

4. THE 2009 MSA-READING STATISTICAL SUMMARY

This chapter summarizes statistical results of the 2009 MSA-Reading. It includes descriptive statistics of the 2009 reading test based on raw scores and scale scores, accuracy and consistency of the 2009 reading test, rater agreement rates, correlation coefficients among reporting standards, and total and subtotal RS/SS conversion tables.

Table 4.1 Classical Descriptive Statistics for the 2009 MSA-Reading: Grades 3 through 8

Grade	Form	N	Total number of Items	Mean	SD	Reliability	SEM
3	A	26,900	37	29.92	6.85	0.88	2.37
	B	26,903	37	30.97	6.96	0.88	2.41
4	A	29,449	37	28.91	7.48	0.88	2.59
	B	29,266	37	27.78	7.54	0.88	2.61
5	A	30,193	37	30.55	6.65	0.86	2.49
	B	29,986	37	29.31	6.30	0.84	2.52
6	A	29,751	37	30.21	6.34	0.85	2.46
	B	29,070	37	30.19	6.31	0.85	2.44
7	A	30,046	37	31.13	6.92	0.88	2.40
	B	29,541	37	30.76	6.78	0.87	2.44
8	A	30,717	37	29.31	6.52	0.85	2.53
	B	30,235	37	29.00	6.13	0.84	2.45

Note. Analysis was conducted with a statewide population.

Table 4.2 The 2009 MSA-Reading Scale Score Descriptive Statistics: Grades 3 through 8

Grade	Form	N	M	SD	P10	Q1	Mdn	Q3	P90	IQR	SE at Cut-Points	
											Prof.	Adv.
3	A	29,986	421.7	44.5	360	392	423	453	471	61	11	17
	B	29,660	421.4	43.3	364	392	421	451	479	59	11	17
	Overall	59,646	421.6	43.9	364	392	423	451	479	59	N/A	N/A
4	A	29,449	413.6	38.2	365	388	413	440	464	52	11	15
	B	29,266	414.0	38.1	365	386	415	440	462	54	12	14
	Overall	58,715	413.8	38.1	365	388	413	440	462	52	N/A	N/A
5	A	30,193	427.6	37.1	381	401	428	454	472	53	11	13
	B	29,986	425.8	34.9	385	401	424	447	471	46	12	13
	Overall	60,179	426.7	36.0	381	401	424	447	472	46	N/A	N/A
6	A	29,751	414.3	33.4	372	391	413	435	459	44	11	13
	B	29,070	412.9	32.2	375	391	412	433	456	42	11	13
	Overall	58,821	413.6	32.8	372	391	413	435	456	44	N/A	N/A
7	A	30,046	421.8	39.5	372	396	419	443	471	47	11	14
	B	29,541	420.7	37.4	373	394	421	444	471	50	11	13
	Overall	59,587	421.3	38.5	373	396	421	444	471	48	N/A	N/A
8	A	30,717	416.1	30.8	376	395	415	435	456	40	11	13
	B	30,235	416.1	31.0	379	395	417	439	453	44	11	13
	Overall	60,952	416.1	30.9	376	395	417	435	456	40	N/A	N/A

Note. Analyses were conducted with a whole population.

Table 4.3 The 2009 MSA-Reading Standard Correlations: Grade 3 Form A

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	26,900	12.76	2.78	1.00		
2. Literary Reading	26,900	8.33	2.55	0.7	1.00	
3. Information Reading	26,900	8.83	2.41	0.64	0.61	1.00

Note. Analysis was conducted with a statewide population.

Table 4.4 The 2009 MSA-Reading Standard Correlations: Grade 3 Form B

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	26,903	12.79	2.78	1.00		
2. Literary Reading	26,903	8.83	2.49	0.68	1.00	
3. Information Reading	26,903	9.35	2.56	0.67	0.63	1.00

Note. Analysis was conducted with a statewide population.

Table 4.5 The 2009 MSA-Reading Standard Correlations: Grade 4 Form A

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	29,449	11.54	2.63	1.00		
2. Literary Reading	29,449	9.02	2.85	0.70	1.00	
3. Information Reading	29,449	8.34	2.93	0.66	0.70	1.00

Note. Analysis was conducted with a statewide population.

Table 4.6 The 2009 MSA-Reading Standard Correlations: Grade 4 Form B

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	29,266	11.49	2.61	1.00		
2. Literary Reading	29,266	8.60	2.85	0.70	1.00	
3. Information Reading	29,266	7.69	3.00	0.67	0.71	1.00

Note. Analysis was conducted with a statewide population.

