

## Section 13. Student Characteristics

### Summary Statistics

Students' scale score means and standard deviations are presented in Table 13.1. Results from online and paper test-takers were pooled for the analyses. All results are based on the final Research files sent to MSDE.

Table 13.1 MD Mod-HSA 2011 Mean Scale Scores by Content Area and Test Administration

Content Area	October			January			April			May			Summer		
	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD
Algebra	2,487	362.0	49.4	2,444	357.4	50.9	582	360.9	50.5	3,895	365.6	48.8	217	364.0	46.6
Biology	1,748	359.1	43.6	1,741	361.7	42.5	446	360.1	44.5	2,503	365.6	45.1	174	359.8	49.7
English	2,054	357.4	39.9	2,070	359.6	39.6	578	362.3	42.0	2,815	360.0	41.4	179	353.0	46.0
Government*	1,758	354.3	49.0	1,731	350.2	48.3	360	350.7	51.4	2,465	359.1	50.7	-	-	-

\*May 2011 was the last administration of the Government HSA.

The results presented in Tables 13.2 and 13.3 are based on the combined results for students who took the tests in October 2010 and January, April, May, and Summer 2011. The mean scale scores are presented for the years 2008 through 2011 by content area in Table 13.2. Table 13.3 presents the passing rates for these years.

Table 13.2 MD Mod-HSA 2011 Mean Scale Scores by Content Area and Test Year

Content Area	2008	2009	2010	2011
Algebra	360.1	363.2	360.5	362.3
Biology	360.2	365.0	366.0	362.3
English	353.2	360.2	359.6	359.2
Government*	357.2	359.2	355.9	354.8

\*May 2011 was the last administration of the Government HSA.

Table 13.3 MD Mod-HSA 2011 Percentage Passing Rates (Proficient + Advanced) by Content Area and Test Year

Content Area	2008	2009	2010	2011
Algebra	9.8	9.2	8.8	9.4
Biology	16.1	14.5	13.8	13.2
English	10.4	12.2	12.6	12.0
Government*	19.9	20.3	17.1	17.2

\*May 2011 was the last administration of the Government HSA.

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. Beginning with the January 2008 administration, Biology was used for the NCLB science component. Table 13.4 presents the percentage of Algebra, English, and Biology students classified as Basic, Proficient, and Advanced in 2011. Figures 13.1 through 13.4 show the distribution of scale scores for the May 2011 administration for each content area.

Table 13.4 MD Mod-HSA 2011 Percentage of Students in Each Performance Category by Content Area

Content Area	Basic	Proficient	Advanced
Algebra	90.6	9.1	0.3
Biology	86.8	12.9	0.3
English	88.0	11.5	0.6
Government*	82.8	17.2	**

\*May 2011 was the last administration of the Government HSA.

\*\*Government does not have an Advanced cut-score.

Summary statistics for all students and for subgroups based on gender, special education programs, ethnicity, and English language fluency are presented in Tables 13.5 through 13.24. 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 and for subgroups.

