

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 MDHSAs. The demographic characteristics of the students are given in Tables 4.1 to 4.4 for the January, May, and Summer administrations of Algebra, Biology, English, 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 Summer administration, the Summer forms did not contain new field test items. Instead, the May field test sections were embedded in the Summer forms 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		Summer Forms	
		N	%	N	%	N	%	N	%	N	%
Overall		10,869	100.00	1,453	100.00	68,345	100.00	4,460	100.00	1,329	100.00
Gender											
	Male	5,511	50.70	729	50.17	33,845	49.52	2,323	52.09	747	56.21
	Female	5,357	49.29	723	49.76	34,498	50.48	2,137	47.91	582	43.79
	Missing	1	0.01	1	0.07	2	0.00	0	0.00	0	0.00
Special Education											
	Yes	1,557	14.33	233	16.04	6,736	9.86	626	14.04	208	15.65
	No	9,121	83.92	1,190	81.90	60,347	88.30	3,758	84.26	1,093	82.24
	504 ^a	191	1.76	30	2.06	1,262	1.85	76	1.70	28	2.11
Ethnicity											
	American Indian	42	0.39	8	0.55	242	0.35	20	0.45	5	0.38
	Asian/Pacific Islander	312	2.87	29	2.00	3,920	5.74	145	3.25	40	3.01
	African American	6,501	59.81	1,060	72.95	26,882	39.33	2,458	55.11	851	64.03
	White	3,327	30.61	280	19.27	32,419	47.43	1,504	33.72	364	27.39
	Hispanic	686	6.31	75	5.16	4,878	7.14	333	7.47	69	5.19
	Missing	1	0.01	1	0.07	4	0.01	0	0.00	0	0.00
Limited English											
Proficient	Yes	294	2.70	15	1.03	1,789	2.62	103	2.31	21	1.58
	No	10,453	96.17	1,431	98.49	65,987	96.55	4,328	97.04	1,302	97.97
	Exited ^b	122	1.12	7	0.48	569	0.83	29	0.65	6	0.45

^a A 504 plan is a legal document falling under the provisions of the Rehabilitation Act of 1973 that provides a program of instructional services to assist students with special needs who are in a regular education setting.

^b LEP Exited indicates students who have exited English language acquisition services

Table 4.2 Demographic Information for Biology

		January Primary Forms		January Make-Up Forms		May Primary Forms		May Make-Up Forms		Summer Forms	
		N	%	N	%	N	%	N	%	N	%
Overall		7,362	100.00	844	100.00	49,882	100.00	2,374	100.00	470	100.00
Gender											
	Male	3,803	51.66	450	53.32	24,565	49.25	1,281	53.96	303	64.47
	Female	3,559	48.34	394	46.68	25,317	50.75	1,093	46.04	167	35.53
	Missing	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Special Education											
	Yes	802	10.89	99	11.73	4,477	8.98	348	14.66	82	17.45
	No	6,399	86.92	728	86.26	44,519	89.25	1,984	83.57	368	78.30
	504	161	2.19	17	2.01	886	1.78	42	1.77	20	4.26
Ethnicity											
	American Indian	21	0.29	2	0.24	163	0.33	18	0.76	2	0.43
	Asian/Pacific Islander	227	3.08	12	1.42	3,210	6.44	87	3.66	17	3.62
	African American	2,321	31.53	535	63.39	17,712	35.51	1,165	49.07	250	53.19
	White	4,454	60.50	246	29.15	25,587	51.30	931	39.22	170	36.17
	Hispanic	339	4.60	49	5.81	3,210	6.44	173	7.29	31	6.60
	Missing	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Limited English											
Proficient	Yes	114	1.55	16	1.90	956	1.92	46	1.94	6	1.28
	No	7,186	97.61	825	97.75	48,504	97.24	2,310	97.30	462	98.30
	Exited	62	0.84	3	0.36	422	0.85	18	0.76	2	0.43

Table 4.3 Demographic Information for English

		January Primary Forms		January Make-Up Forms		May Primary Forms		May Make-Up Forms		Summer Forms	
		N	%	N	%	N	%	N	%	N	%
Overall		6,563	100.00	605	100.00	55,390	100.00	2,576	100.00	1,128	100.00
Gender											
	Male	3,330	50.74	333	55.04	27,319	49.32	1,342	52.10	708	62.77
	Female	3,233	49.26	272	44.96	28,071	50.68	1,234	47.90	420	37.23
	Missing	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Special Education											
	Yes	577	8.79	59	9.75	5,224	9.43	354	13.74	166	14.72
	No	5,839	88.97	537	88.76	49,175	88.78	2,167	84.12	924	81.91
	504	147	2.24	9	1.49	991	1.79	55	2.14	38	3.37
Ethnicity											
	American Indian	18	0.27	3	0.50	182	0.33	14	0.54	3	0.27
	Asian/Pacific Islander	224	3.41	21	3.47	3,312	5.98	68	2.64	31	2.75
	African American	1,450	22.09	313	51.74	20,932	37.79	1,276	49.53	665	58.95
	White	4,522	68.90	218	36.03	27,324	49.33	1,051	40.80	349	30.94
	Hispanic	349	5.32	50	8.26	3,640	6.57	167	6.48	80	7.09
	Missing	0	0.00	0	0.00	0.00	0.00	0	0.00	0.00	0.00
Limited English											
Proficient	Yes	142	2.16	19	3.14	756	1.36	37	1.44	22	1.95
	No	6,265	95.46	557	92.07	53,936	97.37	2,508	97.36	1,091	96.72
	Exited	156	2.38	29	4.79	698	1.26	31	1.20	15	1.33