Table 4.7 The 2009 MSA-Reading Standard Correlations: Grade 5 Form A

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	30,193	11.73	2.28	1.00		
2. Literary Reading	30,193	9.62	2.76	0.64	1.00	
3. Information Reading	30,193	9.19	2.54	0.62	0.69	1.00

Note. Analysis was conducted with a statewide population.

Table 4.8 The 2009 MSA-Reading Standard Correlations: Grade 5 Form B

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	29,986	11.78	2.26	1.00		
2. Literary Reading	29,986	9.72	2.43	0.62	1.00	
3. Information Reading	29,986	7.81	2.62	0.58	0.63	1.00

Note. Analysis was conducted with a statewide population.

Table 4.9 The 2009 MSA-Reading Standard Correlations: Grade 6 Form A

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	29,751	11.9	2.41	1.00		
2. Literary Reading	29,751	9.57	2.51	0.67	1.00	
3. Information Reading	29,751	8.75	2.37	0.61	0.64	1.00

Note. Analysis was conducted with a statewide population.

Table 4.10 The 2009 MSA-Reading Standard Correlations: Grade 6 Form B

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	29,070	11.89	2.39	1.00		
2. Literary Reading	29,070	8.97	2.53	0.63	1.00	
3. Information Reading	29,070	9.32	2.35	0.63	0.63	1.00

Note. Analysis was conducted with a statewide population.

Table 4.11 The 2009 MSA-Reading Standard Correlations: Grade 7 Form A

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	30,046	11.74	2.49	1.00		
2. Literary Reading	30,046	9.98	2.71	0.69	1.00	
3. Information Reading	30,046	9.42	2.61	0.64	0.7	1.00

Note. Analysis was conducted with a statewide population.

Table 4.12 The 2009 MSA-Reading Standard Correlations: Grade 7 Form B

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	29,541	11.77	2.45	1.00		
2. Literary Reading	29,541	9.39	2.66	0.68	1.00	
3. Information Reading	29,541	9.61	2.60	0.63	0.67	1.00

Note. Analysis was conducted with a statewide population.

Table 4.13 The 2009 MSA-Reading Standard Correlations: Grade 8 Form A

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	30,717	12.00	2.46	1.00		
2. Literary Reading	30,717	8.39	2.45	0.61	1.00	
3. Information Reading	30,717	8.93	2.58	0.64	0.66	1.00

Note. Analysis was conducted with a statewide population.

Table 4.14 The 2009 MSA-Reading Standard Correlations: Grade 8 Form B

Cluster	<i>N</i>	Mean	<i>SD</i>	1	2	3
1. General Reading	30,235	12.00	2.42	1.00		
2. Literary Reading	30,235	8.00	2.46	0.60	1.00	
3. Information Reading	30,235	9.00	2.25	0.59	0.64	1.00

Note. Analysis was conducted with a statewide population.

Table 4.15 The 2009 MSA-Reading Decision Accuracy and Consistency Indices: Grade 3

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
A	<i>B : PA</i>	0.93	0.03	0.05	0.90
	<i>BP : A</i>	0.92	0.05	0.03	0.88
B	<i>B : PA</i>	0.92	0.03	0.05	0.89
	<i>BP : A</i>	0.92	0.04	0.04	0.89

Note. B:PA denotes the cut between Basic and Proficient, while BP:A denotes the cut between Proficient and Advanced.

Table 4.16 The 2009 MSA-Reading Decision Accuracy and Consistency Indices: Grade 4

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
A	<i>B : PA</i>	0.94	0.02	0.04	0.91
	<i>BP : A</i>	0.91	0.05	0.04	0.88
B	<i>B : PA</i>	0.94	0.03	0.04	0.91
	<i>BP : A</i>	0.91	0.05	0.03	0.88

Note. B:PA denotes the cut between Basic and Proficient, while BP:A denotes the cut between Proficient and Advanced.

Table 4.17 The 2009 MSA-Reading Decision Accuracy and Consistency Indices: Grade 5

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
A	<i>B : PA</i>	0.93	0.02	0.04	0.91
	<i>BP : A</i>	0.88	0.06	0.06	0.83
B	<i>B : PA</i>	0.93	0.02	0.05	0.90
	<i>BP : A</i>	0.87	0.07	0.06	0.82

Note. B:PA denotes the cut between Basic and Proficient, while BP:A denotes the cut between Proficient and Advanced.

Table 4.18 The 2009 MSA-Reading Decision Accuracy and Consistency Indices: Grade 6

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
A	<i>B : PA</i>	0.91	0.03	0.06	0.87
	<i>BP : A</i>	0.89	0.07	0.05	0.84
B	<i>B : PA</i>	0.91	0.03	0.05	0.88
	<i>BP : A</i>	0.88	0.06	0.06	0.84

Note. B:PA denotes the cut between Basic and Proficient, while BP:A denotes the cut between Proficient and Advanced.

