation	Percent and Number of Items					
	Algebra		Biology		Government	
	%	N	%	N	%	N
< 0.15	4.17	2	0.00	0	3.33	1
0.15 to 0.24	10.42	5	5.19	4	13.33	4
0.25 to 0.34	29.17	14	24.68	19	16.67	5
0.35 to 0.44	29.17	14	45.45	35	26.67	8
0.45 to 0.54	25.00	12	24.68	19	36.67	11
≥ 0.55	2.08	1	0.00	0	3.33	1
Descriptive Stats						
Number of Items	48		77		30	
Mean	0.37		0.39		0.39	
SD	0.11		0.08		0.12	
Min	0.11		0.21		0.10	
Max	0.59		0.52		0.59	

Table 5.8 Distribution of Item-Total Correlations for May Field Test CR Items

Correlation	Percent and Number of Items					
	Algebra		Biology		Government	
	%	N	%	N	%	N
< 0.15	0.00	0	0.00	0	0.00	0
0.15 to 0.24	0.00	0	0.00	0	0.00	0
0.25 to 0.34	0.00	0	0.00	0	0.00	0
0.35 to 0.44	0.00	0	0.00	0	0.00	0
0.45 to 0.54	0.00	0	0.00	0	0.00	0
≥ 0.55	100.00	11	100.00	10	100.00	5
Descriptive Stats						
Number of Items	11		10		5	
Mean	0.67		0.70		0.71	
SD	0.04		0.04		0.02	
Min	0.61		0.64		0.69	
Max	0.73		0.77		0.74	

Table 5.9 Field Test Items Excluded from Analyses by Administration and Content Area

Content	MD ID	Form	Sequence	Response Type	Reason
January					
Algebra	79121	B	12	CR	grid incorrectly appeared in answer book; MSDE requested Do Not Score
Biology	79404	ACD	67	SR	R = -0.06
	79483	B	8	SR	R = -0.13
	79453	B	9	SR	R = -0.03
	79492	B	51	SR	R = -0.03
May					
Algebra	106647	F	30	CR	item content issue; MSDE requested Do Not Score
Biology	108504	K	8	SR	R = -0.04
Government	135493	H	48	CR	mistake in scoring (pooled with a similar item); MSDE requested Do Not Score

Table 5.10 Field Test Items with Statistical Flags Retained in Analysis

	Statistical Flag						
	Omit Rate		P-value		Corr	Missing responses for distracters or score points	C-Level DIF
	SR \geq 5%	CR \geq 20%	\leq 0.10	\geq 0.90	< 0.10		
January							
Algebra	2	0	0	1	0	0	1
Biology	0	0	0	0	2	0	1
Government	0	0	0	0	0	0	0
May							
Algebra	3	0	0	0	0	0	1
Biology	0	0	0	1	0	0	0
Government	0	0	0	0	0	0	1

Section 6. English Test

In 2004, MSDE developed a tenth-grade English test to replace the ninth-grade English I test. Items for the new test were administered in May 2005, January 2006, and May 2006. The January 2006 forms were reprints of the May 2005 forms. In these forms, the items with the best qualities were designated as operational, and used to generate student scores. The January and May 2007 forms will be the first pre-equated operational forms.

The new grade 10 test differed somewhat from the grade 9 test. A number of indicators (i.e., objectives) were added to the new English test and several new item types were developed to assess the new indicators. The new test involved three sessions; the ninth-grade test had only two sessions. MSDE developed three templates to allow for the field-testing of items in each of the three sessions rather than at the end of the test as had been done in the ninth-grade test. The templates were designed to accommodate the requirements of the blueprint within the time constraints of the three sessions.

This section of the technical report largely describes the May 2006 tests. Although some information about student performance on the January 2006 tests is also provided.

The section is organized into two parts. The first part describes the procedures for selecting the operational items for the new English test. It also presents item-level statistics and demographic information by form and describes the calibration and linking procedure. The second part presents demographic characteristics of the test takers, summary statistics describing student achievement, measures of classification consistency, IRT analyses, and the results of factor analyses results.

Procedures for Selecting Operational Items

The process used to select the operational items for the English May 2006 forms was as follows:

1. Measurement Incorporated delivered five English files (one per week from the last week of June to the last week of July) to MSDE. Each file contained a sample of data collected for two of the 10 field test forms (i.e., EF, GH, JK, LM, and NP). Each sample consisted of 3,000 students.
2. ETS conducted item analyses and DIF analyses for each form. An Excel file, which contained descriptive and DIF statistics in a pre-determined format, was posted to DocuShare. Items with one or more of the statistical characteristics listed below were flagged.
 - p-values ≤ 0.25
 - p-values ≥ 0.90
 - point-biserials ≤ 0.15
 - omit rate $\geq 5.0\%$

- distracter item-total correlation > 0.0
- C-level DIF

Information about the interpretation of these indicators is found in the Field-Test Analysis section of this report. The number of items flagged for each form is presented in Table 6.1.

Table 6.1 Number of Items Flagged by Field Test Form

Statistical Flag	E06	F06	G06	H06	J06	K06	L06	M06	N06	P06
P-value ≤ 0.25	0	0	1	0	0	0	1	2	0	1
Item Total Correlation ≤ 0.15	2	1	1	0	0	1	1	1	2	1
Omit ≥ 0.05	5	3	5	3	3	6	3	2	3	3
Distracter Point Biserial > 0.0	4	3	5	2	3	6	1	4	7	5
P-value ≥ 0.90	0	0	1	1	1	2	1	2	1	1
C-Level DIF	3	5	1	3	4	3	0	2	4	2
Total Number of Flags	14	12	14	9	11	18	7	13	17	13
Total Number of Items Flagged	11	10	12	7	10	15	5	9	13	10
Total Items Analyzed	75	76	72	77	76	75	75	76	75	74

Note: Results are for all items on the test and are derived from sample data of 3,000 students per form.

- MSDE reviewed the item analysis results and used the information to identify operational, field-test, and Do Not Score items. MSDE posted the files to DocuShare. The number of items per form varied from 72 to 77. Following item selection, each form consisted of 50 operational items: 46 SR items, 2 BCR items, and 2 ECR items. The number of items per subscore category was consistent with the Target test form, which was Form K from the May 2005 administration. Form K was determined to be the best form for standard setting. Consistent with Form K, each form had 14 items from Comprehension and Interpretation, 12 items from Making Connections and Evaluation, 10 items from Composing, and 14 items from Language Usage and Conventions.
- ETS produced summary statistics on all operational items. The field-test items were put into the item bank for future forms development. Items that were identified as Do Not Score were not calibrated. Summary statistics of the *p*-values and item-test correlations for the selected operational items are presented for each of the May 2006 forms in Tables 6.2 and 6.3, respectively. These results were based on test takers that took each form. Table 6.4 provides demographic information for the all test takers of the May 2006 English administration and by form.

Table 6.2 Summary Statistics Describing the P-Values for the Operational Selected Response and Constructed Response Items by Form

Selected Response											
Interval	Target	E06	F06	G06	H06	J06	K06	L06	M06	N06	P06
< 0.30	0	0	0	0	0	0	0	0	1	0	0
0.30-0.39	1	3	1	1	4	1	1	1	2	1	1
0.40-0.49	5	2	3	4	2	5	4	3	1	3	4
0.50-0.59	4	6	7	4	7	6	5	6	7	3	5
0.60-0.69	15	14	11	8	10	8	10	13	6	8	13
0.70-0.79	17	15	20	22	14	19	19	17	19	24	18
0.80-0.89	4	5	3	6	8	6	6	5	9	6	4
0.90-1.00	0	1	1	1	1	1	1	1	1	1	1

Constructed Response											
Interval	Target	E06	F06	G06	H06	J06	K06	L06	M06	N06	P06
< 0.30	0	0	0	0	0	0	0	0	0	0	0
0.30-0.39	0	0	0	0	0	0	0	0	0	0	0
0.40-0.49	2	2	3	2	2	0	2	1	2	2	2
0.50-0.59	1	2	1	2	1	4	2	3	1	1	1
0.60-0.69	1	0	0	0	1	0	0	0	1	1	1
0.70-0.79	0	0	0	0	0	0	0	0	0	0	0
0.80-0.89	0	0	0	0	0	0	0	0	0	0	0
0.90-1.00	0	0	0	0	0	0	0	0	0	0	0

N Items	50	50	50	50	50	50	50	50	50	50	50
Mean	0.67	0.65	0.66	0.67	0.66	0.66	0.67	0.67	0.68	0.69	0.66
SD	0.12	0.13	0.12	0.13	0.15	0.13	0.13	0.12	0.15	0.12	0.12

Note: Results are for the operational items only and are derived from the full population of students for each form. The number of examinees per form ranged from 4,972 to 6,804 (see Table 6.4).

Table 6.3 Summary Statistics Describing the Item-Test Correlations for the Operational Selected Response and Constructed Response Items by Form

Selected Response											
Interval	Target	E06	F06	G06	H06	J06	K06	L06	M06	N06	P06
< 0.30	0	2	1	2	3	3	3	4	3	1	4
0.30-0.39	11	7	11	12	11	10	12	14	10	11	13
0.40-0.49	21	20	18	19	19	25	21	21	24	20	18
0.50-0.59	13	17	15	13	13	8	10	7	9	14	10
0.60-0.69	1	0	1	0	0	0	0	0	0	0	1
0.70-0.79	0	0	0	0	0	0	0	0	0	0	0
0.80-0.89	0	0	0	0	0	0	0	0	0	0	0
0.90-1.00	0	0	0	0	0	0	0	0	0	0	0

Constructed Response											
Interval	Target	E06	F06	G06	H06	J06	K06	L06	M06	N06	P06
< 0.30	0	0	0	0	0	0	0	0	0	0	0
0.30-0.39	0	0	0	0	0	0	0	0	0	0	0
0.40-0.49	0	0	0	0	0	0	0	0	0	0	0
0.50-0.59	1	0	0	0	0	0	0	0	0	1	0
0.60-0.69	1	3	1	2	3	2	3	4	3	2	4
0.70-0.79	2	1	3	2	1	2	1	0	1	1	0
0.80-0.89	0	0	0	0	0	0	0	0	0	0	0
0.90-1.00	0	0	0	0	0	0	0	0	0	0	0

N Items	50	50	50	50	50	50	50	50	50	50	50
Mean	0.48	0.48	0.47	0.46	0.46	0.46	0.45	0.43	0.45	0.46	0.45
SD	0.09	0.10	0.11	0.10	0.11	0.10	0.10	0.10	0.10	0.10	0.11

Note: Results are for the operational items only and are derived from the full population of students for each form. The number of examinees per form ranged from 4,972 to 6,804 (see Table 6.4).

Table 6.4 Demographic Information for the May 2006 Population by Form

		2006 Poptn	E06	F06	G06	H06	J06	K06	L06	M06	N06	P06
Overall	N	57324	6804	5573	5521	5408	5380	5358	5261	5222	5098	4972
Gender	Male	28397	3629	2751	2661	2664	2617	2604	2552	2518	2504	2470
	(%)	49.54	53.34	49.36	48.20	49.26	48.64	48.60	48.50	48.20	49.10	49.70
	Female	28927	3175	2822	2860	2744	2763	2754	2709	2704	2594	2502
	(%)	50.46	46.66	50.64	51.80	50.74	51.36	51.40	51.50	51.80	50.90	50.30
Special Education	Yes	5518	1642	443	447	402	397	403	362	361	346	327
	(%)	9.63	24.13	7.95	8.10	7.43	7.38	7.52	6.88	6.91	6.79	6.58
	No	50705	5020	5019	4972	4906	4882	4863	4798	4755	4663	4551
	(%)	88.45	73.78	90.06	90.06	90.72	90.74	90.80	91.20	91.10	91.50	91.50
	504	1101	142	111	102	100	101	92	101	106	89	94
	(%)	1.92	2.09	1.99	1.85	1.85	1.88	1.72	1.92	2.03	1.75	1.89
Ethnicity	American Indian	214	23	20	21	16	29	32	15	17	18	12
	(%)	0.37	0.34	0.36	0.38	0.30	0.54	0.60	0.29	0.33	0.35	0.24
	Asian/Pacifi c Islander	3238	378	336	323	317	310	322	288	279	311	287
	(%)	5.65	5.56	6.03	5.85	5.86	5.76	6.01	5.47	5.34	6.10	5.77
	African American	21155	2557	2030	1974	1978	1929	1941	1885	1959	1857	1789
	(%)	36.90	37.58	36.43	35.75	36.58	35.86	36.20	35.80	37.50	36.40	36.00
	White	29315	3442	2860	2893	2778	2794	2732	2755	2653	2602	2588
	(%)	51.14	50.59	51.32	52.40	51.37	51.93	51.00	52.40	50.80	51.00	52.10

Table 6.4 Demographic Information for the May 2006 Population by Form (Continued)

		2006 Poptn	E06	F06	G06	H06	J06	K06	L06	M06	N06	P06
	Hispanic	3402	404	327	310	319	318	331	318	314	310	296
	(%)	5.93	5.94	5.87	5.61	5.90	5.91	6.18	6.04	6.01	6.08	5.95
Limited English Prof	Yes	783	99	85	73	64	64	77	77	74	68	73
	(%)	1.37	1.46	1.53	1.32	1.18	1.19	1.44	1.46	1.42	1.33	1.47
	No	55885	6623	5432	5381	5273	5255	5233	5128	5094	4966	4837
	(%)	97.49	97.34	97.47	97.46	97.50	97.68	97.70	97.50	97.60	97.40	97.30
	Exited	656	82	56	67	71	61	48	56	54	64	62
	(%)	1.14	1.21	1.00	1.21	1.31	1.13	0.90	1.06	1.03	1.26	1.25
Grade	Mean	10.00	10.00	10.00	10.00	10.00	10.00	10.00	9.99	9.99	10.00	10.00
	(SD)	0.38	0.38	0.37	0.37	0.37	0.36	0.35	0.34	0.35	0.36	0.36

Calibration and Linking Procedure

In order to calibrate and link the operational and field-test items on the 2006 English form to the scale of the reference form (May, 2005), there were two rounds of calibration and linking. Both rounds used only SR items for linking. In the first round, the operational items were calibrated and linked to the May, 2005 score scale using 22 items that were common to all 2006 forms and 2005 forms. In the second round, the operational items and the field test items were calibrated together and linked to the base year score scale using the transformed item parameters obtained in phase 1 as anchors.

The content representation of the 22 item anchor set is given in Table 6.5. The table shows the number and percentage of anchor items by subscore.

Table 6.5 Content Representation of the 2006 Anchor Set

Subscore	# of Items	% of Anchor	% of Total Test
Comprehension and Interpretation	7	32	28
Making Connections and Evaluation	6	27	24
Composing	2	9	20
Language Usage and Conventions	7	32	28

Calibration and Linking of 2006 Operational Items. Items identified as anchor items were calibrated using the three-parameter logistic (3PL) model. A proprietary version of the PARSCALE computer program (Muraki & Bock, 1995) that is included as a module within GENASYS was used for all item calibration work. The PARSCALE program is run in two stages. In the first stage, the estimation procedure constrains the updated prior distribution to be normally distributed. The estimates resulting from this first stage are used as starting values for a second PARSCALE run, in which the subject prior distribution is updated after each expectation-maximization (E-M) cycle.

The items common to all forms were used to concurrently calibrate the anchor items in all 10 forms. The resulting calibration was then scaled to the bank estimates using the Stocking and Lord (SL) procedure (Stocking & Lord, 1983). The linking process is iterative and involves an inspection of differences between the new estimates and the reference estimates for the linking items. Anchor items with large weighted or unweighted root-mean-square differences (WRMSD) between item characteristic curves (ICCs) based on the old and new difficulty estimates are eliminated and the linking constants re-estimated. The differences are calculated as follows:

$$WRMSD = \sqrt{\sum_{j=1}^{61} w_j [P_n(\theta_j) - P_r(\theta_j)]^2},$$

where θ_j ranges from -3.0 to 3.0 by 0.1 thus forming 61 intervals, w_j is a weight equal to the proportion of estimated abilities from the transformed new form in interval j , $P_n(\theta_j)$ is the probability of correct response for the transformed new form item at ability level j , and $P_r(\theta_j)$ is the probability of correct response for the reference form (i.e., the bank estimates). Any linking item for which the difference WRMSD was greater than 0.125 was eliminated from the anchor set. None of the WRMSD values exceeded 0.125 , therefore it was not necessary to eliminate any of the anchor items from the analyses.

The SL procedure identifies a linear transformation that minimizes the differences between a test characteristic curve (TCC) based on a set of anchor items and a TCC based on a set of reference items. In this case, the scaling parameters of slope (i.e., 34.277) and intercept (i.e., 407.237) were used to transform all May 2006 operational item parameters so that they are expressed on the base year score scale.

Calibration and Linking of the Field Test Items. In this second round of calibration, the operational items and field-test items in the May 2006 English test forms were calibrated concurrently using a sparse-matrix linked by common items across the 10 English forms. Once calibrated together, the SL procedure was used to link the calibrations to the base year scale. Transformed parameters for the operational items served as anchors.

The SL procedure was used to put sets of operational and field-test items onto the reference scale. In this case, the scaling parameters of slope (i.e., 34.294) and intercept (i.e., 404.967) were used to transform all May 2006 field-test item parameters so that they are expressed on the base year score scale.

Both linking procedures were evaluated by considering the following:

1. Mean differences in reference and transformed anchor item parameters
2. Ratio of standard deviations of reference and transformed anchor item parameters
3. Correlations between reference and transformed anchor item parameters
4. Plots of reference and transformed anchor item parameters
5. Plot of test characteristic curves based on reference and anchor item parameters
6. Comparison of item characteristic curves for reference and anchor item parameters.

Transformed a-parameter, b-parameter, and c-parameter estimates were plotted against the parameter estimates on the base year scale. These plots were inspected. Results indicated high correlations between the transformed and base year item parameters. Plots comparing of the TCCs of the reference and transformed item parameters, as well as plots of the ICCs based on reference and transformed parameters for all anchor items were

produced and inspected for each round. All results indicated that the linking procedures functioned as expected and that all items were successfully placed on the reference scale.

Summary Statistics of Student Achievement

Provided in this section are statistics that describe the test takers and their achievement on the January and May 2006 English tests. The demographic characteristics of the students are presented in Table 6.14. The scale score statistics and reliability analyses are presented in Table 6.15 for the primary forms and in Table 6.16 for the make-up forms.

Table 6.14 Demographic Information

		January Primary Forms		January Make-Up Forms		May Primary Forms		May Make-Up Forms	
		N	%	N	%	N	%	N	%
Overall		7321		1024		54597		2727	
Gender									
	Male	3625	49.68	520	52.37	26970	49.40	1427	52.33
	Female	3671	50.32	473	47.63	27627	50.60	1300	47.67
	Missing	25	0.34	31	3.03	0	0.00	0	0.00
Special Education									
	Yes	49	0.67	1022	99.80	5130	9.40	388	14.23
	No	7270	99.30	2	0.20	48429	88.70	2276	83.46
	504	2	0.03	0	0.00	1038	1.90	63	2.31
Ethnicity									
	American Indian	18	0.25	4	0.41	203	0.37	11	0.40
	Asian/Pacific Islander	196	2.70	43	4.40	3151	5.80	87	3.20
	African American	1967	27.28	486	50.21	19899	36.45	1256	46.06
	White	4679	64.89	364	37.60	28097	51.46	1218	44.66
	Hispanic	351	4.87	71	7.33	3247	5.95	155	5.68
	Missing	110	1.50	56	5.47	0	0.00	0	0.00
Limited English Proficient									
	Yes	1	0.01	0	0.00	754	1.38	29	1.06
	No	7320	99.99	1024	100.00	53222	97.48	2663	97.65
	Exited	0	0.00	0	0.00	621	1.14	35	1.28

Table 6.15 Summary Statistics for English Primary Forms

		January				May			
		Mean	SD	N	Alpha	Mean	SD	N	Alpha
Overall		398.40	38.78	7321	0.92	405.23	37.46	54597	0.92
Gender									
	Male	391.16	40.21	3625		397.35	38.76	26970	
	Female	405.80	35.64	3671		412.92	34.44	27627	
	Missing	*	*	25		*	*	0	
Special Education									
	Yes	*	*	49		364.92	35.55	5130	
	No	398.62	38.74	7270		409.63	35.01	48429	
	504	*	*	2		399.15	37.20	1038	
Ethnicity									
	American Indian	*	*	18		401.63	33.44	203	
	Asian/Pacific Islander	401.84	37.71	196		421.93	36.15	3151	
	African American	377.38	37.07	1967		389.88	33.48	19899	
	White	408.65	35.31	4679		415.44	36.51	28097	
	Hispanic	384.61	35.94	351		395.01	33.61	3247	
	Missing	377.52	46.25	110		*	*	0	
Limited English Proficient									
	Yes	*	*	1		372.83	30.98	754	
	No	398.40	38.78	7320		405.84	37.38	53222	
	Exited	*	*	0		392.37	30.48	621	

* Statistics not reported for sample size less than 50 (N<50)

Table 6.16 Summary Statistics for English Make-Up Forms

		Jan Make-Up Forms								May Make-Up Forms							
		C				D				X				Y			
		Mean	SD	N	Alpha	Mean	SD	N	Alpha	Mean	SD	N	Alpha	Mean	SD	N	Alpha
Overall		371.56	43.28	679	0.92	357.13	44.61	345	0.92	378.40	44.47	2214	0.94	374.34	42.21	513	0.92
Gender																	
	Male	364.14	45.19	348		345.37	46.31	172		368.42	47.08	1146		363.98	43.40	281	
	Female	380.29	39.62	311		368.83	40.56	162		389.11	38.74	1068		386.88	37.13	232	
	Missing	*	*	20		*	*	11		*	*	0		*	*	0	
Special Education																	
	Yes	*	*	2		*	*	0		347.27	40.49	302		345.72	43.13	86	
	No	371.62	43.31	677		357.13	44.61	345		383.21	43.01	1862		380.14	39.67	414	
	504	*	*	0		*	*	0		387.26	45.34	50		*	*	13	
Ethnicity																	
	American Indian	*	*	2		*	*	2		*	*	10		*	*	1	
	Asian/Pacific Islander	*	*	23		*	*	20		398.30	41.56	79		*	*	8	
	African American	357.51	41.13	298		346.26	39.77	188		366.23	39.30	994		366.79	37.53	262	
	White	387.98	40.78	271		373.92	45.53	93		389.59	46.21	1008		383.42	46.50	210	
	Hispanic	*	*	43		*	*	28		372.27	43.40	123		*	*	32	
	Missing	*	*	42		*	*	14		*	*	0		*	*	0	
Limited English																	
Proficient	Yes	*	*	0		*	*	0		*	*	26		*	*	3	
	No	371.56	43.28	679		357.13	44.61	345		379.06	44.34	2156		374.67	42.24	507	
	Exited	*	*	0		*	*	0		*	*	32		*	*	3	

* Statistics not reported for sample size less than 50 (N<50)

Table 6.17 shows the percentage of students achieving the basic, proficient, and advanced levels for the January, May and July administrations in 2006. Results show that 51.5% of students achieved the proficient or advanced standard on the English test.

Table 6.17. Percent of Students Performing in Each Performance Category

	2006
Basic	48.5
Proficient	34.1
Advanced	17.4

Decision Accuracy and Consistency

The accuracy of decisions based on specified cut scores was assessed for Reliability of Classification using a proprietary ETS computer program RELCLASS. RELCLASS provides two statistics that describe the reliability of classifications based on test scores (Livingston & Lewis, 1995). More specifically, information from an administration of one form is used to estimate decision accuracy and decision consistency as described in Chapter 4.

The results are provided in Table 6.18. The decision accuracy values are 0.81 and 0.83 for all classifications and 0.90 and 0.91 for the Proficient and Above classifications, for the January and May tests respectively. Therefore, the agreement between classifications based on an observable variable (scores on one form of a test) and classifications based on an unobservable variable (the test takers' true scores) was very good. The table shows that decision consistency values are 0.73 and 0.76 for all classifications and 0.87 and 0.90 for Proficient and Above for the January and May tests respectively. Since decision consistency statistics describe the agreement between classifications based on two variables (scores on the form students have taken and a parallel form of the same test that is not administered to the students), these values are within the acceptable range.

Table 6.18 Decision Accuracy and Consistency for the 2006 English Exam

	Placement Score	Advanced	Proficient	Basic	Category Total*
January, 2006					
Decision Accuracy	429 - 551	0.15	0.03	0.00	0.18
	396 - 428	0.06	0.25	0.03	0.35
	240 - 395	0.01	0.06	0.40	0.48
	Estimated Proportion Correctly Classified*: Total = 0.81; Proficient & Above = 0.90				
Decision Consistency	429 - 551	0.13	0.05	0.00	0.19
	396 - 428	0.08	0.22	0.055	0.35
	240 - 395	0.01	0.08	0.40	0.48
	Estimated Proportion Correctly Classified*: Total =0.74; Proficient & Above = 0.87				
May, 2006					
Decision Accuracy	429 - 650	0.23	0.03	0.00	0.25
	396 - 428	0.06	0.26	0.05	0.36
	240 - 395	0.00	0.05	0.34	0.39
	Estimated Proportion Correctly Classified*: Total = 0.83; Proficient & Above = 0.91				
Decision Consistency	429 - 650	0.21	0.04	0.00	0.25
	396 - 428	0.08	0.22	0.06	0.36
	240 - 395	0.00	0.06	0.32	0.39
	Estimated Proportion Correctly Classified*: Total =0.76; Proficient & Above = 0.88				

*Inconsistencies with category cell entries are due to rounding.

IRT Analyses

Test Characteristic Curves (TCC) and the Conditional Standard Error of Measurement (CSEM) plots were used to evaluate the extent to which the May 2006 forms were parallel. As illustrated in Figure 6.1, the TCCs of the 10 forms appeared very similar. For example, the raw scores associated with a scale score of 410 for target Form K was 41.24, whereas it was 38.94 for Form L, the most difficult form. All forms are within an acceptable range of the target form for the full range of scale score values. Figure 6.2 illustrates the CSEM plotted against scale score. The CSEMs were lowest for the scale score range of 350 to 450.

Figure 6.1 Test Characteristic Curves for 2006 English Forms

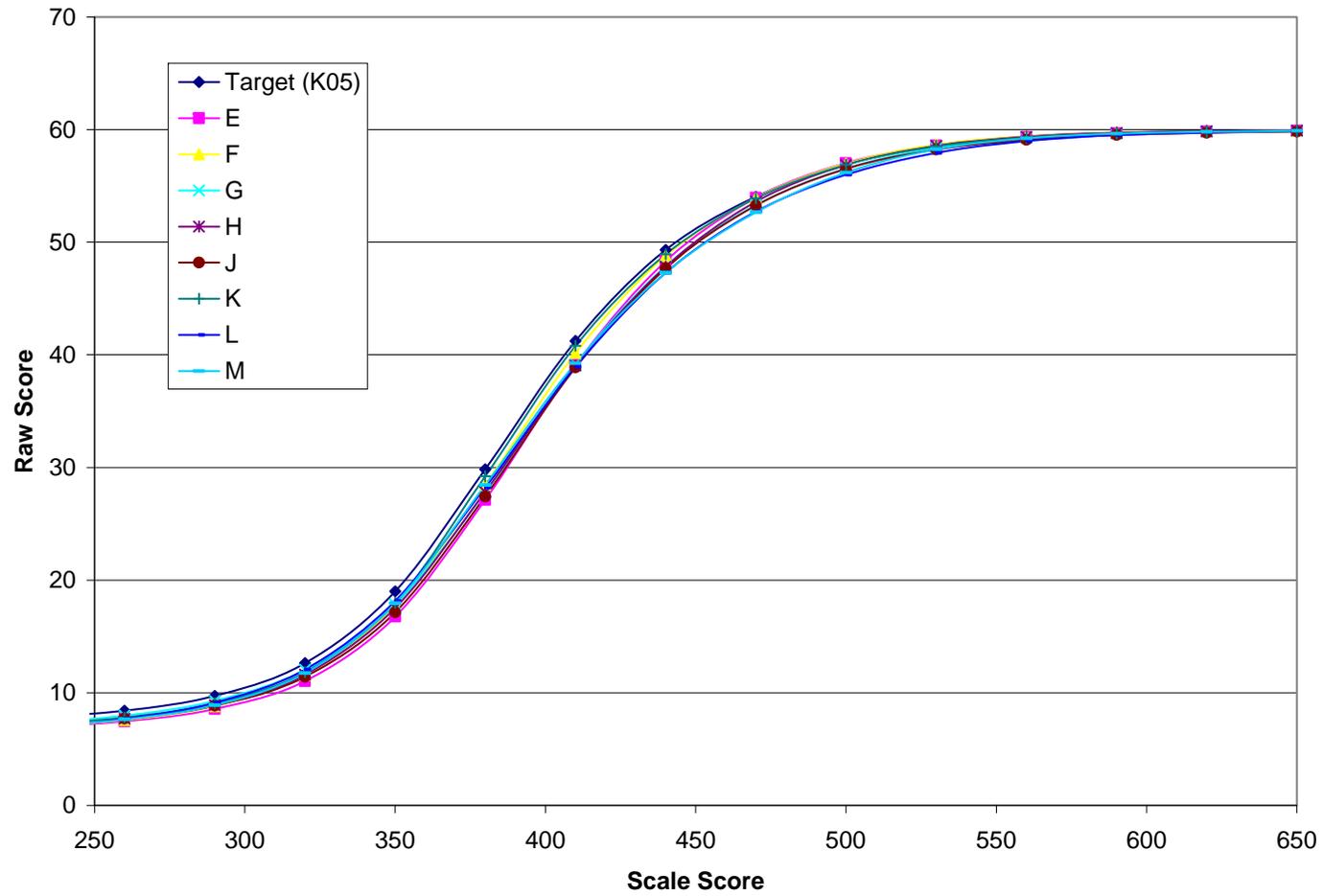
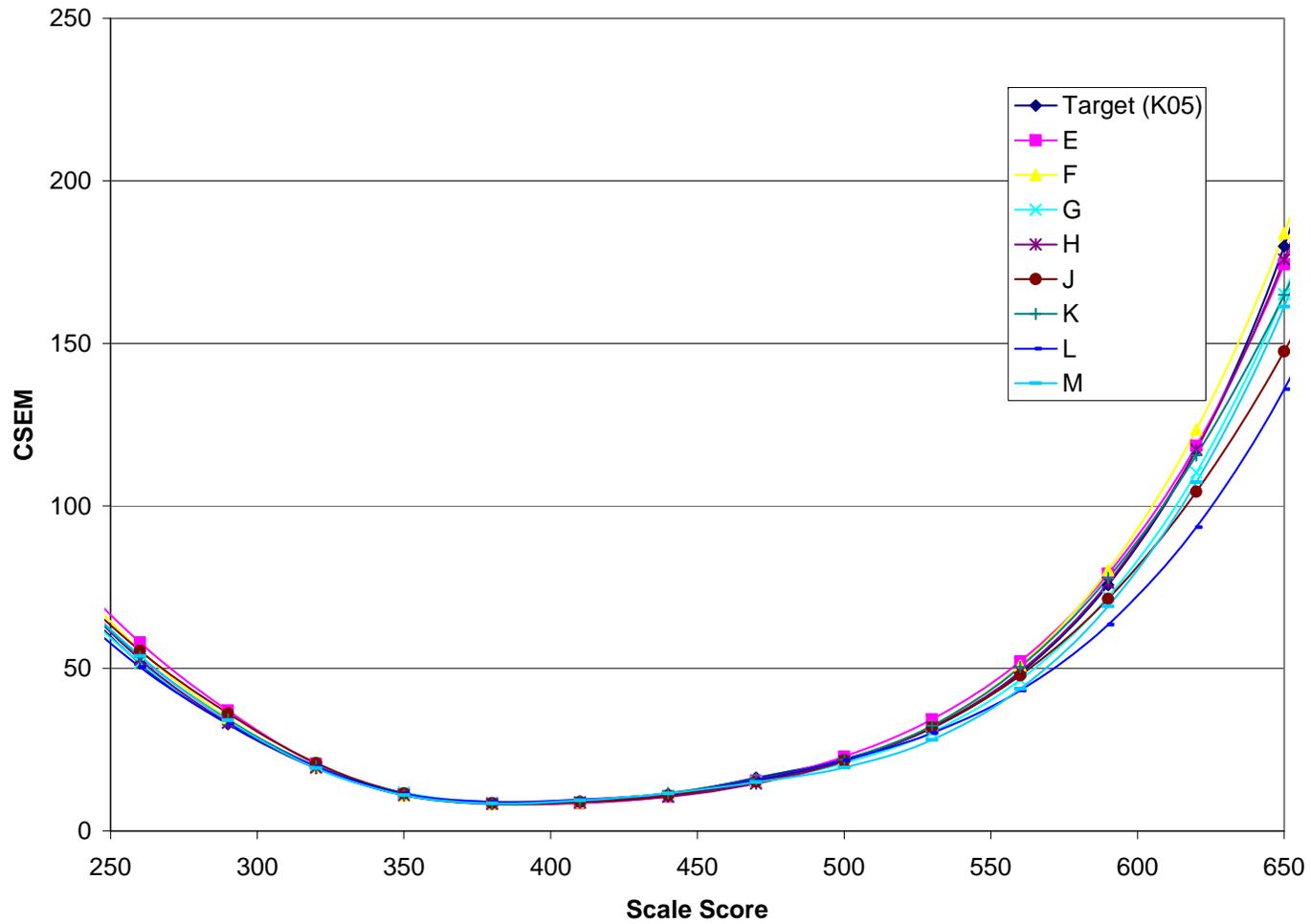


Figure 6.2 Conditional Standard Error of Measurement for the 2006 English Forms



Factor Analysis

Exploratory factor analyses with principal axis factoring were used to investigate the dimensionality of the 10 May 2006 English forms. All students taking a particular form were used for the analyses. Given the ordinal nature of the item scores, matrices consisting of tetrachoric and polychoric correlations were produced for each form using PRELIS (Joreskog & Sorbom, 1993) and then analyzed using SPSS.