Figure 13.1 Histogram of Total Scale Scores for MD Mod-HSA May 2011 Algebra

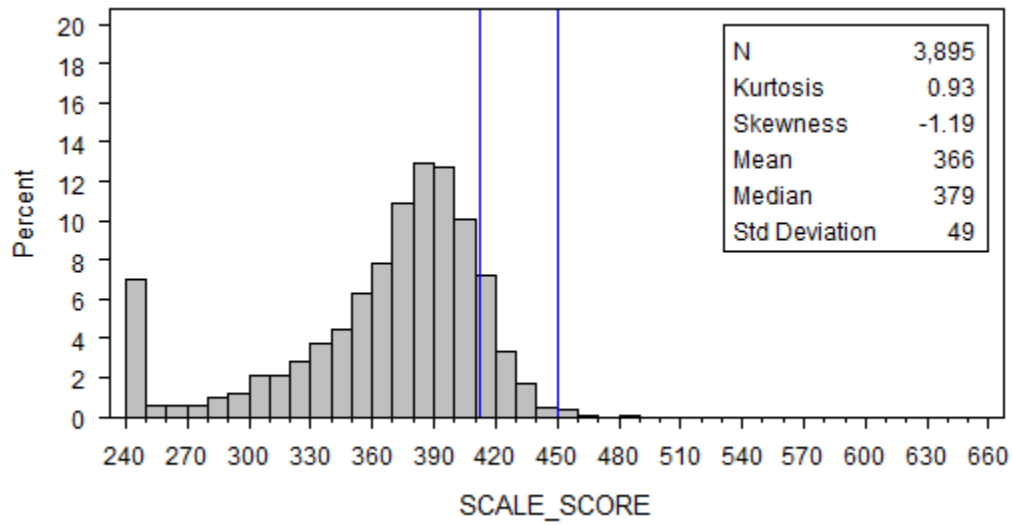


Figure 13.2 Histogram of Total Scale Scores for MD Mod-HSA May 2011 Biology

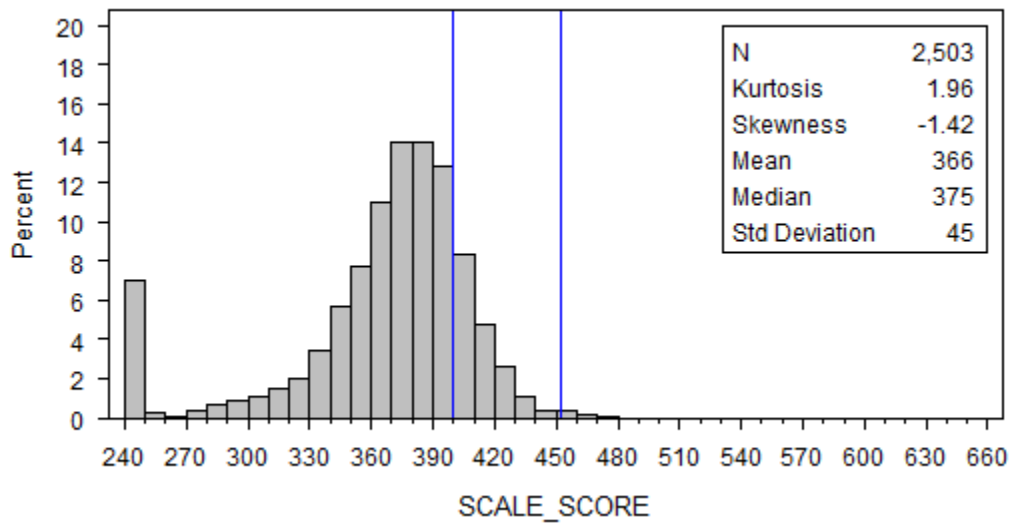


Figure 13.3 Histogram of Total Scale Scores for MD Mod-HSA May 2011 English

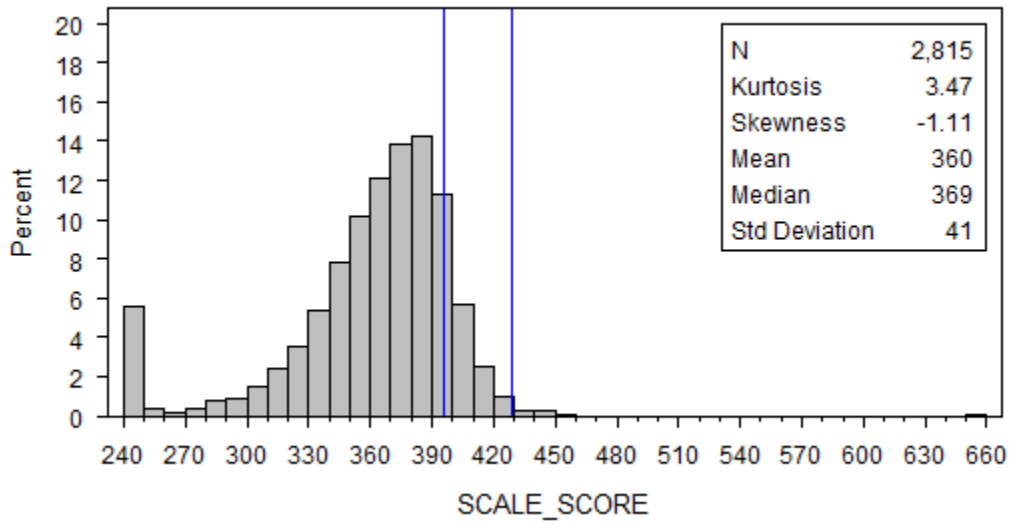


Figure 13.4 Histogram of Total Scale Scores for MD Mod-HSA May 2011 Government

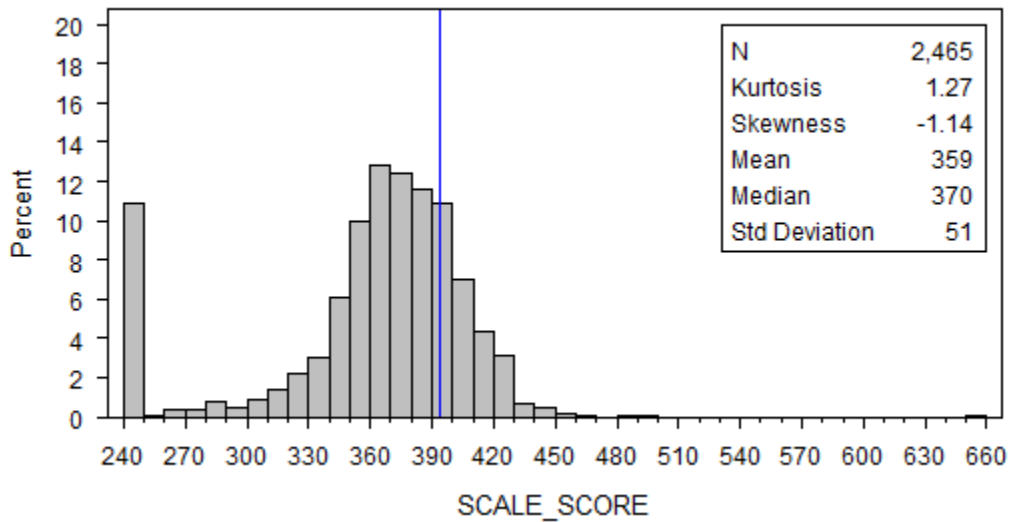


Table 13.5 Summary Statistics for MD Mod-HSA Algebra: October 2010 Form

		Form 111				
		Mean	SD	N	%	Alpha
Overall		362.0	49.4	2,487	100.0	0.75
Gender						
	Male	363.7	48.6	1,565	62.9	0.75
	Female	359.0	50.8	906	36.4	0.75
	Missing	*	*	16	0.6	*
Special Education						
	Yes	361.9	49.1	2,037	81.9	0.75
	No	362.7	50.7	447	18.0	0.77
	Exited	*	*	3	0.1	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	0	0.0	*
Ethnicity						
	American Indian	*	*	6	0.2	*
	Asian	*	*	30	1.2	*
	African American	356.8	51.3	1,614	64.9	0.74
	Hawaiian/Pacific Islander	*	*	6	0.2	*
	White	374.4	42.9	578	23.2	0.77
	Hispanic	367.0	45.5	208	8.4	0.74
	Missing	*	*	45	1.8	*
Limited English Proficient						
	Yes	*	*	14	0.6	*
	No	362.2	49.3	2,467	99.2	0.75
	Exited <sup>b</sup>	*	*	6	0.2	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.6 Summary Statistics for MD Mod-HSA Algebra: January 2011 Form

		Form 211				
		Mean	SD	N	%	Alpha
Overall		357.4	50.9	2,444	100.0	0.75
Gender						
	Male	357.1	51.1	1,584	64.8	0.74
	Female	358.3	50.4	850	34.8	0.76
	Missing	*	*	10	0.4	*
Special Education						
	Yes	358.2	49.9	2,015	82.4	0.74
	No	353.5	55.3	427	17.5	0.78
	Exited	*	*	1	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	1	0.0	*
Ethnicity						
	American Indian	*	*	8	0.3	*
	Asian	*	*	27	1.1	*
	African American	352.5	52.1	1,535	62.8	0.74
	Hawaiian/Pacific Islander	*	*	5	0.2	*