Table 4.19 The 2009 MSA-Reading Decision Accuracy and Consistency Indices: Grade 7

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
A	<i>B : PA</i>	0.92	0.03	0.05	0.88
	<i>BP : A</i>	0.89	0.06	0.05	0.85
B	<i>B : PA</i>	0.91	0.04	0.05	0.88
	<i>BP : A</i>	0.89	0.06	0.05	0.84

Note. B:PA denotes the cut between Basic and Proficient, while BP:A denotes the cut between Proficient and Advanced.

Table 4.20 The 2009 MSA-Reading Decision Accuracy and Consistency Indices: Grade 8

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
A	<i>B : PA</i>	0.91	0.04	0.05	0.88
	<i>BP : A</i>	0.88	0.06	0.06	0.84
B	<i>B : PA</i>	0.91	0.04	0.06	0.87
	<i>BP : A</i>	0.88	0.06	0.06	0.83

Note. B:PA denotes the cut between Basic and Proficient, while BP:A denotes the cut between Proficient and Advanced.

Table 4.21 The 2009 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 3

Form	Item No.	Item CID	Perfect		Adjacent		Discrepancy		Total	
			N	%	N	%	N	%	N	%
A	11	3492389	21,589	80.26	5,277	19.62	34	0.13	26,900	100.00
	14	3492393	22,097	82.14	4,669	17.36	134	0.50	26,900	100.00
	17	3471505	20,009	74.38	6,671	24.80	220	0.82	26,900	100.00
	20	3471506	19,917	74.04	6,868	25.53	115	0.43	26,900	100.00
B	11	3497784	20,216	75.14	6,605	24.55	82	0.30	26,903	100.00
	14	3497783	22,177	82.43	4,713	17.52	13	0.05	26,903	100.00
	17	3490497	20,907	77.71	5,914	21.98	82	0.30	26,903	100.00
	20	3490494	22,281	82.82	4,617	17.16	5	0.02	26,903	100.00

Note. Analyses were conducted with a statewide population.

Table 4.22 The 2009 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 4

Form	Item No.	Item CID	Perfect		Adjacent		Discrepancy		Total	
			N	%	N	%	N	%	N	%
A	11	3497929	23,711	80.52	5,538	18.81	200	0.68	29,449	100.00
	14	3497931	22,517	76.46	6,869	23.33	63	0.21	29,449	100.00
	17	3470329	20,494	69.59	8,749	29.71	206	0.70	29,449	100.00
	20	3470328	20,088	68.21	9,066	30.79	295	1.00	29,449	100.00
B	11	3488817	23,931	81.77	5,226	17.86	109	0.37	29,266	100.00
	14	3488816	21,720	74.22	7,500	25.63	46	0.16	29,266	100.00
	17	3497919	23,190	79.24	5,700	19.48	376	1.28	29,266	100.00
	20	3497917	21,271	72.68	7,871	26.89	124	0.42	29,266	100.00

Note. Analyses were conducted with a statewide population.

Table 4.23 The 2009 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 5

Form	Item No.	Item CID	Perfect		Adjacent		Discrepancy		Total	
			N	%	N	%	N	%	N	%
A	11	3486368	25,398	84.12	4,788	15.86	6	0.02	30,192	100.00
	14	3486369	22,541	74.66	7,487	24.80	164	0.54	30,192	100.00
	17	3468082	23,353	77.35	6,795	22.51	44	0.15	30,192	100.00
	20	3468083	22,447	74.35	7,666	25.39	79	0.26	30,192	100.00
B	11	3296564	23,001	76.71	6,968	23.24	17	0.06	29,986	100.00
	14	3296565	23,488	78.33	6,470	21.58	28	0.09	29,986	100.00
	17	3486188	23,427	78.13	6,475	21.59	84	0.28	29,986	100.00
	20	3486190	23,680	78.97	6,166	20.56	140	0.47	29,986	100.00

Note. Analyses were conducted with a statewide population.

Table 4.24 The 2009 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 6

Form	Item No.	Item CID	Perfect		Adjacent		Discrepancy		Total	
			N	%	N	%	N	%	N	%
A	11	3470028	22,981	77.24	6,452	21.69	318	1.07	29,751	100.00
	14	3470029	20,876	70.17	8,693	29.22	182	0.61	29,751	100.00
	17	3498432	23,357	78.51	6,329	21.27	65	0.22	29,751	100.00
	20	3498435	24,952	83.87	4,665	15.68	134	0.45	29,751	100.00
B	11	3470041	20,327	69.92	8,595	29.57	148	0.51	29,070	100.00
	14	3470039	22,331	76.82	6,458	22.22	281	0.97	29,070	100.00
	17	3489694	22,888	78.73	6,147	21.15	35	0.12	29,070	100.00
	20	3489696	24,385	83.88	4,652	16.00	33	0.11	29,070	100.00

Note. Analyses were conducted with a statewide population.