The factor analyses results of the 10 primary forms indicated that one dominant factor underlay the May 2006 test forms. Table 6.19 includes the eigenvalues and percent of variance for all factors with eigenvalues greater than one. In each case, there was one dominant eigenvalue that accounted for 29 to 38 percent of the total variance. The remaining factors accounted for considerably smaller percent of the variance. The scree plots for each form, which graphically present eigenvalues for factors 1 through 50, can be found in Appendix A.

Table 6.19 Factor Analysis Results by Form

Form	Factor 1		Factor 2		Factor 3		Factor 4		Factor 5		Factor 6		Factor 7		Factor 8		Factor 9	
	Eigen-value	% Var	Eigen-value	% Var	Eigen-value	% Var	Eigen-value	% Var	Eigen-value	% Var	Eigen-value	% Var	Eigen-value	% Var	Eigen-value	% Var	Eigen-value	% Var
E	18.39	37.79	1.69	3.39	1.47	2.95	1.23	2.48	1.15	2.30								
F	16.68	33.72	1.72	3.44	1.47	2.94	1.24	2.48	1.13	2.26	1.04	2.08	1.02	2.04				
G	16.85	33.70	1.74	3.48	1.45	2.89	1.28	2.55	1.12	2.23	1.05	2.09	1.01	2.01				
H	16.82	33.63	1.77	3.55	1.46	2.93	1.32	2.63	1.23	2.45	1.04	2.09						
J	16.37	32.74	1.66	3.32	1.50	3.00	1.28	2.56	1.12	2.25	1.05	2.10	1.03	2.07				
K	15.98	31.95	1.68	3.53	1.50	3.00	1.32	2.65	1.29	2.58	1.15	2.29	1.02	2.05	1.00	2.01		
L	14.67	29.34	1.81	3.62	1.42	2.86	1.32	2.63	1.15	2.30	1.08	2.16	1.06	2.12	1.04	2.08		
M	16.33	32.66	1.75	3.50	1.54	3.09	1.23	2.45	1.15	2.29	1.07	2.15	1.05	2.10				
N	17.08	34.15	1.68	3.36	1.44	2.88	1.27	2.55	1.06	2.13	1.02	2.05						
P	15.69	31.38	1.63	3.26	1.49	2.98	1.33	2.67	1.17	2.33	1.15	2.30	1.07	2.13	1.03	2.07	1.01	2.02

References

- American Educational Research Association, American Psychological Association, and National Council on Measurement in Education (1999). *Standards for educational and psychological testing*. Washington, DC: American Educational Research Association.
- Cronbach, L. J. (1951). Coefficient alpha and the internal structure of tests. *Psychometrika*, *16*, 292-334.
- CTB/McGraw-Hill (2003, December). Maryland High School Assessment Program: 2003 Technical Report. Monterey, CA: CTB/McGraw-Hill.
- ETS (2002). *ETS standards for quality and fairness*. Educational Testing Service: Princeton, NJ.
- Feldt, L. S., & Brennan, R. L. (1989). Reliability. In R. L. Linn (Ed.), *Educational measurement* (3rd ed., pp. 105-146). New York: Macmillan.
- Fitzpatrick, A. R., Link, V., Yen, W. M., Burket, G., Ito, K., & Sykes, R. (1996). Scaling performance assessments: A comparison between one-parameter and two-parameter partial credit models. *Journal of Educational Measurement*, *33*, 291-314.
- Holland, P. W., & Thayer, D. T. (1988). Differential item performance and the Mantel-Haenszel procedure. In H. Wainer & H. I. Braun (Eds.), *Test validity* (pp. 129-145). Hillsdale, NJ: Lawrence Erlbaum.
- Joreskog, K. G., & Sorbom, D. (1993). PRELIS (Version 2.52) [Computer software]. Chicago: Scientific Software International.
- Kolen, M. J. & Brennan, R. L. (1995). *Test equating: Methods and practices*. New York: Springer-Verlag.
- Livingston, S. A., and Lewis, C. (1995). Estimating the Consistency and Accuracy of Classification Based on Test Scores. *Journal of Educational Measurement*, *32*, 179-197.
- Muraki, E. (1992). A generalized partial credit model: Application of an EM algorithm. *Applied Psychological Measurement*, *16*(2), 159-176.
- Muraki, E., & Bock, D. (1995). Proprietary version of PARSCALE [Computer software]. Chicago: Scientific Software International.
- Stocking, M. L. & Lord, F. (1983). Developing a common metric in item response theory. *Applied Psychological Measurement*, *7*, 201-210.
- Yen, W. M. (1984). Obtaining maximum likelihood trait estimates from number-correct scores for the three-parameter logistic model. *Journal of Educational Measurement*, *21*, 93-111.

Appendix A: Scree Plots of Factor Analysis Results for the May 2006 English Forms

Figure 6.3 Form E Scree Plot

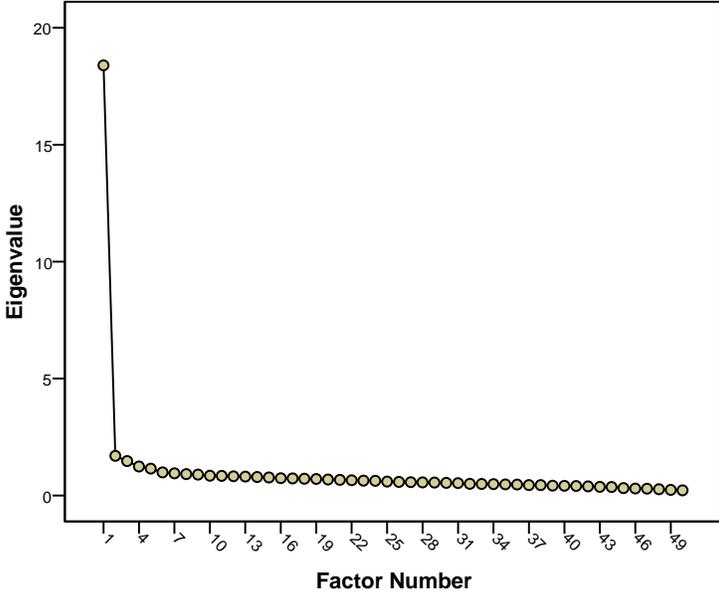


Figure 6.4 Form F Scree Plot

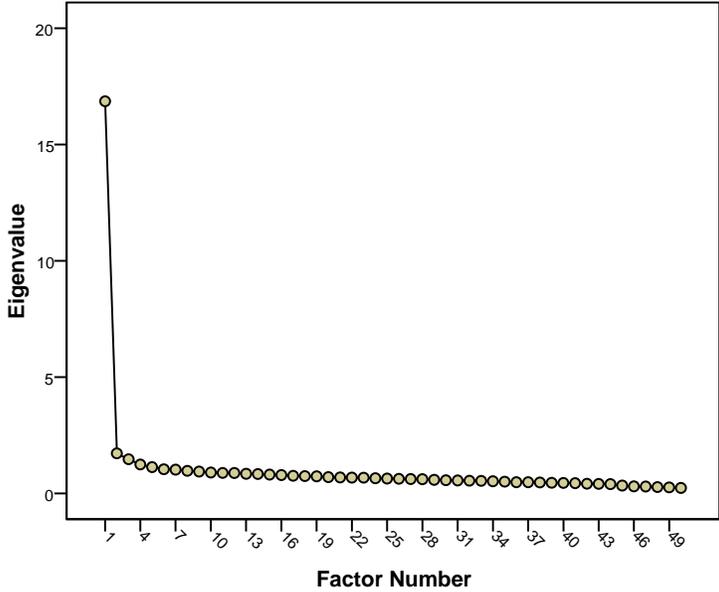


Figure 6.5 Form G Scree Plot

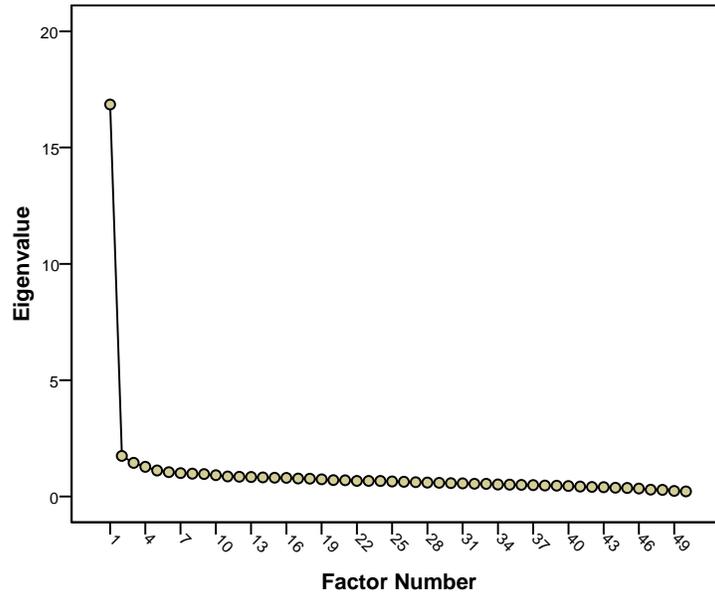


Figure 6.6 Form H Scree Plot

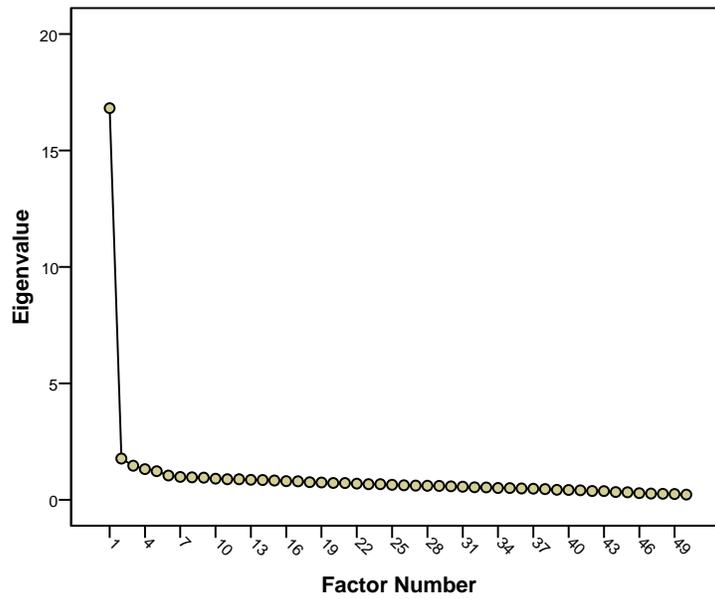


Figure 6.7 Form J Scree Plot

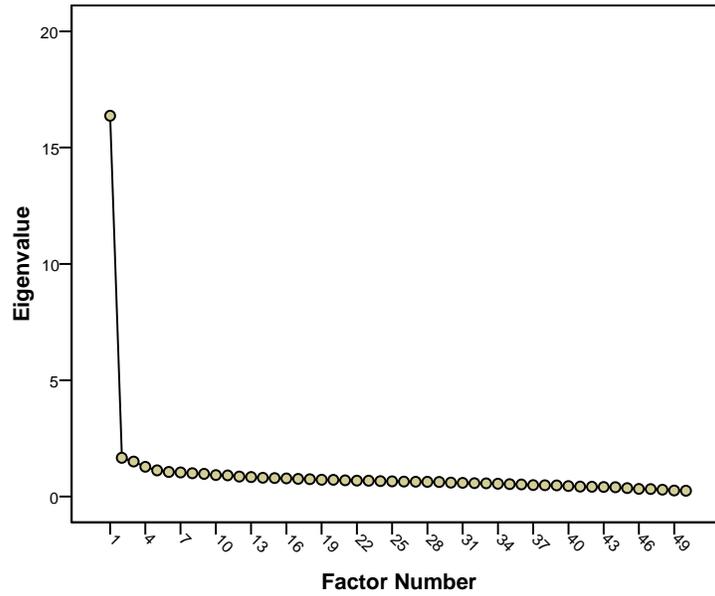


Figure 6.8 Form K Scree Plot

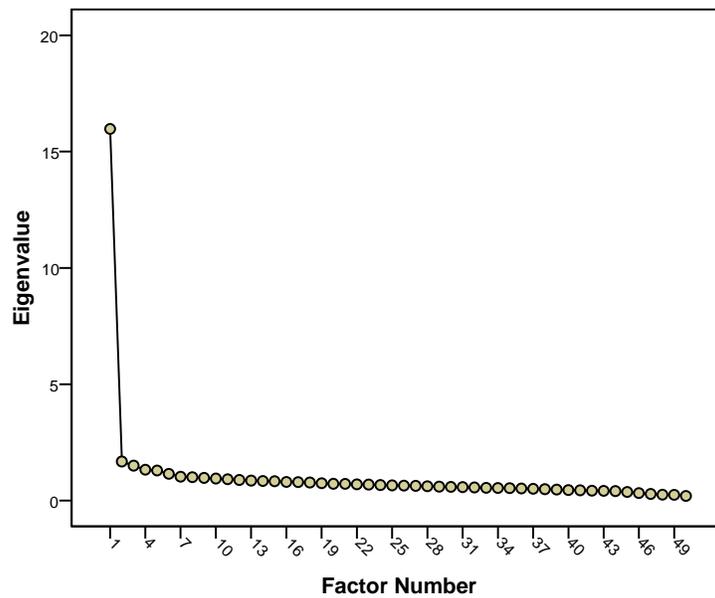


Figure 6.9 Form L Scree Plot

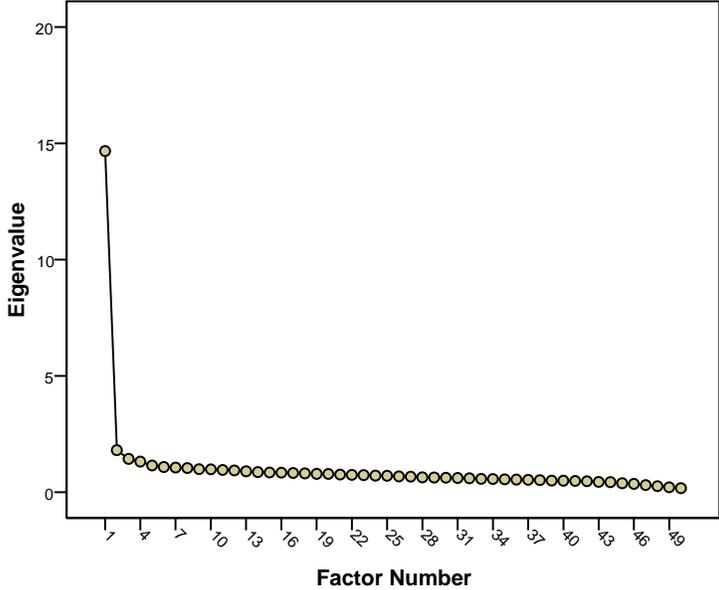


Figure 6.10 Form M Scree Plot

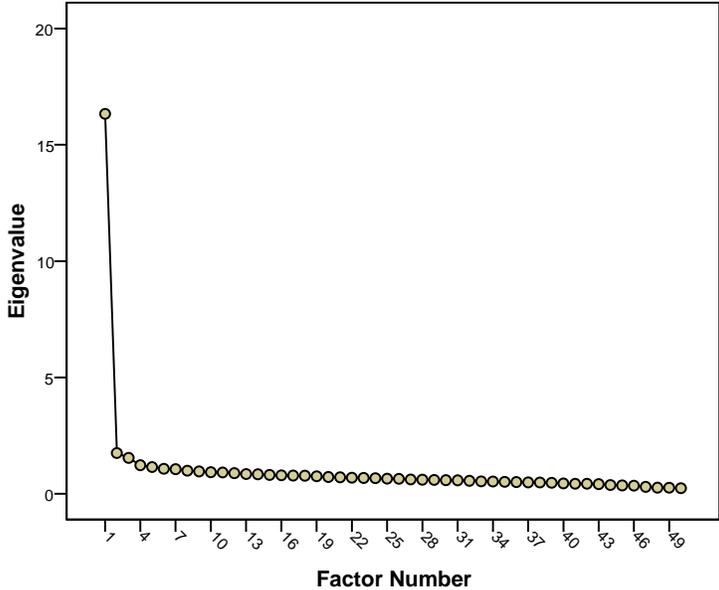


Figure 6.11 Form N Scree Plot

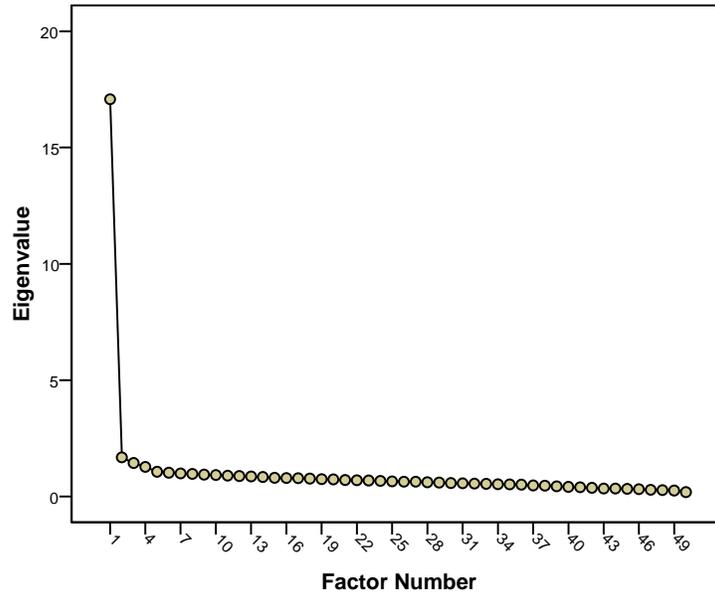
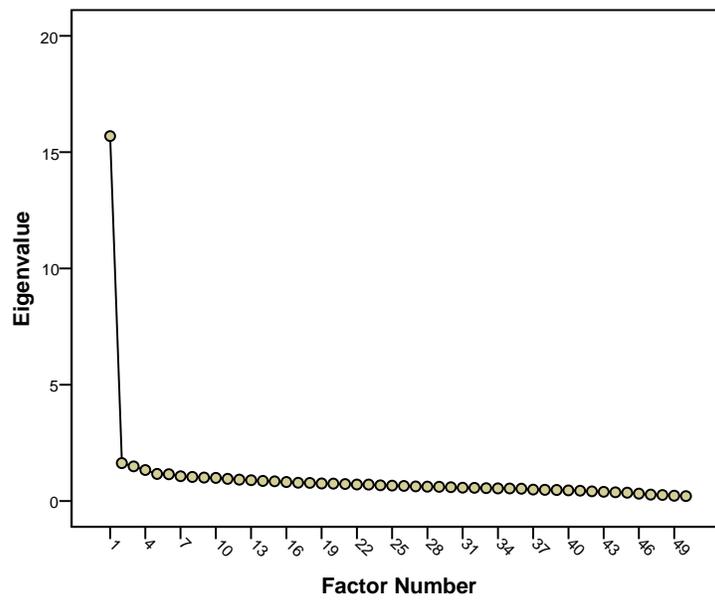


Figure 6.12 Form P Scree Plot



Appendix B. Classical Item Statistics

Table A1. Summary Item Statistics - Operational Items
Algebra - January Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
AB	1	L	56636	M	0.85	0.43	-0.24	-0.28	0.43	-0.15
	2	L	52338	M	0.81	0.43	-0.16	-0.35	0.43	-0.14
	4	O	51450	M	0.54	0.37	-0.16	-0.26	0.37	-0.15
	5	L	67547	M	0.54	0.54	-0.32	-0.23	-0.23	0.54
	6	O	56745	J	0.49	0.73				
	7	L	54861	M	0.34	0.35	-0.21	-0.01	-0.19	0.35
	8	L	67515	M	0.56	0.42	-0.28	0.42	-0.15	-0.16
	9	L	54795	M	0.64	0.46	0.46	-0.24	-0.24	-0.20
	10	L	54619	M	0.80	0.46	-0.20	-0.27	-0.26	0.46
	11	O	56672	M	0.69	0.38	-0.13	-0.22	-0.23	0.38
	13	O	56666	G	0.59	0.63	0.63	-0.56		
	14	L	64691	G	0.66	0.60	0.60	-0.52		
	16	O	54788	G	0.53	0.57	0.57	-0.45		
	17	L	67462	J	0.16	0.66				
	19	L	51549	M	0.47	0.25	-0.14	-0.08	0.25	-0.06
	20	L	51402	M	0.67	0.42	-0.19	0.42	-0.18	-0.19
	21	O	67446	J	0.38	0.82				
	23	O	56774	M	0.46	0.33	-0.13	-0.12	0.33	-0.07
	24	L	54848	M	0.36	0.43	-0.19	-0.06	-0.13	0.43
	25	O	51401	M	0.83	0.45	-0.21	-0.28	-0.23	0.45
	26	L	56648	M	0.66	0.42	-0.23	-0.23	0.42	-0.18
	27	L	51486	M	0.60	0.22	-0.03	0.22	-0.23	-0.20
	29	O	56597	M	0.57	0.52	0.52	-0.30	-0.24	-0.19
	31	L	54815	M	0.64	0.30	0.30	-0.16	-0.20	-0.16
	33	L	51358	M	0.40	0.44	-0.18	-0.13	-0.22	0.44
	35	O	54810	M	0.64	0.54	-0.27	0.54	-0.23	-0.27
	36	L	50391	J	0.39	0.79				
	37	L	54566	G	0.39	0.52	0.52	-0.40		
	39	O	67496	G	0.61	0.59	0.59	-0.47		
	40	L	67420	G	0.34	0.55	0.55	-0.31		
	41	L	54903	J	0.44	0.74				
	42	O	51542	M	0.52	0.55	0.55	-0.25	-0.31	-0.22
	43	O	67444	M	0.68	0.55	0.55	-0.28	-0.28	-0.21
	44	L	64700	M	0.78	0.52	-0.26	-0.25	-0.24	0.52
	45	L	67533	J	0.29	0.85				
	46	O	43150	M	0.60	0.41	-0.13	0.41	-0.26	-0.22
	47	L	67488	M	0.75	0.49	-0.27	-0.28	0.49	-0.15
	48	O	56770	M	0.56	0.62	-0.35	-0.23	-0.25	0.62

Table A2. Summary Item Statistics - Operational Items

Algebra - January Make-Up1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
C	1	L	56636	M	0.85	0.43	-0.24	-0.28	0.43	-0.15
	2	L	52338	M	0.81	0.43	-0.16	-0.35	0.43	-0.14
	4	O	51482	M	0.51	0.38	0.38	-0.21	-0.14	-0.16
	5	L	67547	M	0.54	0.54	-0.32	-0.23	-0.23	0.54
	6	O	54808	J	0.40	0.69				
	7	L	54861	M	0.34	0.35	-0.21	-0.01	-0.19	0.35
	8	L	67515	M	0.56	0.42	-0.28	0.42	-0.15	-0.16
	9	L	54795	M	0.64	0.46	0.46	-0.24	-0.24	-0.20
	10	L	54619	M	0.80	0.46	-0.20	-0.27	-0.26	0.46
	11	O	56672	M	0.69	0.38	-0.13	-0.22	-0.23	0.38
	13	O	51523	G	0.39	0.58	0.58	-0.46		
	14	L	64691	G	0.66	0.60	0.60	-0.52		
	16	O	54788	G	0.53	0.57	0.57	-0.45		
	17	L	67462	J	0.16	0.66				
	19	L	51549	M	0.47	0.25	-0.14	-0.08	0.25	-0.06
	20	L	51402	M	0.67	0.42	-0.19	0.42	-0.18	-0.19
	21	O	67446	J	0.38	0.82				
	23	O	54763	M	0.25	0.23	-0.05	-0.15	0.06	0.23
	24	L	54848	M	0.36	0.43	-0.19	-0.06	-0.13	0.43
	25	O	51401	M	0.83	0.45	-0.21	-0.28	-0.23	0.45
	26	L	56648	M	0.66	0.42	-0.23	-0.23	0.42	-0.18
	27	L	51486	M	0.60	0.22	-0.03	0.22	-0.23	-0.20
	29	O	56597	M	0.57	0.52	0.52	-0.30	-0.24	-0.19
	31	L	54815	M	0.64	0.30	0.30	-0.16	-0.20	-0.16
	33	L	51358	M	0.40	0.44	-0.18	-0.13	-0.22	0.44
	35	O	56440	M	0.49	0.36	-0.17	0.36	-0.26	-0.08
	36	L	50391	J	0.39	0.79				
	37	L	54566	G	0.39	0.52	0.52	-0.40		
	39	O	67496	G	0.61	0.59	0.59	-0.47		
	40	L	67420	G	0.34	0.55	0.55	-0.31		
	41	L	54903	J	0.44	0.74				
	42	O	56685	M	0.63	0.49	-0.16	-0.27	-0.19	0.49
	43	O	51497	M	0.49	0.46	0.46	-0.19	-0.24	-0.10
	44	L	64700	M	0.78	0.52	-0.26	-0.25	-0.24	0.52
	45	L	67533	J	0.29	0.85				
	46	O	43150	M	0.60	0.41	-0.13	0.41	-0.26	-0.22
	47	L	67488	M	0.75	0.49	-0.27	-0.28	0.49	-0.15
	48	O	56770	M	0.56	0.62	-0.35	-0.23	-0.25	0.62

Table A3. Summary Item Statistics - Operational Items
Algebra - January Make-Up2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
D	1	L	56636	M	0.85	0.43	-0.24	-0.28	0.43	-0.15
	2	L	52338	M	0.81	0.43	-0.16	-0.35	0.43	-0.14
	4	O	51450	M	0.54	0.37	-0.16	-0.26	0.37	-0.15
	5	L	67547	M	0.54	0.54	-0.32	-0.23	-0.23	0.54
	6	O	56745	J	0.49	0.73				
	7	L	54861	M	0.34	0.35	-0.21	-0.01	-0.19	0.35
	8	L	67515	M	0.56	0.42	-0.28	0.42	-0.15	-0.16
	9	L	54795	M	0.64	0.46	0.46	-0.24	-0.24	-0.20
	10	L	54619	M	0.80	0.46	-0.20	-0.27	-0.26	0.46
	11	O	56736	M	0.49	0.40	-0.23	-0.13	0.40	-0.20
	13	O	56666	G	0.59	0.63	0.63	-0.56		
	14	L	64691	G	0.66	0.60	0.60	-0.52		
	16	O	54741	G	0.29	0.51	0.51	-0.31		
	17	L	67462	J	0.16	0.66				
	19	L	51549	M	0.47	0.25	-0.14	-0.08	0.25	-0.06
	20	L	51402	M	0.67	0.42	-0.19	0.42	-0.18	-0.19
	21	O	67524	J	0.13	0.69				
	23	O	56774	M	0.46	0.33	-0.13	-0.12	0.33	-0.07
	24	L	54848	M	0.36	0.43	-0.19	-0.06	-0.13	0.43
	25	O	54677	M	0.67	0.39	-0.22	-0.23	0.39	-0.11
	26	L	56648	M	0.66	0.42	-0.23	-0.23	0.42	-0.18
	27	L	51486	M	0.60	0.22	-0.03	0.22	-0.23	-0.20
	29	O	54811	M	0.42	0.44	0.44	-0.17	-0.21	-0.16
	31	L	54815	M	0.64	0.30	0.30	-0.16	-0.20	-0.16
	33	L	51358	M	0.40	0.44	-0.18	-0.13	-0.22	0.44
	35	O	54810	M	0.64	0.54	-0.27	0.54	-0.23	-0.27
	36	L	50391	J	0.39	0.79				
	37	L	54566	G	0.39	0.52	0.52	-0.40		
	39	O	67526	G	0.50	0.49	0.49	-0.35		
	40	L	67420	G	0.34	0.55	0.55	-0.31		
	41	L	54903	J	0.44	0.74				
	42	O	51542	M	0.52	0.55	0.55	-0.25	-0.31	-0.22
	43	O	67444	M	0.68	0.55	0.55	-0.28	-0.28	-0.21
	44	L	64700	M	0.78	0.52	-0.26	-0.25	-0.24	0.52
	45	L	67533	J	0.29	0.85				
	46	O	64685	M	0.42	0.45	-0.12	0.45	-0.26	-0.18
	47	L	67488	M	0.75	0.49	-0.27	-0.28	0.49	-0.15
	48	O	51534	M	0.39	0.39	-0.08	-0.16	-0.20	0.39

Table A4. Summary Item Statistics - Operational Items
Biology - January Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
AB	1	O	68107	M	0.85	0.42	-0.24	0.42	-0.26	-0.19
	2	O	52482	M	0.67	0.36	-0.17	-0.25	-0.21	0.36
	3	O	68139	M	0.71	0.35	-0.12	-0.26	0.35	-0.13
	4	O	65046	M	0.53	0.46	-0.11	-0.34	-0.21	0.46
	5	L	55080	J	0.29	0.77				
	6	O	67600	M	0.81	0.40	-0.25	0.40	-0.20	-0.18
	7	O	67601	M	0.84	0.33	-0.13	-0.17	-0.22	0.33
	10	O	60524	M	0.58	0.40	-0.18	-0.22	0.40	-0.16
	11	O	53725	M	0.61	0.43	0.43	-0.17	-0.18	-0.28
	12	O	53713	M	0.50	0.42	-0.28	0.42	-0.12	-0.21
	14	O	55128	M	0.68	0.52	-0.21	0.52	-0.26	-0.30
	15	O	57004	M	0.74	0.52	-0.27	-0.31	0.52	-0.20
	16	O	57005	M	0.67	0.53	-0.30	-0.26	0.53	-0.24
	17	O	57096	M	0.48	0.41	-0.13	0.41	-0.16	-0.23
	18	L	52751	J	0.21	0.80				
	19	O	57057	M	0.71	0.41	-0.26	-0.20	0.41	-0.18
	20	O	52431	M	0.49	0.49	-0.23	0.49	-0.23	-0.23
	21	O	52519	M	0.70	0.46	-0.24	-0.28	0.46	-0.18
	22	O	55186	M	0.49	0.34	-0.15	-0.10	0.34	-0.23
	23	O	57119	M	0.47	0.47	-0.23	-0.25	-0.14	0.47
	24	O	57118	M	0.75	0.51	-0.29	-0.31	-0.19	0.51
	25	L	67609	J	0.26	0.81				
	29	O	67629	M	0.56	0.47	0.47	-0.18	-0.26	-0.20
	30	O	67628	M	0.43	0.30	-0.18	0.30	-0.14	-0.04
	31	O	68278	M	0.49	0.51	-0.22	-0.22	-0.23	0.51
	32	L	67561	J	0.27	0.76				
	35	O	52574	M	0.45	0.43	-0.30	-0.14	0.43	-0.07
	36	O	52569	M	0.55	0.51	-0.19	-0.22	0.51	-0.29
	37	O	52478	M	0.47	0.33	-0.17	-0.11	-0.14	0.33
	38	O	67595	M	0.40	0.30	0.30	-0.11	-0.23	-0.02
	39	O	67643	M	0.46	0.36	-0.15	0.36	-0.24	-0.05
	40	O	67644	M	0.34	0.22	0.22	-0.15	-0.16	0.04
	41	L	65957	J	0.27	0.78				
	42	O	60549	M	0.64	0.33	-0.13	0.33	-0.25	-0.20
	43	O	64736	M	0.71	0.55	0.55	-0.31	-0.31	-0.18
	44	O	52500	M	0.59	0.34	-0.16	-0.20	0.34	-0.11
	47	O	55095	M	0.71	0.48	0.48	-0.29	-0.22	-0.23
	48	O	55094	M	0.66	0.51	-0.27	-0.27	-0.23	0.51
	49	O	55093	M	0.83	0.53	-0.27	-0.27	-0.29	0.53
	50	L	65112	J	0.33	0.83				
	52	O	55079	M	0.57	0.50	-0.24	-0.25	0.50	-0.18

Table A4. Summary Item Statistics - Operational Items (Continued)
 Biology - January Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
AB	53	O	52732	M	0.37	0.32	0.32	-0.15	-0.10	-0.12
	54	O	55157	M	0.52	0.43	-0.23	-0.19	-0.15	0.43
	55	O	56936	M	0.29	0.19	0.19	0.18	-0.25	-0.24
	56	O	56937	M	0.54	0.50	0.50	-0.27	-0.16	-0.28
	60	O	60530	M	0.67	0.53	-0.18	-0.30	-0.28	0.53
	61	O	67698	M	0.46	0.39	0.39	-0.31	-0.22	0.01
	62	O	67697	M	0.62	0.39	-0.26	-0.11	-0.18	0.39
	63	O	67700	M	0.32	0.25	0.03	-0.10	-0.25	0.25
	64	O	65050	M	0.61	0.50	-0.23	-0.28	0.50	-0.18
	65	O	55015	M	0.39	0.33	-0.15	-0.28	0.33	-0.03
	66	L	68126	J	0.19	0.79				
	69	O	57154	M	0.35	0.28	-0.17	-0.18	0.06	0.28
	70	O	57155	M	0.59	0.58	0.58	-0.26	-0.27	-0.25
	71	O	65090	M	0.53	0.46	-0.20	-0.23	-0.17	0.46