	White	368.0	45.8	605	24.8	0.75
	Hispanic	363.3	50.1	209	8.6	0.76
	Missing	351.4	53.3	55	2.3	0.74
Limited English Proficient						
	Yes	*	*	11	0.5	*
	No	357.4	50.8	2,428	99.3	0.75
	Exited <sup>b</sup>	*	*	5	0.2	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.7 Summary Statistics for MD Mod-HSA Algebra: April 2011 Form

		Form 311				
		Mean	SD	N	%	Alpha
Overall		360.9	50.5	582	100.0	0.77
Gender						
	Male	361.4	50.8	359	61.7	0.76
	Female	360.6	50.6	206	35.4	0.78
	Missing	*	*	17	2.9	*
Special Education						
	Yes	357.2	50.7	418	71.8	0.74
	No	370.4	48.8	163	28.0	0.82
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	1	0.2	*
Ethnicity						
	American Indian	*	*	0	0.0	*
	Asian	*	*	6	1.0	*
	African American	359.3	51.4	420	72.2	0.78
	Hawaiian/ Pacific Islander	*	*	2	0.3	*
	White	367.1	48.7	81	13.9	0.76
	Hispanic	359.7	50.6	52	8.9	0.68
	Missing	*	*	21	3.6	*
Limited English Proficient						
	Yes	*	*	3	0.5	*
	No	361.1	50.3	579	99.5	0.77
	Exited <sup>b</sup>	*	*	0	0.0	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.8 Summary Statistics for MD Mod-HSA Algebra: May 2011 Form

		Form 411				
		Mean	SD	N	%	Alpha
Overall		365.6	48.8	3,895	100.0	0.78
Gender						
	Male	366.1	49.5	2,459	63.1	0.78
	Female	364.6	47.9	1,394	35.8	0.76
	Missing	*	*	42	1.1	*
Special Education						
	Yes	366.1	48.1	3,365	86.4	0.77
	No	362.2	53.4	528	13.6	0.81
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	2	0.1	*
Ethnicity						
	American Indian	*	*	13	0.3	*
	Asian	*	*	48	1.2	*
	African American	359.8	50.4	2,282	58.6	0.76
	Hawaiian/Pacific Islander	*	*	4	0.1	*
	White	375.5	45.0	924	23.7	0.79
	Hispanic	371.1	45.3	508	13.0	0.77
	Missing	371.2	45.3	116	3.0	0.80
Limited English Proficient						
	Yes	*	*	33	0.8	*
	No	365.7	48.7	3,853	98.9	0.78
	Exited <sup>b</sup>	*	*	9	0.2	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.