Table 4.25 The 2009 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 7

Form	Item No.	Item CID	Perfect		Adjacent		Discrepancy		Total	
			N	%	N	%	N	%	N	%
A	7	3470050	21,847	72.71	8,146	27.11	53	0.18	30,046	100.00
	10	3470051	22,359	74.42	7,579	25.22	108	0.36	30,046	100.00
	13	3468879	21,900	72.89	7,812	26.00	334	1.11	30,046	100.00
	16	3468877	21,812	72.60	8,125	27.04	109	0.36	30,046	100.00
B	7	3497797	22,778	77.11	6,704	22.69	59	0.20	29,541	100.00
	10	3497798	24,185	81.87	5,322	18.02	34	0.12	29,541	100.00
	13	3468867	24,572	83.18	4,563	15.45	406	1.37	29,541	100.00
	16	3468866	21,571	73.02	7,855	26.59	115	0.39	29,541	100.00

Note. Analyses were conducted with a statewide population.

Table 4.26 The 2009 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 8

Form	Item No.	Item CID	Perfect		Adjacent		Discrepancy		Total	
			N	%	N	%	N	%	N	%
A	7	3514210	22,351	72.76	8,232	26.80	134	0.44	30,717	100.00
	10	3514209	23,469	76.40	7,198	23.43	50	0.16	30,717	100.00
	13	3327522	23,025	74.96	7,636	24.86	56	0.18	30,717	100.00
	16	3327523	23,746	77.31	6,781	22.08	190	0.62	30,717	100.00
B	7	3470065	19,442	64.30	10,178	33.66	615	2.03	30,235	100.00
	10	3470063	24,330	80.47	5,876	19.43	29	0.10	30,235	100.00
	13	3489342	23,827	78.81	6,376	21.09	32	0.11	30,235	100.00
	16	3489340	24,264	80.25	5,888	19.47	83	0.27	30,235	100.00

Note. Analyses were conducted with a statewide population.

Table 4.27 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 3 Form A

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	47
1	243	34
2	268	25
3	284	21
4	296	18
5	305	17
6	313	16
7	320	15
8	327	14
9	332	13
10	338	13
11	343	13
12	347	12
13	352	12
14	356	12
15	360	12
16	365	11
17	369	11
18	373	11
19	377	11
20	380	11
21	384	11
22	388	11
23	392	11
24	396	11
25	400	12
26	405	12
27	409	12
28	413	12
29	418	12
30	423	13
31	428	13
32	434	14
33	440	14
34	446	15
35	453	16
36	462	17
37	471	18
38	482	20
39	496	23
40	515	26
41	539	30
42	568	31
43	597	31
44	631	37
45	650 ^b	49

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Table 4.28 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 3 Form B

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	47
1	240 ^a	34
2	264	25
3	279	21
4	291	18
5	301	17
6	309	16
7	316	15
8	322	14
9	328	13
10	333	13
11	338	13
12	343	12
13	348	12
14	352	12
15	356	12
16	360	11
17	364	11
18	368	11
19	372	11
20	376	11
21	380	11
22	384	11
23	388	11
24	392	11
25	395	11
26	399	11
27	404	12
28	408	12
29	412	12
30	417	12
31	421	13
32	426	13
33	432	13
34	437	14
35	444	15
36	451	16
37	459	17
38	468	18
39	479	20
40	494	23
41	513	27
42	538	30
43	568	33
44	606	39
45	650 ^b	50

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Table 4.29 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 3 Form A

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	48
GR	1	258	36
GR	2	287	27
GR	3	305	23
GR	4	320	21
GR	5	333	20
GR	6	344	19
GR	7	355	18
GR	8	365	18
GR	9	375	18
GR	10	385	18
GR	11	396	19
GR	12	408	20
GR	13	421	22
GR	14	439	26
GR	15	465	34
GR	16	650	47
LI	0	240	47
LI	1	300	35
LI	2	327	26
LI	3	346	23
LI	4	361	22
LI	5	375	21
LI	6	389	21
LI	7	402	21
LI	8	417	23
LI	9	434	25
LI	10	455	28
LI	11	484	34
LI	12	534	46
LI	13	597	45
LI	14	650	53
IN	0	240	47
IN	1	310	34
IN	2	336	26
IN	3	354	22
IN	4	368	20
IN	5	380	20
IN	6	392	19
IN	7	404	20
IN	8	416	20
IN	9	430	22
IN	10	445	24
IN	11	465	27
IN	12	492	33
IN	13	538	43
IN	14	595	44
IN	15	650	52