Table A5. Summary Item Statistics - Operational Items
Biology - January Make-Up1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
C	1	O	52734	M	0.49	0.35	0.35	-0.23	-0.15	-0.13
	2	O	68253	M	0.48	0.44	-0.25	-0.10	-0.26	0.44
	3	O	65139	M	0.41	0.37	-0.08	-0.23	0.37	-0.18
	4	O	65046	M	0.53	0.46	-0.11	-0.34	-0.21	0.46
	5	L	55080	J	0.29	0.77				
	6	O	67600	M	0.81	0.40	-0.25	0.40	-0.20	-0.18
	7	O	67601	M	0.84	0.33	-0.13	-0.17	-0.22	0.33
	10	O	60524	M	0.58	0.40	-0.18	-0.22	0.40	-0.16
	11	O	53725	M	0.61	0.43	0.43	-0.17	-0.18	-0.28
	12	O	53713	M	0.50	0.42	-0.28	0.42	-0.12	-0.21
	14	O	55088	M	0.48	0.39	-0.20	-0.19	0.39	-0.11
	15	O	57004	M	0.74	0.52	-0.27	-0.31	0.52	-0.20
	16	O	57005	M	0.67	0.53	-0.30	-0.26	0.53	-0.24
	17	O	57096	M	0.48	0.41	-0.13	0.41	-0.16	-0.23
	18	L	52751	J	0.21	0.80				
	19	O	52608	M	0.45	0.39	-0.19	-0.20	0.39	-0.03
	20	O	52431	M	0.49	0.49	-0.23	0.49	-0.23	-0.23
	21	O	52519	M	0.70	0.46	-0.24	-0.28	0.46	-0.18
	22	O	55186	M	0.49	0.34	-0.15	-0.10	0.34	-0.23
	23	O	57119	M	0.47	0.47	-0.23	-0.25	-0.14	0.47
	24	O	57118	M	0.75	0.51	-0.29	-0.31	-0.19	0.51
	25	L	67609	J	0.26	0.81				
	29	O	67629	M	0.56	0.47	0.47	-0.18	-0.26	-0.20
	30	O	67628	M	0.43	0.30	-0.18	0.30	-0.14	-0.04
	31	O	65151	M	0.22	0.28	0.08	-0.14	-0.19	0.28
	32	L	67561	J	0.27	0.76				
	35	O	52574	M	0.45	0.43	-0.30	-0.14	0.43	-0.07
	36	O	55128	M	0.68	0.52	-0.21	0.52	-0.26	-0.30
	37	O	67660	M	0.53	0.48	-0.23	-0.20	-0.19	0.48
	38	O	67595	M	0.40	0.30	0.30	-0.11	-0.23	-0.02
	39	O	67643	M	0.46	0.36	-0.15	0.36	-0.24	-0.05
	40	O	67644	M	0.34	0.22	0.22	-0.15	-0.16	0.04
	41	L	65957	J	0.27	0.78				
	42	O	60549	M	0.64	0.33	-0.13	0.33	-0.25	-0.20
	43	O	64736	M	0.71	0.55	0.55	-0.31	-0.31	-0.18
	44	O	52500	M	0.59	0.34	-0.16	-0.20	0.34	-0.11
	47	O	55095	M	0.71	0.48	0.48	-0.29	-0.22	-0.23
	48	O	55094	M	0.66	0.51	-0.27	-0.27	-0.23	0.51
	49	O	55093	M	0.83	0.53	-0.27	-0.27	-0.29	0.53
	50	L	65112	J	0.33	0.83				
	52	O	65080	M	0.30	0.41	-0.14	-0.14	-0.11	0.41

Table A5. Summary Item Statistics - Operational Items (Continued)

Biology - January Make-Up1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
C	53	O	52600	M	0.43	0.44	0.44	-0.19	-0.19	-0.15
	54	O	55157	M	0.52	0.43	-0.23	-0.19	-0.15	0.43
	55	O	56936	M	0.29	0.19	0.19	0.18	-0.25	-0.24
	56	O	56937	M	0.54	0.50	0.50	-0.27	-0.16	-0.28
	60	O	53487	M	0.43	0.57	-0.23	-0.24	-0.17	0.57
	61	O	67698	M	0.46	0.39	0.39	-0.31	-0.22	0.01
	62	O	67697	M	0.62	0.39	-0.26	-0.11	-0.18	0.39
	63	O	67700	M	0.32	0.25	0.03	-0.10	-0.25	0.25
	64	O	52598	M	0.34	0.28	0.03	-0.18	-0.10	0.28
	65	O	55015	M	0.39	0.33	-0.15	-0.28	0.33	-0.03
	66	L	68126	J	0.19	0.79				
	69	O	57154	M	0.35	0.28	-0.17	-0.18	0.06	0.28
	70	O	57155	M	0.59	0.58	0.58	-0.26	-0.27	-0.25
	71	O	65090	M	0.53	0.46	-0.20	-0.23	-0.17	0.46

Table A6. Summary Item Statistics - Operational Items
Biology - January Make-Up2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
D	1	O	68107	M	0.85	0.42	-0.24	0.42	-0.26	-0.19
	2	O	52482	M	0.67	0.36	-0.17	-0.25	-0.21	0.36
	3	O	68139	M	0.71	0.35	-0.12	-0.26	0.35	-0.13
	4	O	65046	M	0.53	0.46	-0.11	-0.34	-0.21	0.46
	5	L	55080	J	0.29	0.77				
	6	O	67600	M	0.81	0.40	-0.25	0.40	-0.20	-0.18
	7	O	67601	M	0.84	0.33	-0.13	-0.17	-0.22	0.33
	10	O	64728	M	0.52	0.49	0.49	-0.28	-0.21	-0.16
	11	O	53725	M	0.61	0.43	0.43	-0.17	-0.18	-0.28
	12	O	53713	M	0.50	0.42	-0.28	0.42	-0.12	-0.21
	14	O	52569	M	0.55	0.51	-0.19	-0.22	0.51	-0.29
	15	O	57004	M	0.74	0.52	-0.27	-0.31	0.52	-0.20
	16	O	57005	M	0.67	0.53	-0.30	-0.26	0.53	-0.24
	17	O	57070	M	0.33	0.44	-0.24	-0.24	0.03	0.44
	18	L	52751	J	0.21	0.80				
	19	O	57057	M	0.71	0.41	-0.26	-0.20	0.41	-0.18
	20	O	52431	M	0.49	0.49	-0.23	0.49	-0.23	-0.23
	21	O	52519	M	0.70	0.46	-0.24	-0.28	0.46	-0.18
	22	O	56976	M	0.40	0.17	-0.07	0.17	-0.10	0.02
	23	O	57119	M	0.47	0.47	-0.23	-0.25	-0.14	0.47
	24	O	57118	M	0.75	0.51	-0.29	-0.31	-0.19	0.51
	25	L	67609	J	0.26	0.81				
	29	O	67629	M	0.56	0.47	0.47	-0.18	-0.26	-0.20
	30	O	67628	M	0.43	0.30	-0.18	0.30	-0.14	-0.04
	31	O	68278	M	0.49	0.51	-0.22	-0.22	-0.23	0.51
	32	L	67561	J	0.27	0.76				
	35	O	68209	M	0.36	0.43	0.43	-0.18	-0.19	-0.18
	36	O	55253	M	0.26	0.32	0.32	-0.14	-0.17	-0.05
	37	O	52478	M	0.47	0.33	-0.17	-0.11	-0.14	0.33
	38	O	57039	M	0.45	0.30	-0.18	0.30	-0.18	0.03
	39	O	67643	M	0.46	0.36	-0.15	0.36	-0.24	-0.05
	40	O	67644	M	0.34	0.22	0.22	-0.15	-0.16	0.04
	41	L	65957	J	0.27	0.78				
	42	O	52419	M	0.29	0.19	0.19	-0.18	-0.12	0.13
	43	O	65141	M	0.37	0.22	-0.04	-0.15	0.22	0.00
	44	O	52500	M	0.59	0.34	-0.16	-0.20	0.34	-0.11
	47	O	55095	M	0.71	0.48	0.48	-0.29	-0.22	-0.23
	48	O	55094	M	0.66	0.51	-0.27	-0.27	-0.23	0.51
	49	O	55093	M	0.83	0.53	-0.27	-0.27	-0.29	0.53
	50	L	65112	J	0.33	0.83				
	52	O	55079	M	0.57	0.50	-0.24	-0.25	0.50	-0.18

Table A6. Summary Item Statistics - Operational Items (Continued)
 Biology - January Make-Up2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
D	53	O	52732	M	0.37	0.32	0.32	-0.15	-0.10	-0.12
	54	O	54982	M	0.36	0.17	-0.17	0.17	-0.01	0.01
	55	O	56936	M	0.29	0.19	0.19	0.18	-0.25	-0.24
	56	O	56937	M	0.54	0.50	0.50	-0.27	-0.16	-0.28
	60	O	60530	M	0.67	0.53	-0.18	-0.30	-0.28	0.53
	61	O	67698	M	0.46	0.39	0.39	-0.31	-0.22	0.01
	62	O	67697	M	0.62	0.39	-0.26	-0.11	-0.18	0.39
	63	O	67700	M	0.32	0.25	0.03	-0.10	-0.25	0.25
	64	O	65050	M	0.61	0.50	-0.23	-0.28	0.50	-0.18
	65	O	52694	M	0.26	0.40	-0.14	-0.06	0.40	-0.18
	66	L	68126	J	0.19	0.79				
	69	O	57154	M	0.35	0.28	-0.17	-0.18	0.06	0.28
	70	O	57155	M	0.59	0.58	0.58	-0.26	-0.27	-0.25
	71	O	65146	M	0.35	0.35	-0.09	-0.18	0.35	-0.04

Table A7. Summary Item Statistics - Operational Items
English - January Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
A	1	O	95621	J	0.64	0.58				
	2	O	95622	M	0.55	0.42	-0.14	-0.22	-0.23	0.42
	3	O	95623	M	0.66	0.44	-0.21	-0.22	0.44	-0.28
	4	O	95624	M	0.52	0.25	-0.18	-0.14	-0.11	0.25
	5	O	95625	M	0.60	0.48	-0.20	-0.25	0.48	-0.25
	6	O	95626	M	0.48	0.22	-0.17	-0.06	-0.07	0.22
	10	O	95630	M	0.58	0.36	0.36	-0.28	-0.07	-0.17
	11	O	95631	M	0.79	0.41	-0.20	0.41	-0.22	-0.23
	13	O	95633	M	0.60	0.33	-0.20	-0.24	-0.09	0.33
	14	O	95634	M	0.71	0.48	-0.27	-0.29	0.48	-0.18
	17	O	95637	M	0.73	0.44	-0.28	0.44	-0.27	-0.16
	18	O	95638	M	0.59	0.38	-0.24	0.38	-0.15	-0.24
	19	O	95639	J	0.43	0.66				
	23	O	95643	J	0.54	0.69				
	24	O	95570	M	0.67	0.49	-0.23	-0.25	-0.26	0.49
	25	O	95571	M	0.70	0.45	-0.19	-0.32	0.45	-0.17
	27	O	95573	M	0.44	0.45	0.45	-0.26	-0.14	-0.14
	29	O	95575	M	0.59	0.34	-0.14	0.34	-0.12	-0.23
	30	O	95576	M	0.40	0.35	-0.15	-0.25	-0.05	0.35
	31	O	95577	M	0.77	0.50	0.50	-0.25	-0.32	-0.18
	32	O	95578	M	0.68	0.52	-0.25	-0.25	-0.30	0.52
	33	O	95579	M	0.73	0.55	-0.31	-0.28	0.55	-0.23
	34	O	95580	M	0.68	0.45	-0.24	0.45	-0.26	-0.16
	35	O	95644	M	0.55	0.50	-0.21	-0.22	-0.23	0.50
	36	O	95645	M	0.61	0.39	-0.11	-0.28	0.39	-0.24
	37	O	95646	M	0.57	0.45	-0.14	-0.26	-0.21	0.45
	38	O	95647	M	0.52	0.43	-0.11	-0.15	-0.31	0.43
	39	O	95648	M	0.69	0.38	-0.30	-0.13	0.38	-0.21
	40	O	95649	M	0.78	0.56	0.56	-0.30	-0.31	-0.25
	41	O	95650	M	0.56	0.36	0.36	-0.09	-0.28	-0.21
	42	O	95651	M	0.60	0.55	-0.26	-0.26	0.55	-0.24
	46	O	95655	M	0.52	0.35	0.35	-0.12	-0.16	-0.19
	47	O	95656	M	0.57	0.48	-0.19	-0.25	-0.20	0.48
	48	O	95657	M	0.50	0.26	-0.04	0.26	-0.21	-0.05
	49	O	95658	M	0.79	0.58	-0.30	0.58	-0.29	-0.28
	50	O	95659	M	0.72	0.52	0.52	-0.24	-0.28	-0.24
	51	O	95660	M	0.64	0.50	-0.32	-0.23	0.50	-0.15
	52	O	95674	M	0.61	0.42	-0.13	-0.28	-0.18	0.42
	53	O	95661	M	0.74	0.55	-0.28	-0.26	-0.27	0.55

Table A7. Summary Item Statistics - Operational Items (Continued)

English - January Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
A	55	O	95663	J	0.41	0.64				
	56	O	95664	M	0.77	0.49	0.49	-0.31	-0.22	-0.21
	58	O	95666	M	0.59	0.43	-0.08	0.43	-0.25	-0.25
	59	O	95607	M	0.24	0.22	0.00	-0.08	0.22	-0.10
	60	O	95608	M	0.49	0.39	-0.22	0.39	-0.09	-0.30
	61	O	95609	M	0.60	0.54	0.54	-0.28	-0.24	-0.19
	62	O	95610	M	0.58	0.57	-0.24	-0.26	-0.26	0.57
	63	O	95611	M	0.72	0.52	-0.23	-0.31	0.52	-0.22
	68	O	95671	M	0.61	0.52	0.52	-0.28	-0.21	-0.22
	69	O	95672	M	0.65	0.51	-0.28	-0.30	0.51	-0.12
	70	O	95673	M	0.58	0.28	-0.17	0.04	0.28	-0.28

Table A8. Summary Item Statistics - Operational Items
English - January Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
B	1	O	96008	J	0.68	0.57				
	2	O	96009	M	0.74	0.39	-0.22	-0.26	0.39	-0.17
	3	O	96010	M	0.67	0.34	0.34	-0.11	-0.25	-0.22
	4	O	96011	M	0.80	0.50	-0.21	-0.29	-0.33	0.50
	5	O	96012	M	0.63	0.31	0.31	-0.02	-0.32	-0.28
	6	O	96013	M	0.55	0.43	0.43	-0.21	-0.25	-0.13
	7	O	96433	M	0.83	0.50	-0.21	-0.36	0.50	-0.21
	8	O	96434	M	0.78	0.53	-0.29	-0.24	-0.36	0.53
	9	O	96437	M	0.54	0.42	-0.26	-0.35	-0.08	0.42
	10	O	96436	M	0.80	0.44	-0.29	0.44	-0.20	-0.24
	11	O	96435	M	0.69	0.46	-0.26	-0.26	-0.23	0.46
	12	O	96438	M	0.55	0.22	0.22	-0.28	0.00	-0.16
	13	O	96439	M	0.63	0.40	-0.24	0.40	-0.23	-0.10
	14	O	96021	M	0.81	0.42	-0.28	-0.28	0.42	-0.12
	15	O	96022	M	0.68	0.48	-0.17	0.48	-0.24	-0.29
	16	O	96023	M	0.66	0.58	-0.32	-0.24	-0.31	0.58
	17	O	96024	M	0.76	0.40	-0.22	-0.26	0.40	-0.13
	18	O	96025	M	0.57	0.46	-0.17	-0.26	0.46	-0.20
	19	O	96026	J	0.50	0.68				
	23	O	96030	J	0.56	0.70				
	24	O	95570	M	0.67	0.49	-0.23	-0.25	-0.26	0.49
	25	O	95571	M	0.70	0.45	-0.19	-0.32	0.45	-0.17
	27	O	95573	M	0.44	0.45	0.45	-0.26	-0.14	-0.14
	29	O	95575	M	0.59	0.34	-0.14	0.34	-0.12	-0.23
	30	O	95576	M	0.40	0.35	-0.15	-0.25	-0.05	0.35
	31	O	95577	M	0.77	0.50	0.50	-0.25	-0.32	-0.18
	32	O	95578	M	0.68	0.52	-0.25	-0.25	-0.30	0.52
	33	O	95579	M	0.73	0.55	-0.31	-0.28	0.55	-0.23
	34	O	95580	M	0.68	0.45	-0.24	0.45	-0.26	-0.16
	37	O	96033	M	0.85	0.54	-0.31	-0.31	0.54	-0.25
	38	O	96034	M	0.82	0.50	-0.31	0.50	-0.26	-0.20
	48	O	96044	M	0.69	0.49	-0.16	0.49	-0.33	-0.25
	49	O	96045	M	0.37	0.27	0.27	-0.08	-0.15	-0.05
	50	O	96046	M	0.64	0.39	-0.25	-0.23	0.39	-0.08
	51	O	96047	M	0.42	0.29	-0.11	-0.23	-0.01	0.29
	52	O	96048	M	0.46	0.27	-0.26	0.27	0.00	-0.16
	54	O	96050	M	0.70	0.48	-0.26	-0.28	0.48	-0.19

Table A8. Summary Item Statistics - Operational Items (Continued)
English - January Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
B	55	O	96051	M	0.46	0.27	-0.01	-0.17	-0.23	0.27
	58	O	96054	M	0.65	0.43	-0.17	-0.26	0.43	-0.19
	59	O	96055	J	0.46	0.70				
	60	O	95991	M	0.51	0.40	-0.16	0.40	-0.19	-0.17
	61	O	95992	M	0.67	0.45	-0.26	-0.30	-0.17	0.45
	62	O	95993	M	0.74	0.43	0.43	-0.20	-0.27	-0.23
	63	O	95994	M	0.69	0.50	0.50	-0.25	-0.31	-0.14
	64	O	95995	M	0.74	0.48	-0.24	0.48	-0.23	-0.26
	65	O	96056	M	0.69	0.56	-0.27	-0.30	-0.25	0.56
	66	O	96057	M	0.46	0.41	-0.16	0.41	-0.18	-0.22
	68	O	96059	M	0.72	0.44	-0.26	0.44	-0.22	-0.17
	73	O	96064	M	0.46	0.31	-0.23	-0.23	0.31	0.02

Table A9. Summary Item Statistics - Operational Items
English - January Make-Up1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
C	1	O	96446	J	0.50	0.56				
	2	O	96290	M	0.39	0.32	0.32	-0.27	-0.20	0.07
	4	O	96292	M	0.50	0.43	0.43	-0.22	-0.28	-0.12
	6	O	96294	M	0.57	0.45	-0.23	-0.27	0.45	-0.12
	7	O	96238	M	0.54	0.41	-0.22	-0.09	-0.24	0.41
	8	O	96239	M	0.54	0.45	-0.24	-0.27	0.45	-0.12
	9	O	96240	M	0.62	0.51	-0.22	-0.26	-0.25	0.51
	10	O	96241	M	0.54	0.41	-0.16	0.41	-0.31	-0.08
	11	O	96242	M	0.62	0.43	-0.26	0.43	-0.22	-0.11
	12	O	96243	M	0.51	0.24	-0.03	-0.17	0.24	-0.13
	14	O	96295	M	0.45	0.49	-0.24	-0.14	-0.26	0.49
	15	O	96296	M	0.46	0.36	-0.15	-0.24	0.36	-0.06
	16	O	96297	M	0.73	0.51	0.51	-0.27	-0.26	-0.24
	17	O	96298	M	0.34	0.27	0.01	0.27	-0.17	-0.21
	18	O	96299	J	0.33	0.70				
	19	O	96300	M	0.51	0.38	-0.07	0.38	-0.28	-0.13
	20	O	96301	M	0.43	0.34	-0.19	-0.10	0.34	-0.09
	21	O	96302	M	0.46	0.34	0.34	-0.12	-0.07	-0.23
	22	O	96303	M	0.50	0.44	0.44	-0.19	-0.17	-0.19
	23	O	96304	J	0.35	0.68				
	24	O	95570	M	0.67	0.49	-0.23	-0.25	-0.26	0.49
	25	O	95571	M	0.70	0.45	-0.19	-0.32	0.45	-0.17
	27	O	95573	M	0.44	0.45	0.45	-0.26	-0.14	-0.14
	29	O	95575	M	0.59	0.34	-0.14	0.34	-0.12	-0.23
	30	O	95576	M	0.40	0.35	-0.15	-0.25	-0.05	0.35
	31	O	95577	M	0.77	0.50	0.50	-0.25	-0.32	-0.18
	32	O	95578	M	0.68	0.52	-0.25	-0.25	-0.30	0.52
	33	O	95579	M	0.73	0.55	-0.31	-0.28	0.55	-0.23
	34	O	95580	M	0.68	0.45	-0.24	0.45	-0.26	-0.16
	36	O	96306	M	0.44	0.33	-0.10	0.33	-0.12	-0.17
	38	O	96308	M	0.54	0.43	-0.20	-0.25	0.43	-0.11
	39	O	96309	M	0.52	0.38	-0.03	-0.25	0.38	-0.22
	40	O	96310	M	0.31	0.24	0.06	-0.13	-0.17	0.24
	41	O	96311	M	0.38	0.33	-0.09	-0.13	0.33	-0.13
	42	O	96312	M	0.44	0.36	-0.23	0.36	-0.12	-0.08
	43	O	96313	M	0.51	0.41	-0.15	-0.23	0.41	-0.15
	44	O	96314	M	0.30	0.33	-0.22	-0.14	0.00	0.33
	45	O	96315	M	0.42	0.42	-0.23	0.42	-0.20	-0.07
	46	O	96316	J	0.24	0.61				
	58	O	96328	M	0.60	0.51	0.51	-0.27	-0.26	-0.16
	59	O	96329	M	0.59	0.51	-0.23	0.51	-0.23	-0.23

Table A9. Summary Item Statistics - Operational Items (Continued)
 English - January Make-Up1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
C	60	O	96377	M	0.49	0.47	-0.21	-0.18	0.47	-0.20
	61	O	96378	M	0.58	0.50	-0.19	0.50	-0.26	-0.22
	62	O	96379	M	0.52	0.42	0.42	-0.23	-0.20	-0.10
	63	O	96380	M	0.39	0.32	0.32	-0.20	-0.21	0.06
	64	O	96381	M	0.42	0.47	0.47	-0.22	-0.27	-0.06
	67	O	96333	M	0.36	0.43	-0.16	-0.08	-0.24	0.43
	69	O	96334	M	0.48	0.47	0.47	-0.22	-0.19	-0.17
	70	O	96335	M	0.33	0.43	-0.21	-0.11	-0.13	0.43
	71	O	96336	M	0.53	0.40	-0.19	0.40	-0.14	-0.19

Table A10. Summary Item Statistics - Operational Items
English - January Make-Up2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
D	1	O	96232	J	0.48	0.49				
	4	O	96233	M	0.44	0.37	-0.20	-0.18	-0.10	0.37
	6	O	96237	M	0.43	0.45	0.45	-0.20	-0.20	-0.16
	7	O	96238	M	0.54	0.41	-0.22	-0.09	-0.24	0.41
	8	O	96239	M	0.54	0.45	-0.24	-0.27	0.45	-0.12
	9	O	96240	M	0.62	0.51	-0.22	-0.26	-0.25	0.51
	10	O	96241	M	0.54	0.41	-0.16	0.41	-0.31	-0.08
	11	O	96242	M	0.62	0.43	-0.26	0.43	-0.22	-0.11
	12	O	96243	M	0.51	0.24	-0.03	-0.17	0.24	-0.13
	14	O	96245	M	0.31	0.40	-0.18	-0.07	-0.20	0.40
	15	O	96246	M	0.45	0.47	-0.12	-0.25	-0.20	0.47
	16	O	96247	M	0.45	0.40	0.40	-0.23	-0.12	-0.17
	17	O	96248	M	0.44	0.38	-0.20	-0.15	0.38	-0.09
	18	O	96249	M	0.45	0.46	0.46	-0.27	-0.13	-0.16
	19	O	96250	J	0.25	0.63				
	23	O	96254	J	0.36	0.61				
	24	O	95570	M	0.67	0.49	-0.23	-0.25	-0.26	0.49
	25	O	95571	M	0.70	0.45	-0.19	-0.32	0.45	-0.17
	27	O	95573	M	0.44	0.45	0.45	-0.26	-0.14	-0.14
	29	O	95575	M	0.59	0.34	-0.14	0.34	-0.12	-0.23
	30	O	95576	M	0.40	0.35	-0.15	-0.25	-0.05	0.35
	31	O	95577	M	0.77	0.50	0.50	-0.25	-0.32	-0.18
	32	O	95578	M	0.68	0.52	-0.25	-0.25	-0.30	0.52
	33	O	95579	M	0.73	0.55	-0.31	-0.28	0.55	-0.23
	34	O	95580	M	0.68	0.45	-0.24	0.45	-0.26	-0.16
	43	O	96263	M	0.51	0.48	-0.20	0.48	-0.20	-0.14
	44	O	96264	M	0.42	0.47	0.47	-0.22	-0.20	-0.06
	45	O	96265	M	0.40	0.49	0.49	-0.17	-0.20	-0.13
	46	O	96266	M	0.57	0.54	-0.26	-0.23	0.54	-0.17
	47	O	96267	M	0.40	0.38	-0.05	0.38	-0.19	-0.13
	48	O	96268	M	0.43	0.54	-0.21	-0.22	0.54	-0.15
	49	O	96269	M	0.38	0.50	0.50	-0.23	-0.10	-0.17
	50	O	96270	M	0.34	0.34	-0.19	-0.22	0.05	0.34
	51	O	96271	M	0.53	0.46	0.46	-0.24	-0.18	-0.09
	52	O	96272	M	0.47	0.49	-0.15	-0.23	0.49	-0.16
	53	O	96273	M	0.27	0.44	-0.13	-0.11	-0.12	0.44
	54	O	96275	M	0.50	0.54	0.54	-0.26	-0.19	-0.16
	55	O	96274	M	0.53	0.46	-0.18	0.46	-0.23	-0.13
	56	O	96276	M	0.48	0.46	-0.25	-0.13	0.46	-0.12
	57	O	96277	M	0.50	0.44	-0.21	0.44	-0.11	-0.17
	58	O	96278	M	0.33	0.35	-0.14	0.35	-0.08	-0.08
	59	O	96279	J	0.21	0.60				

Table A10. Summary Item Statistics - Operational Items (Continued)
English - January Make-Up2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
D	60	O	96215	M	0.41	0.39	0.39	-0.20	-0.09	-0.03
	61	O	96216	M	0.47	0.45	-0.10	0.45	-0.20	-0.14
	62	O	96217	M	0.38	0.42	-0.18	-0.19	0.42	0.00
	63	O	96219	M	0.33	0.28	-0.18	0.06	0.28	-0.05
	64	O	96218	M	0.39	0.36	-0.13	0.36	-0.20	0.05
	65	O	96281	M	0.35	0.49	-0.17	-0.11	0.49	-0.16
	66	O	96280	M	0.47	0.47	0.47	-0.18	-0.12	-0.17
	72	O	96286	M	0.44	0.54	-0.22	-0.19	0.54	-0.16

Table A11. Summary Item Statistics - Operational Items
Government - January Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
AB	1	L	50918	M	0.78	0.30	0.30	-0.16	-0.22	-0.08
	2	L	51144	M	0.77	0.34	-0.11	-0.33	-0.11	0.34
	3	L	50866	M	0.81	0.43	0.43	-0.27	-0.22	-0.20
	4	L	50938	M	0.36	0.22	0.22	-0.09	-0.09	-0.10
	5	L	68677	M	0.70	0.53	-0.25	-0.26	-0.30	0.53
	6	L	51217	J	0.18	0.60				
	10	L	50974	M	0.56	0.33	-0.18	-0.13	0.33	-0.15
	11	L	68507	J	0.37	0.74				
	12	L	68490	M	0.61	0.46	-0.25	-0.28	-0.23	0.46
	13	L	51817	M	0.57	0.47	-0.21	0.47	-0.22	-0.26
	14	O	51725	M	0.56	0.45	0.45	-0.23	-0.23	-0.20
	15	O	68675	M	0.58	0.46	0.46	-0.25	-0.28	-0.11
	16	L	67962	J	0.30	0.81				
	17	O	68601	M	0.51	0.49	0.49	-0.24	-0.22	-0.23
	18	O	55584	M	0.79	0.41	-0.23	-0.26	0.41	-0.14
	19	O	68046	M	0.77	0.49	-0.25	0.49	-0.29	-0.21
	20	L	64953	J	0.23	0.77				
	21	O	50743	M	0.90	0.44	-0.27	-0.28	0.44	-0.15
	22	O	68568	M	0.61	0.53	-0.32	-0.26	0.53	-0.17
	23	O	68644	M	0.48	0.32	0.32	-0.12	-0.19	-0.11
	24	L	68513	M	0.57	0.28	-0.07	-0.11	-0.23	0.28
	25	L	58370	M	0.80	0.45	0.45	-0.24	-0.23	-0.23
	26	L	68099	M	0.74	0.47	-0.19	0.47	-0.30	-0.25
	27	L	68518	M	0.64	0.47	-0.26	-0.23	-0.20	0.47
	29	O	55641	M	0.39	0.28	-0.15	-0.20	0.28	0.06
	30	O	51238	M	0.53	0.45	-0.14	-0.25	0.45	-0.16
	31	O	58278	M	0.67	0.55	0.55	-0.23	-0.29	-0.25
	32	O	55657	M	0.58	0.48	-0.26	-0.21	0.48	-0.21
	33	L	51799	M	0.59	0.57	-0.23	-0.27	-0.26	0.57
	34	L	67989	M	0.41	0.48	-0.24	0.48	-0.24	-0.06
	35	L	51002	M	0.81	0.50	-0.20	-0.31	-0.27	0.50
	36	L	51242	M	0.83	0.47	-0.23	0.47	-0.27	-0.24
	37	L	50760	M	0.70	0.47	-0.25	-0.23	0.47	-0.21
	38	L	68557	J	0.47	0.64				
	41	L	68773	M	0.75	0.46	0.46	-0.33	-0.18	-0.20
	42	O	58138	M	0.66	0.47	-0.26	-0.24	0.47	-0.18
	43	O	50902	M	0.61	0.40	-0.25	-0.19	-0.18	0.40
	44	O	51037	M	0.49	0.46	-0.15	-0.21	-0.24	0.46
	45	O	68641	M	0.46	0.34	-0.13	-0.15	0.34	-0.16

Table A11. Summary Item Statistics - Operational Items (Continued)
Government - January Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
	46	O	68600	M	0.57	0.42	0.42	-0.11	-0.29	-0.16
	47	O	58360	M	0.71	0.50	0.50	-0.27	-0.23	-0.30
	48	O	68649	J	0.44	0.72				
	49	O	58313	M	0.60	0.37	0.37	-0.21	-0.26	-0.07
	50	O	68602	M	0.53	0.35	-0.09	0.35	-0.24	-0.16
	51	O	68776	M	0.56	0.36	0.36	-0.20	-0.23	-0.13
	52	O	51249	M	0.66	0.46	0.46	-0.24	-0.23	-0.21
	53	L	68053	J	0.27	0.78				
	54	L	68697	M	0.68	0.55	-0.25	-0.25	-0.30	0.55
	55	L	58190	M	0.65	0.57	0.57	-0.30	-0.29	-0.22
	56	L	68703	M	0.77	0.54	0.54	-0.29	-0.28	-0.26
	57	L	68006	M	0.40	0.36	-0.18	0.36	-0.21	-0.04
	58	L	51110	J	0.32	0.77				
	59	L	51136	M	0.43	0.42	-0.09	-0.18	-0.22	0.42
	60	L	68727	M	0.48	0.40	-0.17	-0.16	-0.17	0.40
	61	L	51266	M	0.35	0.28	-0.07	-0.08	0.28	-0.13
	62	L	64949	M	0.65	0.53	-0.23	0.53	-0.28	-0.24
	63	L	68724	M	0.66	0.58	-0.30	-0.26	-0.28	0.58
	64	L	51812	M	0.72	0.51	-0.28	0.51	-0.21	-0.28

Table A12. Summary Item Statistics - Operational Items
Government - January Make-Up1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
C	1	L	50918	M	0.78	0.30	0.30	-0.16	-0.22	-0.08
	2	L	51144	M	0.77	0.34	-0.11	-0.33	-0.11	0.34
	3	L	50866	M	0.81	0.43	0.43	-0.27	-0.22	-0.20
	4	L	50938	M	0.36	0.22	0.22	-0.09	-0.09	-0.10
	5	L	68677	M	0.70	0.53	-0.25	-0.26	-0.30	0.53
	6	L	51217	J	0.18	0.60				
	10	L	50974	M	0.56	0.33	-0.18	-0.13	0.33	-0.15
	11	L	68507	J	0.37	0.74				
	12	L	68490	M	0.61	0.46	-0.25	-0.28	-0.23	0.46
	13	L	51817	M	0.57	0.47	-0.21	0.47	-0.22	-0.26
	14	O	68042	M	0.32	0.24	-0.19	-0.22	0.24	0.06
	15	O	68676	M	0.50	0.33	-0.08	-0.20	0.33	-0.16
	16	L	67962	J	0.30	0.81				
	17	O	68601	M	0.51	0.49	0.49	-0.24	-0.22	-0.23
	18	O	55584	M	0.79	0.41	-0.23	-0.26	0.41	-0.14
	19	O	68046	M	0.77	0.49	-0.25	0.49	-0.29	-0.21
	20	L	64953	J	0.23	0.77				
	21	O	51771	M	0.51	0.38	-0.10	-0.23	0.38	-0.18
	22	O	51058	M	0.28	0.40	-0.05	-0.15	-0.19	0.40
	23	O	68791	M	0.42	0.32	-0.05	-0.19	-0.16	0.32
	24	L	68513	M	0.57	0.28	-0.07	-0.11	-0.23	0.28
	25	L	58370	M	0.80	0.45	0.45	-0.24	-0.23	-0.23
	26	L	68099	M	0.74	0.47	-0.19	0.47	-0.30	-0.25
	27	L	68518	M	0.64	0.47	-0.26	-0.23	-0.20	0.47
	29	O	55641	M	0.39	0.28	-0.15	-0.20	0.28	0.06
	30	O	51238	M	0.53	0.45	-0.14	-0.25	0.45	-0.16
	31	O	58278	M	0.67	0.55	0.55	-0.23	-0.29	-0.25
	32	O	55657	M	0.58	0.48	-0.26	-0.21	0.48	-0.21
	33	L	51799	M	0.59	0.57	-0.23	-0.27	-0.26	0.57
	34	L	67989	M	0.41	0.48	-0.24	0.48	-0.24	-0.06
	35	L	51002	M	0.81	0.50	-0.20	-0.31	-0.27	0.50
	36	L	51242	M	0.83	0.47	-0.23	0.47	-0.27	-0.24
	37	L	50760	M	0.70	0.47	-0.25	-0.23	0.47	-0.21
	38	L	68557	J	0.47	0.64				
	41	L	68773	M	0.75	0.46	0.46	-0.33	-0.18	-0.20
	42	O	68692	M	0.70	0.42	-0.18	-0.27	0.42	-0.16
	43	O	68751	M	0.44	0.37	-0.14	-0.11	0.37	-0.20
	44	O	68778	M	0.30	0.25	0.25	-0.15	-0.07	-0.04
	45	O	64958	M	0.39	0.49	-0.22	-0.23	-0.13	0.49