Table 4.4 Demographic Information for Government

		January Primary Forms		January Make-Up Forms		May Primary Forms		May Make-Up Forms		Summer Forms	
		N	%	N	%	N	%	N	%	N	%
Overall		8,944	100.00	967	100.00	55,877	100.00	3,749	100.00	614	100.00
Gender											
	Male	4,621	51.67	500	51.71	27,720	49.61	1,889	50.39	339	55.21
	Female	4,323	48.33	467	48.29	28,157	50.39	1,860	49.61	275	44.79
	Missing	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Special Education											
	Yes	1,121	12.53	154	15.93	5,227	9.35	524	13.98	129	21.01
	No	7,633	85.34	796	82.32	49,801	89.13	3,153	84.10	465	75.73
	504	190	2.12	17	1.76	849	1.52	72	1.92	20	3.26
Ethnicity											
	American Indian	20	0.22	4	0.41	200	0.36	16	0.43	1	0.16
	Asian/Pacific Islander	233	2.61	11	1.14	3,440	6.16	129	3.44	11	1.79
	African American	2,612	29.20	596	61.63	21,763	38.95	1,858	49.56	350	57.00
	White	5,699	63.72	305	31.54	26,733	47.84	1,514	40.38	210	34.20
	Hispanic	380	4.25	51	5.27	3,741	6.70	232	6.19	42	6.84
	Missing	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
Limited English											
Proficient	Yes	91	1.02	11	1.14	1,160	2.08	74	1.97	8	1.30
	No	8,786	98.23	948	98.04	54,184	96.97	3,648	97.31	603	98.21
	Exited	67	0.75	8	0.83	533	0.95	27	0.72	3	0.49

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." For the HSA tests, strata are defined by item type and, where applicable, score points within item type. The Biology, English and Government tests have three strata: one stratum comprises the SR items, one comprises the 3-point CR items, and the third comprises the 4-point CR items. For the Algebra tests, a fourth stratum is comprised of the SPR items. The formula for calculating the stratified alpha is:

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

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 0.87 to 0.95 for the make-up forms.

Summary Statistics

The mean scale scores by content area for the January, May, and Summer 2007 administrations are presented in Table 4.5. Scores for all content areas were higher on average for the May administration compared to the January and Summer administrations.

Table 4.5 Mean Scale Scores by Administration

	January			May			Summer		
	N	Mean	SD	N	Mean	SD	N	Mean	SD
Algebra	12,322	394.98	35.73	72,805	426.24	41.39	1,329	389.87	42.87
Biology	8,206	403.69	48.52	52,256	416.50	37.07	470	382.98	43.90
English	7,168	405.83	37.90	57,966	413.42	35.80	1,128	379.29	39.46
Government	9,911	406.31	41.66	59,626	419.22	41.07	614	379.34	37.83

The 2007 data presented in Tables 4.6 to 4.8 are based on students who took the tests in January, May, and Summer. The mean scale scores are presented for the years 2003 to 2007 by content area in Table 4.6. For Algebra, Biology and Government, the mean scale scores are higher in 2006 and 2007 compared to the earlier years, and the 2006 and 2007 results are comparable. The mean scale scores for English indicate that student performance improved from 2006 to 2007.

Table 4.6 Comparison of Mean Scores

	2003	2004	2005	2006	2007
Algebra	408.3	411.9	409.5	421.5	421.2
Biology	400.8	406.2	404.7	415.0	414.5
English	--	--	--	393.0	412.0
Government	403.5	406.5	409.3	418.5	417.1

Note: The current English test was not administered prior to 2006.

Table 4.7 presents the passing rates for the years 2003 to 2007 by content area. The passing rates for Algebra, Biology and Government are higher in 2006 and 2007 compared to the passing rates for 2003, 2004, and 2005. Comparing the results of 2006 and 2007, the passing rates are lower for Algebra and Government and higher for Biology and English in 2007.

Table 4.7 Comparison of Percentage Passing Rates

	2003	2004	2005	2006	2007
Algebra	53.1	59.3	54.5	66.6	63.3
Biology	54.3	62.0	58.4	67.8	70.1
English	--	--	--	60.1	70.6
Government	39.8	54.6	67.1	74.1	73.3

Note: The current English test was not administered prior to 2006.

The Algebra and English tests are used for the high school mathematics and English/language arts components of the MSDE Adequate Yearly Progress report as required under the NCLB act. Table 4.8 presents the percentage of Algebra and English students classified as Basic, Proficient, and Advanced in 2007. As can be seen in the table, approximately 37 percent of Algebra students achieved the Basic performance level, whereas 63 percent achieved the Proficient or Advanced performance levels. Approximately 30 percent of the English students achieved the Basic performance level, whereas 70 percent achieved the Proficient or Advanced performance levels.

Table 4.8 Performance Classification Percentages in 2007 for Algebra and English

	Algebra	English
Basic	36.7	29.5
Proficient	38.3	41.0
Advanced	25.0	29.5

Summary statistics for all students and for subgroups based on gender, special education programs, ethnicity, and English language fluency are presented in Tables 4.9 through 4.20. The tables include the number of students tested for whom valid scores were available, mean scale scores, and standard deviations of scale scores. In addition, raw score reliabilities are provided for the overall group of examinees. Information is presented for the January primary and make-up forms of the content area, followed by the May primary and make-up forms, and the Summer forms.

Results indicate that for each content area, students who took the January or May primary forms scored higher on average than students who took the January or May make-up forms or Summer forms. In addition, performance was higher on the primary and make-up forms administered in May compared to the forms administered in January. In all administrations and content areas, performance varied over subgroup. At the overall examinee level, score reliability coefficients ranged from 0.87 to 0.95.

Table 4.9 Summary Statistics for Algebra: January Forms

ALG		Primary Forms A, B					Make-Up 1 Form C					Make-Up 2 Form D				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		396.70	35.19	10869	100.00	0.89	383.25	37.30	1035	100.00	0.87	379.17	36.60	418	100.00	0.88
Gender																
	Male	396.27	38.30	5511	50.70		382.11	40.07	519	50.14		377.35	39.57	210	50.24	
	Female	397.16	31.65	5357	49.29		384.68	33.73	515	49.76		381.01	33.32	208	49.76	
	Missing	*	*	1	0.01		*	*	1	0.10		*	*	0	0.00	
Special Education																
	Yes	373.18	43.08	1557	14.33		357.24	41.56	173	16.71		348.95	38.34	60	14.35	
	No	400.55	32.02	9121	83.92		388.57	33.82	837	80.87		384.41	33.91	353	84.45	
	504	404.55	33.04	191	1.76		*	*	25	2.42		*	*	5	1.20	
Ethnicity																
	American Indian	*	*	42	0.39		*	*	7	0.68		*	*	1	0.24	
	Asian/Pacific Islander	415.11	35.66	312	2.87		*	*	18	1.74		*	*	11	2.63	
	African American	385.76	32.27	6501	59.81		378.20	35.34	735	71.01		376.21	33.52	325	77.75	
	White	416.39	31.92	3327	30.61		398.56	36.64	226	21.84		396.17	39.02	54	12.92	
	Hispanic	396.98	31.41	686	6.31		*	*	48	4.64		*	*	27	6.46	
	Missing	*	*	1	0.01		*	*	1	0.10		*	*	0	0.00	
Limited English Proficient																
	Yes	393.16	35.23	294	2.70		*	*	11	1.06		*	*	4	0.96	
	No	396.70	35.18	10453	96.17		383.11	37.17	1020	98.55		379.40	36.75	411	98.33	
	Exited	405.52	34.18	122	1.12		*	*	4	0.39		*	*	3	0.72	