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.30 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 3 Form B

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	48
GR	1	258	36
GR	2	287	27
GR	3	305	23
GR	4	320	21
GR	5	333	20
GR	6	344	19
GR	7	355	18
GR	8	365	18
GR	9	375	18
GR	10	385	18
GR	11	396	19
GR	12	408	20
GR	13	421	22
GR	14	439	26
GR	15	465	34
GR	16	650	47
LI	0	240	48
LI	1	296	35
LI	2	324	26
LI	3	342	23
LI	4	357	21
LI	5	370	20
LI	6	383	20
LI	7	395	20
LI	8	408	21
LI	9	422	22
LI	10	440	25
LI	11	465	32
LI	12	511	45
LI	13	576	47
LI	14	650	55
IN	0	240	48
IN	1	294	36
IN	2	323	27
IN	3	342	23
IN	4	358	21
IN	5	371	20
IN	6	383	20
IN	7	395	20
IN	8	407	20
IN	9	420	21
IN	10	434	22
IN	11	451	24
IN	12	472	29
IN	13	504	36
IN	14	556	46
IN	15	650	56

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.31 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table for Verbatim Students: Grade 3 Form A

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240	47
1	280	33
2	305	24
3	320	21
4	332	18
5	342	17
6	350	16
7	357	15
8	365	15
9	371	15
10	378	14
11	384	14
12	390	14
13	397	14
14	403	15
15	410	15
16	417	15
17	424	16
18	432	16
19	440	17
20	450	18
21	460	19
22	473	21
23	488	24
24	509	28
25	536	31
26	567	31
27	596	31
28	631	37
29	650	49

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Table 4.32 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table for Verbatim Students: Grade 3 Form B

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240	47
1	270	34
2	295	25
3	311	21
4	323	19
5	334	17
6	342	16
7	350	16
8	357	15
9	364	15
10	371	14
11	377	14
12	383	14
13	389	14
14	395	14
15	401	14
16	408	14
17	414	15
18	421	15
19	429	16
20	437	17
21	446	18
22	456	19
23	469	21
24	485	24
25	506	28
26	534	31
27	566	33
28	605	39
29	650	50

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Table 4.33 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table for Verbatim Students: Grade 3 Form A

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
LI	0	240	47
LI	1	300	35
LI	2	327	26
LI	3	346	23
LI	4	361	22
LI	5	375	21
LI	6	389	21
LI	7	402	21
LI	8	417	23
LI	9	434	25
LI	10	455	28
LI	11	484	34
LI	12	534	46
LI	13	597	45
LI	14	650	53
IN	0	240	47
IN	1	310	34
IN	2	336	26
IN	3	354	22
IN	4	368	20
IN	5	380	20
IN	6	392	19
IN	7	404	20
IN	8	416	20
IN	9	430	22
IN	10	445	24
IN	11	465	27
IN	12	492	33
IN	13	538	43
IN	14	595	44
IN	15	650	52

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. LI=Literary, IN=Informational

Table 4.34 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table for Verbatim Students: Grade 3 Form B

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
LI	0	240	48
LI	1	296	35
LI	2	324	26
LI	3	342	23
LI	4	357	21
LI	5	370	20
LI	6	383	20
LI	7	395	20
LI	8	408	21
LI	9	422	22
LI	10	440	25
LI	11	465	32
LI	12	511	45
LI	13	576	47
LI	14	650	55
IN	0	240	48
IN	1	294	36
IN	2	323	27
IN	3	342	23
IN	4	358	21
IN	5	371	20
IN	6	383	20
IN	7	395	20
IN	8	407	20
IN	9	420	21
IN	10	434	22
IN	11	451	24
IN	12	472	29
IN	13	504	36
IN	14	556	46
IN	15	650	56

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. LI=Literary, IN=Informational

Table 4.35 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 4 Form A

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	47
1	240 ^a	34
2	257	25
3	273	21
4	285	19
5	295	17
6	303	16
7	310	15
8	317	14
9	323	14
10	329	13
11	334	13
12	339	13
13	344	12
14	348	12
15	352	12
16	357	12
17	361	12
18	365	11
19	369	11
20	373	11
21	376	11
22	380	11
23	384	11
24	388	11
25	392	11
26	396	11
27	400	12
28	404	12
29	408	12
30	413	12
31	418	13
32	422	13
33	428	13
34	433	14
35	440	15
36	447	16
37	454	17
38	464	18
39	475	20
40	488	22
41	506	25
42	528	29
43	556	33
44	597	42
45	650 ^b	53