Table 13.9 Summary Statistics for MD Mod-HSA Algebra: Summer 2011 Forms

	Form 511					Form 611				
	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall	360.9	49.8	119	100.0	0.77	367.7	42.3	98	100.0	0.72
Gender										
Male	358.3	49.9	81	68.1	0.74	366.2	43.0	66	67.3	0.69
Female	*	*	38	31.9	*	*	*	30	30.6	*
Missing	*	*	0	0.0	*	*	*	2	2.0	*
Special Education										
Yes	360.1	49.9	86	72.3	0.75	*	*	49	50.0	*
No	*	*	33	27.7	*	*	*	49	50.0	*
Exited	*	*	0	0.0	*	*	*	0	0.0	*
Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*	*	*	0	0.0	*
504	*	*	0	0.0	*	*	*	0	0.0	*
Ethnicity										
American Indian	*	*	0	0.0	*	*	*	0	0.0	*
Asian	*	*	0	0.0	*	*	*	1	1.0	*
African American	355.8	50.8	67	56.3	0.77	361.2	47.7	58	59.2	0.74
Hawaiian/Pacific Islander	*	*	0	0.0	*	*	*	0	0.0	*
White	*	*	37	31.1	*	*	*	32	32.7	*
Hispanic	*	*	12	10.1	*	*	*	3	3.1	*
Missing	*	*	3	2.5	*	*	*	4	4.1	*
Limited English Proficient										
Yes	*	*	1	0.8	*	*	*	0	0.0	*
No	360.6	49.9	118	99.2	0.78	367.7	42.3	98	100.0	0.72
Exited <sup>b</sup>	*	*	0	0.0	*	*	*	0	0.0	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.10 Summary Statistics for MD Mod-HSA Biology: October 2010 Form

		Form 111				
		Mean	SD	N	%	Alpha
Overall		359.1	43.6	1,748	100.0	0.61
Gender						
	Male	359.7	44.2	1,110	63.5	0.62
	Female	357.8	42.8	620	35.5	0.59
	Missing	*	*	18	1.0	*
Special Education						
	Yes	359.1	43.8	1,438	82.3	0.62
	No	359.3	42.8	309	17.7	0.59
	Exited	*	*	1	0.1	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	0	0.0	*
Ethnicity						
	American Indian	*	*	5	0.3	*
	Asian	*	*	23	1.3	*
	African American	355.4	45.8	1,132	64.8	0.63
	Hawaiian/Pacific Islander	*	*	4	0.2	*
	White	368.5	37.6	390	22.3	0.57
	Hispanic	364.5	34.4	147	8.4	0.53
	Missing	*	*	47	2.7	*
Limited English Proficient						
	Yes	*	*	7	0.4	*
	No	359.1	43.7	1,736	99.3	0.61
	Exited <sup>b</sup>	*	*	5	0.3	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.11 Summary Statistics for MD Mod-HSA Biology: January 2011 Form

		Form 211				
		Mean	SD	N	%	Alpha
Overall		361.7	42.5	1,741	100.0	0.66
Gender						
	Male	362.4	42.7	1,106	63.5	0.68
	Female	360.2	42.2	627	36.0	0.61
	Missing	*	*	8	0.5	*
Special Education						
	Yes	362.6	41.4	1,423	81.7	0.65
	No	357.4	46.8	316	18.2	0.69
	Exited	*	*	1	0.1	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	1	0.1	*
Ethnicity						
	American Indian	*	*	6	0.3	*
	Asian	*	*	17	1.0	*
	African American	357.3	44.3	1,139	65.4	0.65
	Hawaiian/Pacific Islander	*	*	1	0.1	*
	White	371.4	38.6	408	23.4	0.68
	Hispanic	366.3	33.9	142	8.2	0.52
	Missing	*	*	28	1.6	*
Limited English Proficient						
	Yes	*	*	8	0.5	*
	No	361.6	42.6	1,730	99.4	0.66
	Exited <sup>b</sup>	*	*	3	0.2	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.12 Summary Statistics for MD Mod-HSA Biology: April 2011 Form

		Form 311				
		Mean	SD	N	%	Alpha
Overall		360.1	44.5	446	100.0	0.68
Gender						
	Male	359.5	45.8	284	63.7	0.68
	Female	360.9	42.8	157	35.2	0.70
	Missing	*	*	5	1.1	*
Special Education						
	Yes	357.6	46.7	368	82.5	0.70
	No	372.0	30.2	78	17.5	0.54
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	0	0.0	*
Ethnicity						
	American Indian	*	*	0	0.0	*
	Asian	*	*	4	0.9	*
	African American	359.2	45.8	335	75.1	0.70
	Hawaiian/Pacific Islander	*	*	0	0.0	*
	White	365.0	43.6	68	15.2	0.67
	Hispanic	*	*	31	7.0	*
	Missing	*	*	8	1.8	*
Limited English Proficient						
	Yes	*	*	1	0.2	*
	No	360.2	44.6	445	99.8	0.68
	Exited <sup>b</sup>	*	*	0	0.0	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.13 Summary Statistics for MD Mod-HSA Biology: May 2011 Form

		Form 411				
		Mean	SD	N	%	Alpha
Overall		365.6	45.1	2,503	100.0	0.72
Gender						
	Male	366.5	45.3	1,614	64.5	0.73
	Female	363.9	45.0	873	34.9	0.70
	Missing	*	*	16	0.6	*
Special Education						
	Yes	365.7	44.4	2,150	85.9	0.71
	No	365.2	49.1	351	14.0	0.77
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	2	0.1	*
Ethnicity						
	American Indian	*	*	7	0.3	*
	Asian	*	*	32	1.3	*
	African American	359.7	46.8	1,489	59.5	0.68
	Hawaiian/Pacific Islander	*	*	4	0.2	*
	White	376.4	40.6	608	24.3	0.76
	Hispanic	370.7	42.0	291	11.6	0.71
	Missing	375.4	34.1	72	2.9	0.68
Limited English Proficient						
	Yes	*	*	17	0.7	*
	No	365.5	45.2	2,477	99.0	0.72
	Exited <sup>b</sup>	*	*	9	0.4	*