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

Table 4.10 Summary Statistics for Algebra: May Forms

ALG		Primary Forms E-K					Make-Up 1 Form X					Make-Up 2 Form Y				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		427.86	40.43	68345	100.00	0.92	404.01	47.61	3556	100.00	0.92	391.27	46.18	904	100.00	0.91
Gender																
	Male	427.08	43.13	33845	49.52		400.99	52.37	1853	52.11		387.11	52.61	470	51.99	
	Female	428.63	37.54	34498	50.48		407.29	41.58	1703	47.89		395.77	37.55	434	48.01	
	Missing	*	*	2	0.00		*	*	0	0.00		*	*	0	0.00	
Special Education																
	Yes	386.36	52.51	6736	9.86		366.08	53.85	509	14.31		357.46	55.05	117	12.94	
	No	432.47	36.12	60347	88.30		410.27	43.57	2981	83.83		396.02	42.58	777	85.95	
	504	428.94	34.72	1262	1.85		413.67	33.23	66	1.86		*	*	10	1.11	
Ethnicity																
	American Indian	428.98	40.44	242	0.35		*	*	16	0.45		*	*	4	0.44	
	Asian/Pacific Islander	450.91	35.05	3920	5.74		426.03	46.86	112	3.15		*	*	33	3.65	
	African American	408.08	40.68	26882	39.33		392.95	46.45	1885	53.01		385.69	42.36	573	63.38	
	White	442.35	33.50	32419	47.43		419.16	45.42	1273	35.80		402.73	48.93	231	25.55	
	Hispanic	422.08	34.98	4878	7.14		401.70	42.19	270	7.59		387.94	60.66	63	6.97	
	Missing	*	*	4	0.01		*	*	0	0.00		*	*	0	0.00	
Limited English Proficient																
	Yes	408.20	42.65	1789	2.62		388.47	42.02	85	2.39		*	*	18	1.99	
	No	428.38	40.28	65987	96.55		404.32	47.79	3446	96.91		391.55	45.92	882	97.57	
	Exited	429.29	34.85	569	0.83		*	*	25	0.70		*	*	4	0.44	

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

Table 4.11 Summary Statistics for Algebra: Summer Forms

ALG		Primary 1 Form L					Primary 2 Form M				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		378.08	54.20	151	100.00	0.91	391.39	40.98	1178	100.00	0.89
Gender											
	Male	365.89	58.02	95	62.91		390.76	43.31	652	55.35	
	Female	398.75	39.60	56	37.09		392.16	37.92	526	44.65	
	Missing	*	*	0	0.00		*	*	0	0.00	
Special Education											
	Yes			40	26.49		367.62	44.33	168	14.26	
	No	393.27	45.13	105	69.54		395.22	39.23	988	83.87	
	504	*	*	6	3.97		*	*	22	1.87	
Ethnicity											
	American Indian	*	*	2	1.32		*	*	3	0.25	
	Asian/Pacific Islander	*	*	1	0.66		*	*	39	3.31	
	African American	369.75	52.17	65	43.05		384.53	40.67	786	66.72	
	White	384.46	55.23	81	53.64		406.84	35.57	283	24.02	
	Hispanic	*	*	2	1.32		391.75	30.29	67	5.69	
	Missing	*	*	0	0.00		*	*	0	0.00	
Limited English Proficient											
	Yes	*	*	0	0.00		*	*	21	1.78	
	No	378.08	54.20	151	100.00		391.41	40.68	1151	97.71	
	Exited	*	*	0	0.00		*	*	6	0.51	

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

Table 4.12 Summary Statistics for Biology: January Forms

BIO		Primary Forms A, B					Make-Up 1 Form C					Make-Up 2 Form D				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		407.38	47.00	7362	100.00	0.95	373.77	46.76	541	100.00	0.91	367.30	54.37	303	100.00	0.92
Gender																
	Male	404.98	51.13	3803	51.66		369.46	50.78	300	55.45		359.39	58.47	150	49.50	
	Female	409.95	41.99	3559	48.34		379.14	40.67	241	44.55		375.05	48.99	153	50.50	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Special Education																
	Yes	372.45	47.34	802	10.89		362.94	46.61	64	11.83		*	*	35	11.55	
	No	411.73	45.19	6399	86.92		375.04	46.91	466	86.14		371.88	52.38	262	86.47	
	504	408.78	43.00	161	2.19		*	*	11	2.03		*	*	6	1.98	
Ethnicity																
	American Indian	*	*	21	0.29		*	*	1	0.18		*	*	1	0.33	
	Asian/Pacific Islander	417.59	46.97	227	3.08		*	*	6	1.11		*	*	6	1.98	
	African American	372.68	46.00	2321	31.53		361.40	46.02	334	61.74		349.04	50.77	201	66.34	
	White	426.12	36.13	4454	60.50		398.02	40.61	164	30.31		406.67	40.99	82	27.06	
	Hispanic	391.83	40.58	339	4.60		*	*	36	6.65		*	*	13	4.29	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Limited English Proficient																
	Yes	379.57	36.78	114	1.55		*	*	12	2.22		*	*	4	1.32	
	No	407.94	47.06	7186	97.61		374.29	46.90	527	97.41		367.01	54.77	298	98.35	
	Exited	393.53	38.06	62	0.84		*	*	2	0.37		*	*	1	0.33	