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.36 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 4 Form B

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	47
1	240 ^a	34
2	259	25
3	275	21
4	287	19
5	297	17
6	306	16
7	313	15
8	320	15
9	326	14
10	332	14
11	338	13
12	343	13
13	348	13
14	352	12
15	357	12
16	361	12
17	365	12
18	370	12
19	374	12
20	378	11
21	382	11
22	386	11
23	390	11
24	394	11
25	398	12
26	402	12
27	406	12
28	410	12
29	415	12
30	419	12
31	424	13
32	429	13
33	434	14
34	440	14
35	447	15
36	454	16
37	462	17
38	471	18
39	483	20
40	497	23
41	515	26
42	536	28
43	562	30
44	596	38
45	650 ^b	50

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.37 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 4 Form A

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	48
GR	1	248	36
GR	2	277	27
GR	3	296	24
GR	4	313	22
GR	5	327	21
GR	6	340	20
GR	7	352	20
GR	8	364	20
GR	9	375	20
GR	10	387	20
GR	11	400	21
GR	12	415	23
GR	13	433	26
GR	14	460	35
GR	15	650	48
LI	0	240	48
LI	1	284	35
LI	2	312	26
LI	3	330	23
LI	4	345	21
LI	5	358	20
LI	6	370	20
LI	7	382	20
LI	8	394	20
LI	9	406	21
LI	10	421	23
LI	11	439	26
LI	12	465	33
LI	13	512	45
LI	14	580	49
LI	15	650	56
IN	0	240	48
IN	1	304	35
IN	2	330	26
IN	3	347	22
IN	4	361	20
IN	5	373	19
IN	6	384	19
IN	7	394	19
IN	8	405	19
IN	9	417	20
IN	10	430	21
IN	11	445	24
IN	12	465	28
IN	13	492	33
IN	14	532	40
IN	15	650	51

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.38 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 4 Form B

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	48
GR	1	248	36
GR	2	277	27
GR	3	296	24
GR	4	313	22
GR	5	327	21
GR	6	340	20
GR	7	352	20
GR	8	364	20
GR	9	375	20
GR	10	387	20
GR	11	400	21
GR	12	415	23
GR	13	433	26
GR	14	460	35
GR	15	650	48
LI	0	240	49
LI	1	289	36
LI	2	318	27
LI	3	337	23
LI	4	352	21
LI	5	365	20
LI	6	377	20
LI	7	389	20
LI	8	401	20
LI	9	414	21
LI	10	428	23
LI	11	446	26
LI	12	471	32
LI	13	515	43
LI	14	574	44
LI	15	650	53
IN	0	240	48
IN	1	307	35
IN	2	335	26
IN	3	353	23
IN	4	368	21
IN	5	381	20
IN	6	392	19
IN	7	404	19
IN	8	415	20
IN	9	427	20
IN	10	441	22
IN	11	457	24
IN	12	478	28
IN	13	507	34
IN	14	548	41
IN	15	650	52

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.39 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 5 Form A

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	49
1	240 ^a	36
2	258	26
3	275	22
4	288	19
5	298	17
6	307	16
7	314	15
8	321	14
9	327	14
10	333	13
11	338	13
12	343	13
13	348	12
14	352	12
15	357	12
16	361	12
17	365	12
18	369	12
19	373	11
20	377	11
21	381	11
22	385	11
23	389	11
24	393	11
25	397	12
26	401	12
27	405	12
28	409	12
29	414	12
30	418	13
31	423	13
32	428	13
33	434	14
34	440	14
35	446	15
36	454	16
37	462	17
38	472	19
39	484	21
40	500	24
41	519	27
42	543	29
43	569	31
44	603	38
45	650 ^b	50

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Table 4.40 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 5 Form B

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	48
1	240 ^a	35
2	256	26
3	273	22
4	286	20
5	297	18
6	306	17
7	314	16
8	321	15
9	328	14
10	334	14
11	339	13
12	345	13
13	350	13
14	355	13
15	359	12
16	364	12
17	368	12
18	372	12
19	377	12
20	381	12
21	385	12
22	389	12
23	393	12
24	397	12
25	401	12
26	406	12
27	410	12
28	415	12
29	419	13
30	424	13
31	429	13
32	435	14
33	440	14
34	447	15
35	454	16
36	462	17
37	471	18
38	482	20
39	495	22
40	511	25
41	532	27
42	555	29
43	582	30
44	615	37
45	650 ^b	50

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Table 4.41 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 5 Form A