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

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<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.14 Summary Statistics for MD Mod-HSA Biology: Summer 2010 Forms

	Form 511					Form 611				
	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall	354.5	54.9	96	100.0	0.71	366.2	41.9	78	100.0	0.66
Gender										
Male	356.7	55.7	67	69.8	0.72	*	*	49	62.8	*
Female	*	*	29	30.2	*	*	*	28	35.9	*
Missing	*	*	0	0.0	*	*	*	1	1.3	*
Special Education										
Yes	344.9	58.7	74	77.1	0.70	*	*	43	55.1	*
No	*	*	22	22.9	*	*	*	35	44.9	*
Exited	*	*	0	0.0	*	*	*	0	0.0	*
Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*	*	*	0	0.0	*
504	*	*	0	0.0	*	*	*	0	0.0	*
Ethnicity										
American Indian	*	*	0	0.0	*	*	*	0	0.0	*
Asian	*	*	0	0.0	*	*	*	0	0.0	*
African American	341.5	59.7	60	62.5	0.69	365.7	37.4	51	65.4	0.60
Hawaiian/Pacific Islander	*	*	1	1.0	*	*	*	0	0.0	*
White	*	*	29	30.2	*	*	*	21	26.9	*
Hispanic	*	*	3	3.1	*	*	*	3	3.8	*
Missing	*	*	3	3.1	*	*	*	3	3.8	*
Limited English Proficient										
Yes	*	*	1	1.0	*	*	*	0	0.0	*
No	354.2	55.1	95	99.0	0.71	366.2	41.9	78	100.0	0.66
Exited <sup>b</sup>	*	*	0	0.0	*	*	*	0	0.0	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.15 Summary Statistics for MD Mod-HSA English: October 2010 Form

		Form 111				
		Mean	SD	N	%	Alpha
Overall		357.4	39.9	2,054	100.0	0.76
Gender						
	Male	356.2	41.0	1,355	66.0	0.76
	Female	359.7	37.4	686	33.4	0.75
	Missing	*	*	13	0.6	*
Special Education						
	Yes	357.1	40.1	1,716	83.5	0.75
	No	359.0	38.9	338	16.5	0.78
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	0	0.0	*
Ethnicity						
	American Indian	*	*	8	0.4	*
	Asian	*	*	30	1.5	*
	African American	354.6	40.7	1,265	61.6	0.76
	Hawaiian/Pacific Islander	*	*	6	0.3	*
	White	361.7	38.7	528	25.7	0.75
	Hispanic	365.7	34.2	179	8.7	0.72
	Missing	*	*	38	1.9	*
Limited English Proficient						
	Yes	*	*	7	0.3	*
	No	357.4	39.9	2,041	99.4	0.76
	Exited <sup>b</sup>	*	*	6	0.3	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.16 Summary Statistics for MD Mod-HSA English: January 2011 Form

		Form 211				
		Mean	SD	N	%	Alpha
Overall		359.6	39.6	2,070	100.0	0.76
Gender						
	Male	359.2	40.2	1,369	66.1	0.76
	Female	360.3	38.6	677	32.7	0.76
	Missing	*	*	24	1.2	*
Special Education						
	Yes	359.9	38.9	1,650	79.7	0.76
	No	358.2	42.3	420	20.3	0.79
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	0	0.0	*
Ethnicity						
	American Indian	*	*	4	0.2	*
	Asian	*	*	22	1.1	*
	African American	358.0	40.1	1,285	62.1	0.77
	Hawaiian/Pacific Islander	*	*	5	0.2	*
	White	362.2	39.9	513	24.8	0.76
	Hispanic	362.4	35.7	187	9.0	0.74
	Missing	362.7	43.4	54	2.6	0.80
Limited English Proficient						
	Yes	*	*	5	0.2	*
	No	359.6	39.7	2,056	99.3	0.76
	Exited <sup>b</sup>	*	*	9	0.4	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.



Table 13.17 Summary Statistics for MD Mod-HSA English: April 2011 Form

		Form 311				
		Mean	SD	N	%	Alpha
Overall		362.3	42.0	578	100.0	0.80
Gender						
	Male	361.8	45.1	365	63.1	0.82
	Female	363.3	35.6	203	35.1	0.76
	Missing	*	*	10	1.7	*
Special Education						
	Yes	360.5	41.9	445	77.0	0.79
	No	368.5	41.8	133	23.0	0.82
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	0	0.0	*
Ethnicity						
	American Indian	*	*	0	0.0	*
	Asian	*	*	11	1.9	*
	African American	360.4	40.3	411	71.1	0.80
	Hawaiian/Pacific Islander	*	*	1	0.2	*
	White	372.4	46.9	104	18.0	0.85
	Hispanic	*	*	39	6.7	*
	Missing	*	*	12	2.1	*
Limited English Proficient						
	Yes	*	*	2	0.3	*
	No	362.3	42.1	576	99.7	0.80
	Exited <sup>b</sup>	*	*	0	0.0	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.18 Summary Statistics for MD Mod-HSA English: May 2011 Form