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

Table 4.13 Summary Statistics for Biology: May Forms

BIO		Primary Forms E-K					Make-Up 1 Form X					Make-Up 2 Form Y				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		418.07	35.65	49882	100.00	0.93	384.54	49.32	1958	100.00	0.93	377.76	46.74	416	100.00	0.91
Gender																
	Male	417.08	38.14	24565	49.25		379.25	52.55	1044	53.32		370.14	52.38	237	56.97	
	Female	419.04	33.02	25317	50.75		390.58	44.62	914	46.68		387.84	35.72	179	43.03	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Special Education																
	Yes	382.81	43.51	4477	8.98		353.96	51.12	273	13.94		365.81	42.40	75	18.03	
	No	421.62	32.78	44519	89.25		389.29	47.16	1653	84.42		380.12	47.56	331	79.57	
	504	418.10	32.58	886	1.78		*	*	32	1.63		*	*	10	2.40	
Ethnicity																
	American Indian	414.72	31.13	163	0.33		*	*	16	0.82		*	*	2	0.48	
	Asian/Pacific Islander	437.16	31.50	3210	6.44		421.87	49.30	77	3.93		*	*	10	2.40	
	African American	399.48	34.96	17712	35.51		370.30	45.66	947	48.37		366.42	47.40	218	52.40	
	White	429.93	30.28	25587	51.30		399.51	48.21	766	39.12		391.67	42.81	165	39.66	
	Hispanic	407.26	33.81	3210	6.44		378.68	45.77	152	7.76		*	*	21	5.05	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Limited English Proficient																
	Yes	394.10	35.78	956	1.92		*	*	41	2.09		*	*	5	1.20	
	No	418.59	35.50	48504	97.24		384.84	49.46	1900	97.04		377.66	46.99	410	98.56	
	Exited	412.93	33.76	422	0.85		*	*	17	0.87		*	*	1	0.24	

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

Table 4.14. Summary Statistics for Biology: Summer Forms

BIO		Primary 1 Form L					Primary 2 Form M				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		372.57	54.78	106	100.00	0.91	386.02	39.76	364	100.00	0.91
Gender											
	Male	368.15	59.44	67	63.21		382.49	42.66	236	64.84	
	Female	*	*	39	36.79		392.52	32.95	128	35.16	
	Missing	*	*	0	0.00		*	*	0	0.00	
Special Education											
	Yes	*	*	29	27.36		363.11	41.62	53	14.56	
	No	383.04	50.63	68	64.15		389.82	38.42	300	82.42	
	504	*	*	9	8.49		*	*	11	3.02	
Ethnicity											
	American Indian	*	*	0	0.00		*	*	2	0.55	
	Asian/Pacific Islander	*	*	0	0.00		*	*	17	4.67	
	African American	354.34	57.02	50	47.17		380.61	39.99	200	54.95	
	White	389.87	47.68	54	50.94		388.87	37.11	116	31.87	
	Hispanic	*	*	2	1.89		*	*	29	7.97	
	Missing	*	*	0	0.00		*	*	0	0.00	
Limited English Proficient											
	Yes	*	*	0	0.00		*	*	6	1.65	
	No	372.57	54.78	106	100.00		385.67	39.92	356	97.80	
	Exited	*	*	0	0.00		*	*	2	0.55	

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

Table 4.15 Summary Statistics for English: January Forms

ENG		Primary Forms A,B					Make-Up 1 Form C					Make-Up 2 Form D				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		408.15	36.60	6563	100.00	0.93	382.52	42.74	488	100.00	0.93	372.50	39.77	117	100.00	0.92
Gender																
	Male	402.26	38.05	3330	50.74		374.85	45.49	273	55.94		369.57	35.66	60	51.28	
	Female	414.23	34.00	3233	49.26		392.27	36.83	215	44.06		375.60	43.80	57	48.72	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Special Education																
	Yes	369.83	38.39	577	8.79		*	*	49	10.04		*	*	10	8.55	
	No	411.95	34.30	5839	88.97		383.84	43.52	432	88.52		375.79	36.11	105	89.74	
	504	408.04	31.47	147	2.24		*	*	7	1.43		*	*	2	1.71	
Ethnicity																
	American Indian	*	*	18	0.27		*	*	3	0.61		*	*	0	0.00	
	Asian/Pacific Islander	403.28	37.45	224	3.41		*	*	16	3.28		*	*	5	4.27	
	African American	378.80	37.63	1450	22.09		367.58	39.88	241	49.39		365.19	35.07	72	61.54	
	White	419.37	29.85	4522	68.90		403.98	37.11	193	39.55		*	*	25	21.37	
	Hispanic	388.06	34.67	349	5.32		*	*	35	7.17		*	*	15	12.82	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Limited English Proficient																
	Yes	368.68	32.81	142	2.16		*	*	11	2.25		*	*	8	6.84	
	No	409.72	36.08	6265	95.46		383.98	41.75	460	94.26		373.78	42.15	97	82.91	
	Exited	381.38	29.66	156	2.38		*	*	17	3.48		*	*	12	10.26	

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

Table 4.16 Summary Statistics for English: May Forms

ENG		Primary Forms E-K					Make-Up 1 Form X					Make-Up 2 Form Y				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		414.41	35.18	55390	100.00	0.91	393.60	41.93	2089	100.00	0.93	386.00	41.19	487	100.00	0.93
Gender																
	Male	409.11	34.76	27319	49.32		385.40	45.31	1087	52.03		378.10	41.55	255	52.36	
	Female	419.57	34.83	28071	50.68		402.49	35.89	1002	47.97		394.68	39.07	232	47.64	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Special Education																
	Yes	378.93	35.96	5224	9.43		358.45	44.85	289	13.83		358.65	37.72	65	13.35	
	No	418.25	33.01	49175	88.78		399.71	38.40	1755	84.01		390.24	40.14	412	84.60	
	504	411.26	30.76	991	1.79		*	*	45	2.15		*	*	10	2.05	
Ethnicity																
	American Indian	409.21	30.37	182	0.33		*	*	13	0.62		*	*	1	0.21	
	Asian/Pacific Islander	430.31	38.36	3312	5.98		399.65	55.75	60	2.87		*	*	8	1.64	
	African American	400.00	30.78	20932	37.79		383.06	38.99	1009	48.30		377.76	38.07	267	54.83	
	White	425.15	33.81	27324	49.33		406.06	42.14	872	41.74		401.69	41.05	179	36.76	
	Hispanic	402.46	31.47	3640	6.57		388.41	32.86	135	6.46		*	*	32	6.57	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Limited English Proficient																
	Yes	377.94	27.50	756	1.36		*	*	30	1.44		*	*	7	1.44	
	No	415.18	35.02	53936	97.37		394.46	41.66	2033	97.32		386.97	40.64	475	97.54	
	Exited	394.37	27.61	698	1.26		*	*	26	1.24		*	*	5	1.03	