Table A12 Summary Item Statistics - Operational Items (Continued)
 Government - January Make-Up1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
	46	O	68072	M	0.32	0.27	-0.06	-0.18	0.27	-0.03
	47	O	68077	M	0.56	0.52	-0.23	-0.24	-0.23	0.52
	48	O	68629	J	0.24	0.74				
	49	O	58313	M	0.60	0.37	0.37	-0.21	-0.26	-0.07
	50	O	68602	M	0.53	0.35	-0.09	0.35	-0.24	-0.16
	51	O	68776	M	0.56	0.36	0.36	-0.20	-0.23	-0.13
	52	O	51249	M	0.66	0.46	0.46	-0.24	-0.23	-0.21
	53	L	68053	J	0.27	0.78				
	54	L	68697	M	0.68	0.55	-0.25	-0.25	-0.30	0.55
	55	L	58190	M	0.65	0.57	0.57	-0.30	-0.29	-0.22
	56	L	68703	M	0.77	0.54	0.54	-0.29	-0.28	-0.26
	57	L	68006	M	0.40	0.36	-0.18	0.36	-0.21	-0.04
	58	L	51110	J	0.32	0.77				
	59	L	51136	M	0.43	0.42	-0.09	-0.18	-0.22	0.42
	60	L	68727	M	0.48	0.40	-0.17	-0.16	-0.17	0.40
	61	L	51266	M	0.35	0.28	-0.07	-0.08	0.28	-0.13
	62	L	64949	M	0.65	0.53	-0.23	0.53	-0.28	-0.24
	63	L	68724	M	0.66	0.58	-0.30	-0.26	-0.28	0.58
	64	L	51812	M	0.72	0.51	-0.28	0.51	-0.21	-0.28

Table A13. Summary Item Statistics - Operational Items
Government - January Make-Up2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
D	1	L	50918	M	0.78	0.30	0.30	-0.16	-0.22	-0.08
	2	L	51144	M	0.77	0.34	-0.11	-0.33	-0.11	0.34
	3	L	50866	M	0.81	0.43	0.43	-0.27	-0.22	-0.20
	4	L	50938	M	0.36	0.22	0.22	-0.09	-0.09	-0.10
	5	L	68677	M	0.70	0.53	-0.25	-0.26	-0.30	0.53
	6	L	51217	J	0.18	0.60				
	10	L	50974	M	0.56	0.33	-0.18	-0.13	0.33	-0.15
	11	L	68507	J	0.37	0.74				
	12	L	68490	M	0.61	0.46	-0.25	-0.28	-0.23	0.46
	13	L	51817	M	0.57	0.47	-0.21	0.47	-0.22	-0.26
	14	O	51725	M	0.56	0.45	0.45	-0.23	-0.23	-0.20
	15	O	68675	M	0.58	0.46	0.46	-0.25	-0.28	-0.11
	16	L	67962	J	0.30	0.81				
	17	O	51733	M	0.60	0.55	0.55	-0.27	-0.27	-0.21
	18	O	50912	M	0.30	0.30	0.30	-0.16	-0.17	0.02
	19	O	50995	M	0.46	0.28	0.28	-0.01	-0.23	-0.13
	20	L	64953	J	0.23	0.77				
	21	O	50743	M	0.90	0.44	-0.27	-0.28	0.44	-0.15
	22	O	68568	M	0.61	0.53	-0.32	-0.26	0.53	-0.17
	23	O	68644	M	0.48	0.32	0.32	-0.12	-0.19	-0.11
	24	L	68513	M	0.57	0.28	-0.07	-0.11	-0.23	0.28
	25	L	58370	M	0.80	0.45	0.45	-0.24	-0.23	-0.23
	26	L	68099	M	0.74	0.47	-0.19	0.47	-0.30	-0.25
	27	L	68518	M	0.64	0.47	-0.26	-0.23	-0.20	0.47
	29	O	51152	M	0.60	0.63	-0.21	-0.32	-0.28	0.63
	30	O	58202	M	0.47	0.48	-0.23	-0.25	0.48	-0.06
	31	O	55689	M	0.46	0.40	-0.17	0.40	-0.17	-0.04
	32	O	64978	M	0.21	0.19	0.19	0.05	-0.18	0.13
	33	L	51799	M	0.59	0.57	-0.23	-0.27	-0.26	0.57
	34	L	67989	M	0.41	0.48	-0.24	0.48	-0.24	-0.06
	35	L	51002	M	0.81	0.50	-0.20	-0.31	-0.27	0.50
	36	L	51242	M	0.83	0.47	-0.23	0.47	-0.27	-0.24
	37	L	50760	M	0.70	0.47	-0.25	-0.23	0.47	-0.21
	38	L	68557	J	0.47	0.64				
	41	L	68773	M	0.75	0.46	0.46	-0.33	-0.18	-0.20
	42	O	58138	M	0.66	0.47	-0.26	-0.24	0.47	-0.18
	43	O	50902	M	0.61	0.40	-0.25	-0.19	-0.18	0.40
	44	O	51037	M	0.49	0.46	-0.15	-0.21	-0.24	0.46
	45	O	68641	M	0.46	0.34	-0.13	-0.15	0.34	-0.16

Table A413. Summary Item Statistics - Operational Items (Continued)
 Government - January Make-Up2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
D	46	O	68600	M	0.57	0.42	0.42	-0.11	-0.29	-0.16
	47	O	58360	M	0.71	0.50	0.50	-0.27	-0.23	-0.30
	48	O	68649	J	0.44	0.72				
	49	O	58394	M	0.45	0.31	-0.15	0.31	-0.08	-0.13
	50	O	51029	M	0.51	0.49	-0.15	-0.26	-0.21	0.49
	51	O	58269	M	0.56	0.50	-0.22	-0.19	-0.24	0.50
	52	O	55650	M	0.43	0.41	-0.20	-0.12	-0.14	0.41
	53	L	68053	J	0.27	0.78				
	54	L	68697	M	0.68	0.55	-0.25	-0.25	-0.30	0.55
	55	L	58190	M	0.65	0.57	0.57	-0.30	-0.29	-0.22
	56	L	68703	M	0.77	0.54	0.54	-0.29	-0.28	-0.26
	57	L	68006	M	0.40	0.36	-0.18	0.36	-0.21	-0.04
	58	L	51110	J	0.32	0.77				
	59	L	51136	M	0.43	0.42	-0.09	-0.18	-0.22	0.42
	60	L	68727	M	0.48	0.40	-0.17	-0.16	-0.17	0.40
	61	L	51266	M	0.35	0.28	-0.07	-0.08	0.28	-0.13
	62	L	64949	M	0.65	0.53	-0.23	0.53	-0.28	-0.24
	63	L	68724	M	0.66	0.58	-0.30	-0.26	-0.28	0.58
	64	L	51812	M	0.72	0.51	-0.28	0.51	-0.21	-0.28

Table A14. Summary Item Statistics - Operational Items

Algebra May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E-K	1	L	56627	M	0.86	0.32	-0.22	0.32	-0.20	-0.09
	2	L	67502	M	0.93	0.23	-0.10	0.23	-0.18	-0.11
	3	L	51360	M	0.83	0.32	-0.22	-0.14	0.32	-0.14
	5	L	67531	M	0.70	0.40	-0.12	-0.30	0.40	-0.18
	6	L	51444	J	0.13	0.69				
	7	O	51396	M	0.37	0.36	-0.23	-0.08	-0.16	0.36
	8	L	51392	M	0.75	0.50	-0.18	-0.34	0.50	-0.25
	9	O	51359	M	0.56	0.36	-0.22	0.36	-0.13	-0.17
	11	O	67504	M	0.89	0.44	-0.35	-0.18	-0.18	0.44
	13	L	51467	G	0.64	0.58	0.58	-0.55		
	14	L	54854	G	0.24	0.26	0.26	-0.19		
	16	L	54650	G	0.57	0.62	0.62	-0.50		
	17	L	56811	J	0.57	0.74				
	18	L	54646	M	0.45	0.56	-0.27	-0.30	-0.09	0.56
	19	O	67516	M	0.63	0.60	-0.29	-0.28	-0.29	0.60
	20	O	56773	M	0.85	0.43	0.43	-0.20	-0.26	-0.20
	21	L	56830	J	0.58	0.78				
	22	L	67492	M	0.52	0.19	-0.11	0.19	-0.16	0.03
	23	L	56659	M	0.80	0.47	0.47	-0.31	-0.22	-0.19
	25	L	56695	M	0.92	0.36	-0.17	-0.24	0.36	-0.19
	26	O	51550	M	0.73	0.43	0.43	-0.25	-0.22	-0.21
	27	L	51511	M	0.82	0.32	-0.22	-0.18	0.32	-0.15
	28	L	51530	M	0.24	0.41	-0.15	-0.19	0.41	-0.06
	31	L	67499	M	0.80	0.35	-0.12	-0.26	-0.26	0.35
	33	O	54712	M	0.83	0.48	-0.17	-0.34	0.48	-0.24
	35	L	67539	M	0.31	0.29	0.08	0.29	-0.23	-0.17
	36	O	43222	J	0.37	0.73				
	37	O	67552	G	0.74	0.50	0.50	-0.45		
	38	O	51441	G	0.87	0.35	0.35	-0.30		
	40	O	51545	G	0.56	0.47	0.47	-0.40		
	41	O	52329	J	0.55	0.73				
	42	O	51551	M	0.67	0.51	0.51	-0.28	-0.28	-0.17
	43	L	56484	M	0.43	0.37	-0.29	0.01	-0.25	0.37
	44	O	56572	M	0.63	0.56	0.56	-0.21	-0.32	-0.30
	45	L	51496	J	0.43	0.76				
	46	L	52332	M	0.87	0.40	-0.26	-0.19	0.40	-0.15
	47	O	51432	M	0.72	0.46	-0.26	-0.28	0.46	-0.15
	48	L	67521	M	0.57	0.51	0.51	-0.17	-0.27	-0.26

Table A15. Summary Item Statistics - Operational Items

Algebra May Make-Up1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
X	1	L	56627	M	0.86	0.32	-0.22	0.32	-0.20	-0.09
	2	L	67502	M	0.93	0.23	-0.10	0.23	-0.18	-0.11
	3	L	51360	M	0.83	0.32	-0.22	-0.14	0.32	-0.14
	5	L	67531	M	0.70	0.40	-0.12	-0.30	0.40	-0.18
	6	L	51444	J	0.13	0.69				
	7	O	54660	M	0.31	0.09	-0.22	-0.29	-0.09	0.51
	8	L	51392	M	0.75	0.50	-0.18	-0.34	0.50	-0.25
	9	O	51359	M	0.56	0.36	-0.22	0.36	-0.13	-0.17
	11	O	67504	M	0.89	0.44	-0.35	-0.18	-0.18	0.44
	13	L	51467	G	0.64	0.58	0.58	-0.55		
	14	L	54854	G	0.24	0.26	0.26	-0.19		
	16	L	54650	G	0.57	0.62	0.62	-0.50		
	17	L	56811	J	0.57	0.74				
	18	L	54646	M	0.45	0.56	-0.27	-0.30	-0.09	0.56
	19	O	54765	M	0.57	0.31	0.37	-0.13	-0.17	-0.08
	20	O	51431	M	0.44	0.30	0.50	-0.25	-0.20	-0.23
	21	L	56830	J	0.58	0.78				
	22	L	67492	M	0.52	0.19	-0.11	0.19	-0.16	0.03
	23	L	56659	M	0.80	0.47	0.47	-0.31	-0.22	-0.19
	25	L	56695	M	0.92	0.36	-0.17	-0.24	0.36	-0.19
	26	O	51470	M	0.20	0.77	-0.23	-0.23	0.47	-0.15
	27	L	51511	M	0.82	0.32	-0.22	-0.18	0.32	-0.15
	28	L	51530	M	0.24	0.41	-0.15	-0.19	0.41	-0.06
	31	L	67499	M	0.80	0.35	-0.12	-0.26	-0.26	0.35
	33	O	54712	M	0.83	0.48	-0.17	-0.34	0.48	-0.24
	35	L	67539	M	0.31	0.29	0.08	0.29	-0.23	-0.17
	36	O	43222	J	0.37	0.73				
	37	O	67552	G	0.74	0.50	0.50	-0.45		
	38	O	64681	G	0.19	0.47	0.52	-0.43		
	40	O	51545	G	0.56	0.47	0.47	-0.40		
	41	O	51524	J	0.29	0.46				
	42	O	51551	M	0.67	0.51	0.51	-0.28	-0.28	-0.17
	43	L	56484	M	0.43	0.37	-0.29	0.01	-0.25	0.37
	44	O	56572	M	0.63	0.56	0.56	-0.21	-0.32	-0.30
	45	L	51496	J	0.43	0.76				
	46	L	52332	M	0.87	0.40	-0.26	-0.19	0.40	-0.15
	47	O	51503	M	0.56	0.51	-0.25	0.48	-0.17	-0.18
	48	L	67521	M	0.57	0.51	0.51	-0.17	-0.27	-0.26

Table A16. Summary Item Statistics - Operational Items
Algebra May Make-Up2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
Y	1	L	56627	M	0.86	0.32	-0.22	0.32	-0.20	-0.09
	2	L	67502	M	0.93	0.23	-0.10	0.23	-0.18	-0.11
	3	L	51360	M	0.83	0.32	-0.22	-0.14	0.32	-0.14
	5	L	67531	M	0.70	0.40	-0.12	-0.30	0.40	-0.18
	6	L	51444	J	0.13	0.69				
	7	O	51396	M	0.37	0.36	-0.23	-0.08	-0.16	0.36
	8	L	51392	M	0.75	0.50	-0.18	-0.34	0.50	-0.25
	9	O	51539	M	0.31	0.09	-0.14	0.10	0.09	-0.10
	11	O	51411	M	0.57	0.31	-0.15	0.31	-0.14	-0.15
	13	L	51467	G	0.64	0.58	0.58	-0.55		
	14	L	54854	G	0.24	0.26	0.26	-0.19		
	16	L	54650	G	0.57	0.62	0.62	-0.50		
	17	L	56811	J	0.57	0.74				
	18	L	54646	M	0.45	0.56	-0.27	-0.30	-0.09	0.56
	19	O	67516	M	0.63	0.60	-0.29	-0.28	-0.29	0.60
	20	O	56773	M	0.85	0.43	0.43	-0.20	-0.26	-0.20
	21	L	56830	J	0.58	0.78				
	22	L	67492	M	0.52	0.19	-0.11	0.19	-0.16	0.03
	23	L	56659	M	0.80	0.47	0.47	-0.31	-0.22	-0.19
	25	L	56695	M	0.92	0.36	-0.17	-0.24	0.36	-0.19
	26	O	51550	M	0.73	0.43	0.43	-0.25	-0.22	-0.21
	27	L	51511	M	0.82	0.32	-0.22	-0.18	0.32	-0.15
	28	L	51530	M	0.24	0.41	-0.15	-0.19	0.41	-0.06
	31	L	67499	M	0.80	0.35	-0.12	-0.26	-0.26	0.35
	33	O	52337	M	0.44	0.30	-0.11	0.30	-0.15	-0.14
	35	L	67539	M	0.31	0.29	0.08	0.29	-0.23	-0.17
	36	O	54744	J	0.20	0.77				
	37	O	67497	G	0.19	0.47	0.47	-0.25		
	38	O	51441	G	0.87	0.35	0.35	-0.30		
	40	O	51443	G	0.29	0.46	0.46	-0.33		
	41	O	52329	J	0.55	0.73				
	42	O	54766	M	0.56	0.51	-0.28	-0.26	0.51	-0.14
	43	L	56484	M	0.43	0.37	-0.29	0.01	-0.25	0.37
	44	O	54586	M	0.29	0.36	0.36	-0.13	-0.06	-0.13
	45	L	51496	J	0.43	0.76				
	46	L	52332	M	0.87	0.40	-0.26	-0.19	0.40	-0.15
	47	O	51432	M	0.72	0.46	-0.26	-0.28	0.46	-0.15
	48	L	67521	M	0.57	0.51	0.51	-0.17	-0.27	-0.26

Table A17. Summary Item Statistics - Operational Items
Biology May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E-K	1	O	57089	M	0.73	0.51	-0.24	-0.29	-0.28	0.51
	2	O	67605	M	0.47	0.29	0.29	-0.22	-0.17	0.01
	3	O	52434	M	0.55	0.45	0.45	-0.28	-0.19	-0.18
	4	O	52433	M	0.64	0.47	0.47	-0.26	-0.20	-0.24
	5	L	67686	J	0.37	0.72				
	6	O	64987	M	0.49	0.53	-0.24	-0.18	-0.32	0.53
	9	O	60543	M	0.62	0.33	-0.21	-0.22	0.33	-0.08
	10	O	67687	M	0.56	0.52	-0.26	-0.30	0.52	-0.17
	11	O	55023	M	0.87	0.34	-0.20	-0.17	0.34	-0.18
	13	O	64709	M	0.44	0.34	-0.17	-0.06	-0.22	0.34
	14	O	64710	M	0.41	0.39	0.39	-0.02	-0.28	-0.21
	15	O	52665	M	0.73	0.40	-0.24	-0.27	0.40	-0.15
	16	O	52664	M	0.63	0.48	-0.21	-0.32	-0.17	0.48
	17	O	68236	M	0.55	0.40	-0.19	-0.17	-0.20	0.40
	18	L	52779	J	0.33	0.71				
	19	O	65117	M	0.78	0.47	-0.23	0.47	-0.28	-0.22
	20	O	65056	M	0.54	0.44	-0.28	0.44	-0.22	-0.15
	21	O	56848	M	0.47	0.44	-0.15	-0.23	0.44	-0.21
	22	O	56849	M	0.44	0.37	-0.10	0.37	-0.17	-0.20
	23	O	53511	M	0.40	0.44	-0.17	0.44	-0.22	-0.15
	27	L	67591	J	0.25	0.76				
	28	O	52470	M	0.60	0.44	-0.23	0.44	-0.22	-0.16
	29	O	52471	M	0.67	0.48	-0.24	0.48	-0.27	-0.20
	30	O	52469	M	0.56	0.45	-0.23	0.45	-0.21	-0.20
	33	L	67604	J	0.30	0.74				
	34	O	55211	M	0.75	0.44	-0.22	0.44	-0.27	-0.17
	35	O	55212	M	0.51	0.36	-0.20	-0.15	0.36	-0.11
	36	O	68294	M	0.42	0.25	0.04	0.25	-0.29	-0.16
	37	O	65068	M	0.81	0.41	-0.16	-0.18	0.41	-0.29
	38	O	65096	M	0.44	0.35	-0.20	-0.12	0.35	-0.18
	39	O	65098	M	0.76	0.39	-0.16	0.39	-0.26	-0.20
	40	O	64703	M	0.60	0.51	-0.27	0.51	-0.27	-0.19
	41	L	52682	J	0.33	0.77				
	42	O	64984	M	0.48	0.38	-0.22	-0.07	0.38	-0.26
	43	O	65069	M	0.45	0.34	-0.16	-0.26	0.34	-0.04
	44	O	55250	M	0.67	0.36	-0.15	-0.20	0.36	-0.18
	47	O	52719	M	0.87	0.43	0.43	-0.21	-0.26	-0.22
	48	O	52775	M	0.76	0.51	-0.26	-0.31	-0.22	0.51
	49	O	52776	M	0.76	0.52	-0.27	-0.27	-0.27	0.52
	50	O	52720	M	0.59	0.55	-0.27	-0.25	0.55	-0.30
	51	L	65000	J	0.19	0.82				
	52	O	57088	M	0.56	0.41	-0.24	0.41	-0.26	-0.09

Table A17. Summary Item Statistics - Operational Items (Continued)

Biology May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E-K	53	O	54965	M	0.59	0.37	-0.19	0.37	-0.15	-0.19
	54	O	57034	M	0.73	0.53	-0.22	0.53	-0.25	-0.33
	58	O	53476	M	0.61	0.41	-0.16	0.41	-0.24	-0.18
	59	O	68148	M	0.42	0.34	0.34	-0.06	-0.23	-0.12
	60	O	68147	M	0.51	0.52	-0.22	-0.19	-0.29	0.52
	62	O	55124	M	0.73	0.49	-0.24	0.49	-0.25	-0.25
	63	O	57024	M	0.59	0.45	-0.23	-0.24	0.45	-0.16
	64	O	56978	M	0.43	0.36	0.36	-0.11	-0.21	-0.11
	65	L	67615	J	0.27	0.81				
	68	O	55221	M	0.69	0.56	-0.24	0.56	-0.25	-0.33
	69	O	55222	M	0.67	0.53	-0.25	-0.29	0.53	-0.23
	70	O	55215	M	0.59	0.53	-0.23	-0.29	0.53	-0.21
	71	O	52552	M	0.62	0.55	-0.25	-0.23	-0.29	0.55

Table A18. Summary Item Statistics - Operational Items

Biology May MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
X	1	O	57089	M	0.73	0.51	-0.24	-0.29	-0.28	0.51
	2	O	67577	M	0.32	0.27	-0.12	0.27	-0.12	-0.06
	3	O	52434	M	0.55	0.45	0.45	-0.28	-0.19	-0.18
	4	O	52433	M	0.64	0.47	0.47	-0.26	-0.20	-0.24
	5	L	67686	J	0.37	0.72				
	6	O	64987	M	0.49	0.53	-0.24	-0.18	-0.32	0.53
	9	O	60543	M	0.62	0.33	-0.21	-0.22	0.33	-0.08
	10	O	67687	M	0.56	0.52	-0.26	-0.30	0.52	-0.17
	11	O	55023	M	0.87	0.34	-0.20	-0.17	0.34	-0.18
	13	O	64709	M	0.44	0.34	-0.17	-0.06	-0.22	0.34
	14	O	64710	M	0.41	0.39	0.39	-0.02	-0.28	-0.21
	15	O	52665	M	0.73	0.40	-0.24	-0.27	0.40	-0.15
	16	O	52664	M	0.63	0.48	-0.21	-0.32	-0.17	0.48
	17	O	64992	M	0.32	0.32	0.04	-0.28	0.32	-0.21
	18	L	52779	J	0.33	0.71				
	19	O	57027	M	0.61	0.54	0.54	-0.26	-0.28	-0.19
	20	O	65056	M	0.54	0.44	-0.28	0.44	-0.22	-0.15
	21	O	56848	M	0.47	0.44	-0.15	-0.23	0.44	-0.21
	22	O	56849	M	0.44	0.37	-0.10	0.37	-0.17	-0.20
	23	O	53511	M	0.40	0.44	-0.17	0.44	-0.22	-0.15
	27	L	67591	J	0.25	0.76				
	28	O	52470	M	0.60	0.44	-0.23	0.44	-0.22	-0.16
	29	O	52471	M	0.67	0.48	-0.24	0.48	-0.27	-0.20
	30	O	52469	M	0.56	0.45	-0.23	0.45	-0.21	-0.20
	33	L	67604	J	0.30	0.74				
	34	O	55211	M	0.75	0.44	-0.22	0.44	-0.27	-0.17
	35	O	55212	M	0.51	0.36	-0.20	-0.15	0.36	-0.11
	36	O	68302	M	0.42	0.26	-0.22	-0.24	0.26	0.10
	37	O	52740	M	0.31	0.33	-0.10	-0.10	-0.12	0.33
	38	O	65096	M	0.44	0.35	-0.20	-0.12	0.35	-0.18
	39	O	65098	M	0.76	0.39	-0.16	0.39	-0.26	-0.20
	40	O	54987	M	0.39	0.35	0.35	-0.09	-0.18	-0.11
	41	L	52682	J	0.33	0.77				
	42	O	64984	M	0.48	0.38	-0.22	-0.07	0.38	-0.26
	43	O	65069	M	0.45	0.34	-0.16	-0.26	0.34	-0.04
	44	O	55250	M	0.67	0.36	-0.15	-0.20	0.36	-0.18
	47	O	52719	M	0.87	0.43	0.43	-0.21	-0.26	-0.22
	48	O	52775	M	0.76	0.51	-0.26	-0.31	-0.22	0.51
	49	O	52776	M	0.76	0.52	-0.27	-0.27	-0.27	0.52
	50	O	52720	M	0.59	0.55	-0.27	-0.25	0.55	-0.30
	51	L	65000	J	0.19	0.82				

Table A18. Summary Item Statistics - Operational Items (Continued)

Biology May MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
X	52	O	64723	M	0.57	0.46	0.46	-0.25	-0.19	-0.16
	53	O	55114	M	0.60	0.41	0.41	-0.13	-0.20	-0.21
	54	O	55200	M	0.40	0.53	-0.22	-0.27	-0.13	0.53
	58	O	53476	M	0.61	0.41	-0.16	0.41	-0.24	-0.18
	59	O	68148	M	0.42	0.34	0.34	-0.06	-0.23	-0.12
	60	O	64981	M	0.49	0.37	-0.08	0.37	-0.23	-0.14
	62	O	55124	M	0.73	0.49	-0.24	0.49	-0.25	-0.25
	63	O	57024	M	0.59	0.45	-0.23	-0.24	0.45	-0.16
	64	O	56978	M	0.43	0.36	0.36	-0.11	-0.21	-0.11
	65	L	67615	J	0.27	0.81				
	68	O	55221	M	0.69	0.56	-0.24	0.56	-0.25	-0.33
	69	O	55222	M	0.67	0.53	-0.25	-0.29	0.53	-0.23
	70	O	65070	M	0.29	0.44	-0.11	-0.16	-0.12	0.44
	71	O	52552	M	0.62	0.55	-0.25	-0.23	-0.29	0.55

Table A19. Summary Item Statistics - Operational Items
Biology May MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
Y	1	O	67622	M	0.79	0.20	-0.07	-0.18	-0.09	0.20
	2	O	67605	M	0.47	0.29	0.29	-0.22	-0.17	0.01
	3	O	52434	M	0.55	0.45	0.45	-0.28	-0.19	-0.18
	4	O	52433	M	0.64	0.47	0.47	-0.26	-0.20	-0.24
	5	L	67686	J	0.37	0.72				
	6	O	55223	M	0.24	0.43	-0.10	0.03	-0.33	0.43
	9	O	60543	M	0.62	0.33	-0.21	-0.22	0.33	-0.08
	10	O	67669	M	0.15	0.25	-0.08	0.00	0.25	-0.10
	11	O	52680	M	0.44	0.31	-0.17	-0.03	0.31	-0.20
	13	O	64709	M	0.44	0.34	-0.17	-0.06	-0.22	0.34
	14	O	64710	M	0.41	0.39	0.39	-0.02	-0.28	-0.21
	15	O	52665	M	0.73	0.40	-0.24	-0.27	0.40	-0.15
	16	O	52664	M	0.63	0.48	-0.21	-0.32	-0.17	0.48
	17	O	68236	M	0.55	0.40	-0.19	-0.17	-0.20	0.40
	18	L	52779	J	0.33	0.71				
	19	O	65117	M	0.78	0.47	-0.23	0.47	-0.28	-0.22
	20	O	52634	M	0.43	0.52	0.52	-0.22	-0.23	-0.17
	21	O	56848	M	0.47	0.44	-0.15	-0.23	0.44	-0.21
	22	O	56849	M	0.44	0.37	-0.10	0.37	-0.17	-0.20
	23	O	52481	M	0.34	0.27	-0.15	0.01	0.27	-0.15
	27	L	67591	J	0.25	0.76				
	28	O	52470	M	0.60	0.44	-0.23	0.44	-0.22	-0.16
	29	O	52471	M	0.67	0.48	-0.24	0.48	-0.27	-0.20
	30	O	52469	M	0.56	0.45	-0.23	0.45	-0.21	-0.20
	33	L	67604	J	0.30	0.74				
	34	O	55211	M	0.75	0.44	-0.22	0.44	-0.27	-0.17
	35	O	55212	M	0.51	0.36	-0.20	-0.15	0.36	-0.11
	36	O	68294	M	0.42	0.25	0.04	0.25	-0.29	-0.16
	37	O	65068	M	0.81	0.41	-0.16	-0.18	0.41	-0.29
	38	O	65096	M	0.44	0.35	-0.20	-0.12	0.35	-0.18
	39	O	65098	M	0.76	0.39	-0.16	0.39	-0.26	-0.20
	40	O	64703	M	0.60	0.51	-0.27	0.51	-0.27	-0.19
	41	L	52682	J	0.33	0.77				
	42	O	68197	M	0.43	0.22	0.22	-0.16	-0.20	0.10
	43	O	60537	M	0.36	0.28	-0.18	-0.04	-0.10	0.28
	44	O	55250	M	0.67	0.36	-0.15	-0.20	0.36	-0.18
	47	O	52719	M	0.87	0.43	0.43	-0.21	-0.26	-0.22
	48	O	52775	M	0.76	0.51	-0.26	-0.31	-0.22	0.51
	49	O	52776	M	0.76	0.52	-0.27	-0.27	-0.27	0.52
	50	O	52720	M	0.59	0.55	-0.27	-0.25	0.55	-0.30
	51	L	65000	J	0.19	0.82				

Table A19. Summary Item Statistics - Operational Items
Biology May MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
Y	52	O	57088	M	0.56	0.41	-0.24	0.41	-0.26	-0.09
	53	O	54965	M	0.59	0.37	-0.19	0.37	-0.15	-0.19
	54	O	57034	M	0.73	0.53	-0.22	0.53	-0.25	-0.33
	58	O	52741	M	0.30	0.26	-0.19	0.26	-0.17	0.10
	59	O	64995	M	0.72	0.49	-0.31	-0.23	0.49	-0.19
	60	O	68147	M	0.51	0.52	-0.22	-0.19	-0.29	0.52
	62	O	55124	M	0.73	0.49	-0.24	0.49	-0.25	-0.25
	63	O	57024	M	0.59	0.45	-0.23	-0.24	0.45	-0.16
	64	O	56978	M	0.43	0.36	0.36	-0.11	-0.21	-0.11
	65	L	67615	J	0.27	0.81				
	68	O	55221	M	0.69	0.56	-0.24	0.56	-0.25	-0.33
	69	O	55222	M	0.67	0.53	-0.25	-0.29	0.53	-0.23
	70	O	55215	M	0.59	0.53	-0.23	-0.29	0.53	-0.21
	71	O	55007	M	0.47	0.38	-0.04	0.38	-0.26	-0.15

Table A20. Summary Item Statistics - Operational Items

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E	1	O	130029	J	0.56	0.66				
	2	O	130038	M	0.66	0.53	0.53	-0.26	-0.24	-0.29
	3	O	130039	M	0.68	0.53	-0.32	0.53	-0.28	-0.22
	4	O	130292	M	0.59	0.52	-0.25	-0.27	0.52	-0.31
	5	O	130040	M	0.74	0.48	0.48	-0.24	-0.29	-0.23
	6	O	130041	M	0.75	0.53	-0.26	-0.29	0.53	-0.27
	7	L	96175	M	0.81	0.32	-0.25	-0.28	-0.06	0.32
	8	L	96176	M	0.90	0.47	0.47	-0.25	-0.27	-0.26
	9	L	96177	M	0.78	0.38	-0.27	0.38	-0.28	-0.13
	10	L	96178	M	0.70	0.42	-0.23	0.42	-0.20	-0.26
	11	L	96179	M	0.65	0.37	-0.15	-0.31	-0.14	0.37
	12	L	96180	M	0.76	0.47	-0.24	-0.26	-0.27	0.47
	13	L	96181	M	0.69	0.48	-0.21	0.48	-0.29	-0.26
	20	O	130043	M	0.57	0.43	-0.23	-0.32	-0.06	0.43
	21	O	130044	M	0.42	0.43	-0.17	-0.24	-0.14	0.43
	22	O	135485	M	0.64	0.42	-0.12	-0.26	0.42	-0.25
	23	O	130047	M	0.70	0.40	-0.14	0.40	-0.31	-0.17
	24	O	130045	M	0.63	0.45	-0.23	-0.19	0.45	-0.23
	25	O	130046	J	0.43	0.65				
	26	O	135483	J	0.50	0.68				
	27	L	95570	M	0.73	0.49	-0.26	-0.24	-0.27	0.49
	28	L	95571	M	0.75	0.45	-0.20	-0.31	0.45	-0.21
	29	L	95572	M	0.63	0.46	-0.23	0.46	-0.28	-0.19
	30	L	95573	M	0.51	0.48	0.48	-0.34	-0.15	-0.13
	31	L	95574	M	0.37	0.35	-0.21	0.35	-0.10	-0.14
	32	L	95575	M	0.65	0.34	-0.16	0.34	-0.13	-0.24
	33	L	95576	M	0.45	0.34	-0.18	-0.20	-0.08	0.34
	34	L	95577	M	0.81	0.49	0.49	-0.25	-0.33	-0.18
	35	L	95578	M	0.73	0.51	-0.23	-0.28	-0.29	0.51
	36	L	95579	M	0.78	0.53	-0.29	-0.30	0.53	-0.25
	37	L	95580	M	0.74	0.45	-0.25	0.45	-0.25	-0.19
	49	O	108918	M	0.66	0.51	-0.28	-0.31	0.51	-0.20
	50	O	108784	M	0.38	0.50	-0.23	-0.12	-0.22	0.50
	51	O	108925	M	0.80	0.53	-0.30	-0.28	0.53	-0.24
	52	O	108783	M	0.59	0.48	-0.19	-0.27	-0.20	0.48
	53	O	108921	M	0.56	0.46	-0.09	0.46	-0.29	-0.26
	54	O	108919	M	0.67	0.59	-0.27	-0.32	-0.29	0.59
	55	O	108924	M	0.61	0.49	-0.26	0.49	-0.25	-0.17

Table A20. Summary Item Statistics - Operational Items (Continued)