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	48
GR	1	268	35
GR	2	295	26
GR	3	313	23
GR	4	327	21
GR	5	340	20
GR	6	352	20
GR	7	363	19
GR	8	375	19
GR	9	386	20
GR	10	398	20
GR	11	411	21
GR	12	426	23
GR	13	444	27
GR	14	472	35
GR	15	650	48
LI	0	240	55
LI	1	269	44
LI	2	310	31
LI	3	333	25
LI	4	350	22
LI	5	364	21
LI	6	376	20
LI	7	387	19
LI	8	399	20
LI	9	411	20
LI	10	424	22
LI	11	441	25
LI	12	464	31
LI	13	501	39
LI	14	553	43
LI	15	650	53
IN	0	240	49
IN	1	292	36
IN	2	320	27
IN	3	339	24
IN	4	355	22
IN	5	368	21
IN	6	381	20
IN	7	393	20
IN	8	406	21
IN	9	420	22
IN	10	435	24
IN	11	455	27
IN	12	481	33
IN	13	525	42
IN	14	581	44
IN	15	650	53

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.42 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 5 Form B

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	48
GR	1	268	35
GR	2	295	26
GR	3	313	23
GR	4	327	21
GR	5	340	20
GR	6	352	20
GR	7	363	19
GR	8	375	19
GR	9	386	20
GR	10	398	20
GR	11	411	21
GR	12	426	23
GR	13	444	27
GR	14	472	35
GR	15	650	48
LI	0	240	51
LI	1	251	39
LI	2	288	32
LI	3	315	28
LI	4	335	25
LI	5	352	23
LI	6	367	21
LI	7	380	21
LI	8	393	21
LI	9	406	21
LI	10	421	23
LI	11	439	26
LI	12	464	33
LI	13	516	49
LI	14	584	45
LI	15	650	54
IN	0	240	48
IN	1	316	35
IN	2	343	26
IN	3	361	23
IN	4	375	21
IN	5	388	20
IN	6	400	20
IN	7	412	20
IN	8	425	21
IN	9	439	22
IN	10	455	24
IN	11	474	27
IN	12	499	31
IN	13	533	36
IN	14	577	42
IN	15	650	52

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.43 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 6 Form A

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	44
1	240 ^a	32
2	257	23
3	272	20
4	283	18
5	293	16
6	301	15
7	308	14
8	314	14
9	320	13
10	325	13
11	330	12
12	335	12
13	339	12
14	344	11
15	348	11
16	352	11
17	356	11
18	360	11
19	364	11
20	368	11
21	372	11
22	375	11
23	379	11
24	383	11
25	387	11
26	391	11
27	395	11
28	399	11
29	404	12
30	408	12
31	413	12
32	418	13
33	423	13
34	429	14
35	435	14
36	442	15
37	450	16
38	459	17
39	470	19
40	482	21
41	498	22
42	516	24
43	537	27
44	566	34
45	650 ^b	45

Note. ^aLOSS was set to 240.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.44 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 6 Form B

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	45
1	240 ^a	32
2	253	24
3	269	20
4	281	18
5	291	17
6	300	15
7	307	15
8	314	14
9	319	13
10	325	13
11	330	12
12	335	12
13	340	12
14	344	11
15	348	11
16	352	11
17	356	11
18	360	11
19	364	11
20	368	11
21	372	11
22	375	11
23	379	11
24	383	11
25	387	11
26	391	11
27	395	11
28	399	11
29	403	11
30	407	12
31	412	12
32	417	12
33	422	13
34	427	13
35	433	14
36	440	15
37	447	16
38	456	17
39	466	19
40	479	21
41	494	23
42	513	25
43	535	27
44	565	34
45	650 ^b	46

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.45 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 6 Form A

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	45
GR	1	264	33
GR	2	290	25
GR	3	307	21
GR	4	321	19
GR	5	333	18
GR	6	343	18
GR	7	353	17
GR	8	363	17
GR	9	373	18
GR	10	384	18
GR	11	395	19
GR	12	408	21
GR	13	424	24
GR	14	449	32
GR	15	650	44
LI	0	240	44
LI	1	290	32
LI	2	315	24
LI	3	332	21
LI	4	345	19
LI	5	357	19
LI	6	367	18
LI	7	378	18
LI	8	389	19
LI	9	401	19
LI	10	414	21
LI	11	430	24
LI	12	452	29
LI	13	487	36
LI	14	535	40
LI	15	650	49
IN	0	240	47
IN	1	265	36
IN	2	299	29
IN	3	324	26
IN	4	343	23
IN	5	360	22
IN	6	375	21
IN	7	389	21
IN	8	403	21
IN	9	417	21
IN	10	432	22
IN	11	449	24
IN	12	470	27
IN	13	498	31
IN	14	536	37
IN	15	650	48