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

Table 4.17 Summary Statistics for English: Summer Forms

ENG		Primary 1 Form L					Primary 2 Form M				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		371.14	46.24	134	100.00	0.90	380.39	38.35	994	100.00	0.91
Gender											
	Male	358.52	49.67	89	66.42		375.13	41.51	619	62.27	
	Female	*	*	45	33.58		389.06	30.62	375	37.73	
	Missing	*	*	0	0.00		*	*	0	0.00	
Special Education											
	Yes	363.50	41.18	52	38.81		362.74	37.39	114	11.47	
	No	374.57	49.75	76	56.72		382.70	38.16	848	85.31	
	504	*	*	6	4.48		*	*	32	3.22	
Ethnicity											
	American Indian	*	*	0	0.00		*	*	3	0.30	
	Asian/Pacific Islander	*	*	0	0.00		*	*	31	3.12	
	African American	*	*	46	34.33		377.02	36.70	619	62.27	
	White	382.13	41.26	87	64.93		387.53	39.69	262	26.36	
	Hispanic	*	*	1	0.75		378.48	41.50	79	7.95	
	Missing	*	*	0	0.00		*	*	0	0.00	
Limited English Proficient											
	Yes	*	*	2	1.49		*	*	20	2.01	
	No	371.12	46.52	132	98.51		380.72	38.41	959	96.48	
	Exited	*	*	0	0.00		*	*	15	1.51	

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

Table 4.18 Summary Statistics for Government: January Forms

GOV		Primary Forms A,B					Make-Up 1 Form C					Make-Up 2 Form D				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		409.26	40.82	8944	100.00	0.95	382.83	38.06	726	100.00	0.92	367.54	41.29	241	100.00	0.92
Gender																
	Male	406.90	42.56	4621	51.67		378.83	42.51	362	49.86		363.98	44.65	138	57.26	
	Female	411.78	38.71	4323	48.33		386.82	32.62	364	50.14		372.30	35.95	103	42.74	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Special Education																
	Yes	375.14	38.08	1121	12.53		365.15	42.95	111	15.29				43	17.84	
	No	414.29	38.92	7633	85.34		385.95	36.44	605	83.33		372.77	40.09	191	79.25	
	504	408.63	33.83	190	2.12		*	*	10	1.38		*	*	7	2.90	
Ethnicity																
	American Indian	*	*	20	0.22		*	*	3	0.41		*	*	1	0.41	
	Asian/Pacific Islander	414.16	46.27	233	2.61		*	*	9	1.24		*	*	2	0.83	
	African American	384.27	36.27	2612	29.20		374.42	39.39	433	59.64		361.21	39.09	163	67.63	
	White	421.25	36.96	5699	63.72		397.47	32.21	244	33.61		380.61	45.73	61	25.31	
	Hispanic	398.50	41.59	380	4.25		*	*	37	5.10		*	*	14	5.81	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Limited English Proficient																
	Yes	382.22	31.09	91	1.02		*	*	8	1.10		*	*	3	1.24	
	No	409.68	40.78	8786	98.23		383.11	38.29	713	98.21		367.23	41.61	235	97.51	
	Exited	391.04	41.70	67	0.75		*	*	5	0.69		*	*	3	1.24	

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

Table 4.19 Summary Statistics for Government: May Forms

GOV		Primary Forms E-K					Make-Up 1 Form X					Make-Up 2 Form Y				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		420.78	40.38	55877	100.00	0.95	396.84	44.22	3185	100.00	0.95	391.62	43.63	564	100.00	0.94
Gender																
	Male	418.87	42.02	27720	49.61		391.88	48.03	1597	50.14		388.58	47.03	292	51.77	
	Female	422.66	38.59	28157	50.39		401.84	39.40	1588	49.86		394.88	39.48	272	48.23	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Special Education																
	Yes	383.39	41.71	5227	9.35		369.00	43.38	444	13.94		368.20	41.13	80	14.18	
	No	424.73	38.23	49801	89.13		401.33	42.64	2688	84.40		395.72	41.84	465	82.45	
	504	419.18	36.29	849	1.52		402.55	45.29	53	1.66				19	3.37	
Ethnicity																
	American Indian	413.42	37.73	200	0.36		*	*	14	0.44		*	*	2	0.35	
	Asian/Pacific Islander	444.86	41.79	3440	6.16		430.51	46.78	108	3.39		*	*	21	3.72	
	African American	403.23	35.76	21763	38.95		385.84	38.56	1555	48.82		382.29	36.77	303	53.72	
	White	433.06	38.47	26733	47.84		408.21	46.52	1315	41.29		403.01	47.68	199	35.28	
	Hispanic	413.38	34.58	3741	6.70		389.43	41.78	193	6.06		*	*	39	6.91	
	Missing	*	*	0	0.00		*	*	0	0.00		*	*	0	0.00	
Limited English Proficient																
	Yes	397.59	35.48	1160	2.08		377.29	52.03	68	2.14		*	*	6	1.06	
	No	421.32	40.37	54184	96.97		397.30	43.97	3095	97.17		391.84	43.48	553	98.05	
	Exited	416.64	35.24	533	0.95		*	*	22	0.69		*	*	5	0.89	