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E	56	O	108922	M	0.34	0.27	-0.18	0.05	-0.20	0.27
	57	O	109739	M	0.65	0.49	0.49	-0.24	-0.26	-0.20
	58	O	108927	J	0.42	0.73				
	59	L	96106	M	0.57	0.22	-0.15	-0.07	0.22	-0.08
	60	L	96107	M	0.77	0.34	0.34	-0.12	-0.22	-0.17
	61	L	96108	M	0.70	0.52	-0.22	0.52	-0.27	-0.26
	62	L	96109	M	0.71	0.51	0.51	-0.27	-0.29	-0.20
	63	L	96110	M	0.86	0.55	-0.27	0.55	-0.31	-0.27
	64	O	130050	M	0.69	0.55	-0.25	0.55	-0.33	-0.21
	65	O	130049	M	0.65	0.50	0.50	-0.31	-0.30	-0.12
	67	O	130030	M	0.86	0.50	-0.26	-0.27	0.50	-0.23
	68	O	130031	M	0.71	0.54	-0.31	-0.23	-0.27	0.54

Table A21. Summary Item Statistics - Operational Items

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
F	1	O	130211	J	0.58	0.71				
	2	O	130066	M	0.73	0.32	-0.10	0.32	-0.11	-0.26
	3	O	130067	M	0.53	0.51	-0.31	-0.26	0.51	-0.15
	4	O	130069	M	0.56	0.36	-0.25	-0.08	-0.18	0.36
	5	O	130074	M	0.72	0.46	-0.27	0.46	-0.29	-0.19
	6	O	130199	M	0.71	0.40	0.40	-0.26	-0.26	-0.12
	7	L	96175	M	0.81	0.32	-0.25	-0.28	-0.06	0.32
	8	L	96176	M	0.90	0.47	0.47	-0.25	-0.27	-0.26
	9	L	96177	M	0.78	0.38	-0.27	0.38	-0.28	-0.13
	10	L	96178	M	0.70	0.42	-0.23	0.42	-0.20	-0.26
	11	L	96179	M	0.65	0.37	-0.15	-0.31	-0.14	0.37
	12	L	96180	M	0.76	0.47	-0.24	-0.26	-0.27	0.47
	13	L	96181	M	0.69	0.48	-0.21	0.48	-0.29	-0.26
	14	O	130061	M	0.61	0.36	0.36	-0.24	-0.26	-0.06
	15	O	130062	M	0.47	0.51	-0.24	-0.25	-0.17	0.51
	16	O	130063	M	0.68	0.51	-0.26	-0.31	0.51	-0.25
	17	O	130201	M	0.66	0.50	-0.21	-0.21	0.50	-0.31
	18	O	130064	M	0.69	0.47	-0.23	-0.29	0.47	-0.23
	19	O	130065	J	0.46	0.71				
	23	O	108690	J	0.47	0.68				
	24	L	95570	M	0.73	0.49	-0.26	-0.24	-0.27	0.49
	25	L	95571	M	0.75	0.45	-0.20	-0.31	0.45	-0.21
	26	L	95572	M	0.63	0.46	-0.23	0.46	-0.28	-0.19
	27	L	95573	M	0.51	0.48	0.48	-0.34	-0.15	-0.13
	28	L	95574	M	0.37	0.35	-0.21	0.35	-0.10	-0.14
	29	L	95575	M	0.65	0.34	-0.16	0.34	-0.13	-0.24
	30	L	95576	M	0.45	0.34	-0.18	-0.20	-0.08	0.34
	31	L	95577	M	0.81	0.49	0.49	-0.25	-0.33	-0.18
	32	L	95578	M	0.73	0.51	-0.23	-0.28	-0.29	0.51
	33	L	95579	M	0.78	0.53	-0.29	-0.30	0.53	-0.25
	34	L	95580	M	0.74	0.45	-0.25	0.45	-0.25	-0.19
	49	O	130213	M	0.71	0.55	0.55	-0.29	-0.32	-0.23
	50	O	130214	M	0.75	0.54	-0.29	0.54	-0.28	-0.28
	51	O	108828	M	0.77	0.48	-0.26	-0.30	0.48	-0.18
	52	O	108831	M	0.51	0.32	0.32	-0.03	-0.34	-0.22
	54	O	108830	M	0.68	0.52	-0.29	-0.28	-0.21	0.52
	55	O	130204	M	0.54	0.41	0.41	-0.27	-0.10	-0.21

Table A21. Summary Item Statistics - Operational Items (Continued)

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
F	56	O	108835	M	0.76	0.53	-0.28	0.53	-0.32	-0.23
	57	O	108832	M	0.69	0.56	0.56	-0.31	-0.30	-0.21
	58	O	108829	M	0.78	0.60	-0.31	-0.32	-0.31	0.60
	59	O	171382	M	0.48	0.47	0.47	-0.29	-0.17	-0.21
	60	O	130205	M	0.75	0.54	-0.28	0.54	-0.32	-0.23
	61	O	130206	J	0.45	0.71				
	62	L	96106	M	0.57	0.22	-0.15	-0.07	0.22	-0.08
	63	L	96107	M	0.77	0.34	0.34	-0.12	-0.22	-0.17
	64	L	96108	M	0.70	0.52	-0.22	0.52	-0.27	-0.26
	65	L	96109	M	0.71	0.51	0.51	-0.27	-0.29	-0.20
	66	L	96110	M	0.86	0.55	-0.27	0.55	-0.31	-0.27
	67	O	130075	M	0.51	0.40	-0.22	-0.24	0.40	-0.07
	68	O	130076	M	0.67	0.44	-0.12	-0.25	-0.28	0.44

Table A22. Summary Item Statistics - Operational Items

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
G	1	O	130215	J	0.59	0.64				
	2	O	130081	M	0.77	0.33	-0.10	-0.24	0.33	-0.16
	3	O	130082	M	0.41	0.44	0.44	-0.25	-0.15	-0.18
	4	O	130083	M	0.77	0.45	0.45	-0.26	-0.19	-0.28
	5	O	130084	M	0.83	0.44	-0.27	-0.25	0.44	-0.19
	6	O	130085	M	0.79	0.47	-0.22	-0.22	-0.29	0.47
	7	L	96175	M	0.81	0.32	-0.25	-0.28	-0.06	0.32
	8	L	96176	M	0.90	0.47	0.47	-0.25	-0.27	-0.26
	9	L	96177	M	0.78	0.38	-0.27	0.38	-0.28	-0.13
	10	L	96178	M	0.70	0.42	-0.23	0.42	-0.20	-0.26
	11	L	96179	M	0.65	0.37	-0.15	-0.31	-0.14	0.37
	12	L	96180	M	0.76	0.47	-0.24	-0.26	-0.27	0.47
	13	L	96181	M	0.69	0.48	-0.21	0.48	-0.29	-0.26
	23	O	108709	J	0.50	0.65				
	24	L	95570	M	0.73	0.49	-0.26	-0.24	-0.27	0.49
	25	L	95571	M	0.75	0.45	-0.20	-0.31	0.45	-0.21
	26	L	95572	M	0.63	0.46	-0.23	0.46	-0.28	-0.19
	27	L	95573	M	0.51	0.48	0.48	-0.34	-0.15	-0.13
	28	L	95574	M	0.37	0.35	-0.21	0.35	-0.10	-0.14
	29	L	95575	M	0.65	0.34	-0.16	0.34	-0.13	-0.24
	30	L	95576	M	0.45	0.34	-0.18	-0.20	-0.08	0.34
	31	L	95577	M	0.81	0.49	0.49	-0.25	-0.33	-0.18
	32	L	95578	M	0.73	0.51	-0.23	-0.28	-0.29	0.51
	33	L	95579	M	0.78	0.53	-0.29	-0.30	0.53	-0.25
	34	L	95580	M	0.74	0.45	-0.25	0.45	-0.25	-0.19
	37	O	130219	M	0.74	0.47	-0.23	-0.25	0.47	-0.22
	38	O	130222	M	0.61	0.32	-0.14	-0.10	0.32	-0.24
	39	O	130220	M	0.71	0.52	-0.28	0.52	-0.27	-0.23
	40	O	130221	M	0.70	0.53	-0.30	0.53	-0.29	-0.22
	41	O	130226	M	0.66	0.51	-0.27	-0.27	0.51	-0.19
	45	O	130228	J	0.43	0.71				
	46	O	96147	M	0.84	0.26	0.26	-0.08	-0.23	-0.11
	47	O	96148	M	0.85	0.39	-0.18	-0.21	0.39	-0.21
	48	O	96149	M	0.73	0.49	0.49	-0.22	-0.28	-0.26
	49	O	96150	M	0.57	0.42	-0.21	-0.24	-0.10	0.42
	50	O	96156	J	0.46	0.71				
	51	O	96151	M	0.42	0.40	-0.13	-0.20	-0.14	0.40
	52	O	96152	M	0.46	0.37	-0.13	0.37	-0.13	-0.23
	55	O	96155	M	0.52	0.37	-0.07	-0.29	0.37	-0.26

Table A22. Summary Item Statistics - Operational Items (Continued)

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
G	57	O	130090	M	0.74	0.54	0.54	-0.26	-0.31	-0.23
	58	O	130091	M	0.72	0.50	-0.24	-0.26	0.50	-0.24
	59	L	96106	M	0.57	0.22	-0.15	-0.07	0.22	-0.08
	60	L	96107	M	0.77	0.34	0.34	-0.12	-0.22	-0.17
	61	L	96108	M	0.70	0.52	-0.22	0.52	-0.27	-0.26
	62	L	96109	M	0.71	0.51	0.51	-0.27	-0.29	-0.20
	63	L	96110	M	0.86	0.55	-0.27	0.55	-0.31	-0.27
	65	O	108883	M	0.71	0.47	0.47	-0.23	-0.23	-0.21
	69	O	109138	M	0.60	0.52	0.52	-0.20	-0.28	-0.26
	71	O	130087	M	0.79	0.53	0.53	-0.25	-0.30	-0.24
	72	O	130088	M	0.69	0.55	-0.23	-0.29	-0.28	0.55

Table A23. Summary Item Statistics - Operational Items

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
H	1	O	130229	J	0.60	0.68				
	2	O	130230	M	0.48	0.29	-0.15	0.29	-0.08	-0.21
	3	O	130231	M	0.85	0.39	-0.24	-0.23	-0.19	0.39
	4	O	130233	M	0.34	0.30	-0.19	-0.20	-0.09	0.30
	5	O	130232	M	0.67	0.31	0.31	-0.26	-0.23	-0.03
	6	O	130234	M	0.85	0.45	0.45	-0.23	-0.26	-0.24
	7	L	96175	M	0.81	0.32	-0.25	-0.28	-0.06	0.32
	8	L	96176	M	0.90	0.47	0.47	-0.25	-0.27	-0.26
	9	L	96177	M	0.78	0.38	-0.27	0.38	-0.28	-0.13
	10	L	96178	M	0.70	0.42	-0.23	0.42	-0.20	-0.26
	11	L	96179	M	0.65	0.37	-0.15	-0.31	-0.14	0.37
	12	L	96180	M	0.76	0.47	-0.24	-0.26	-0.27	0.47
	13	L	96181	M	0.69	0.48	-0.21	0.48	-0.29	-0.26
	19	O	130092	M	0.72	0.45	-0.25	-0.28	0.45	-0.17
	20	O	130093	M	0.68	0.43	-0.26	-0.23	0.43	-0.11
	21	O	135486	M	0.76	0.58	-0.26	-0.33	-0.30	0.58
	22	O	130095	M	0.59	0.45	-0.29	-0.30	-0.12	0.45
	23	O	130235	M	0.79	0.54	-0.26	-0.30	0.54	-0.27
	24	O	130236	J	0.47	0.64				
	25	O	130285	J	0.53	0.68				
	26	L	95570	M	0.73	0.49	-0.26	-0.24	-0.27	0.49
	27	L	95571	M	0.75	0.45	-0.20	-0.31	0.45	-0.21
	28	L	95572	M	0.63	0.46	-0.23	0.46	-0.28	-0.19
	29	L	95573	M	0.51	0.48	0.48	-0.34	-0.15	-0.13
	30	L	95574	M	0.37	0.35	-0.21	0.35	-0.10	-0.14
	31	L	95575	M	0.65	0.34	-0.16	0.34	-0.13	-0.24
	32	L	95576	M	0.45	0.34	-0.18	-0.20	-0.08	0.34
	33	L	95577	M	0.81	0.49	0.49	-0.25	-0.33	-0.18
	34	L	95578	M	0.73	0.51	-0.23	-0.28	-0.29	0.51
	35	L	95579	M	0.78	0.53	-0.29	-0.30	0.53	-0.25
	36	L	95580	M	0.74	0.45	-0.25	0.45	-0.25	-0.19
	51	O	108918	M	0.66	0.51	-0.28	-0.31	0.51	-0.20
	52	O	108784	M	0.38	0.50	-0.23	-0.12	-0.22	0.50
	53	O	108925	M	0.80	0.53	-0.30	-0.28	0.53	-0.24
	54	O	108783	M	0.59	0.48	-0.19	-0.27	-0.20	0.48
	55	O	108921	M	0.56	0.46	-0.09	0.46	-0.29	-0.26

Table A23. Summary Item Statistics - Operational Items (Continued)

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
H	56	O	108919	M	0.67	0.59	-0.27	-0.32	-0.29	0.59
	57	O	108924	M	0.61	0.49	-0.26	0.49	-0.25	-0.17
	58	O	108922	M	0.34	0.27	-0.18	0.05	-0.20	0.27
	59	O	109739	M	0.65	0.49	0.49	-0.24	-0.26	-0.20
	60	O	108927	J	0.42	0.73				
	61	L	96106	M	0.57	0.22	-0.15	-0.07	0.22	-0.08
	62	L	96107	M	0.77	0.34	0.34	-0.12	-0.22	-0.17
	63	L	96108	M	0.70	0.52	-0.22	0.52	-0.27	-0.26
	64	L	96109	M	0.71	0.51	0.51	-0.27	-0.29	-0.20
	65	L	96110	M	0.86	0.55	-0.27	0.55	-0.31	-0.27
	66	O	130238	M	0.81	0.57	0.57	-0.31	-0.28	-0.28
	67	O	130239	M	0.82	0.55	-0.26	0.55	-0.32	-0.26
	71	O	130106	M	0.51	0.35	-0.27	-0.16	0.35	-0.04
	72	O	130107	M	0.57	0.46	-0.27	0.46	-0.21	-0.21

Table A24. Summary Item Statistics - Operational Items

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
J	1	O	135487	J	0.58	0.60				
	2	O	130112	M	0.62	0.43	-0.18	-0.25	-0.19	0.43
	3	O	130108	M	0.72	0.49	0.49	-0.21	-0.32	-0.22
	4	O	130116	M	0.75	0.48	0.48	-0.22	-0.31	-0.24
	5	O	130117	M	0.63	0.48	-0.21	-0.23	0.48	-0.29
	6	O	130129	M	0.75	0.43	-0.20	0.43	-0.15	-0.31
	7	L	96175	M	0.81	0.32	-0.25	-0.28	-0.06	0.32
	8	L	96176	M	0.90	0.47	0.47	-0.25	-0.27	-0.26
	9	L	96177	M	0.78	0.38	-0.27	0.38	-0.28	-0.13
	10	L	96178	M	0.70	0.42	-0.23	0.42	-0.20	-0.26
	11	L	96179	M	0.65	0.37	-0.15	-0.31	-0.14	0.37
	12	L	96180	M	0.76	0.47	-0.24	-0.26	-0.27	0.47
	13	L	96181	M	0.69	0.48	-0.21	0.48	-0.29	-0.26
	14	O	108806	M	0.72	0.48	-0.25	-0.24	-0.27	0.48
	15	O	108808	M	0.52	0.21	-0.09	0.21	-0.08	-0.14
	16	O	108779	M	0.82	0.49	-0.31	-0.24	0.49	-0.21
	19	O	130246	M	0.57	0.45	-0.16	-0.30	-0.16	0.45
	20	O	108810	M	0.69	0.43	-0.26	-0.24	0.43	-0.18
	21	O	108807	J	0.50	0.70				
	25	O	108691	J	0.52	0.67				
	26	L	95570	M	0.73	0.49	-0.26	-0.24	-0.27	0.49
	27	L	95571	M	0.75	0.45	-0.20	-0.31	0.45	-0.21
	28	L	95572	M	0.63	0.46	-0.23	0.46	-0.28	-0.19
	29	L	95573	M	0.51	0.48	0.48	-0.34	-0.15	-0.13
	30	L	95574	M	0.37	0.35	-0.21	0.35	-0.10	-0.14
	31	L	95575	M	0.65	0.34	-0.16	0.34	-0.13	-0.24
	32	L	95576	M	0.45	0.34	-0.18	-0.20	-0.08	0.34
	33	L	95577	M	0.81	0.49	0.49	-0.25	-0.33	-0.18
	34	L	95578	M	0.73	0.51	-0.23	-0.28	-0.29	0.51
	35	L	95579	M	0.78	0.53	-0.29	-0.30	0.53	-0.25
	36	L	95580	M	0.74	0.45	-0.25	0.45	-0.25	-0.19
	47	O	130138	M	0.75	0.47	0.47	-0.23	-0.25	-0.23
	49	O	130140	M	0.49	0.47	-0.12	-0.28	-0.20	0.47
	50	O	130118	M	0.81	0.49	-0.30	0.49	-0.26	-0.19
	52	O	130120	M	0.41	0.38	-0.18	0.38	-0.29	-0.01
	53	O	130121	M	0.66	0.47	-0.26	-0.23	0.47	-0.22
	54	O	130122	M	0.59	0.43	-0.19	-0.18	-0.29	0.43
	55	O	130123	M	0.70	0.57	-0.34	-0.29	-0.28	0.57

Table A24. Summary Item Statistics - Operational Items (Continued)

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
J	56	O	130124	M	0.80	0.51	-0.30	-0.27	0.51	-0.24
	57	O	130125	M	0.56	0.21	-0.16	0.21	-0.01	-0.23
	58	O	130126	M	0.78	0.53	-0.28	-0.30	0.53	-0.24
	60	O	135489	M	0.41	0.38	-0.05	-0.27	0.38	-0.13
	61	O	130247	J	0.50	0.71				
	62	L	96106	M	0.57	0.22	-0.15	-0.07	0.22	-0.08
	63	L	96107	M	0.77	0.34	0.34	-0.12	-0.22	-0.17
	64	L	96108	M	0.70	0.52	-0.22	0.52	-0.27	-0.26
	65	L	96109	M	0.71	0.51	0.51	-0.27	-0.29	-0.20
	66	L	96110	M	0.86	0.55	-0.27	0.55	-0.31	-0.27
	67	O	130248	M	0.76	0.47	-0.29	0.47	-0.28	-0.14
	68	O	130249	M	0.44	0.38	0.00	0.38	-0.22	-0.26

Table A25. Summary Item Statistics - Operational Items

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
K	1	O	108706	J	0.58	0.61				
	2	O	130295	M	0.85	0.35	-0.20	-0.21	-0.19	0.35
	3	O	130299	M	0.45	0.34	0.00	-0.32	-0.22	0.34
	5	O	130254	M	0.69	0.47	-0.31	-0.17	0.47	-0.25
	6	O	130301	M	0.62	0.43	-0.24	0.43	-0.20	-0.24
	7	L	96175	M	0.81	0.32	-0.25	-0.28	-0.06	0.32
	8	L	96176	M	0.90	0.47	0.47	-0.25	-0.27	-0.26
	9	L	96177	M	0.78	0.38	-0.27	0.38	-0.28	-0.13
	10	L	96178	M	0.70	0.42	-0.23	0.42	-0.20	-0.26
	11	L	96179	M	0.65	0.37	-0.15	-0.31	-0.14	0.37
	12	L	96180	M	0.76	0.47	-0.24	-0.26	-0.27	0.47
	13	L	96181	M	0.69	0.48	-0.21	0.48	-0.29	-0.26
	14	O	108700	M	0.62	0.43	-0.21	-0.28	0.43	-0.10
	15	O	108703	M	0.62	0.41	-0.22	-0.17	0.41	-0.18
	16	O	108702	M	0.40	0.27	-0.05	0.27	-0.21	-0.12
	18	O	108701	M	0.74	0.42	-0.25	-0.31	0.42	-0.12
	19	O	130959	M	0.63	0.36	-0.11	0.36	-0.28	-0.16
	20	O	108705	J	0.47	0.69				
	24	O	108688	J	0.53	0.65				
	25	L	95570	M	0.73	0.49	-0.26	-0.24	-0.27	0.49
	26	L	95571	M	0.75	0.45	-0.20	-0.31	0.45	-0.21
	27	L	95572	M	0.63	0.46	-0.23	0.46	-0.28	-0.19
	28	L	95573	M	0.51	0.48	0.48	-0.34	-0.15	-0.13
	29	L	95574	M	0.37	0.35	-0.21	0.35	-0.10	-0.14
	30	L	95575	M	0.65	0.34	-0.16	0.34	-0.13	-0.24
	31	L	95576	M	0.45	0.34	-0.18	-0.20	-0.08	0.34
	32	L	95577	M	0.81	0.49	0.49	-0.25	-0.33	-0.18
	33	L	95578	M	0.73	0.51	-0.23	-0.28	-0.29	0.51
	34	L	95579	M	0.78	0.53	-0.29	-0.30	0.53	-0.25
	35	L	95580	M	0.74	0.45	-0.25	0.45	-0.25	-0.19
	44	O	130253	M	0.76	0.54	0.54	-0.27	-0.32	-0.24
	46	O	130142	M	0.75	0.43	-0.26	-0.25	0.43	-0.12
	47	O	130143	M	0.70	0.43	-0.15	-0.26	0.43	-0.24
	48	O	130144	M	0.69	0.47	-0.27	-0.23	-0.21	0.47
	49	O	130145	M	0.49	0.36	-0.11	-0.27	-0.08	0.36
	50	O	130146	M	0.83	0.46	-0.20	-0.20	-0.30	0.46
	51	O	130147	M	0.72	0.54	0.54	-0.30	-0.30	-0.22
	54	O	130150	M	0.85	0.58	-0.30	-0.30	-0.32	0.58
	55	O	130151	M	0.55	0.39	0.39	-0.16	-0.26	-0.21

Table A25. Summary Item Statistics - Operational Items (Continued)

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
K	56	O	130152	M	0.54	0.44	-0.23	-0.14	-0.23	0.44
	57	O	130153	J	0.45	0.71				
	58	L	96106	M	0.57	0.22	-0.15	-0.07	0.22	-0.08
	59	L	96107	M	0.77	0.34	0.34	-0.12	-0.22	-0.17
	60	L	96108	M	0.70	0.52	-0.22	0.52	-0.27	-0.26
	61	L	96109	M	0.71	0.51	0.51	-0.27	-0.29	-0.20
	62	L	96110	M	0.86	0.55	-0.27	0.55	-0.31	-0.27
	64	O	130256	M	0.79	0.48	-0.26	0.48	-0.23	-0.24
	65	O	130257	M	0.78	0.53	0.53	-0.27	-0.26	-0.25
	74	O	109099	M	0.53	0.21	-0.16	0.21	-0.05	-0.02
	75	O	109100	M	0.73	0.51	-0.26	-0.22	0.51	-0.27

Table A26. Summary Item Statistics - Operational Items

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
L	1	O	130154	J	0.58	0.61				
	2	O	130258	M	0.76	0.23	0.23	-0.12	-0.15	-0.15
	3	O	96120	M	0.57	0.41	0.41	-0.20	-0.24	-0.16
	4	O	96121	M	0.84	0.42	-0.23	0.42	-0.25	-0.20
	5	O	96122	M	0.75	0.35	-0.19	-0.16	0.35	-0.26
	6	O	96123	M	0.47	0.26	-0.17	-0.13	0.26	-0.09
	7	L	96175	M	0.81	0.32	-0.25	-0.28	-0.06	0.32
	8	L	96176	M	0.90	0.47	0.47	-0.25	-0.27	-0.26
	9	L	96177	M	0.78	0.38	-0.27	0.38	-0.28	-0.13
	10	L	96178	M	0.70	0.42	-0.23	0.42	-0.20	-0.26
	11	L	96179	M	0.65	0.37	-0.15	-0.31	-0.14	0.37
	12	L	96180	M	0.76	0.47	-0.24	-0.26	-0.27	0.47
	13	L	96181	M	0.69	0.48	-0.21	0.48	-0.29	-0.26
	20	O	96137	M	0.62	0.32	0.32	-0.04	-0.28	-0.23
	21	O	96138	M	0.68	0.41	-0.24	-0.18	0.41	-0.22
	22	O	96139	M	0.83	0.56	-0.30	-0.25	-0.34	0.56
	23	O	96140	M	0.67	0.48	-0.21	-0.22	-0.30	0.48
	25	O	96142	J	0.51	0.66				
	26	O	135490	J	0.53	0.64				
	27	L	95570	M	0.73	0.49	-0.26	-0.24	-0.27	0.49
	28	L	95571	M	0.75	0.45	-0.20	-0.31	0.45	-0.21
	29	L	95572	M	0.63	0.46	-0.23	0.46	-0.28	-0.19
	30	L	95573	M	0.51	0.48	0.48	-0.34	-0.15	-0.13
	31	L	95574	M	0.37	0.35	-0.21	0.35	-0.10	-0.14
	32	L	95575	M	0.65	0.34	-0.16	0.34	-0.13	-0.24
	33	L	95576	M	0.45	0.34	-0.18	-0.20	-0.08	0.34
	34	L	95577	M	0.81	0.49	0.49	-0.25	-0.33	-0.18
	35	L	95578	M	0.73	0.51	-0.23	-0.28	-0.29	0.51
	36	L	95579	M	0.78	0.53	-0.29	-0.30	0.53	-0.25
	37	L	95580	M	0.74	0.45	-0.25	0.45	-0.25	-0.19
	49	O	95981	M	0.64	0.45	-0.18	-0.21	-0.29	0.45
	50	O	95982	M	0.72	0.37	-0.11	-0.24	-0.27	0.37
	51	O	95983	M	0.64	0.46	-0.24	-0.24	-0.20	0.46
	52	O	95984	M	0.75	0.50	-0.28	-0.29	0.50	-0.19
	53	O	130260	M	0.58	0.26	-0.25	0.26	0.00	-0.22
	54	O	95986	M	0.78	0.46	-0.20	0.46	-0.29	-0.21
	55	O	95987	J	0.47	0.66				

Table A26. Summary Item Statistics - Operational Items (Continued)

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
L	56	O	130261	M	0.65	0.32	-0.12	0.32	-0.29	-0.04
	57	O	95989	M	0.42	0.39	-0.18	0.39	-0.18	-0.14
	58	O	95990	M	0.50	0.43	-0.13	-0.21	-0.21	0.43
	59	L	96106	M	0.57	0.22	-0.15	-0.07	0.22	-0.08
	60	L	96107	M	0.77	0.34	0.34	-0.12	-0.22	-0.17
	61	L	96108	M	0.70	0.52	-0.22	0.52	-0.27	-0.26
	62	L	96109	M	0.71	0.51	0.51	-0.27	-0.29	-0.20
	63	L	96110	M	0.86	0.55	-0.27	0.55	-0.31	-0.27
	64	O	130262	M	0.66	0.35	-0.18	-0.14	0.35	-0.20
	65	O	130263	M	0.77	0.48	-0.25	-0.23	0.48	-0.24
	67	O	96225	M	0.65	0.44	-0.19	-0.24	0.44	-0.19
	68	O	130266	M	0.68	0.45	-0.22	-0.23	-0.20	0.45
	73	O	96229	M	0.54	0.38	0.38	-0.27	-0.28	-0.04

Table A27. Summary Item Statistics - Operational Items

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
M	1	O	130268	J	0.60	0.62				
	2	O	130269	M	0.74	0.42	-0.27	-0.22	0.42	-0.22
	3	O	130272	M	0.37	0.33	-0.05	-0.08	-0.24	0.33
	4	O	130273	M	0.73	0.39	-0.19	-0.25	0.39	-0.15
	5	O	130279	M	0.67	0.45	-0.27	-0.21	0.45	-0.21
	6	O	130169	M	0.84	0.43	-0.21	0.43	-0.27	-0.22
	7	L	96175	M	0.81	0.32	-0.25	-0.28	-0.06	0.32
	8	L	96176	M	0.90	0.47	0.47	-0.25	-0.27	-0.26
	9	L	96177	M	0.78	0.38	-0.27	0.38	-0.28	-0.13
	10	L	96178	M	0.70	0.42	-0.23	0.42	-0.20	-0.26
	11	L	96179	M	0.65	0.37	-0.15	-0.31	-0.14	0.37
	12	L	96180	M	0.76	0.47	-0.24	-0.26	-0.27	0.47
	13	L	96181	M	0.69	0.48	-0.21	0.48	-0.29	-0.26
	14	O	108901	M	0.82	0.44	-0.23	-0.22	0.44	-0.25
	15	O	108902	M	0.59	0.40	-0.17	-0.28	0.40	-0.08
	17	O	108904	M	0.78	0.45	0.45	-0.23	-0.29	-0.21
	19	O	108906	M	0.77	0.46	-0.28	-0.30	-0.23	0.46
	20	O	130270	M	0.58	0.24	-0.24	0.24	-0.22	0.02
	21	O	109858	J	0.46	0.66				
	25	O	108685	J	0.54	0.64				
	26	L	95570	M	0.73	0.49	-0.26	-0.24	-0.27	0.49
	27	L	95571	M	0.75	0.45	-0.20	-0.31	0.45	-0.21
	28	L	95572	M	0.63	0.46	-0.23	0.46	-0.28	-0.19
	29	L	95573	M	0.51	0.48	0.48	-0.34	-0.15	-0.13
	30	L	95574	M	0.37	0.35	-0.21	0.35	-0.10	-0.14
	31	L	95575	M	0.65	0.34	-0.16	0.34	-0.13	-0.24
	32	L	95576	M	0.45	0.34	-0.18	-0.20	-0.08	0.34
	33	L	95577	M	0.81	0.49	0.49	-0.25	-0.33	-0.18
	34	L	95578	M	0.73	0.51	-0.23	-0.28	-0.29	0.51
	35	L	95579	M	0.78	0.53	-0.29	-0.30	0.53	-0.25
	36	L	95580	M	0.74	0.45	-0.25	0.45	-0.25	-0.19
	48	O	130276	M	0.52	0.40	-0.15	-0.19	0.40	-0.25
	49	O	130277	M	0.56	0.41	-0.14	-0.22	-0.20	0.41
	51	O	130173	M	0.82	0.47	0.47	-0.31	-0.25	-0.16
	52	O	130174	M	0.76	0.55	-0.25	0.55	-0.34	-0.24
	53	O	130280	M	0.72	0.46	0.46	-0.30	-0.26	-0.19
	54	O	135492	M	0.53	0.34	0.34	-0.21	-0.10	-0.14
	55	O	130175	M	0.82	0.54	-0.27	0.54	-0.29	-0.29

Table A27. Summary Item Statistics - Operational Items (Continued)

English May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
M	56	O	130176	M	0.84	0.52	0.52	-0.30	-0.32	-0.20
	57	O	130177	M	0.78	0.49	-0.29	-0.27	0.49	-0.22
	58	O	130178	M	0.73	0.48	0.48	-0.30	-0.20	-0.23
	59	O	130179	J	0.42	0.72				
	60	L	96106	M	0.57	0.22	-0.15	-0.07	0.22	-0.08
	61	L	96107	M	0.77	0.34	0.34	-0.12	-0.22	-0.17
	62	L	96108	M	0.70	0.52	-0.22	0.52	-0.27	-0.26
	63	L	96109	M	0.71	0.51	0.51	-0.27	-0.29	-0.20
	64	L	96110	M	0.86	0.55	-0.27	0.55	-0.31	-0.27
	65	O	130305	M	0.24	0.19	0.06	-0.25	-0.15	0.19
	66	O	130304	M	0.68	0.40	-0.08	0.40	-0.26	-0.26
	72	O	108800	M	0.81	0.56	-0.29	-0.32	0.56	-0.26

Table A28. Summary Item Statistics - Operational Items
English May MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
X	1	O	130211	J	0.58	0.71				
	2	O	130066	M	0.73	0.32	-0.10	0.32	-0.11	-0.26
	3	O	130067	M	0.53	0.51	-0.31	-0.26	0.51	-0.15
	4	O	130069	M	0.56	0.36	-0.25	-0.08	-0.18	0.36
	5	O	130074	M	0.72	0.46	-0.27	0.46	-0.29	-0.19
	6	O	130199	M	0.71	0.40	0.40	-0.26	-0.26	-0.12
	7	L	96175	M	0.81	0.32	-0.25	-0.28	-0.06	0.32
	8	L	96176	M	0.90	0.47	0.47	-0.25	-0.27	-0.26
	9	L	96177	M	0.78	0.38	-0.27	0.38	-0.28	-0.13
	10	L	96178	M	0.70	0.42	-0.23	0.42	-0.20	-0.26
	11	L	96179	M	0.65	0.37	-0.15	-0.31	-0.14	0.37
	12	L	96180	M	0.76	0.47	-0.24	-0.26	-0.27	0.47
	13	L	96181	M	0.69	0.48	-0.21	0.48	-0.29	-0.26
	14	O	130061	M	0.61	0.36	0.36	-0.24	-0.26	-0.06
	15	O	130062	M	0.47	0.51	-0.24	-0.25	-0.17	0.51
	16	O	130063	M	0.68	0.51	-0.26	-0.31	0.51	-0.25
	17	O	130201	M	0.66	0.50	-0.21	-0.21	0.50	-0.31
	18	O	130064	M	0.69	0.47	-0.23	-0.29	0.47	-0.23
	19	O	130065	J	0.46	0.71				
	23	O	108690	J	0.47	0.68				
	24	L	95570	M	0.73	0.49	-0.26	-0.24	-0.27	0.49
	25	L	95571	M	0.75	0.45	-0.20	-0.31	0.45	-0.21
	26	L	95572	M	0.63	0.46	-0.23	0.46	-0.28	-0.19
	27	L	95573	M	0.51	0.48	0.48	-0.34	-0.15	-0.13
	28	L	95574	M	0.37	0.35	-0.21	0.35	-0.10	-0.14
	29	L	95575	M	0.65	0.34	-0.16	0.34	-0.13	-0.24
	30	L	95576	M	0.45	0.34	-0.18	-0.20	-0.08	0.34
	31	L	95577	M	0.81	0.49	0.49	-0.25	-0.33	-0.18
	32	L	95578	M	0.73	0.51	-0.23	-0.28	-0.29	0.51
	33	L	95579	M	0.78	0.53	-0.29	-0.30	0.53	-0.25
	34	L	95580	M	0.74	0.45	-0.25	0.45	-0.25	-0.19
	49	O	130213	M	0.71	0.55	0.55	-0.29	-0.32	-0.23
	50	O	130214	M	0.75	0.54	-0.29	0.54	-0.28	-0.28
	51	O	108828	M	0.77	0.48	-0.26	-0.30	0.48	-0.18
	52	O	108831	M	0.51	0.32	0.32	-0.03	-0.34	-0.22
	54	O	108830	M	0.68	0.52	-0.29	-0.28	-0.21	0.52
	55	O	130204	M	0.54	0.41	0.41	-0.27	-0.10	-0.21