		Form 411				
		Mean	SD	N	%	Alpha
Overall		360.0	41.4	2,815	100.0	0.78
Gender						
	Male	359.0	42.1	1,842	65.4	0.78
	Female	362.3	39.8	959	34.1	0.79
	Missing	*	*	14	0.5	*
Special Education						
	Yes	360.3	41.0	2,372	84.3	0.78
	No	358.7	43.9	441	15.7	0.80
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	2	0.1	*
Ethnicity						
	American Indian	*	*	7	0.2	*
	Asian	*	*	42	1.5	*
	African American	357.1	43.3	1,607	57.1	0.78
	Hawaiian/Pacific Islander	*	*	6	0.2	*
	White	364.6	38.5	740	26.3	0.78
	Hispanic	364.1	35.9	348	12.4	0.74
	Missing	361.4	43.8	65	2.3	0.80
Limited English Proficient						
	Yes	*	*	21	0.7	*
	No	360.0	41.5	2,787	99.0	0.78
	Exited <sup>b</sup>	*	*	7	0.2	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.19 Summary Statistics for MD Mod-HSA English: Summer 2011 Forms

	Form 511					Form 611				
	Mean	SD	N	%	Alpha	Mean	SD	N	%	Alpha
Overall	350.3	49.7	107	100.0	0.79	357.1	39.9	72	100.0	0.74
Gender										
Male	349.6	49.6	74	69.2	0.80	*	*	42	58.3	*
Female	*	*	33	30.8	*	*	*	27	37.5	*
Missing	*	*	0	0.0	*	*	*	3	4.2	*
Special Education										
Yes	352.7	46.6	70	65.4	0.74	*	*	40	55.6	*
No	*	*	37	34.6	*	*	*	32	44.4	*
Exited	*	*	0	0.0	*	*	*	0	0.0	*
Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*	*	*	0	0.0	*
504	*	*	0	0.0	*	*	*	0	0.0	*
Ethnicity										
American Indian	*	*	1	0.9	*	*	*	0	0.0	*
Asian	*	*	2	1.9	*	*	*	0	0.0	*
African American	343.9	53.4	57	53.3	0.78	*	*	40	55.6	*
Hawaiian/Pacific Islander	*	*	1	0.9		*	*	0	0.0	*
White	*	*	29	27.1	*	*	*	23	31.9	*
Hispanic	*	*	13	12.1	*	*	*	4	5.6	*
Missing	*	*	4	3.7	*	*	*	5	6.9	*
Limited English Proficient										
Yes	*	*	1	0.9	*	*	*	0	0.0	*
No	350.2	50.0	106	99.1	0.79	357.1	39.9	72	100.0	0.74
Exited <sup>b</sup>	*	*	0	0.0	*	*	*	0	0.0	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.20 Summary Statistics for MD Mod-HSA Government: October 2010 Form

		Form 111				
		Mean	SD	N	%	Alpha
Overall		354.3	49.0	1,758	100.0	0.73
Gender						
	Male	354.3	49.6	1,094	62.2	0.73
	Female	354.0	48.1	650	37.0	0.72
	Missing	*	*	14	0.8	*
Special Education						
	Yes	354.7	48.3	1,455	82.8	0.72
	No	352.0	52.5	301	17.1	0.74
	Exited	*	*	2	0.1	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	0	0.0	*
Ethnicity						
	American Indian	*	*	3	0.2	*
	Asian	*	*	23	1.3	*
	African American	353.9	49.7	1,130	64.3	0.75
	Hawaiian/Pacific Islander	*	*	7	0.4	*
	White	357.2	46.3	424	24.1	0.68
	Hispanic	351.4	48.5	133	7.6	0.55
	Missing	*	*	38	2.2	*
Limited English Proficient						
	Yes	*	*	6	0.3	*
	No	354.4	48.9	1,746	99.3	0.73
	Exited <sup>b</sup>	*	*	6	0.3	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.21 Summary Statistics for MD Mod-HSA Government: January 2011 Form

		Form 211				
		Mean	SD	N	%	Alpha
Overall		350.2	48.3	1,731	100.0	0.74
Gender						
	Male	351.3	49.5	1,088	62.9	0.75
	Female	348.3	46.2	635	36.7	0.71
	Missing	*	*	8	0.5	*
Special Education						
	Yes	351.2	46.9	1,410	81.5	0.73
	No	346.0	53.9	320	18.5	0.77
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	1	0.1	*
Ethnicity						
	American Indian	*	*	8	0.5	*
	Asian	*	*	17	1.0	*
	African American	348.3	50.2	1,051	60.7	0.76
	Hawaiian/Pacific Islander	*	*	4	0.2	*
	White	350.8	47.2	473	27.3	0.74
	Hispanic	362.2	35.5	141	8.1	0.65
	Missing	*	*	37	2.1	*
Limited English Proficient						
	Yes	*	*	10	0.6	*
	No	350.2	48.3	1,715	99.1	0.74
	Exited <sup>b</sup>	*	*	6	0.3	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.22 Summary Statistics for MD Mod-HSA Government: April 2011 Form