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

Table 4.20. Summary Statistics for Government: Summer Forms

GOV		Primary 1 Form L					Primary 2 Form M				
		Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall		373.82	37.00	133	100.00	0.91	380.77	37.95	480	100.00	0.92
Gender											
	Male	368.71	41.61	78	58.65		379.19	40.34	260	54.17	
	Female	381.07	28.04	55	41.35		382.65	34.91	220	45.83	
	Missing	*	*	0	0.00		*	*	0	0.00	
Special Education											
	Yes	361.10	42.47	52	39.10		355.59	44.36	76	15.83	
	No	381.41	31.22	71	53.38		385.72	34.57	394	82.08	
	504	*	*	10	7.52		*	*	10	2.08	
Ethnicity											
	American Indian	*	*	0	0.00		*	*	1	0.21	
	Asian/Pacific Islander	*	*	0	0.00		*	*	11	2.29	
	African American	368.20	35.51	56	42.11		376.33	37.77	294	61.25	
	White	380.53	35.86	73	54.89		385.79	38.04	136	28.33	
	Hispanic	*	*	4	3.01		*	*	38	7.92	
	Missing	*	*	0	0.00		*	*	0	0.00	
Limited English Proficient											
	Yes	*	*	0	0.00		*	*	8	1.67	
	No	373.82	37.00	133	100.00		381.03	37.85	469	97.71	
	Exited	*	*	0	0.00		*	*	3	0.63	

* 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 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 4.21 to 4.32 by content area for January, May and Summer forms. The tables show that decision accuracy values, which describe 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), ranged from 0.82 to 0.95 across all performance levels and from 0.89 to 0.93 for the Proficient and Above classification in Algebra and English.. Decision consistency values, which 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), ranged from 0.76 to 0.93 across all performance levels and from 0.86 to 0.90 for the Proficient and Above classifications in Algebra and English.

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 4.21 Decision Accuracy and Consistency: Algebra January Forms

Algebra	Placement Scores	Advanced	Proficient	Basic	Category Total*
January Primary					
Decision Accuracy	450-650	0.01	0.04	0.01	0.05
	412-449	0.00	0.25	0.02	0.27
	240-411	0.01	0.08	0.60	0.68
	Estimated Proportion Correctly Classified*: Total = 0.85, Proficient & Above = 0.89				
Decision Consistency	450-650	0.02	0.03	0.01	0.05
	412-449	0.01	0.22	0.05	0.27
	240-411	0.01	0.09	0.57	0.68
	Estimated Proportion Correctly Classified*: Total = 0.80, Proficient & Above = 0.84				
January Form C					
Decision Accuracy	450-650	0.02	0.00	0.00	0.02
	412-449	0.01	0.12	0.04	0.17
	240-411	0.01	0.05	0.75	0.80
	Estimated Proportion Correctly Classified*: Total = 0.90, Proficient & Above = 0.91				
Decision Consistency	450-650	0.02	0.00	0.00	0.02
	412-449	0.02	0.11	0.05	0.17
	240-411	0.01	0.07	0.73	0.80
	Estimated Proportion Correctly Classified*: Total = 0.85, Proficient & Above = 0.87				
January Form D					
Decision Accuracy	450-650	0.01	0.00	0.00	0.01
	412-449	0.01	0.11	0.04	0.16
	240-411	0.00	0.04	0.79	0.83
	Estimated Proportion Correctly Classified*: Total = 0.91, Proficient & Above = 0.92				
Decision Consistency	450-650	0.01	0.00	0.00	0.01
	412-449	0.02	0.09	0.05	0.16
	240-411	0.00	0.06	0.76	0.83
	Estimated Proportion Correctly Classified*: Total = 0.87, Proficient & Above = 0.89				

*Inconsistencies with category cell entries are due to rounding.

Table 4.22 Decision Accuracy and Consistency: Algebra May Forms

Algebra	Placement Scores	Advanced	Proficient	Basic	Category Total*
May Primary					
Decision Accuracy	450-650	0.25	0.05	0.00	0.30
	412-449	0.04	0.30	0.06	0.41
	240-411	0.00	0.01	0.28	0.29
	Estimated Proportion Correctly Classified*: Total = 0.83, Proficient & Above = 0.92				
Decision Consistency	450-650	0.24	0.06	0.00	0.30
	412-449	0.06	0.27	0.08	0.41
	240-411	0.00	0.03	0.26	0.29
	Estimated Proportion Correctly Classified*: Total = 0.77, Proficient & Above = 0.89				
May Form X					
Decision Accuracy	450-650	0.12	0.01	0.00	0.13
	412-449	0.05	0.23	0.07	0.35
	240-411	0.00	0.02	0.50	0.52
	Estimated Proportion Correctly Classified*: Total = 0.85, Proficient & Above = 0.90				
Decision Consistency	450-650	0.11	0.02	0.00	0.13
	412-449	0.06	0.20	0.09	0.35
	240-411	0.00	0.04	0.48	0.52
	Estimated Proportion Correctly Classified*: Total = 0.79, Proficient & Above = 0.87				
May Form Y					
Decision Accuracy	450-650	0.05	0.00	0.00	0.05
	412-449	0.04	0.17	0.05	0.27
	240-411	0.00	0.04	0.63	0.68
	Estimated Proportion Correctly Classified*: Total = 0.86, Proficient & Above = 0.90				
Decision Consistency	450-650	0.05	0.00	0.00	0.05
	412-449	0.05	0.15	0.07	0.27
	240-411	0.00	0.06	0.61	0.68
	Estimated Proportion Correctly Classified*: Total = 0.81, Proficient & Above = 0.86				

*Inconsistencies with category cell entries are due to rounding.

Table 4.23 Decision Accuracy and Consistency: Algebra Summer Form

Algebra	Placement Scores	Advanced	Proficient	Basic	Category Total*
Summer Form L					
Decision Accuracy	450-650	0.02	0.00	0.00	0.02
	412-449	0.07	0.15	0.08	0.30
	240-411	0.00	0.01	0.66	0.68
	Estimated Proportion Correctly Classified*: Total = 0.83, Proficient & Above = 0.91				
Decision Consistency	450-650	0.02	0.00	0.00	0.02
	412-449	0.08	0.13	0.09	0.30
	240-411	0.00	0.03	0.64	0.68
	Estimated Proportion Correctly Classified*: Total = 0.79, Proficient & Above = 0.88				
Summer Form M					
Decision Accuracy	450-650	0.03	0.00	0.00	0.03
	412-449	0.04	0.18	0.06	0.29
	240-411	0.00	0.04	0.64	0.68
	Estimated Proportion Correctly Classified*: Total = 0.85, Proficient & Above = 0.89				
Decision Consistency	450-650	0.03	0.00	0.00	0.03
	412-449	0.06	0.16	0.08	0.29
	240-411	0.00	0.06	0.62	0.68
	Estimated Proportion Correctly Classified*: Total = 0.80, Proficient & Above = 0.86				

*Inconsistencies with category cell entries are due to rounding.