Table A28. Summary Item Statistics - Operational Items (Continued)

English May MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
X	56	O	108835	M	0.76	0.53	-0.28	0.53	-0.32	-0.23
	57	O	108832	M	0.69	0.56	0.56	-0.31	-0.30	-0.21
	58	O	108829	M	0.78	0.60	-0.31	-0.32	-0.31	0.60
	59	O	171382	M	0.48	0.47	0.47	-0.29	-0.17	-0.21
	60	O	130205	M	0.75	0.54	-0.28	0.54	-0.32	-0.23
	61	O	130206	J	0.45	0.71				
	62	L	96106	M	0.57	0.22	-0.15	-0.07	0.22	-0.08
	63	L	96107	M	0.77	0.34	0.34	-0.12	-0.22	-0.17
	64	L	96108	M	0.70	0.52	-0.22	0.52	-0.27	-0.26
	65	L	96109	M	0.71	0.51	0.51	-0.27	-0.29	-0.20
	66	L	96110	M	0.86	0.55	-0.27	0.55	-0.31	-0.27
	67	O	130075	M	0.51	0.40	-0.22	-0.24	0.40	-0.07
	68	O	130076	M	0.67	0.44	-0.12	-0.25	-0.28	0.44

Table A29. Summary Item Statistics - Operational Items

English May MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
Y	1	O	130229	J	0.60	0.68				
	2	O	130230	M	0.48	0.29	-0.15	0.29	-0.08	-0.21
	3	O	130231	M	0.85	0.39	-0.24	-0.23	-0.19	0.39
	4	O	130233	M	0.34	0.30	-0.19	-0.20	-0.09	0.30
	5	O	130232	M	0.67	0.31	0.31	-0.26	-0.23	-0.03
	6	O	130234	M	0.85	0.45	0.45	-0.23	-0.26	-0.24
	7	L	96175	M	0.81	0.32	-0.25	-0.28	-0.06	0.32
	8	L	96176	M	0.90	0.47	0.47	-0.25	-0.27	-0.26
	9	L	96177	M	0.78	0.38	-0.27	0.38	-0.28	-0.13
	10	L	96178	M	0.70	0.42	-0.23	0.42	-0.20	-0.26
	11	L	96179	M	0.65	0.37	-0.15	-0.31	-0.14	0.37
	12	L	96180	M	0.76	0.47	-0.24	-0.26	-0.27	0.47
	13	L	96181	M	0.69	0.48	-0.21	0.48	-0.29	-0.26
	19	O	130092	M	0.72	0.45	-0.25	-0.28	0.45	-0.17
	20	O	130093	M	0.68	0.43	-0.26	-0.23	0.43	-0.11
	21	O	135486	M	0.76	0.58	-0.26	-0.33	-0.30	0.58
	22	O	130095	M	0.59	0.45	-0.29	-0.30	-0.12	0.45
	23	O	130235	M	0.79	0.54	-0.26	-0.30	0.54	-0.27
	24	O	130236	J	0.47	0.64				
	25	O	130285	J	0.53	0.68				
	26	L	95570	M	0.73	0.49	-0.26	-0.24	-0.27	0.49
	27	L	95571	M	0.75	0.45	-0.20	-0.31	0.45	-0.21
	28	L	95572	M	0.63	0.46	-0.23	0.46	-0.28	-0.19
	29	L	95573	M	0.51	0.48	0.48	-0.34	-0.15	-0.13
	30	L	95574	M	0.37	0.35	-0.21	0.35	-0.10	-0.14
	31	L	95575	M	0.65	0.34	-0.16	0.34	-0.13	-0.24
	32	L	95576	M	0.45	0.34	-0.18	-0.20	-0.08	0.34
	33	L	95577	M	0.81	0.49	0.49	-0.25	-0.33	-0.18
	34	L	95578	M	0.73	0.51	-0.23	-0.28	-0.29	0.51
	35	L	95579	M	0.78	0.53	-0.29	-0.30	0.53	-0.25
	36	L	95580	M	0.74	0.45	-0.25	0.45	-0.25	-0.19
	51	O	108918	M	0.66	0.51	-0.28	-0.31	0.51	-0.20
	52	O	108784	M	0.38	0.50	-0.23	-0.12	-0.22	0.50
	53	O	108925	M	0.80	0.53	-0.30	-0.28	0.53	-0.24
	54	O	108783	M	0.59	0.48	-0.19	-0.27	-0.20	0.48
	55	O	108921	M	0.56	0.46	-0.09	0.46	-0.29	-0.26

Table A29. Summary Item Statistics - Operational Items (Continued)

English May MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
Y	56	O	108919	M	0.67	0.59	-0.27	-0.32	-0.29	0.59
	57	O	108924	M	0.61	0.49	-0.26	0.49	-0.25	-0.17
	58	O	108922	M	0.34	0.27	-0.18	0.05	-0.20	0.27
	59	O	109739	M	0.65	0.49	0.49	-0.24	-0.26	-0.20
	60	O	108927	J	0.42	0.73				
	61	L	96106	M	0.57	0.22	-0.15	-0.07	0.22	-0.08
	62	L	96107	M	0.77	0.34	0.34	-0.12	-0.22	-0.17
	63	L	96108	M	0.70	0.52	-0.22	0.52	-0.27	-0.26
	64	L	96109	M	0.71	0.51	0.51	-0.27	-0.29	-0.20
	65	L	96110	M	0.86	0.55	-0.27	0.55	-0.31	-0.27
	66	O	130238	M	0.81	0.57	0.57	-0.31	-0.28	-0.28
	67	O	130239	M	0.82	0.55	-0.26	0.55	-0.32	-0.26
	71	O	130106	M	0.51	0.35	-0.27	-0.16	0.35	-0.04
	72	O	130107	M	0.57	0.46	-0.27	0.46	-0.21	-0.21

Table A30. Summary Item Statistics - Operational Items
Government May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E-K	1	L	58316	M	0.84	0.42	-0.23	0.42	-0.22	-0.25
	2	L	51063	M	0.85	0.43	0.43	-0.26	-0.24	-0.22
	3	L	58433	M	0.68	0.46	-0.21	-0.23	-0.25	0.46
	4	L	53748	M	0.86	0.47	0.47	-0.29	-0.23	-0.25
	6	L	68735	J	0.43	0.65				
	7	O	68766	M	0.70	0.53	-0.23	-0.33	-0.26	0.53
	8	O	51026	M	0.63	0.46	-0.26	-0.25	0.46	-0.17
	9	L	68508	M	0.45	0.45	0.45	-0.15	-0.27	-0.24
	10	L	68506	M	0.50	0.38	-0.23	-0.20	0.38	-0.15
	11	L	68096	J	0.46	0.75				
	12	L	68741	M	0.71	0.52	-0.28	0.52	-0.27	-0.25
	13	L	68489	M	0.78	0.39	0.39	-0.15	-0.26	-0.24
	14	O	64969	M	0.55	0.52	-0.33	-0.27	-0.14	0.52
	15	O	50887	M	0.57	0.34	0.34	-0.13	-0.21	-0.12
	16	L	50952	J	0.39	0.79				
	19	L	68559	M	0.59	0.49	-0.22	0.49	-0.27	-0.21
	20	L	68653	J	0.43	0.74				
	21	L	50993	M	0.66	0.30	0.30	-0.17	-0.25	-0.08
	22	O	58309	M	0.72	0.56	-0.21	-0.27	-0.35	0.56
	23	O	58304	M	0.67	0.61	-0.26	-0.34	-0.31	0.61
	24	O	68695	M	0.67	0.47	-0.22	-0.26	0.47	-0.21
	25	O	68739	M	0.64	0.53	-0.30	-0.22	-0.26	0.53
	26	L	68780	M	0.45	0.29	-0.18	-0.26	0.29	-0.01
	27	O	68531	M	0.57	0.58	-0.28	-0.29	-0.24	0.58
	29	L	51732	M	0.87	0.38	0.38	-0.22	-0.19	-0.16
	30	L	51017	M	0.66	0.52	0.52	-0.22	-0.28	-0.22
	31	L	68515	M	0.73	0.48	-0.23	-0.29	0.48	-0.19
	32	O	58142	M	0.71	0.50	-0.27	0.50	-0.24	-0.20
	33	O	68715	M	0.49	0.42	0.42	-0.15	-0.26	-0.21
	35	L	67997	M	0.83	0.45	0.45	-0.29	-0.24	-0.19
	36	L	68643	M	0.81	0.47	-0.26	-0.21	-0.28	0.47
	37	L	51244	M	0.80	0.43	-0.21	-0.27	0.43	-0.23
	38	L	68583	J	0.22	0.73				
	39	L	51735	M	0.77	0.50	-0.33	0.50	-0.29	-0.15
	40	L	50874	M	0.65	0.53	0.53	-0.35	-0.27	-0.14
	42	L	51798	M	0.60	0.43	-0.20	0.43	-0.25	-0.22
	43	L	51235	M	0.53	0.29	-0.05	-0.14	0.29	-0.27
	44	L	51169	M	0.41	0.19	-0.06	0.19	-0.23	0.02
	45	O	50953	M	0.69	0.47	-0.28	-0.27	0.47	-0.17
	46	O	50900	M	0.43	0.39	-0.15	0.39	-0.17	-0.15
	47	L	68720	M	0.81	0.53	-0.30	0.53	-0.25	-0.29

Table A30. Summary Item Statistics - Operational Items (Continued)

Government May Primary

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E-K	48	O	68693	J	0.39	0.77				
	49	O	55572	M	0.45	0.30	-0.05	0.30	-0.28	-0.08
	50	O	55704	M	0.73	0.44	-0.24	0.44	-0.28	-0.21
	51	O	68595	M	0.80	0.41	-0.19	0.41	-0.29	-0.16
	52	O	68013	M	0.60	0.48	-0.25	-0.27	-0.17	0.48
	53	L	68065	J	0.36	0.75				
	54	O	51084	M	0.71	0.48	0.48	-0.34	-0.24	-0.17
	55	O	68504	M	0.84	0.50	0.50	-0.26	-0.28	-0.25
	56	O	67987	M	0.66	0.51	-0.26	-0.28	0.51	-0.21
	57	L	50829	M	0.64	0.42	-0.24	-0.14	-0.24	0.42
	58	L	50980	J	0.45	0.76				
	59	L	68785	M	0.73	0.50	0.50	-0.31	-0.29	-0.13
	60	L	68721	M	0.65	0.43	-0.11	-0.31	0.43	-0.17
	61	L	68754	M	0.70	0.54	-0.25	-0.24	-0.31	0.54
	62	L	68716	M	0.65	0.53	-0.25	-0.26	-0.24	0.53
	63	O	51092	M	0.64	0.51	-0.22	0.51	-0.30	-0.20
	64	O	51053	M	0.69	0.49	-0.30	0.49	-0.18	-0.28

Table A31. Summary Item Statistics - Operational Items
Government May MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
X	1	L	58316	M	0.84	0.42	-0.23	0.42	-0.22	-0.25
	2	L	51063	M	0.85	0.43	0.43	-0.26	-0.24	-0.22
	3	L	58433	M	0.68	0.46	-0.21	-0.23	-0.25	0.46
	4	L	53748	M	0.86	0.47	0.47	-0.29	-0.23	-0.25
	6	L	68735	J	0.43	0.65				
	7	O	68007	M	0.52	0.45	0.45	-0.31	-0.28	-0.07
	8	O	51026	M	0.63	0.46	-0.26	-0.25	0.46	-0.17
	9	L	68508	M	0.45	0.45	0.45	-0.15	-0.27	-0.24
	10	L	68506	M	0.50	0.38	-0.23	-0.20	0.38	-0.15
	11	L	68096	J	0.46	0.75				
	12	L	68741	M	0.71	0.52	-0.28	0.52	-0.27	-0.25
	13	L	68489	M	0.78	0.39	0.39	-0.15	-0.26	-0.24
	14	O	64969	M	0.55	0.52	-0.33	-0.27	-0.14	0.52
	15	O	50887	M	0.57	0.34	0.34	-0.13	-0.21	-0.12
	16	L	50952	J	0.39	0.79				
	19	L	68559	M	0.59	0.49	-0.22	0.49	-0.27	-0.21
	20	L	68653	J	0.43	0.74				
	21	L	50993	M	0.66	0.30	0.30	-0.17	-0.25	-0.08
	22	O	50903	M	0.60	0.59	-0.28	-0.28	-0.27	0.59
	23	O	68673	M	0.61	0.60	-0.29	-0.26	-0.31	0.60
	24	O	67967	M	0.59	0.49	-0.17	-0.25	0.49	-0.25
	25	O	68739	M	0.64	0.53	-0.30	-0.22	-0.26	0.53
	26	L	68780	M	0.45	0.29	-0.18	-0.26	0.29	-0.01
	27	O	68531	M	0.57	0.58	-0.28	-0.29	-0.24	0.58
	28	O	68649	J	0.37	0.73				
	29	L	51732	M	0.87	0.38	0.38	-0.22	-0.19	-0.16
	30	L	51017	M	0.66	0.52	0.52	-0.22	-0.28	-0.22
	31	L	68515	M	0.73	0.48	-0.23	-0.29	0.48	-0.19
	32	O	51786	M	0.51	0.45	-0.20	0.45	-0.16	-0.16
	33	O	58384	M	0.47	0.59	-0.22	-0.25	-0.20	0.59
	35	L	67997	M	0.83	0.45	0.45	-0.29	-0.24	-0.19
	36	L	68643	M	0.81	0.47	-0.26	-0.21	-0.28	0.47
	37	L	51244	M	0.80	0.43	-0.21	-0.27	0.43	-0.23
	38	L	68583	J	0.22	0.73				
	39	L	51735	M	0.77	0.50	-0.33	0.50	-0.29	-0.15
	40	L	50874	M	0.65	0.53	0.53	-0.35	-0.27	-0.14
	42	L	51798	M	0.60	0.43	-0.20	0.43	-0.25	-0.22
	43	L	51235	M	0.53	0.29	-0.05	-0.14	0.29	-0.27
	44	L	51169	M	0.41	0.19	-0.06	0.19	-0.23	0.02
	45	O	68769	M	0.53	0.35	-0.02	-0.28	0.35	-0.19
	46	O	51245	M	0.48	0.43	-0.18	0.43	-0.30	-0.08
	47	L	68720	M	0.81	0.53	-0.30	0.53	-0.25	-0.29

Table A31. Summary Item Statistics - Operational Items (Continued)
 Government May MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
X	48	O	68693	J	0.39	0.77				
	49	O	55572	M	0.45	0.30	-0.05	0.30	-0.28	-0.08
	50	O	55704	M	0.73	0.44	-0.24	0.44	-0.28	-0.21
	51	O	68595	M	0.80	0.41	-0.19	0.41	-0.29	-0.16
	52	O	68013	M	0.60	0.48	-0.25	-0.27	-0.17	0.48
	53	L	68065	J	0.36	0.75				
	54	O	55605	M	0.50	0.55	-0.20	-0.29	-0.21	0.55
	55	O	55471	M	0.38	0.40	0.40	-0.14	-0.24	-0.04
	56	O	51150	M	0.65	0.61	-0.26	-0.29	-0.28	0.61
	57	L	50829	M	0.64	0.42	-0.24	-0.14	-0.24	0.42
	58	L	50980	J	0.45	0.76				
	59	L	68785	M	0.73	0.50	0.50	-0.31	-0.29	-0.13
	60	L	68721	M	0.65	0.43	-0.11	-0.31	0.43	-0.17
	61	L	68754	M	0.70	0.54	-0.25	-0.24	-0.31	0.54
	62	L	68716	M	0.65	0.53	-0.25	-0.26	-0.24	0.53
	63	O	51092	M	0.64	0.51	-0.22	0.51	-0.30	-0.20
	64	O	51053	M	0.69	0.49	-0.30	0.49	-0.18	-0.28

Table A32. Summary Item Statistics - Operational Items
Government May MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
Y	1	L	58316	M	0.84	0.42	-0.23	0.42	-0.22	-0.25
	2	L	51063	M	0.85	0.43	0.43	-0.26	-0.24	-0.22
	3	L	58433	M	0.68	0.46	-0.21	-0.23	-0.25	0.46
	4	L	53748	M	0.86	0.47	0.47	-0.29	-0.23	-0.25
	6	L	68735	J	0.43	0.65				
	7	O	68766	M	0.70	0.53	-0.23	-0.33	-0.26	0.53
	8	O	59843	M	0.34	0.22	0.00	-0.16	0.22	-0.12
	9	L	68508	M	0.45	0.45	0.45	-0.15	-0.27	-0.24
	10	L	68506	M	0.50	0.38	-0.23	-0.20	0.38	-0.15
	11	L	68096	J	0.46	0.75				
	12	L	68741	M	0.71	0.52	-0.28	0.52	-0.27	-0.25
	13	L	68489	M	0.78	0.39	0.39	-0.15	-0.26	-0.24
	14	O	50836	M	0.63	0.47	0.47	-0.30	-0.25	-0.13
	15	O	51191	M	0.42	0.30	-0.08	-0.14	-0.16	0.30
	16	L	50952	J	0.39	0.79				
	19	L	68559	M	0.59	0.49	-0.22	0.49	-0.27	-0.21
	20	L	68653	J	0.43	0.74				
	21	L	50993	M	0.66	0.30	0.30	-0.17	-0.25	-0.08
	22	O	58309	M	0.72	0.56	-0.21	-0.27	-0.35	0.56
	23	O	58304	M	0.67	0.61	-0.26	-0.34	-0.31	0.61
	24	O	68695	M	0.67	0.47	-0.22	-0.26	0.47	-0.21
	25	O	51766	M	0.33	0.24	-0.02	-0.13	0.24	-0.11
	26	L	68780	M	0.45	0.29	-0.18	-0.26	0.29	-0.01
	27	O	51170	M	0.69	0.55	-0.29	0.55	-0.31	-0.22
	29	L	51732	M	0.87	0.38	0.38	-0.22	-0.19	-0.16
	30	L	51017	M	0.66	0.52	0.52	-0.22	-0.28	-0.22
	31	L	68515	M	0.73	0.48	-0.23	-0.29	0.48	-0.19
	32	O	58142	M	0.71	0.50	-0.27	0.50	-0.24	-0.20
	33	O	68715	M	0.49	0.42	0.42	-0.15	-0.26	-0.21
	35	L	67997	M	0.83	0.45	0.45	-0.29	-0.24	-0.19
	36	L	68643	M	0.81	0.47	-0.26	-0.21	-0.28	0.47
	37	L	51244	M	0.80	0.43	-0.21	-0.27	0.43	-0.23
	38	L	68583	J	0.22	0.73				
	39	L	51735	M	0.77	0.50	-0.33	0.50	-0.29	-0.15
	40	L	50874	M	0.65	0.53	0.53	-0.35	-0.27	-0.14
	42	L	51798	M	0.60	0.43	-0.20	0.43	-0.25	-0.22
	43	L	51235	M	0.53	0.29	-0.05	-0.14	0.29	-0.27
	44	L	51169	M	0.41	0.19	-0.06	0.19	-0.23	0.02
	45	O	50953	M	0.69	0.47	-0.28	-0.27	0.47	-0.17
	46	O	50900	M	0.43	0.39	-0.15	0.39	-0.17	-0.15
	47	L	68720	M	0.81	0.53	-0.30	0.53	-0.25	-0.29

Table A32. Summary Item Statistics - Operational Items (Continued)
 Government May MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
Y	48	O	68693	J	0.39	0.77				
	49	O	64973	M	0.63	0.57	-0.23	-0.32	0.57	-0.21
	50	O	53700	M	0.42	0.44	-0.11	-0.19	0.44	-0.21
	51	O	51744	M	0.63	0.52	0.52	-0.27	-0.29	-0.14
	52	O	68663	M	0.32	0.28	-0.11	0.06	-0.20	0.28
	53	L	68065	J	0.36	0.75				
	54	O	51084	M	0.71	0.48	0.48	-0.34	-0.24	-0.17
	55	O	68504	M	0.84	0.50	0.50	-0.26	-0.28	-0.25
	56	O	67987	M	0.66	0.51	-0.26	-0.28	0.51	-0.21
	57	L	50829	M	0.64	0.42	-0.24	-0.14	-0.24	0.42
	58	L	50980	J	0.45	0.76				
	59	L	68785	M	0.73	0.50	0.50	-0.31	-0.29	-0.13
	60	L	68721	M	0.65	0.43	-0.11	-0.31	0.43	-0.17
	61	L	68754	M	0.70	0.54	-0.25	-0.24	-0.31	0.54
	62	L	68716	M	0.65	0.53	-0.25	-0.26	-0.24	0.53
	63	O	51809	M	0.62	0.52	-0.26	-0.27	0.52	-0.18
	64	O	51776	M	0.26	0.25	0.07	-0.10	-0.18	0.25

Table A33. Summary Item Statistics - Operational Items
Algebra - July MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
L	1	O	51474	M	0.94	0.28	-0.07	0.28	-0.13	-0.25
	2	O	56599	M	0.63	0.44	-0.14	-0.36	0.44	-0.13
	3	L	56658	M	0.70	0.45	-0.27	0.45	-0.19	-0.23
	5	L	54794	M	0.36	0.41	0.41	-0.23	-0.09	-0.22
	6	L	54776	J	0.34	0.64				
	7	O	56632	M	0.35	0.42	-0.14	-0.36	0.42	-0.08
	8	L	51485	M	0.34	0.34	-0.04	-0.10	-0.22	0.34
	9	L	67556	M	0.52	0.46	0.46	-0.33	-0.21	-0.06
	11	O	54796	M	0.50	0.35	-0.15	-0.14	-0.17	0.35
	13	L	54560	G	0.46	0.63	0.63	-0.51		
	14	O	51489	G	0.64	0.49	0.49	-0.44		
	16	O	67461	G	0.63	0.47	0.47	-0.37		
	17	L	67498	J	0.12	0.74				
	18	L	51455	M	0.45	0.40	-0.18	0.40	-0.08	-0.23
	19	O	56712	M	0.46	0.29	-0.20	-0.09	0.29	-0.05
	20	L	67501	M	0.55	0.42	-0.21	-0.16	0.42	-0.17
	21	L	54857	J	0.20	0.68				
	22	L	51410	M	0.67	0.41	-0.24	-0.16	-0.21	0.41
	23	O	64689	M	0.19	0.37	0.37	-0.05	-0.20	-0.04
	25	L	56741	M	0.59	0.24	-0.22	0.24	-0.28	0.18
	26	O	54692	M	0.64	0.31	-0.16	-0.12	-0.19	0.31
	27	L	56573	M	0.44	0.34	-0.24	-0.06	0.34	-0.18
	28	O	51555	M	0.24	0.23	0.23	-0.21	0.06	-0.14
	31	L	54710	M	0.54	0.39	-0.22	-0.27	0.39	-0.10
	33	O	56557	M	0.30	0.01	0.01	0.07	-0.07	0.00
	35	L	56783	M	0.46	0.39	-0.04	-0.29	-0.20	0.39
	36	L	67557	J	0.47	0.81				
	37	O	67410	G	0.55	0.47	0.47	-0.43		
	38	L	67411	G	0.16	0.49	0.49	-0.25		
	40	O	51490	G	0.60	0.47	0.47	-0.32		
	41	O	54896	J	0.09	0.65				
	42	L	64684	M	0.56	0.50	0.50	-0.22	-0.27	-0.15
	43	L	56767	M	0.51	0.33	0.33	-0.20	-0.10	-0.15
	44	L	54752	M	0.44	0.31	-0.19	0.02	0.31	-0.22
	45	L	67466	J	0.27	0.82				
	46	L	54647	M	0.26	0.07	0.13	-0.13	0.07	-0.09
	47	L	56558	M	0.51	0.39	0.39	-0.11	-0.23	-0.15
	48	O	54707	M	0.42	0.22	-0.32	0.22	0.02	0.00

Table A34. Summary Item Statistics - Operational Items
Algebra - July MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
M	1	M	50394	O	0.93	0.28	-0.06	-0.11	-0.25	0.28
	2	M	51533	O	0.83	0.35	0.35	-0.16	-0.26	-0.15
	3	L	56658	M	0.70	0.45	-0.27	0.45	-0.19	-0.23
	5	L	54794	M	0.36	0.41	0.41	-0.23	-0.09	-0.22
	6	L	54776	J	0.34	0.64				
	7	M	56661	O	0.52	0.38	-0.24	-0.27	0.38	0.00
	8	L	51485	M	0.34	0.34	-0.04	-0.10	-0.22	0.34
	9	L	67556	M	0.52	0.46	0.46	-0.33	-0.21	-0.06
	11	M	67447	O	0.77	0.29	-0.16	-0.15	0.29	-0.11
	13	L	54560	G	0.46	0.63	0.63	-0.51		
	14	G	56568	O	0.49	0.47	0.47	-0.33		
	16	G	67528	O	0.60	0.59	0.59	-0.44		
	17	L	67498	J	0.12	0.74				
	18	L	51455	M	0.45	0.40	-0.18	0.40	-0.08	-0.23
	19	M	56366	O	0.56	0.42	-0.24	-0.12	0.42	-0.16
	20	L	67501	M	0.55	0.42	-0.21	-0.16	0.42	-0.17
	21	L	54857	J	0.20	0.68				
	22	L	51410	M	0.67	0.41	-0.24	-0.16	-0.21	0.41
	23	M	51445	O	0.50	0.30	0.30	-0.12	-0.17	-0.06
	25	L	56741	M	0.59	0.24	-0.22	0.24	-0.28	0.18
	26	M	54840	O	0.86	0.23	-0.27	0.23	-0.19	0.03
	27	L	56573	M	0.44	0.34	-0.24	-0.06	0.34	-0.18
	28	M	67424	O	0.28	0.27	-0.11	-0.15	-0.03	0.27
	31	L	54710	M	0.54	0.39	-0.22	-0.27	0.39	-0.10
	33	M	54699	O	0.44	0.46	-0.16	-0.23	-0.23	0.46
	35	L	56783	M	0.46	0.39	-0.04	-0.29	-0.20	0.39
	36	L	67557	J	0.47	0.81				
	37	G	54742	O	0.46	0.41	0.41	-0.36		
	38	L	67411	G	0.16	0.49	0.49	-0.25		
	40	G	51417	O	0.52	0.56	0.56	-0.35		
	41	J	51409	O	0.22	0.71				
	42	L	64684	M	0.56	0.50	0.50	-0.22	-0.27	-0.15
	43	L	56767	M	0.51	0.33	0.33	-0.20	-0.10	-0.15
	44	L	54752	M	0.44	0.31	-0.19	0.02	0.31	-0.22
	45	L	67466	J	0.27	0.82				
	46	L	54647	M	0.26	0.07	0.13	-0.13	0.07	-0.09
	47	L	56558	M	0.51	0.39	0.39	-0.11	-0.23	-0.15
	48	M	54892	O	0.46	0.32	-0.13	-0.19	0.32	-0.03

Table A35. Summary Item Statistics - Operational Items

Biology - July MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
L	1	O	68138	M	0.47	0.38	-0.13	-0.29	-0.08	0.38
	2	O	52673	M	0.27	0.27	-0.25	0.27	0.05	-0.20
	3	O	64744	M	0.41	0.35	-0.18	0.35	-0.17	-0.14
	4	O	64743	M	0.73	0.42	0.42	-0.23	-0.17	-0.25
	5	O	64745	M	0.48	0.45	-0.20	0.45	-0.33	-0.05
	6	L	68119	J	0.20	0.75				
	7	L	52767	M	0.19	0.13	0.00	-0.17	0.13	0.03
	8	O	52522	M	0.48	0.13	-0.02	0.13	-0.12	-0.03
	11	O	52780	M	0.42	0.32	-0.19	-0.05	0.32	-0.17
	12	O	52621	M	0.26	0.36	-0.11	0.36	-0.13	-0.15
	13	O	55044	M	0.42	0.29	-0.23	0.29	-0.21	0.05
	15	L	68257	J	0.12	0.76				
	16	O	56986	M	0.37	0.42	0.42	-0.15	-0.21	-0.11
	17	O	56987	M	0.39	0.26	-0.10	0.26	-0.04	-0.15
	18	O	52460	M	0.51	0.48	-0.24	0.48	-0.24	-0.16
	19	O	52506	M	0.36	0.45	-0.08	-0.20	-0.24	0.45
	20	O	52505	M	0.43	0.30	-0.05	0.30	-0.15	-0.18
	21	O	52504	M	0.56	0.45	-0.15	-0.29	0.45	-0.17
	22	L	52438	J	0.10	0.83				
	26	O	52759	M	0.40	0.32	0.32	-0.17	-0.17	-0.07
	27	O	68289	M	0.19	-0.01	-0.25	-0.01	0.02	0.18
	28	O	55239	M	0.21	0.17	0.17	-0.11	0.02	-0.06
	29	O	52423	M	0.40	0.48	-0.21	-0.13	-0.28	0.48
	30	O	52645	M	0.19	0.19	-0.19	0.16	-0.20	0.19
	31	L	52484	J	0.09	0.79				
	34	O	67569	M	0.36	0.37	-0.13	0.37	-0.18	-0.17
	35	O	67571	M	0.48	0.34	0.34	-0.21	-0.22	-0.07
	36	O	53469	M	0.70	0.30	-0.22	0.30	-0.19	-0.21
	37	O	68192	M	0.74	0.39	0.39	-0.21	-0.19	-0.23
	38	O	52466	M	0.51	0.52	-0.20	-0.33	-0.22	0.52
	39	O	52599	M	0.43	0.27	-0.02	0.27	-0.18	-0.16
	40	O	55076	M	0.45	0.32	-0.03	0.32	-0.21	-0.17
	41	O	55141	M	0.40	0.36	0.36	-0.22	-0.23	0.01
	42	L	52498	J	0.08	0.80				
	43	O	57134	M	0.46	0.43	-0.08	-0.16	-0.29	0.43
	46	O	52750	M	0.47	0.38	-0.14	0.38	-0.26	-0.10
	47	O	52747	M	0.36	0.31	0.05	-0.23	-0.23	0.31
	48	L	64704	J	0.05	0.76				
	49	O	68273	M	0.34	0.29	-0.14	0.29	-0.06	-0.17
	50	O	64999	M	0.57	0.39	0.39	-0.11	-0.19	-0.25

Table A35. Summary Item Statistics - Operational Items (Continued)
 Biology - July MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
L	51	O	56965	M	0.40	0.46	-0.17	-0.24	-0.16	0.46
	52	O	56963	M	0.42	0.53	-0.13	0.53	-0.28	-0.24
	53	O	65126	M	0.53	0.46	0.46	-0.22	-0.15	-0.24
	57	O	55164	M	0.37	0.44	-0.23	0.44	-0.27	-0.04
	58	O	55165	M	0.21	0.37	0.37	-0.17	-0.03	-0.17
	59	O	55163	M	0.47	0.55	-0.25	-0.23	-0.22	0.55
	60	O	52592	M	0.36	0.31	-0.09	-0.17	0.31	-0.09
	61	O	52593	M	0.46	0.47	0.47	-0.15	-0.29	-0.14
	63	O	60528	M	0.34	0.13	-0.29	0.09	0.13	0.00
	64	L	67633	J	0.07	0.75				
	67	O	68282	M	0.40	0.38	0.38	-0.09	-0.12	-0.24
	68	O	68281	M	0.47	0.42	0.42	-0.22	-0.15	-0.14
	69	O	55208	M	0.32	0.26	-0.19	0.26	0.07	-0.21
	70	O	67675	M	0.40	0.54	-0.20	-0.14	-0.31	0.54
	71	O	52742	M	0.38	0.36	-0.15	-0.12	0.36	-0.12

Table A36. Summary Item Statistics - Operational Items
Biology - July MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
M	1	O	55013	M	0.79	0.44	-0.27	0.44	-0.34	
	2	O	52424	M	0.55	0.04	0.33	-0.47	-0.06	0.04
	3	O	64744	M	0.41	0.35	-0.18	0.35	-0.17	-0.14
	4	O	64743	M	0.73	0.42	0.42	-0.23	-0.17	-0.25
	5	O	64745	M	0.48	0.45	-0.20	0.45	-0.33	-0.05
	6	L	68119	J	0.2	0.75				
	7	O	52567	M	0.27	0.44	0.44	-0.26	-0.21	
	8	O	67683	M	0.52	0.60	-0.08	0.60	-0.39	-0.24
	11	O	55196	M	0.52	0.24	0.24	-0.28	-0.25	0.06
	12	O	67671	M	0.12	0.29	-0.27	-0.21	0.29	0.29
	13	O	52485	M	0.7	0.65	-0.25	-0.31	-0.35	0.65
	15	L	68257	J	0.12	0.76				
	16	O	56986	M	0.37	0.42	0.42	-0.15	-0.21	-0.11
	17	O	56987	M	0.39	0.26	-0.10	0.26	-0.04	-0.15
	18	O	52460	M	0.51	0.48	-0.24	0.48	-0.24	-0.16
	19	O	52506	M	0.36	0.45	-0.08	-0.20	-0.24	0.45
	20	O	52505	M	0.43	0.30	-0.05	0.30	-0.15	-0.18
	21	O	52504	M	0.56	0.45	-0.15	-0.29	0.45	-0.17
	22	L	52438	J	0.0975	0.83				
	26	O	64734	M	0.27	0.65	-0.12	-0.20	-0.32	0.65
	27	O	56992	M	0.61	0.49	-0.26	-0.20	-0.21	0.49
	28	O	65128	M	0.39	0.15	-0.04	0.15	-0.19	0.26
	29	O	64993	M	0.42	0.26	-0.23	0.06	0.26	-0.16
	30	O	52651	M	0.67	0.73	0.73	-0.50	-0.22	-0.26
	31	L	52484	J	0.09	0.79				
	34	O	67569	M	0.36	0.37	-0.13	0.37	-0.18	-0.17
	35	O	67571	M	0.48	0.34	0.34	-0.21	-0.22	-0.07
	36	O	57055	M	0.27	0.61	-0.18	0.61	-0.23	-0.25
	37	O	57145	M	0.67	0.43	-0.10	0.43	-0.41	
	38	O	67860	M	0.55	0.56	-0.13	0.56	-0.36	-0.31
	39	O	68223	M	0.7	0.48	0.48	-0.22	-0.29	-0.29
	40	O	55076	M	0.45	0.32	-0.03	0.32	-0.21	-0.17
	41	O	55141	M	0.4	0.36	0.36	-0.22	-0.23	0.01
	42	L	52498	J	0.075	0.80				
	43	O	57134	M	0.46	0.43	-0.08	-0.16	-0.29	0.43
	46	O	52750	M	0.47	0.38	-0.14	0.38	-0.26	-0.10
	47	O	52747	M	0.36	0.31	0.05	-0.23	-0.23	0.31
	48	L	64704	J	0.0525	0.76				
	49	O	65142	M	0.61	0.38	-0.23	-0.13	0.38	-0.17
	50	O	55149	M	0.52	0.29	-0.20	-0.11	-0.14	0.29