		Form 311				
		Mean	SD	N	%	Alpha
Overall		350.7	51.4	360	100.0	0.80
Gender						
	Male	353.2	52.5	233	64.7	0.82
	Female	346.9	48.4	126	35.0	0.76
	Missing	*	*	1	0.3	*
Special Education						
	Yes	349.7	51.5	303	84.2	0.80
	No	356.1	50.7	57	15.8	0.82
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	0	0.0	*
Ethnicity						
	American Indian	*	*	0	0.0	*
	Asian	*	*	3	0.8	*
	African American	348.7	54.5	269	74.7	0.82
	Hawaiian/Pacific Islander	*	*	1	0.3	*
	White	354.9	39.1	54	15.0	0.66
	Hispanic	*	*	28	7.8	*
	Missing	*	*	5	1.4	*
Limited English Proficient						
	Yes	*	*	1	0.3	*
	No	350.5	51.4	359	99.7	0.80
	Exited <sup>b</sup>	*	*	0	0.0	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.23 Summary Statistics for MD Mod-HSA Government: May 2011 Form

		Form 411				
		Mean	SD	N	%	Alpha
Overall		359.1	50.7	2,465	100.0	0.76
Gender						
	Male	358.3	52.6	1,571	63.7	0.77
	Female	360.7	47.0	876	35.5	0.74
	Missing	*	*	18	0.7	*
Special Education						
	Yes	358.4	50.7	2,126	86.2	0.75
	No	362.7	50.4	336	13.6	0.82
	Exited	*	*	0	0.0	*
	Exited and placed in 504 <sup>a</sup>	*	*	0	0.0	*
	504	*	*	3	0.1	*
Ethnicity						
	American Indian	*	*	8	0.3	*
	Asian	*	*	35	1.4	*
	African American	355.5	52.0	1,453	58.9	0.76
	Hawaiian/Pacific Islander	*	*	5	0.2	*
	White	365.1	49.8	615	24.9	0.78
	Hispanic	361.4	44.3	286	11.6	0.70
	Missing	359.8	51.5	63	2.6	0.78
Limited English Proficient						
	Yes	*	*	14	0.6	*
	No	359.0	50.8	2,445	99.2	0.76
	Exited <sup>b</sup>	*	*	6	0.2	*

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

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

## Demographic Characteristics

Summary statistics describing the demographic characteristics of the students who received scores on the MD Mod-HSAs are provided in Tables 13.24 through 13.27. Statistics are provided for the October 2010 and the January, April, May, and Summer 2011 administrations of Algebra, Biology, English, and Government. The results from online and paper test-takers were pooled for the analyses. All demographic results are based on the final Research file sent to MSDE.

Table 13.24 Demographic Information for MD Mod-HSA 2011 Algebra

	October Form		January Form		April Form		May Form		Summer Forms	
	N	%	N	%	N	%	N	%	N	%
Overall	2,487	100.0	2,444	100.0	582	100.0	3,895	100.0	217	100.0
Gender										
Male	1,565	62.9	1,584	64.8	359	61.7	2,459	63.1	147	67.7
Female	906	36.4	850	34.8	206	35.4	1,394	35.8	68	31.3
Missing	16	0.6	10	0.4	17	2.9	42	1.1	2	0.9
Special Education										
Yes	2,037	81.9	2,015	82.4	418	71.8	3,365	86.4	135	62.2
No	447	18.0	427	17.5	163	28.0	528	13.6	82	37.8
Exited	3	0.1	1	0.0	0	0.0	0	0.0	0	0.0
Exited and placed in 504 <sup>a</sup>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
504	0	0.0	1	0.0	1	0.2	2	0.1	0	0.0
Ethnicity										
American Indian	6	0.2	8	0.3	0	0.0	13	0.3	0	0.0
Asian	30	1.2	27	1.1	6	1.0	48	1.2	1	0.5
African American	1,614	64.9	1,535	62.8	420	72.2	2,282	58.6	125	57.6
Hawaiian/Pacific Islander	6	0.2	5	0.2	2	0.3	4	0.1	0	0.0
White	578	23.2	605	24.8	81	13.9	924	23.7	69	31.8
Hispanic	208	8.4	209	8.6	52	8.9	508	13.0	15	6.9
Missing	45	1.8	55	2.3	21	3.6	116	3.0	7	3.2
Limited English Proficient										
Yes	14	0.6	11	0.5	3	0.5	33	0.8	1	0.5
No	2,467	99.2	2,428	99.3	579	99.5	3,853	98.9	216	99.5
Exited <sup>b</sup>	6	0.2	5	0.2	0	0.0	9	0.2	0	0.0

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.