Table 4.24 Decision Accuracy and Consistency: Biology January Forms

Biology	Placement Scores	Proficient	Basic	Category Total*
January Primary				
Decision Accuracy	400-650	0.55	0.06	0.61
	240-399	0.01	0.39	0.39
	Estimated Proportion Correctly Classified*: Total = 0.93			
Decision Consistency	400-650	0.53	0.08	0.61
	240-399	0.02	0.37	0.39
	Estimated Proportion Correctly Classified*: Total = 0.90			
January Form C				
Decision Accuracy	400-650	0.25	0.05	0.30
	240-399	0.03	0.67	0.70
	Estimated Proportion Correctly Classified*: Total = 0.92			
Decision Consistency	400-650	0.23	0.06	0.30
	240-399	0.05	0.65	0.70
	Estimated Proportion Correctly Classified*: Total = 0.89			
January Form D				
Decision Accuracy	400-650	0.21	0.02	0.22
	240-399	0.05	0.72	0.78
	Estimated Proportion Correctly Classified*: Total = 0.93			
Decision Consistency	400-650	0.20	0.03	0.22
	240-399	0.07	0.70	0.78
	Estimated Proportion Correctly Classified*: Total = 0.90			

*Inconsistencies with category cell entries are due to rounding.

Table 4.25 Decision Accuracy and Consistency: Biology May Forms

Biology	Placement Scores	Proficient	Basic	Category Total*
May Primary				
Decision Accuracy	400-650	0.68	0.06	0.74
	240-399	0.01	0.25	0.26
	Estimated Proportion Correctly Classified*: Total = 0.93			
Decision Consistency	400-650	0.67	0.07	0.74
	240-399	0.03	0.23	0.26
	Estimated Proportion Correctly Classified*: Total = 0.90			
May Form C				
Decision Accuracy	400-650	0.35	0.07	0.42
	240-399	0.01	0.57	0.58
	Estimated Proportion Correctly Classified*: Total = 0.92			
Decision Consistency	400-650	0.34	0.08	0.42
	240-399	0.03	0.55	0.58
	Estimated Proportion Correctly Classified*: Total = 0.89			
May Form D				
Decision Accuracy	400-650	0.27	0.05	0.32
	240-399	0.03	0.64	0.68
	Estimated Proportion Correctly Classified*: Total = 0.92			
Decision Consistency	400-650	0.26	0.07	0.32
	240-399	0.05	0.62	0.68
	Estimated Proportion Correctly Classified*: Total = 0.88			

*Inconsistencies with category cell entries are due to rounding.

Table 4.26 Decision Accuracy and Consistency: Biology Summer Forms

Biology	Placement Scores	Proficient	Basic	Category Total*
Summer Form L				
Decision Accuracy	400-650	0.27	0.06	0.32
	240-399	0.03	0.65	0.68
	Estimated Proportion Correctly Classified*: Total = 0.92			
Decision Consistency	400-650	0.25	0.07	0.32
	240-399	0.05	0.63	0.68
	Estimated Proportion Correctly Classified*: Total = 0.88			
Summer Form M				
Decision Accuracy	400-650	0.33	0.07	0.40
	240-399	0.02	0.58	0.60
	Estimated Proportion Correctly Classified*: Total = 0.91			
Decision Consistency	400-650	0.31	0.08	0.40
	240-399	0.04	0.56	0.60
	Estimated Proportion Correctly Classified*: Total = 0.87			

*Inconsistencies with category cell entries are due to rounding.

Table 4.27 Decision Accuracy and Consistency: English January Forms

English	Placement Scores	Advanced	Proficient	Basic	Category Total*
January Primary					
Decision Accuracy	429-650	0.27	0.01	0.00	0.28
	396-428	0.08	0.29	0.04	0.41
	240-395	0.00	0.04	0.27	0.31
	Estimated Proportion Correctly Classified*: Total = 0.83, Proficient & Above = 0.93				
Decision Consistency	429-650	0.24	0.04	0.00	0.28
	396-428	0.10	0.26	0.06	0.41
	240-395	0.00	0.05	0.26	0.31
	Estimated Proportion Correctly Classified*: Total = 0.76, Proficient & Above = 0.90				
January Form C					
Decision Accuracy	429-650	0.10	0.01	0.00	0.11
	396-428	0.04	0.20	0.07	0.32
	240-395	0.00	0.01	0.56	0.57
	Estimated Proportion Correctly Classified*: Total = 0.86, Proficient & Above = 0.91				
Decision Consistency	429-650	0.09	0.02	0.00	0.11
	396-428	0.05	0.18	0.09	0.32
	240-395	0.00	0.03	0.54	0.57
	Estimated Proportion Correctly Classified*: Total = 0.81, Proficient & Above = 0.86				
January Form D					
Decision Accuracy	429-650	0.05	0.00	0.00	0.05
	396-428	0.03	0.15	0.04	0.22
	240-395	0.00	0.04	0.69	0.73
	Estimated Proportion Correctly Classified*: Total = 0.89, Proficient & Above = 0.92				
Decision Consistency	429-650	0.05	0.00	0.00	0.05
	396-428	0.04	0.13	0.06	0.22
	240-395	0.00	0.05	0.67	0.73
	Estimated Proportion Correctly Classified*: Total = 0.85, Proficient & Above = 0.89				

*Inconsistencies with category cell entries are due to rounding.