Table A36. Summary Item Statistics - Operational Items (Continued)

Biology - July MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
M	51	O	56965	M	0.4	0.46	-0.17	-0.24	-0.16	0.46
	52	O	56963	M	0.42	0.53	-0.13	0.53	-0.28	-0.24
	53	O	54992	M	0.42	-0.07	0.02	0.24	-0.07	-0.25
	57	O	55164	M	0.37	0.44	-0.23	0.44	-0.27	-0.04
	58	O	55165	M	0.21	0.37	0.37	-0.17	-0.03	-0.17
	59	O	55163	M	0.47	0.55	-0.25	-0.23	-0.22	0.55
	60	O	52592	M	0.36	0.31	-0.09	-0.17	0.31	-0.09
	61	O	52593	M	0.46	0.47	0.47	-0.15	-0.29	-0.14
	63	O	60528	M	0.34	0.13	-0.29	0.09	0.13	0.00
	64	L	67633	J	0.065	0.75				
	67	O	68282	M	0.4	0.38	0.38	-0.09	-0.12	-0.24
	68	O	68281	M	0.47	0.42	0.42	-0.22	-0.15	-0.14
	69	O	68191	M	0.42	0.51	-0.22	-0.14	-0.20	0.51
	70	O	65118	M	0.39	0.59	0.59	-0.17	-0.25	-0.30
	71	O	68150	M	0.48	0.67	-0.26	-0.51	0.67	-0.15

Table A37. Summary Item Statistics - Operational Items
English - July MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
Q	1	O	130029	J	0.43	0.55				
	2	O	130038	M	0.50	0.36	0.36	-0.24	-0.21	-0.01
	3	O	130039	M	0.48	0.28	-0.09	0.28	-0.24	-0.06
	4	O	130292	M	0.38	0.36	-0.06	-0.21	0.36	-0.19
	5	O	130040	M	0.57	0.47	0.47	-0.27	-0.20	-0.16
	6	O	130041	M	0.54	0.37	-0.27	-0.09	0.37	-0.15
	7	O	96175	M	0.67	0.51	-0.25	-0.28	-0.19	0.51
	8	O	96176	M	0.73	0.52	0.52	-0.24	-0.28	-0.23
	9	O	96177	M	0.62	0.46	-0.38	0.46	-0.22	-0.04
	10	O	96178	M	0.51	0.38	-0.18	0.38	-0.20	-0.14
	11	O	96179	M	0.53	0.50	-0.21	-0.34	-0.13	0.50
	12	O	96180	M	0.54	0.46	-0.08	-0.29	-0.28	0.46
	13	O	96181	M	0.48	0.42	-0.20	0.42	-0.35	-0.03
	20	O	130043	M	0.37	0.38	-0.23	-0.18	0.01	0.38
	21	O	130044	M	0.31	0.27	-0.18	-0.12	0.01	0.27
	22	O	135485	M	0.44	0.39	-0.13	-0.15	0.39	-0.19
	23	O	130047	M	0.50	0.46	-0.12	0.46	-0.28	-0.18
	24	O	130045	M	0.43	0.34	-0.15	-0.02	0.34	-0.23
	25	O	130046	J	0.27	0.66				
	26	O	135483	J	0.30	0.62				
	27	O	95570	M	0.56	0.47	-0.12	-0.25	-0.27	0.47
	28	O	95571	M	0.56	0.40	-0.26	-0.28	0.40	-0.01
	29	O	95572	M	0.44	0.30	0.00	0.30	-0.23	-0.13
	30	O	95573	M	0.37	0.30	0.30	-0.05	-0.14	-0.16
	31	O	95574	M	0.24	0.14	-0.13	0.14	0.16	-0.22
	32	O	95575	M	0.51	0.31	-0.21	0.31	0.00	-0.18
	33	O	95576	M	0.31	0.34	-0.06	-0.27	-0.01	0.34
	34	O	95577	M	0.60	0.56	0.56	-0.32	-0.25	-0.19
	35	O	95578	M	0.47	0.42	-0.20	-0.06	-0.30	0.42
	36	O	95579	M	0.52	0.50	-0.30	-0.21	0.50	-0.13
	37	O	95580	M	0.55	0.49	-0.22	0.49	-0.31	-0.09
	49	O	108918	M	0.42	0.36	-0.24	-0.35	0.36	0.13
	50	O	108784	M	0.22	0.30	-0.13	-0.01	-0.11	0.30
	51	O	108925	M	0.59	0.47	-0.20	-0.24	0.47	-0.19
	52	O	108783	M	0.39	0.33	-0.16	0.00	-0.24	0.33
	53	O	108921	M	0.39	0.32	-0.04	0.32	-0.21	-0.12
	54	O	108919	M	0.42	0.36	-0.12	-0.23	-0.07	0.36
	55	O	108924	M	0.41	0.39	-0.12	0.39	-0.27	-0.04

Table A37. Summary Item Statistics - Operational Items (Continued)
English - July MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
Q	56	O	108922	M	0.20	0.17	-0.15	0.04	-0.03	0.17
	57	O	109739	M	0.45	0.39	0.39	-0.15	-0.14	-0.20
	58	O	108927	J	0.22	0.55				
	59	O	96106	M	0.46	0.23	-0.16	-0.07	0.23	-0.04
	60	O	96107	M	0.66	0.40	0.40	-0.18	-0.17	-0.20
	61	O	96108	M	0.45	0.39	-0.07	0.39	-0.22	-0.16
	62	O	96109	M	0.53	0.42	0.42	-0.23	-0.20	-0.10
	63	O	96110	M	0.62	0.49	-0.18	0.49	-0.26	-0.24
	64	O	130050	M	0.42	0.36	-0.12	0.36	-0.22	-0.05
	65	O	130049	M	0.42	0.26	0.26	-0.21	-0.09	0.04
	67	O	130030	M	0.61	0.52	-0.23	-0.29	0.52	-0.22
	68	O	130031	M	0.44	0.49	-0.22	-0.14	-0.25	0.49

Table A38. Summary Item Statistics - Operational Items
English - July MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
R	1	O	130029	J	0.43	0.55				
	2	O	130038	M	0.50	0.36	0.36	-0.24	-0.21	-0.01
	3	O	130039	M	0.48	0.28	-0.09	0.28	-0.24	-0.06
	4	O	130292	M	0.38	0.36	-0.06	-0.21	0.36	-0.19
	5	O	130040	M	0.57	0.47	0.47	-0.27	-0.20	-0.16
	6	O	130041	M	0.54	0.37	-0.27	-0.09	0.37	-0.15
	7	O	96175	M	0.67	0.51	-0.25	-0.28	-0.19	0.51
	8	O	96176	M	0.73	0.52	0.52	-0.24	-0.28	-0.23
	9	O	96177	M	0.62	0.46	-0.38	0.46	-0.22	-0.04
	10	O	96178	M	0.51	0.38	-0.18	0.38	-0.20	-0.14
	11	O	96179	M	0.53	0.50	-0.21	-0.34	-0.13	0.50
	12	O	96180	M	0.54	0.46	-0.08	-0.29	-0.28	0.46
	13	O	96181	M	0.48	0.42	-0.20	0.42	-0.35	-0.03
	20	O	130043	M	0.37	0.38	-0.23	-0.18	0.01	0.38
	21	O	130044	M	0.31	0.27	-0.18	-0.12	0.01	0.27
	22	O	135485	M	0.44	0.39	-0.13	-0.15	0.39	-0.19
	23	O	130047	M	0.50	0.46	-0.12	0.46	-0.28	-0.18
	24	O	130045	M	0.43	0.34	-0.15	-0.02	0.34	-0.23
	25	O	130046	J	0.27	0.66				
	26	O	135483	J	0.30	0.62				
	27	O	95570	M	0.56	0.47	-0.12	-0.25	-0.27	0.47
	28	O	95571	M	0.56	0.40	-0.26	-0.28	0.40	-0.01
	29	O	95572	M	0.44	0.30	0.00	0.30	-0.23	-0.13
	30	O	95573	M	0.37	0.30	0.30	-0.05	-0.14	-0.16
	31	O	95574	M	0.24	0.14	-0.13	0.14	0.16	-0.22
	32	O	95575	M	0.51	0.31	-0.21	0.31	0.00	-0.18
	33	O	95576	M	0.31	0.34	-0.06	-0.27	-0.01	0.34
	34	O	95577	M	0.60	0.56	0.56	-0.32	-0.25	-0.19
	35	O	95578	M	0.47	0.42	-0.20	-0.06	-0.30	0.42
	36	O	95579	M	0.52	0.50	-0.30	-0.21	0.50	-0.13
	37	O	95580	M	0.55	0.49	-0.22	0.49	-0.31	-0.09
	49	O	108918	M	0.42	0.36	-0.24	-0.35	0.36	0.13
	50	O	108784	M	0.22	0.30	-0.13	-0.01	-0.11	0.30
	51	O	108925	M	0.59	0.47	-0.20	-0.24	0.47	-0.19
	52	O	108783	M	0.39	0.33	-0.16	0.00	-0.24	0.33
	53	O	108921	M	0.39	0.32	-0.04	0.32	-0.21	-0.12
	54	O	108919	M	0.42	0.36	-0.12	-0.23	-0.07	0.36
	55	O	108924	M	0.41	0.39	-0.12	0.39	-0.27	-0.04

Table A38. Summary Item Statistics - Operational Items (Continued)
English - July MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
R	56	O	108922	M	0.20	0.17	-0.15	0.04	-0.03	0.17
	57	O	109739	M	0.45	0.39	0.39	-0.15	-0.14	-0.20
	58	O	108927	J	0.22	0.55				
	59	O	96106	M	0.46	0.23	-0.16	-0.07	0.23	-0.04
	60	O	96107	M	0.66	0.40	0.40	-0.18	-0.17	-0.20
	61	O	96108	M	0.45	0.39	-0.07	0.39	-0.22	-0.16
	62	O	96109	M	0.53	0.42	0.42	-0.23	-0.20	-0.10
	63	O	96110	M	0.62	0.49	-0.18	0.49	-0.26	-0.24
	64	O	130050	M	0.42	0.36	-0.12	0.36	-0.22	-0.05
	65	O	130049	M	0.42	0.26	0.26	-0.21	-0.09	0.04
	67	O	130030	M	0.61	0.52	-0.23	-0.29	0.52	-0.22
	68	O	130031	M	0.44	0.49	-0.22	-0.14	-0.25	0.49

Table A39. Summary Item Statistics - Operational Items
Government - July MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
L	1	O	51143	M	0.73	0.38	0.38	-0.18	-0.27	-0.16
	2	O	55715	M	0.75	0.44	-0.23	-0.14	-0.28	0.44
	3	O	68580	M	0.49	0.46	-0.15	-0.15	-0.27	0.46
	4	O	55583	M	0.59	0.24	0.24	-0.09	-0.06	-0.18
	6	L	51075	J	0.25	0.71				
	7	L	55642	M	0.57	0.39	-0.09	-0.24	0.39	-0.18
	8	O	68095	M	0.53	0.52	-0.24	-0.34	-0.10	0.52
	9	O	68554	M	0.44	0.35	0.35	-0.06	-0.27	-0.13
	10	O	55545	M	0.50	0.53	-0.12	-0.35	-0.29	0.53
	11	L	53651	J	0.19	0.66				
	12	L	55524	M	0.65	0.38	-0.17	0.38	-0.13	-0.24
	13	O	50922	M	0.24	0.17	-0.12	0.13	-0.15	0.17
	14	L	68768	M	0.30	0.22	-0.11	-0.16	0.22	0.05
	15	O	51134	M	0.39	0.33	-0.18	-0.04	-0.14	0.33
	16	L	67998	J	0.17	0.63				
	19	L	68759	M	0.46	0.38	-0.11	-0.21	-0.13	0.38
	20	L	51740	J	0.23	0.68				
	21	L	51077	M	0.48	0.43	0.43	-0.28	-0.18	-0.07
	22	L	68756	M	0.46	0.40	-0.19	-0.10	-0.20	0.40
	23	O	68750	M	0.36	0.23	-0.08	-0.19	0.02	0.23
	24	O	68599	M	0.43	0.47	-0.31	0.47	0.00	-0.29
	25	L	68496	M	0.31	0.36	-0.06	-0.11	-0.17	0.36
	26	O	68497	M	0.45	0.30	-0.08	0.30	-0.23	-0.03
	27	O	58288	M	0.44	0.26	-0.13	-0.06	0.26	-0.11
	29	O	68035	M	0.27	0.26	0.08	-0.21	-0.11	0.26
	30	O	51723	M	0.40	0.23	0.23	-0.19	-0.21	0.15
	31	L	68578	M	0.30	0.32	-0.06	-0.11	-0.10	0.32
	32	L	50984	M	0.51	0.45	-0.15	-0.14	0.45	-0.24
	33	O	51234	M	0.26	0.20	-0.03	-0.15	0.20	0.01
	35	L	68701	M	0.66	0.48	-0.21	-0.14	-0.24	0.48
	36	L	68714	M	0.56	0.50	0.50	-0.28	-0.13	-0.21
	37	L	51087	M	0.78	0.51	-0.23	-0.24	0.51	-0.20
	38	L	68045	J	0.16	0.70				
	39	O	58405	M	0.56	0.64	-0.22	-0.27	-0.26	0.64
	40	O	51125	M	0.33	0.25	-0.11	0.00	0.25	-0.03
	42	L	68541	M	0.54	0.50	-0.22	-0.18	-0.16	0.50
	43	L	58098	M	0.57	0.53	-0.19	-0.20	-0.22	0.53
	44	L	55599	M	0.59	0.43	-0.05	0.43	-0.23	-0.17
	45	L	51758	M	0.56	0.47	-0.15	0.47	-0.23	-0.12
	46	L	50893	M	0.47	0.36	0.02	0.36	-0.23	-0.12

Table A39. Summary Item Statistics - Operational Items (Continued)
Government - July MakeUp1

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
L	47	L	51750	M	0.46	0.49	-0.08	-0.18	0.49	-0.25
	48	O	68629	J	0.17	0.59				
	49	L	58388	M	0.56	0.43	0.43	-0.21	-0.14	-0.10
	50	L	68656	M	0.38	0.32	-0.05	-0.12	0.32	-0.06
	51	L	67983	M	0.55	0.58	-0.23	-0.18	-0.26	0.58
	52	O	51172	M	0.39	0.41	-0.14	0.02	0.41	-0.19
	53	L	67965	J	0.24	0.76				
	54	O	68628	M	0.15	0.18	-0.11	-0.11	0.24	0.18
	55	O	68709	M	0.43	0.42	-0.23	0.00	0.42	-0.11
	56	L	64954	M	0.50	0.45	-0.10	-0.26	0.45	-0.10
	57	L	68708	M	0.35	0.30	0.02	0.30	-0.10	-0.12
	58	L	68635	J	0.18	0.66				
	59	L	58292	M	0.56	0.53	-0.29	-0.25	0.53	-0.02
	60	L	68059	M	0.29	0.38	0.38	-0.03	-0.24	0.02
	61	O	68040	M	0.37	0.49	-0.18	-0.03	0.49	-0.18
	62	L	51257	M	0.59	0.46	0.46	-0.17	-0.15	-0.12
	63	L	68023	M	0.34	0.34	0.34	-0.11	-0.03	-0.06
	64	L	68782	M	0.45	0.47	-0.18	-0.23	-0.05	0.47

Table A40. Summary Item Statistics - Operational Items
Government - July MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
M	1	O	68719	M	0.79	0.21	-0.26	-0.10	0.21	0.09
	2	O	51259	M	0.87	0.36	-0.12	-0.29	0.36	-0.17
	3	O	51180	M	0.79	0.32	0.32	-0.26	-0.09	-0.13
	4	O	50896	M	0.56	0.27	-0.18	-0.19	0.27	-0.08
	6	L	51075	J	0.25	0.71				
	7	L	55642	M	0.57	0.39	-0.09	-0.24	0.39	-0.18
	8	O	51800	M	0.24	0.36	-0.13	-0.18	-0.04	0.36
	9	O	55554	M	0.33	0.31	0.31	-0.15	-0.14	-0.05
	10	O	51765	M	0.50	0.41	-0.20	0.41	-0.15	-0.14
	11	L	53651	J	0.19	0.66				
	12	L	55524	M	0.65	0.38	-0.17	0.38	-0.13	-0.24
	13	O	58147	M	0.53	0.33	0.33	-0.13	-0.19	-0.07
	14	L	68768	M	0.30	0.22	-0.11	-0.16	0.22	0.05
	15	O	64962	M	0.48	0.37	-0.15	-0.23	-0.11	0.37
	16	L	67998	J	0.17	0.63				
	19	L	68759	M	0.46	0.38	-0.11	-0.21	-0.13	0.38
	20	L	51740	J	0.23	0.68				
	21	L	51077	M	0.48	0.43	0.43	-0.28	-0.18	-0.07
	22	L	68756	M	0.46	0.40	-0.19	-0.10	-0.20	0.40
	23	O	55666	M	0.36	0.39	-0.16	-0.13	-0.13	0.39
	24	O	68725	M	0.60	0.46	-0.13	0.46	-0.25	-0.22
	25	L	68496	M	0.31	0.36	-0.06	-0.11	-0.17	0.36
	26	O	55589	M	0.49	0.51	-0.24	-0.24	-0.13	0.51
	27	O	50894	M	0.59	0.44	-0.18	-0.23	0.44	-0.17
	28	O	68693	J	0.18	0.65				
	29	O	68608	M	0.33	0.29	-0.19	-0.02	0.29	-0.06
	30	O	64951	M	0.51	0.48	-0.24	0.48	-0.15	-0.16
	32	L	50984	M	0.51	0.45	-0.15	-0.14	0.45	-0.24
	33	O	55491	M	0.37	0.34	0.34	-0.25	0.00	-0.05
	35	L	68701	M	0.66	0.48	-0.21	-0.14	-0.24	0.48
	36	L	68714	M	0.56	0.50	0.50	-0.28	-0.13	-0.21
	37	L	51087	M	0.78	0.51	-0.23	-0.24	0.51	-0.20
	38	L	68045	J	0.16	0.70				
	39	O	68532	M	0.56	0.46	0.46	-0.28	-0.09	-0.15
	40	O	68020	M	0.43	0.47	0.47	-0.23	-0.22	-0.01
	42	L	68541	M	0.54	0.50	-0.22	-0.18	-0.16	0.50
	43	L	58098	M	0.57	0.53	-0.19	-0.20	-0.22	0.53
	44	L	55599	M	0.59	0.43	-0.05	0.43	-0.23	-0.17
	45	L	51758	M	0.56	0.47	-0.15	0.47	-0.23	-0.12
	46	L	50893	M	0.47	0.36	0.02	0.36	-0.23	-0.12

Table A40. Summary Item Statistics - Operational Items (Continued)
Government - July MakeUp2

Form	Pos_No	Anchor_Status	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
M	47	L	51750	M	0.46	0.49	-0.08	-0.18	0.49	-0.25
	48	O	68629	J	0.17	0.59				
	49	L	58388	M	0.56	0.43	0.43	-0.21	-0.14	-0.10
	50	L	68656	M	0.38	0.32	-0.05	-0.12	0.32	-0.06
	51	L	67983	M	0.55	0.58	-0.23	-0.18	-0.26	0.58
	52	O	67976	M	0.53	0.52	0.52	-0.22	-0.23	-0.14
	53	L	67965	J	0.24	0.76				
	54	O	68544	M	0.50	0.49	-0.17	0.49	-0.21	-0.14
	55	O	68068	M	0.26	0.28	-0.20	0.03	0.28	-0.03
	56	L	64954	M	0.50	0.45	-0.10	-0.26	0.45	-0.10
	57	L	68708	M	0.35	0.30	0.02	0.30	-0.10	-0.12
	58	L	68635	J	0.18	0.66				
	59	L	58292	M	0.56	0.53	-0.29	-0.25	0.53	-0.02
	60	L	68059	M	0.29	0.38	0.38	-0.03	-0.24	0.02
	61	O	67970	M	0.38	0.38	0.38	-0.11	-0.15	-0.05
	62	L	51257	M	0.59	0.46	0.46	-0.17	-0.15	-0.12
	63	L	68023	M	0.34	0.34	0.34	-0.11	-0.03	-0.06
	64	L	68782	M	0.45	0.47	-0.18	-0.23	-0.05	0.47

Table A41. Summary Item Statistics - Field Test Items
Algebra - January

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
A	3545	3	79071	M	0.76	0.44	-0.25	0.44	-0.19	-0.24
	3545	12	79527	J	0.40	0.68				
	3545	15	79022	G	0.71	0.33	0.33	-0.28		
	3545	18	79114	M	0.64	0.35	-0.14	-0.19	0.35	-0.14
	3545	22	79096	M	0.18	0.32	-0.12	0.08	-0.16	0.32
	3545	28	79124	M	0.47	0.56	-0.28	-0.23	-0.21	0.56
	3545	30	50418	J	0.51	0.52				
	3545	32	79066	M	0.45	0.26	0.01	-0.26	0.26	-0.16
	3545	34	79029	M	0.86	0.38	-0.22	-0.20	0.38	-0.18
	3545	38	43189	G	0.73	0.51	0.51	-0.44		
B	2605	3	79073	M	0.52	0.25	-0.18	0.25	-0.22	0.00
	2605	15	79087	G	0.80	0.37	0.37	-0.32		
	2605	18	79030	M	0.60	0.37	-0.10	-0.19	-0.24	0.37
	2605	22	79099	M	0.38	0.36	0.36	-0.18	0.01	-0.18
	2605	28	79084	M	0.52	0.41	-0.29	-0.13	0.41	-0.20
	2605	30	50445	J	0.46	0.59				
	2605	32	79056	M	0.94	0.26	-0.11	-0.18	0.26	-0.15
	2605	34	79037	M	0.43	0.35	0.35	-0.14	-0.17	-0.14
	2605	38	43187	G	0.37	0.50	0.50	-0.42		

Note: Values in bold are outside of the accepted range

Table A42. Summary Item Statistics - Field Test Items
Biology - January

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
A	4409	8	79420	M	0.37	0.15	0.15	-0.14	-0.08	0.07
	4409	9	79486	M	0.57	0.49	0.49	-0.23	-0.30	-0.13
	4409	26	79417	M	0.74	0.51	0.51	-0.25	-0.33	-0.18
	4409	27	79475	M	0.25	0.19	-0.14	-0.10	0.05	0.19
	4409	28	79435	M	0.59	0.39	0.39	-0.28	-0.12	-0.15
	4409	33	79444	M	0.55	0.43	-0.15	0.43	-0.23	-0.20
	4409	34	65078	M	0.76	0.49	-0.30	-0.21	0.49	-0.25
	4409	45	79308	M	0.29	0.04	-0.16	0.04	0.16	-0.14
	4409	46	79307	M	0.16	0.24	-0.23	-0.14	0.09	0.24
	4409	51	79440	M	0.58	0.30	-0.11	0.30	-0.20	-0.12
	4409	57	79515	M	0.84	0.50	-0.30	-0.25	-0.23	0.50
	4409	67	79404	M	0.31	-0.04	0.19	-0.09	-0.04	-0.07
	4409	68	65121	M	0.53	0.44	-0.12	-0.24	0.44	-0.22
B	3433	8	79483	M	0.37	-0.10	-0.10	0.03	0.18	-0.16
	3433	9	79453	M	0.47	-0.03	-0.06	0.21	-0.03	-0.14
	3433	26	79520	M	0.55	0.40	-0.14	-0.17	-0.22	0.40
	3433	27	79498	M	0.38	0.05	0.17	0.05	-0.03	-0.24
	3433	28	79401	M	0.37	0.24	0.07	-0.28	0.24	-0.23
	3433	33	65081	M	0.46	0.29	-0.16	0.29	-0.14	-0.08
	3433	34	79474	M	0.39	0.49	0.49	-0.21	-0.25	-0.16
	3433	45	79316	M	0.79	0.47	-0.23	-0.21	-0.31	0.47
	3433	46	79317	M	0.78	0.50	-0.29	-0.27	0.50	-0.24
	3433	51	79492	M	0.41	-0.02	-0.02	0.16	-0.15	0.01
	3433	57	79414	M	0.77	0.43	-0.22	-0.28	-0.21	0.43
	3433	58	79466	M	0.74	0.33	-0.20	0.33	-0.11	-0.20
	3433	67	79468	M	0.62	0.52	-0.20	-0.28	-0.25	0.52
	3433	68	79438	M	0.40	0.35	-0.08	-0.18	-0.14	0.35

Note: Values in bold are outside of the accepted range.

Table A43. Summary Item Statistics - Field Test Items
English - January

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
A	3781	7	95627	M	0.62	0.44	-0.17	0.44	-0.27	-0.21
	3781	8	95628	M	0.51	0.33	-0.25	-0.10	-0.20	0.33
	3781	9	95629	M	0.64	0.25	-0.22	0.25	-0.24	-0.06
	3781	12	95632	M	0.59	0.34	-0.20	-0.21	0.34	-0.15
	3781	15	95635	M	0.53	0.30	-0.01	0.30	-0.26	-0.14
	3781	16	132801	M	0.61	0.43	-0.25	-0.19	-0.22	0.43
	3781	20	95640	M	0.36	0.31	0.31	-0.15	-0.19	-0.02
	3781	21	95641	M	0.63	0.40	-0.19	-0.25	0.40	-0.19
	3781	22	95642	M	0.38	0.29	-0.11	-0.10	0.29	-0.17
ABCD	8345	26	95572	M	0.58	0.41	-0.19	0.41	-0.23	-0.19
ACD	8345	28	95574	M	0.34	0.28	-0.19	0.28	-0.02	-0.14
	3781	44	95654	M	0.66	0.38	-0.13	0.38	-0.25	-0.14
	3781	45	95653	M	0.59	0.46	-0.17	-0.22	-0.21	0.46
	3781	54	95662	M	0.46	0.35	0.35	-0.24	-0.05	-0.21
	3781	57	95665	M	0.83	0.51	-0.21	-0.32	0.51	-0.23
	3781	64	95667	M	0.46	0.43	-0.08	-0.21	-0.23	0.43
	3781	65	95668	M	0.38	0.26	0.26	-0.02	-0.13	-0.16
	3781	66	95669	M	0.64	0.43	-0.21	0.43	-0.19	-0.21
	3781	67	95670	M	0.49	0.33	-0.23	-0.19	0.33	-0.01

Table A43. Summary Item Statistics - Field Test Items(Continued)
English - January

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
B	3540	20	96027	M	0.52	0.35	-0.20	-0.25	-0.10	0.35
	3540	21	96028	M	0.61	0.45	0.45	-0.26	-0.26	-0.12
	3540	22	96029	M	0.44	0.37	0.37	-0.19	-0.19	-0.09
	3540	35	96031	M	0.55	0.28	-0.21	0.28	-0.07	-0.12
	3540	36	96032	M	0.65	0.49	0.49	-0.23	-0.28	-0.21
	3540	39	96035	M	0.61	0.24	0.24	-0.13	-0.27	-0.02
	3540	40	96036	M	0.80	0.55	0.55	-0.31	-0.29	-0.23
	3540	41	96037	M	0.58	0.39	-0.21	-0.24	0.39	-0.08
	3540	42	96038	M	0.51	0.27	-0.12	-0.19	0.27	-0.06
	3540	43	96039	M	0.70	0.50	-0.22	-0.25	-0.28	0.50
	3540	44	96040	M	0.51	0.25	0.25	-0.24	-0.01	-0.08
	3540	45	96041	M	0.78	0.45	-0.23	-0.24	0.45	-0.22
	3540	46	96042	M	0.53	0.37	0.37	-0.20	-0.14	-0.13
	3540	47	96043	M	0.61	0.50	-0.22	-0.28	0.50	-0.17
	3540	53	96049	M	0.65	0.50	-0.28	-0.29	-0.19	0.50
	3540	56	96052	M	0.78	0.42	-0.22	-0.24	0.42	-0.16
	3540	57	96053	M	0.22	0.16	0.16	0.09	-0.13	-0.21
	3540	67	96058	M	0.79	0.53	-0.26	-0.27	-0.26	0.53
	3540	69	96060	M	0.65	0.46	-0.29	-0.18	0.46	-0.19
	3540	70	96061	M	0.54	0.52	-0.31	-0.20	-0.22	0.52
	3540	71	96062	M	0.70	0.50	-0.25	0.50	-0.27	-0.21
	3540	72	96063	M	0.67	0.49	0.49	-0.25	-0.25	-0.19

Table A43. Summary Item Statistics - Field Test Items(Continued)
English - January

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
C	679	3	96293	M	0.63	0.42	-0.19	0.42	-0.26	-0.16
	679	5	96291	M	0.83	0.36	-0.24	-0.16	0.36	-0.20
CD	1024	13	96244	M	0.23	0.09	0.00	0.09	-0.16	0.07
	679	35	96305	M	0.51	0.33	0.33	-0.24	-0.14	-0.03
	679	37	96307	M	0.48	0.50	-0.25	-0.25	-0.16	0.50
	679	47	96317	M	0.45	0.30	-0.17	-0.09	0.30	-0.12
	679	48	96318	M	0.45	0.49	-0.17	-0.20	-0.23	0.49
	679	49	96319	M	0.35	0.34	-0.16	-0.10	-0.11	0.34
	679	50	96322	M	0.28	0.01	-0.08	-0.06	0.01	0.17
	679	51	96320	M	0.41	0.40	0.40	-0.25	-0.24	0.00
	679	52	96321	M	0.53	0.37	0.37	-0.25	-0.08	-0.18
	679	53	96323	M	0.41	0.33	-0.22	0.33	-0.09	-0.07
	679	54	96324	M	0.44	0.34	-0.15	0.34	-0.25	-0.02
	679	55	96325	M	0.40	0.45	0.45	-0.19	-0.17	-0.17
	679	57	96327	M	0.62	0.44	-0.22	0.44	-0.23	-0.16
	679	65	96330	M	0.50	0.48	-0.24	-0.22	-0.16	0.48

Table A43. Summary Item Statistics - Field Test Items (Continued)
English - January

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
D	345	2	96235	M	0.48	0.31	0.31	-0.28	-0.13	-0.01
	345	3	96234	M	0.75	0.37	-0.15	0.37	-0.27	-0.17
	345	5	96236	M	0.49	0.28	-0.23	-0.16	-0.07	0.28
	345	20	96251	M	0.35	0.27	0.27	-0.10	-0.10	-0.06
	345	21	96252	M	0.62	0.46	0.46	-0.17	-0.26	-0.20
	345	22	96253	M	0.39	0.28	-0.11	0.28	-0.09	-0.10
	345	35	96255	M	0.54	0.44	0.44	-0.26	-0.14	-0.12
	345	36	96256	M	0.47	0.30	0.07	-0.25	0.30	-0.17
	345	37	96257	M	0.58	0.52	0.52	-0.26	-0.22	-0.19
	345	38	96258	M	0.38	0.25	-0.06	-0.08	0.25	-0.09
	345	39	96259	M	0.27	0.34	-0.15	0.06	-0.22	0.34
	345	40	96260	M	0.43	0.37	-0.13	-0.20	-0.07	0.37
	345	41	132800	M	0.50	0.42	-0.06	-0.25	0.42	-0.22
	345	42	96262	M	0.34	0.32	-0.18	-0.06	-0.07	0.32
	345	67	96282	M	0.33	0.30	0.03	0.30	-0.18	-0.10
	345	68	96283	M	0.43	0.47	0.47	-0.24	-0.15	-0.08
	345	69	96284	M	0.40	0.31	-0.15	0.31	-0.16	0.06
	345	70	96285	M	0.48	0.41	-0.14	0.41	-0.15	-0.13
	345	71	96287	M	0.38	0.39	-0.05	-0.20	0.39	-0.08

Note: Values in bold are outside the accepted range.

Table A44. Summary Item Statistics - Field Test Items
Government - January

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
A	3834	7	79645	M	0.68	0.22	-0.11	0.22	-0.17	-0.17
	3834	8	79752	M	0.30	0.21	0.21	-0.13	-0.13	0.04
	3834	9	60431	M	0.40	0.22	-0.21	-0.16	-0.03	0.22
	3834	39	79711	M	0.75	0.40	-0.26	-0.14	0.40	-0.24
	3834	40	79683	M	0.44	0.32	-0.33	0.32	-0.22	0.05
B	4367	7	79721	M	0.39	0.31	-0.11	-0.18	0.31	-0.10
	4367	8	79663	M	0.48	0.35	-0.02	0.35	-0.25	-0.30
	4367	9	79617	M	0.40	0.39	0.39	-0.27	-0.04	-0.23
	4367	39	79585	M	0.78	0.40	-0.20	0.40	-0.28	-0.16
	4367	40	79637	M	0.55	0.34	-0.16	0.34	-0.25	-0.06

Note: Values in bold are outside of the accepted range.