Table 13.25 Demographic Information for MD Mod-HSA 2011 Biology

	October Form		January Form		April Form		May Form		Summer Forms	
	N	%	N	%	N	%	N	%	N	%
Overall	1,748	100.0	1,741	100.0	446	100.0	2,503	100.0	174	100.0
Gender										
Male	1,110	63.5	1,106	63.5	284	63.7	1,614	64.5	116	66.7
Female	620	35.5	627	36.0	157	35.2	873	34.9	57	32.8
Missing	18	1.0	8	0.5	5	1.1	16	0.6	1	0.6
Special Education										
Yes	1,438	82.3	1,423	81.7	368	82.5	2,150	85.9	117	67.2
No	309	17.7	316	18.2	78	17.5	351	14.0	57	32.8
Exited	1	0.1	1	0.1	0	0.0	0	0.0	0	0.0
Exited and placed in 504 <sup>a</sup>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
504	0	0.0	1	0.1	0	0.0	2	0.1	0	0.0
Ethnicity										
American Indian	5	0.3	6	0.3	0	0.0	7	0.3	0	0.0
Asian	23	1.3	17	1.0	4	0.9	32	1.3	0	0.0
African American	1,132	64.8	1,139	65.4	335	75.1	1,489	59.5	111	63.8
Hawaiian/Pacific Islander	4	0.2	1	0.1	0	0.0	4	0.2	1	0.6
White	390	22.3	408	23.4	68	15.2	608	24.3	50	28.7
Hispanic	147	8.4	142	8.2	31	7.0	291	11.6	6	3.4
Missing	47	2.7	28	1.6	8	1.8	72	2.9	6	3.4
Limited English Proficient										
Yes	7	0.4	8	0.5	1	0.2	17	0.7	1	0.6
No	1,736	99.3	1,730	99.4	445	99.8	2,477	99.0	173	99.4
Exited <sup>b</sup>	5	0.3	3	0.2	0	0.0	9	0.4	0	0.0

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.26 Demographic Information for MD Mod-HSA 2011 English

	October Form		January Form		April Form		May Form		Summer Forms	
	N	%	N	%	N	%	N	%	N	%
Overall	2,054	100.0	2,070	100.0	578	100.0	2,815	100.0	179	100.0
Gender										
Male	1,355	66.0	1,369	66.1	365	63.1	1,842	65.4	116	64.8
Female	686	33.4	677	32.7	203	35.1	959	34.1	60	33.5
Missing	13	0.6	24	1.2	10	1.7	14	0.5	3	1.7
Special Education										
Yes	1,716	83.5	1,650	79.7	445	77.0	2,372	84.3	110	61.5
No	338	16.5	420	20.3	133	23.0	441	15.7	69	38.5
Exited	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
Exited and placed in 504 <sup>a</sup>	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
504	0	0.0	0	0.0	0	0.0	2	0.1	0	0.0
Ethnicity										
American Indian	8	0.4	4	0.2	0	0.0	7	0.2	1	0.6
Asian	30	1.5	22	1.1	11	1.9	42	1.5	2	1.1
African American	1,265	61.6	1,285	62.1	411	71.1	1,607	57.1	97	54.2
Hawaiian/Pacific Islander	6	0.3	5	0.2	1	0.2	6	0.2	1	0.6
White	528	25.7	513	24.8	104	18.0	740	26.3	52	29.1
Hispanic	179	8.7	187	9.0	39	6.7	348	12.4	17	9.5
Missing	38	1.9	54	2.6	12	2.1	65	2.3	9	5.0
Limited English Proficient										
Yes	7	0.3	5	0.2	2	0.3	21	0.7	1	0.6
No	2,041	99.4	2,056	99.3	576	99.7	2,787	99.0	178	99.4
Exited <sup>b</sup>	6	0.3	9	0.4	0	0.0	7	0.2	0	0.0

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.

Table 13.27 Demographic Information for MD Mod-HSA 2011 Government\*

	October Form		January Form		April Form		May Form	
	N	%	N	%	N	%	N	%
Overall	1,758	100.0	1,731	100.0	360	100.0	2,465	100.0
Gender								
Male	1,094	62.2	1,088	62.9	233	64.7	1,571	63.7
Female	650	37.0	635	36.7	126	35.0	876	35.5
Missing	14	0.8	8	0.5	1	0.3	18	0.7
Special Education								
Yes	1,455	82.8	1,410	81.5	303	84.2	2,126	86.2
No	301	17.1	320	18.5	57	15.8	336	13.6
Exited	2	0.1	0	0.0	0	0.0	0	0.0
Exited and placed in 504 <sup>a</sup>	0	0.0	0	0.0	0	0.0	0	0.0
504	0	0.0	1	0.1	0	0.0	3	0.1
Ethnicity								
American Indian	3	0.2	8	0.5	0	0.0	8	0.3
Asian	23	1.3	17	1.0	3	0.8	35	1.4
African American	1,130	64.3	1,051	60.7	269	74.7	1,453	58.9
Hawaiian/Pacific Islander	7	0.4	4	0.2	1	0.3	5	0.2
White	424	24.1	473	27.3	54	15.0	615	24.9
Hispanic	133	7.6	141	8.1	28	7.8	286	11.6
Missing	38	2.2	37	2.1	5	1.4	63	2.6
Limited English Proficient								
Yes	6	0.3	10	0.6	1	0.3	14	0.6
No	1,746	99.3	1,715	99.1	359	99.7	2,445	99.2
Exited <sup>b</sup>	6	0.3	6	0.3	0	0.0	6	0.2

\*May 2011 was the last administration of the Government Mod-HSA

<sup>a</sup> 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.

<sup>b</sup> LEP Exited indicates students who have exited English language acquisition services.