Table 4.28 Decision Accuracy and Consistency: English May Forms

English	Placement Scores	Advanced	Proficient	Basic	Category Total*
May Primary					
Decision Accuracy	429-650	0.28	0.03	0.00	0.31
	396-428	0.06	0.31	0.06	0.42
	240-395	0.00	0.03	0.24	0.27
	Estimated Proportion Correctly Classified*: Total = 0.82, Proficient & Above = 0.91				
Decision Consistency	429-650	0.26	0.05	0.00	0.31
	396-428	0.08	0.26	0.08	0.42
	240-395	0.00	0.04	0.23	0.27
	Estimated Proportion Correctly Classified*: Total = 0.76, Proficient & Above = 0.88				
May Form X					
Decision Accuracy	429-650	0.15	0.01	0.00	0.17
	396-428	0.05	0.24	0.07	0.35
	240-395	0.00	0.02	0.46	0.48
	Estimated Proportion Correctly Classified*: Total = 0.85, Proficient & Above = 0.91				
Decision Consistency	429-650	0.14	0.02	0.00	0.17
	396-428	0.06	0.20	0.08	0.35
	240-395	0.00	0.04	0.45	0.48
	Estimated Proportion Correctly Classified*: Total = 0.80, Proficient & Above = 0.88				
May Form Y					
Decision Accuracy	429-650	0.11	0.01	0.00	0.12
	396-428	0.04	0.21	0.07	0.32
	240-395	0.00	0.02	0.54	0.56
	Estimated Proportion Correctly Classified*: Total = 0.86, Proficient & Above = 0.91				
Decision Consistency	429-650	0.10	0.02	0.00	0.12
	396-428	0.05	0.18	0.08	0.32
	240-395	0.00	0.04	0.52	0.56
	Estimated Proportion Correctly Classified*: Total = 0.80, Proficient & Above = 0.88				

*Inconsistencies with category cell entries are due to rounding.

Table 4.29 Decision Accuracy and Consistency: English Summer Forms

English	Placement Scores	Advanced	Proficient	Basic	Category Total*
Summer Form L					
Decision Accuracy	429-650	0.06	0.00	0.00	0.06
	396-428	0.04	0.14	0.06	0.24
	240-395	0.00	0.04	0.66	0.70
	Estimated Proportion Correctly Classified*: Total = 0.86, Proficient & Above = 0.91				
Decision Consistency	429-650	0.06	0.00	0.00	0.06
	396-428	0.05	0.12	0.07	0.24
	240-395	0.00	0.06	0.64	0.70
	Estimated Proportion Correctly Classified*: Total = 0.82, Proficient & Above = 0.87				
Summer Form M					
Decision Accuracy	429-650	0.06	0.00	0.00	0.06
	396-428	0.04	0.19	0.06	0.29
	240-395	0.00	0.04	0.61	0.65
	Estimated Proportion Correctly Classified*: Total = 0.86 , Proficient & Above = 0.90				
Decision Consistency	429-650	0.06	0.00	0.00	0.06
	396-428	0.05	0.16	0.08	0.29
	240-395	0.00	0.06	0.59	0.65
	Estimated Proportion Correctly Classified*: Total = 0.81 , Proficient & Above = 0.87				

*Inconsistencies with category cell entries are due to rounding.

Table 4.30 Decision Accuracy and Consistency: Government January Forms

Government	Placement Scores	Proficient	Basic	Category Total*
January Primary				
Decision Accuracy	394-650	0.63	0.02	0.66
	240-393	0.03	0.31	0.34
	Estimated Proportion Correctly Classified*: Total = 0.94			
Decision Consistency	394-650	0.62	0.04	0.66
	240-393	0.04	0.30	0.34
	Estimated Proportion Correctly Classified*: Total = 0.92			
January Form C				
Decision Accuracy	394-650	0.34	0.06	0.40
	240-393	0.03	0.57	0.60
	Estimated Proportion Correctly Classified*: Total = 0.92			
Decision Consistency	394-650	0.33	0.07	0.40
	240-393	0.05	0.55	0.60
	Estimated Proportion Correctly Classified*: Total = 0.88			
January Form D				
Decision Accuracy	394-650	0.23	0.01	0.24
	240-393	0.08	0.68	0.76
	Estimated Proportion Correctly Classified*: Total = 0.91			
Decision Consistency	394-650	0.21	0.03	0.24
	240-393	0.10	0.66	0.76
	Estimated Proportion Correctly Classified*: Total = 0.87			

*Inconsistencies with category cell entries are due to rounding.

Table 4.31 Decision Accuracy and Consistency: Government May Forms

Government	Placement Scores	Proficient	Basic	Category Total*
May Primary				
Decision Accuracy	394-650	0.73	0.04	0.77
	240-393	0.02	0.21	0.23
	Estimated Proportion Correctly Classified*: Total = 0.95			
Decision Consistency	394-650	0.72	0.05	0.77
	240-393	0.02	0.20	0.23
	Estimated Proportion Correctly Classified*: Total = 0.93			
May Form X				
Decision Accuracy	394-650	0.51	0.01	0.52
	240-393	0.06	0.42	0.48
	Estimated Proportion Correctly Classified*: Total = 0.93			
Decision Consistency	394-650	0.50	0.03	0.52
	240-393	0.07	0.41	0.48
	Estimated Proportion Correctly Classified*: Total = 0.91			
May Form Y				
Decision Accuracy	394-650	0.44	0.02	0.46
	240-393	0.05	0.49	0.54
	Estimated Proportion Correctly Classified*: Total = 0.93			
Decision Consistency	394-650	0.43	0.03	0.46
	240-393	0.07	0.47	0.54
	Estimated Proportion Correctly Classified*: Total = 0.90			

*Inconsistencies with category cell entries are due to rounding.

Table 4.32 Decision Accuracy and Consistency: Government Summer Forms

Government	Placement Scores	Proficient	Basic	Category Total*
Summer Form L				
Decision Accuracy	394-650	0.24	0.04	0.29
	240-393	0.04	0.68	0.71
	Estimated Proportion Correctly Classified*: Total = 0.92			
Decision Consistency	394-650	0.23	0.06	0.29
	240-393	0.06	0.65	0.71
	Estimated Proportion Correctly Classified*: Total = 0.88			
Summer Form M				
Decision Accuracy	394-650	0.32	0.06	0.38
	240-393	0.03	0.59	0.62
	Estimated Proportion Correctly Classified*: Total = 0.92			
Decision Consistency	394-650	0.31	0.07	0.38
	240-393	0.05	0.57	0.62
	Estimated Proportion Correctly Classified*: Total = 0.88			

*Inconsistencies with category cell entries are due to rounding.