Table A45. Summary Item Statistics - Field Test Items

Algebra - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E	14855	4	79035	M	0.37	0.21	0.21	0.01	-0.13	-0.18
	14855	10	106626	M	0.55	0.35	-0.22	-0.13	0.35	-0.19
	14855	12	79526	J	0.49	0.73				
	14855	15	106637	G	0.68	0.54	0.54	-0.50		
	14855	24	79088	M	0.47	0.35	-0.03	-0.25	0.35	-0.15
	14855	29	79147	M	0.34	0.36	-0.15	-0.19	-0.08	0.36
	14855	30	106645	J	0.50	0.72				
	14855	32	106654	M	0.37	0.29	0.29	-0.24	0.03	-0.25
	14855	34	106652	M	0.43	0.39	0.39	-0.16	-0.25	-0.11
	14855	39	106614	G	0.66	0.51	0.51	-0.46		
F	10995	4	106655	M	0.55	0.39	-0.16	0.39	-0.19	-0.21
	10995	10	106578	M	0.34	0.16	-0.07	0.16	-0.20	0.03
	10995	12	50382	J	0.41	0.70				
	10995	15	79016	G	0.17	0.33	0.33	-0.20		
	10995	24	79116	M	0.65	0.32	-0.11	0.32	-0.16	-0.15
	10995	29	106542	M	0.76	0.46	0.46	-0.30	-0.28	-0.14
	10995	32	79076	M	0.75	0.48	-0.37	-0.22	-0.12	0.48
	10995	34	106631	M	0.52	0.33	-0.21	-0.20	-0.07	0.33
	10995	39	106550	G	0.27	0.44	0.44	-0.39		
G	10800	4	79021	M	0.40	0.25	0.25	-0.19	-0.09	-0.05
	10800	10	106627	M	0.48	0.29	-0.24	0.29	-0.13	-0.01
	10800	12	79127	J	0.32	0.62				
	10800	15	106616	G	0.72	0.54	0.54	-0.49		
	10800	24	79034	M	0.32	0.11	0.11	0.03	-0.08	-0.03
	10800	29	79113	M	0.62	0.23	-0.05	0.23	-0.05	-0.24
	10800	30	106581	J	0.42	0.64				
	10800	32	79083	M	0.56	0.40	0.40	-0.23	-0.20	-0.12
	10800	34	106656	M	0.77	0.45	-0.25	0.45	-0.24	-0.22
	10800	39	106559	G	0.53	0.59	0.59	-0.48		

Table A45. Summary Item Statistics - Field Test Items (Continued)

Algebra - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
H	10771	4	50372	M	0.27	0.13	0.13	-0.24	0.13	-0.16
	10771	10	106577	M	0.66	0.41	-0.29	-0.15	-0.16	0.41
	10771	12	79120	J	0.38	0.72				
	10771	15	79012	G	0.70	0.50	0.50	-0.46		
	10771	24	106603	M	0.29	0.25	0.25	0.00	-0.15	-0.05
	10771	29	79036	M	0.20	0.20	-0.13	0.05	-0.16	0.20
	10771	30	106583	J	0.45	0.61				
	10771	32	79131	M	0.52	0.43	-0.25	0.43	-0.18	-0.15
	10771	34	106604	M	0.70	0.27	-0.15	0.27	-0.11	-0.17
	10771	39	79048	G	0.18	0.38	0.38	-0.20		
J	10553	4	106557	M	0.44	0.38	0.38	-0.19	-0.19	-0.09
	10553	10	106628	M	0.81	0.37	-0.17	0.37	-0.24	-0.19
	10553	12	79128	J	0.33	0.63				
	10553	15	106540	G	0.76	0.33	0.33	-0.31		
	10553	24	106549	M	0.50	0.52	0.52	-0.15	-0.21	-0.27
	10553	29	106658	M	0.50	0.34	0.34	-0.10	-0.19	-0.16
	10553	30	106574	J	0.37	0.63				
	10553	32	79072	M	0.46	0.49	-0.11	-0.32	-0.26	0.49
	10553	34	79533	M	0.65	0.39	-0.20	0.39	-0.23	-0.17
	10553	39	106624	G	0.42	0.40	0.40	-0.36		
K	10405	4	79018	M	0.31	0.27	-0.13	-0.15	0.27	-0.04
	10405	10	106579	M	0.60	0.41	-0.21	-0.25	0.41	-0.14
	10405	12	106551	J	0.44	0.69				
	10405	15	106607	G	0.66	0.32	0.32	-0.29		
	10405	24	79534	M	0.52	0.35	-0.05	0.35	-0.24	-0.16
	10405	29	106611	M	0.60	0.46	-0.11	-0.14	-0.38	0.46
	10405	30	79130	J	0.37	0.67				
	10405	32	106620	M	0.79	0.50	-0.38	0.50	-0.27	-0.14
	10405	34	106659	M	0.56	0.43	-0.12	-0.16	0.43	-0.31
	10405	39	106635	G	0.50	0.50	0.50	-0.44		

Note: Values in bold are outside of the accepted range.

Table A46. Summary Item Statistics - Field Test Items
Biology - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E	11307	7	108537	M	0.66	0.36	-0.21	-0.22	0.36	-0.16
	11307	8	108521	M	0.73	0.46	-0.21	0.46	-0.26	-0.25
	11307	24	108593	M	0.37	0.29	-0.06	0.29	-0.16	-0.17
	11307	25	108592	M	0.81	0.46	-0.26	-0.23	-0.23	0.46
	11307	26	108594	M	0.31	0.25	0.25	0.01	-0.15	-0.14
	11307	31	108514	M	0.56	0.46	0.46	-0.25	-0.27	-0.12
	11307	32	108597	M	0.62	0.41	-0.22	0.41	-0.26	-0.15
	11307	45	108564	M	0.47	0.36	-0.27	-0.06	-0.17	0.36
EGJK	34892	46	108625	M	0.38	0.41	0.41	-0.18	-0.15	-0.17
	11307	55	108557	M	0.29	0.26	0.26	-0.13	-0.04	-0.11
	11307	56	108579	M	0.87	0.38	-0.20	-0.22	0.38	-0.18
	11307	57	108656	J	0.18	0.73				
	11307	61	108561	M	0.78	0.49	-0.24	-0.23	-0.29	0.49
	11307	66	108502	M	0.65	0.49	0.49	-0.28	-0.24	-0.18
	11307	67	108497	M	0.50	0.30	-0.11	-0.09	0.30	-0.20
F	8105	7	108599	M	0.66	0.42	-0.31	-0.15	0.42	-0.14
	8105	8	108545	M	0.64	0.47	-0.23	-0.32	-0.16	0.47
	8105	12	108670	J	0.31	0.68				
	8105	24	108549	M	0.68	0.40	-0.15	-0.20	0.40	-0.24
	8105	25	108649	M	0.78	0.48	0.48	-0.26	-0.30	-0.19
	8105	26	108653	M	0.86	0.46	0.46	-0.24	-0.28	-0.23
	8105	31	108580	M	0.43	0.26	0.01	-0.19	-0.15	0.26
	8105	32	108552	M	0.38	0.34	0.34	-0.26	-0.11	-0.04
FGHJK	31690	45	108563	M	0.70	0.40	-0.15	-0.23	0.40	-0.22
	8105	46	108566	M	0.51	0.36	-0.16	0.36	-0.26	-0.12
	8105	55	108532	M	0.59	0.49	-0.19	-0.28	0.49	-0.20
	8105	56	108531	M	0.62	0.49	-0.19	0.49	-0.24	-0.29
	8105	57	108663	J	0.30	0.73				
	8105	61	108577	M	0.47	0.36	-0.17	0.36	-0.23	-0.08
	8105	66	108559	M	0.43	0.37	-0.22	0.37	-0.30	-0.01
	8105	67	108540	M	0.75	0.43	-0.22	-0.25	0.43	-0.19

Table A46. Summary Item Statistics - Field Test Items (Continued)

Biology - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
G	8020	7	108633	M	0.54	0.39	0.39	-0.09	-0.21	-0.26
	8020	8	108631	M	0.68	0.44	0.44	-0.26	-0.23	-0.17
GJK	23585	12	108668	J	0.26	0.77				
	8020	24	108501	M	0.66	0.50	-0.29	-0.25	0.50	-0.20
	8020	25	108495	M	0.88	0.40	-0.22	0.40	-0.25	-0.18
	8020	26	108499	M	0.45	0.30	0.30	-0.24	-0.23	-0.01
	8020	31	108671	M	0.68	0.35	-0.16	0.35	-0.14	-0.21
	8020	32	108569	M	0.93	0.29	0.29	-0.17	-0.17	-0.14
	8020	55	108585	M	0.34	0.30	-0.08	0.30	-0.19	-0.09
	8020	56	108488	M	0.69	0.38	-0.18	0.38	-0.21	-0.20
	8020	57	108655	J	0.30	0.64				
	8020	61	108542	M	0.84	0.43	0.43	-0.23	-0.25	-0.21
	8020	66	108572	M	0.74	0.33	-0.24	0.33	-0.16	-0.11
	8020	67	108517	M	0.49	0.32	-0.11	0.32	-0.20	-0.19
H	7905	7	108673	M	0.48	0.37	-0.22	-0.14	-0.12	0.37
	7905	8	108519	M	0.78	0.33	-0.19	0.33	-0.16	-0.18
	7905	12	108662	J	0.33	0.69				
	7905	24	108556	M	0.55	0.51	-0.17	-0.29	-0.24	0.51
	7905	25	108630	M	0.54	0.40	-0.27	-0.19	-0.13	0.40
	7905	26	108635	M	0.58	0.45	0.45	-0.20	-0.27	-0.18
	7905	31	108527	M	0.52	0.24	0.00	0.24	-0.14	-0.18
	7905	32	108487	M	0.67	0.38	-0.18	-0.20	0.38	-0.20
	7905	45	108567	M	0.80	0.44	-0.24	-0.25	0.44	-0.21
	7905	46	108565	M	0.64	0.35	-0.08	-0.21	-0.23	0.35
	7905	55	108560	M	0.48	0.44	-0.23	0.44	-0.20	-0.14
	7905	56	108483	M	0.66	0.37	-0.25	-0.19	0.37	-0.15
	7905	57	108664	J	0.27	0.71				
	7905	61	108646	M	0.62	0.42	-0.21	0.42	-0.22	-0.17
	7905	66	108641	M	0.50	0.48	0.48	-0.26	-0.22	-0.14
	7905	67	108639	M	0.56	0.47	-0.23	-0.24	0.47	-0.19

Table A46. Summary Item Statistics - Field Test Items (Continued)

Biology - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
J	7846	7	108645	M	0.38	0.51	-0.25	0.51	-0.15	-0.22
	7846	8	108596	M	0.70	0.41	-0.33	-0.21	0.41	-0.09
	7846	24	108677	M	0.41	0.33	0.33	-0.14	-0.19	-0.07
	7846	25	108676	M	0.45	0.24	0.24	0.05	-0.17	-0.26
	7846	26	108675	M	0.30	0.21	0.21	0.05	-0.02	-0.25
	7846	31	108510	M	0.72	0.31	-0.23	-0.13	0.31	-0.09
	7846	32	108650	M	0.81	0.44	-0.22	0.44	-0.22	-0.27
	7846	55	108644	M	0.77	0.44	0.44	-0.23	-0.23	-0.22
	7846	56	108672	M	0.57	0.50	-0.25	-0.15	-0.30	0.50
	7846	57	108665	J	0.23	0.66				
	7846	61	108486	M	0.65	0.25	0.25	-0.06	-0.16	-0.15
	7846	66	108493	M	0.62	0.40	-0.22	0.40	-0.23	-0.17
	7846	67	108494	M	0.54	0.44	-0.27	-0.21	0.44	-0.13
K	7719	7	108507	M	0.76	0.37	-0.21	-0.14	-0.26	0.37
	7719	8	108504	M	0.38	-0.03	-0.28	0.30	-0.14	-0.03
	7719	24	108535	M	0.47	0.30	-0.24	-0.18	0.30	0.01
	7719	25	108534	M	0.49	0.35	-0.20	0.35	-0.14	-0.11
	7719	26	108533	M	0.45	0.31	-0.23	-0.03	0.31	-0.21
	7719	31	108523	M	0.88	0.42	-0.24	-0.21	0.42	-0.23
	7719	32	108520	M	0.52	0.35	-0.14	0.35	-0.20	-0.15
	7719	55	108528	M	0.80	0.38	-0.21	0.38	-0.21	-0.18
	7719	56	108530	M	0.81	0.38	-0.20	-0.25	0.38	-0.13
	7719	61	108562	M	0.54	0.45	0.45	-0.30	-0.14	-0.16
	7719	66	108515	M	0.52	0.45	-0.18	0.45	-0.15	-0.26
	7719	67	108546	M	0.67	0.52	-0.32	0.52	-0.24	-0.18

Note: Values in bold are outside of the accepted range.

Table A47. Summary Item Statistics - Field Test Items

English - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E	6799	14	130036	M	0.43	0.31	-0.05	0.31	-0.20	-0.11
	6799	15	130032	M	0.67	0.43	-0.29	-0.07	-0.31	0.43
	6799	16	130033	M	0.65	0.34	0.34	-0.05	-0.30	-0.16
	6799	17	130034	M	0.42	0.42	0.42	-0.27	-0.15	-0.09
	6799	18	130037	M	0.62	0.43	-0.13	-0.30	-0.17	0.43
	6799	19	130035	M	0.65	0.51	-0.27	-0.20	-0.29	0.51
	6799	38	108857	M	0.58	0.43	-0.23	-0.18	0.43	-0.21
	6799	39	108862	M	0.63	0.52	0.52	-0.28	-0.29	-0.18
	6799	40	108861	M	0.41	0.32	-0.07	-0.13	-0.17	0.32
	6799	41	108864	M	0.74	0.58	-0.30	0.58	-0.25	-0.32
	6799	42	108863	M	0.55	0.34	0.34	-0.14	-0.13	-0.20
	6799	44	108868	M	0.57	0.41	-0.11	-0.25	0.41	-0.22
	6799	45	108866	J	0.47	0.70				
	6799	46	108870	M	0.32	0.14	-0.11	0.08	0.14	-0.12
	6799	47	108872	M	0.50	0.25	-0.10	-0.13	0.25	-0.07
	6799	48	108873	M	0.62	0.45	0.45	-0.22	-0.23	-0.18
	6799	66	130048	M	0.63	0.47	-0.18	-0.23	0.47	-0.22
	6799	69	130052	M	0.69	0.44	-0.22	-0.24	0.44	-0.17
	6799	70	130051	M	0.65	0.50	-0.24	-0.30	-0.20	0.50
	6799	72	130053	M	0.65	0.50	0.50	-0.30	-0.18	-0.25
	6799	73	130055	M	0.49	0.37	-0.11	0.37	-0.15	-0.21
	6799	74	130057	M	0.58	0.48	0.48	-0.28	-0.23	-0.15
	6799	75	130058	M	0.67	0.42	0.42	-0.23	-0.21	-0.16

Table A47. Summary Item Statistics - Field Test Items (Continued)

English - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
F	7781	20	108761	M	0.74	0.45	-0.19	-0.30	0.45	-0.20
	7781	21	108760	M	0.39	0.06	-0.26	0.22	-0.24	0.06
	7781	22	108762	M	0.66	0.44	0.44	-0.18	-0.25	-0.20
	7781	35	130068	M	0.77	0.50	0.50	-0.31	-0.23	-0.24
	7781	36	130198	M	0.84	0.52	-0.29	-0.29	0.52	-0.24
	7781	37	130202	M	0.63	0.40	-0.10	0.40	-0.26	-0.26
	7781	38	108844	M	0.63	0.46	-0.18	0.46	-0.25	-0.26
	7781	39	108845	M	0.30	0.29	-0.16	0.06	-0.21	0.29
	7781	40	108847	M	0.45	0.39	-0.11	0.39	-0.30	-0.12
	7781	41	108848	M	0.64	0.49	0.49	-0.16	-0.33	-0.25
	7781	42	108849	M	0.73	0.49	-0.25	-0.21	0.49	-0.28
	7781	43	108846	M	0.67	0.50	0.50	-0.34	-0.23	-0.16
	7781	44	130212	M	0.63	0.48	-0.26	0.48	-0.25	-0.17
	7781	45	130070	M	0.66	0.45	0.45	-0.24	-0.24	-0.18
	7781	46	130071	M	0.63	0.45	-0.24	0.45	-0.21	-0.20
	7781	47	130072	M	0.49	0.41	-0.21	-0.11	-0.29	0.41
	7781	48	130073	M	0.35	0.17	-0.02	0.00	0.17	-0.25
	7781	53	130203	M	0.40	0.17	0.17	-0.29	0.07	-0.14
	7781	69	130077	M	0.56	0.39	-0.12	-0.28	0.39	-0.15
	7781	70	130078	M	0.57	0.48	-0.27	-0.16	-0.29	0.48
	7781	71	130207	M	0.71	0.53	0.53	-0.30	-0.27	-0.21
	7781	72	130079	M	0.59	0.54	-0.28	-0.22	-0.26	0.54
	7781	73	130208	M	0.61	0.48	-0.20	-0.28	0.48	-0.18
	7781	74	130209	M	0.60	0.53	-0.27	-0.21	-0.26	0.53
	7781	75	130210	M	0.63	0.48	-0.25	-0.22	0.48	-0.21
	7781	76	130080	J	0.41	0.70				

Table A47. Summary Item Statistics - Field Test Items (Continued)

English - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
G	5521	14	108912	M	0.71	0.39	-0.16	-0.26	-0.21	0.39
	5521	16	108914	M	0.48	0.28	-0.12	-0.12	-0.11	0.28
	5521	17	108913	M	0.44	0.29	-0.21	-0.04	0.29	-0.14
	5521	18	130216	M	0.51	0.31	0.31	-0.22	-0.11	-0.10
	5521	19	109738	J	0.44	0.63				
	5521	20	108722	M	0.56	0.44	0.44	-0.16	-0.28	-0.16
	5521	21	108723	M	0.65	0.43	0.43	-0.21	-0.24	-0.15
	5521	22	108724	M	0.65	0.41	-0.18	0.41	-0.14	-0.26
	5521	35	130217	M	0.56	0.32	-0.09	0.32	-0.27	-0.07
	5521	36	130218	M	0.45	0.36	-0.24	-0.12	0.36	-0.11
	5521	42	130223	M	0.54	0.35	0.35	-0.16	-0.19	-0.09
	5521	43	130227	M	0.62	0.43	-0.12	-0.15	-0.33	0.43
	5521	44	130224	M	0.61	0.44	-0.23	0.44	-0.26	-0.13
	5521	53	96153	M	0.45	0.25	0.25	-0.16	-0.27	0.05
	5521	54	96154	M	0.63	0.26	-0.26	0.26	0.03	-0.23
	5521	56	130089	M	0.66	0.36	-0.14	-0.13	-0.25	0.36
	5521	66	108884	M	0.74	0.54	0.54	-0.31	-0.27	-0.20
	5521	67	108885	M	0.44	0.28	-0.28	-0.06	0.28	-0.08
	5521	68	108886	M	0.45	0.29	-0.10	0.29	-0.13	-0.10
	5521	70	108887	M	0.43	0.19	-0.24	0.05	0.19	-0.10

Table A47. Summary Item Statistics - Field Test Items (Continued)

English - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
H	5920	14	108712	M	0.62	0.15	0.15	0.03	-0.23	-0.10
	5920	15	108713	M	0.70	0.38	-0.16	-0.26	0.38	-0.12
	5920	16	108714	M	0.60	0.44	-0.20	-0.24	0.44	-0.17
	5920	17	109730	M	0.65	0.41	-0.25	-0.14	0.41	-0.26
	5920	18	109731	M	0.64	0.48	-0.23	-0.24	-0.21	0.48
	5920	37	130096	M	0.77	0.49	-0.23	0.49	-0.27	-0.25
	5920	38	130097	M	0.54	0.33	0.33	-0.14	-0.10	-0.20
	5920	39	130306	M	0.80	0.49	-0.25	0.49	-0.25	-0.25
	5920	40	130098	M	0.75	0.43	0.43	-0.29	-0.22	-0.18
	5920	41	130099	M	0.64	0.35	-0.23	-0.26	-0.09	0.35
	5920	42	130100	M	0.74	0.54	0.54	-0.26	-0.31	-0.23
	5920	43	130101	M	0.78	0.46	0.46	-0.31	-0.24	-0.15
	5920	44	130237	M	0.62	0.46	-0.11	-0.31	-0.26	0.46
	5920	45	130303	M	0.78	0.48	-0.19	0.48	-0.29	-0.27
	5920	46	130307	J	0.50	0.67				
	5920	47	130102	M	0.62	0.48	0.48	-0.27	-0.26	-0.16
	5920	48	130103	M	0.64	0.47	-0.25	-0.24	0.47	-0.19
	5920	49	130104	M	0.65	0.49	-0.28	-0.25	-0.17	0.49
	5920	50	130105	M	0.66	0.41	-0.25	-0.12	0.41	-0.21
	5920	68	130240	M	0.72	0.53	-0.24	0.53	-0.28	-0.24
	5920	69	108763	M	0.66	0.47	-0.27	-0.25	0.47	-0.19
	5920	70	108764	M	0.29	0.24	-0.17	0.05	0.24	-0.16
	5920	73	130241	M	0.69	0.55	-0.21	-0.28	-0.31	0.55
	5920	74	130242	M	0.62	0.42	-0.17	-0.24	0.42	-0.16
	5920	75	130338	M	0.64	0.48	-0.20	0.48	-0.23	-0.25
	5920	76	130243	M	0.44	0.21	0.01	-0.19	0.21	-0.09
	5920	77	130244	M	0.54	0.37	-0.07	0.37	-0.26	-0.16

Table A47. Summary Item Statistics - Field Test Items (Continued)

English - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
J	5378	17	108809	M	0.44	0.34	-0.30	-0.05	0.34	-0.18
	5378	18	108805	M	0.68	0.46	0.46	-0.31	-0.23	-0.14
	5378	22	130109	M	0.62	0.43	0.43	-0.20	-0.24	-0.15
	5378	23	130110	M	0.62	0.46	0.46	-0.27	-0.24	-0.13
	5378	24	130111	M	0.54	0.35	-0.21	-0.05	-0.27	0.35
	5378	37	130113	M	0.88	0.40	0.40	-0.21	-0.23	-0.20
	5378	38	130114	M	0.69	0.39	0.39	-0.25	-0.15	-0.21
	5378	39	130115	M	0.67	0.41	0.41	-0.23	-0.23	-0.17
	5378	40	108820	M	0.76	0.39	-0.12	0.39	-0.27	-0.22
	5378	41	109744	M	0.72	0.49	-0.21	-0.29	-0.23	0.49
	5378	42	108822	M	0.51	0.45	-0.27	-0.13	-0.28	0.45
	5378	43	108823	M	0.57	0.37	-0.19	-0.14	0.37	-0.20
	5378	44	108827	M	0.76	0.42	-0.22	0.42	-0.25	-0.16
	5378	45	108824	M	0.75	0.48	-0.27	-0.21	-0.29	0.48
	5378	46	108826	M	0.28	0.20	0.20	-0.05	-0.08	-0.06
	5378	48	130139	M	0.57	0.32	-0.07	-0.27	0.32	-0.18
	5378	51	130119	M	0.38	0.21	-0.13	0.21	0.01	-0.14
	5378	59	135488	M	0.80	0.33	0.33	-0.21	-0.13	-0.16
	5378	69	130130	M	0.51	0.43	0.43	-0.28	-0.29	-0.09
	5378	70	130132	M	0.61	0.36	0.36	-0.14	-0.24	-0.11
	5378	71	130136	M	0.75	0.47	-0.23	-0.23	0.47	-0.24
	5378	72	130133	M	0.57	0.33	-0.12	-0.09	-0.29	0.33
	5378	73	130294	M	0.78	0.45	-0.27	-0.25	0.45	-0.17
	5378	74	130293	M	0.76	0.54	-0.27	-0.31	0.54	-0.24
	5378	75	130135	M	0.47	0.40	-0.14	-0.27	0.40	-0.13
	5378	76	130137	J	0.47	0.65				

Table A47. Summary Item Statistics - Field Test Items (Continued)

English - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
K	5357	4	130300	M	0.93	0.37	-0.19	0.37	-0.22	-0.22
	5357	17	108704	M	0.41	0.21	0.21	-0.19	-0.28	0.07
	5357	21	130296	M	0.64	0.45	-0.25	0.45	-0.24	-0.14
	5357	22	130297	M	0.63	0.35	0.35	-0.10	-0.19	-0.20
	5357	23	130298	M	0.71	0.41	0.41	-0.20	-0.20	-0.21
	5357	37	108788	M	0.78	0.53	-0.28	0.53	-0.31	-0.25
	5357	38	108785	M	0.65	0.43	-0.17	-0.27	-0.24	0.43
	5357	39	108786	M	0.39	0.19	-0.27	0.02	0.19	-0.25
	5357	40	108790	M	0.69	0.49	-0.20	-0.29	-0.25	0.49
	5357	41	108787	M	0.83	0.51	0.51	-0.30	-0.31	-0.21
	5357	42	130252	M	0.42	0.28	0.28	-0.22	-0.16	0.01
	5357	43	108789	M	0.37	0.26	-0.24	-0.15	0.26	0.01
	5357	45	108794	J	0.49	0.70				
	5357	52	130148	M	0.74	0.43	0.43	-0.18	-0.24	-0.25
	5357	63	130255	M	0.83	0.48	-0.27	-0.27	0.48	-0.20
	5357	66	108811	M	0.76	0.46	-0.21	-0.27	0.46	-0.20
	5357	67	108812	M	0.53	0.41	-0.17	-0.19	0.41	-0.16
	5357	68	108813	M	0.54	0.42	-0.26	0.42	-0.25	-0.05
	5357	69	108815	M	0.57	0.35	-0.28	0.02	-0.28	0.35
	5357	70	108817	M	0.72	0.50	-0.28	0.50	-0.27	-0.19
	5357	71	108816	M	0.59	0.39	-0.20	-0.29	0.39	-0.10
	5357	72	108814	M	0.49	0.38	-0.19	-0.21	0.38	-0.06
	5357	73	108818	M	0.63	0.49	-0.27	-0.13	-0.32	0.49

Table A47. Summary Item Statistics - Field Test Items (Continued)

English - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
L	5259	14	108718	M	0.82	0.44	-0.25	-0.25	0.44	-0.22
	5259	15	108717	M	0.73	0.30	0.30	-0.22	-0.11	-0.21
	5259	16	108719	M	0.63	0.38	-0.19	0.38	-0.29	-0.14
	5259	17	108716	M	0.79	0.48	-0.22	-0.28	-0.24	0.48
	5259	18	108715	M	0.68	0.36	0.36	-0.21	-0.22	-0.10
	5259	19	96136	M	0.72	0.44	0.44	-0.28	-0.21	-0.15
	5259	24	96141	M	0.14	0.09	0.09	0.22	-0.21	-0.20
	5259	38	130155	M	0.85	0.46	-0.22	-0.31	0.46	-0.20
	5259	39	130158	M	0.73	0.38	-0.22	-0.22	0.38	-0.15
	5259	40	130159	M	0.78	0.42	-0.29	-0.24	0.42	-0.16
	5259	41	130259	M	0.82	0.38	-0.24	0.38	-0.21	-0.16
	5259	42	130156	M	0.81	0.46	-0.30	-0.26	-0.22	0.46
	5259	43	130157	M	0.57	0.43	-0.22	-0.29	-0.18	0.43
	5259	44	130160	M	0.80	0.44	-0.24	0.44	-0.26	-0.23
	5259	45	130161	J	0.52	0.70				
	5259	46	130162	M	0.64	0.36	0.36	-0.23	-0.25	-0.08
	5259	47	130163	M	0.55	0.39	-0.22	-0.24	-0.16	0.39
	5259	48	130164	M	0.66	0.34	0.34	-0.23	-0.23	-0.05
	5259	66	130264	M	0.77	0.51	0.51	-0.25	-0.23	-0.29
	5259	69	96387	M	0.70	0.42	-0.27	-0.21	0.42	-0.13
	5259	70	130265	M	0.47	0.28	-0.17	-0.05	0.28	-0.13
	5259	71	96227	M	0.77	0.42	-0.20	0.42	-0.24	-0.20
	5259	72	96228	M	0.69	0.48	0.48	-0.24	-0.21	-0.24
	5259	74	96230	M	0.71	0.53	-0.25	-0.25	-0.27	0.53
	5259	75	130267	M	0.44	0.38	-0.15	0.38	-0.22	-0.08

Table A47. Summary Item Statistics - Field Test Items (Continued)

English - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
M	5221	16	108903	M	0.89	0.49	0.49	-0.26	-0.33	-0.21
	5221	18	108905	M	0.30	0.24	-0.13	-0.09	-0.05	0.24
	5221	22	130308	M	0.68	0.42	-0.25	0.42	-0.23	-0.16
	5221	23	130271	M	0.58	0.42	-0.23	-0.15	0.42	-0.19
	5221	24	130302	M	0.81	0.43	-0.26	-0.24	0.43	-0.20
	5221	37	130165	M	0.77	0.46	-0.24	-0.32	0.46	-0.14
	5221	38	130166	M	0.76	0.41	0.41	-0.23	-0.29	-0.12
	5221	39	130167	M	0.80	0.50	-0.22	-0.29	-0.30	0.50
	5221	40	130274	M	0.82	0.44	-0.28	0.44	-0.28	-0.15
	5221	42	130168	M	0.83	0.55	-0.30	-0.32	0.55	-0.24
	5221	43	109093	M	0.38	0.18	-0.14	0.18	-0.03	-0.03
	5221	44	109094	M	0.63	0.40	-0.23	-0.14	-0.27	0.40
	5221	45	109732	M	0.52	0.29	-0.28	0.29	-0.03	-0.17
	5221	46	109095	M	0.47	0.25	-0.13	0.25	-0.04	-0.23
	5221	47	109096	M	0.60	0.46	-0.24	-0.22	-0.20	0.46
	5221	50	130172	M	0.79	0.50	-0.30	-0.29	0.50	-0.18
	5221	67	108795	M	0.47	0.19	-0.12	-0.02	0.19	-0.12
	5221	68	108796	M	0.52	0.43	-0.25	-0.18	0.43	-0.14
	5221	69	108797	M	0.33	0.19	0.19	-0.13	-0.15	0.08
	5221	70	108799	M	0.55	0.35	0.35	-0.25	-0.08	-0.15
	5221	71	108798	M	0.64	0.44	0.44	-0.23	-0.30	-0.11
	5221	73	108801	M	0.70	0.49	0.49	-0.25	-0.27	-0.19
	5221	74	135491	M	0.48	0.34	0.34	-0.17	-0.28	-0.02
	5221	75	108803	M	0.45	0.36	-0.17	-0.23	-0.08	0.36
	5221	76	108804	J	0.34	0.66				

Note: Values in bold are outside of the accepted range.

Table A48. Summary Item Statistics - Field Test Items

Government - May

Form	N	Pos_No	ItemID	Item Type	P_Val	R_ITT	P_BIS1	P_BIS2	P_BIS3	P_BIS4
E	9814	5	108338	M	0.64	0.59	-0.17	-0.25	-0.44	0.59
	9814	17	108377	M	0.40	0.10	0.10	-0.01	-0.19	0.01
	9814	18	108375	M	0.56	0.49	0.49	-0.21	-0.26	-0.22
	9814	34	108394	M	0.43	0.48	0.48	-0.26	-0.21	-0.14
	9814	41	108457	M	0.53	0.49	-0.22	0.49	-0.27	-0.18
F	8824	5	108345	M	0.44	0.33	-0.20	-0.06	-0.17	0.33
	8824	17	108367	M	0.76	0.35	-0.19	-0.25	-0.16	0.35
	8824	18	108438	M	0.53	0.29	-0.16	-0.13	-0.14	0.29
	8824	34	108477	M	0.76	0.42	-0.20	-0.23	-0.21	0.42
	8824	41	108422	M	0.52	0.49	-0.25	0.49	-0.23	-0.19
G	10719	5	79573	M	0.54	0.54	-0.22	-0.25	0.54	-0.30
	10719	17	79623	M	0.58	0.17	-0.09	0.17	-0.05	-0.11
	10719	18	108403	M	0.66	0.38	-0.25	-0.18	0.38	-0.16
	10719	34	108428	M	0.39	0.27	0.27	-0.19	0.00	-0.17
	10719	41	108415	M	0.57	0.39	-0.11	-0.16	-0.27	0.39
	8690	48	79538	J	0.36	0.70				
H	8687	5	79564	M	0.62	0.45	-0.20	-0.23	0.45	-0.26
	8687	17	108429	M	0.83	0.43	-0.16	-0.24	-0.28	0.43
	8687	18	79654	M	0.36	0.19	-0.11	0.19	-0.16	0.01
	8687	34	108470	M	0.60	0.27	-0.19	0.27	-0.20	-0.08
	8687	41	79640	M	0.76	0.47	-0.26	-0.20	-0.29	0.47
J	8574	5	79747	M	0.41	0.24	-0.07	0.24	-0.16	-0.07
	8574	17	65215	M	0.75	0.38	0.38	-0.17	-0.27	-0.15
	8574	18	108468	M	0.84	0.50	-0.28	0.50	-0.31	-0.21
	8574	34	108396	M	0.66	0.49	-0.23	-0.19	-0.28	0.49
	8574	41	108473	M	0.66	0.45	-0.24	-0.21	0.45	-0.23
	8574	48	108361	J	0.39	0.74				
K	8443	5	79591	M	0.50	0.40	-0.03	-0.12	0.40	-0.35
	8443	17	108445	M	0.40	0.35	0.35	-0.15	-0.17	-0.12
	8443	18	108460	M	0.73	0.21	-0.07	-0.22	0.21	-0.04
	8443	34	108475	M	0.73	0.48	-0.24	0.48	-0.27	-0.23
	8443	41	108467	M	0.65	0.46	0.46	-0.23	-0.28	-0.17
	8443	48	60421	J	0.32	0.69				

Note: Values in bold are outside of the accepted range.