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.46 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 6 Form B

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	45
GR	1	264	33
GR	2	290	25
GR	3	307	21
GR	4	321	19
GR	5	333	18
GR	6	343	18
GR	7	353	17
GR	8	363	17
GR	9	373	18
GR	10	384	18
GR	11	395	19
GR	12	408	21
GR	13	424	24
GR	14	449	32
GR	15	650	44
LI	0	240	45
LI	1	295	33
LI	2	321	25
LI	3	338	21
LI	4	352	20
LI	5	364	19
LI	6	375	18
LI	7	385	18
LI	8	396	18
LI	9	408	19
LI	10	421	20
LI	11	436	23
LI	12	456	27
LI	13	486	33
LI	14	529	39
LI	15	650	49
IN	0	240	47
IN	1	254	37
IN	2	290	30
IN	3	316	26
IN	4	336	23
IN	5	352	21
IN	6	366	20
IN	7	379	20
IN	8	393	20
IN	9	406	21
IN	10	421	22
IN	11	438	24
IN	12	460	28
IN	13	493	35
IN	14	538	40
IN	15	650	49

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.47 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 7 Form A

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	47
1	240 ^a	34
2	249	25
3	265	21
4	278	19
5	288	17
6	297	16
7	305	15
8	311	14
9	318	14
10	324	13
11	329	13
12	334	13
13	339	12
14	343	12
15	348	12
16	352	12
17	356	11
18	360	11
19	364	11
20	368	11
21	372	11
22	376	11
23	380	11
24	384	11
25	388	11
26	392	11
27	396	11
28	400	12
29	405	12
30	409	12
31	414	12
32	419	13
33	424	13
34	430	14
35	436	14
36	443	15
37	451	16
38	460	18
39	471	20
40	484	22
41	500	24
42	519	26
43	542	28
44	572	36
45	650 ^b	48

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Table 4.48 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 7 Form B

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	48
1	240 ^a	35
2	241	27
3	259	22
4	273	20
5	285	18
6	294	17
7	302	16
8	310	15
9	317	14
10	323	14
11	328	13
12	334	13
13	339	13
14	344	12
15	348	12
16	353	12
17	357	12
18	361	12
19	365	11
20	369	11
21	373	11
22	377	11
23	381	11
24	386	11
25	390	11
26	394	11
27	398	12
28	402	12
29	407	12
30	411	12
31	416	12
32	421	13
33	426	13
34	432	14
35	438	14
36	444	15
37	452	16
38	461	17
39	471	19
40	483	21
41	499	24
42	520	27
43	546	30
44	580	37
45	650 ^b	48

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Table 4.49 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 7 Form A

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	47
GR	1	265	34
GR	2	292	26
GR	3	310	22
GR	4	325	20
GR	5	337	19
GR	6	348	19
GR	7	359	18
GR	8	370	18
GR	9	380	19
GR	10	391	19
GR	11	404	20
GR	12	417	22
GR	13	435	25
GR	14	461	34
GR	15	650	47
LI	0	240	50
LI	1	263	38
LI	2	296	29
LI	3	318	24
LI	4	334	22
LI	5	348	20
LI	6	360	20
LI	7	372	19
LI	8	384	20
LI	9	396	20
LI	10	410	22
LI	11	427	25
LI	12	450	30
LI	13	488	39
LI	14	541	42
LI	15	650	51
IN	0	240	50
IN	1	269	38
IN	2	304	30
IN	3	329	26
IN	4	347	23
IN	5	362	21
IN	6	376	20
IN	7	388	20
IN	8	401	20
IN	9	414	21
IN	10	428	22
IN	11	445	24
IN	12	466	28
IN	13	497	34
IN	14	538	40
IN	15	650	50

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.50 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 7 Form B

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	47
GR	1	265	34
GR	2	292	26
GR	3	310	22
GR	4	325	20
GR	5	337	19
GR	6	348	19
GR	7	359	18
GR	8	370	18
GR	9	380	19
GR	10	391	19
GR	11	404	20
GR	12	417	22
GR	13	435	25
GR	14	461	34
GR	15	650	47
LI	0	240	51
LI	1	240	41
LI	2	280	35
LI	3	311	29
LI	4	333	24
LI	5	350	22
LI	6	364	21
LI	7	378	21
LI	8	392	21
LI	9	406	22
LI	10	422	24
LI	11	442	27
LI	12	468	32
LI	13	508	39
LI	14	559	42
LI	15	650	51
IN	0	240	48
IN	1	276	36
IN	2	308	28
IN	3	329	25
IN	4	346	22
IN	5	361	21
IN	6	374	20
IN	7	386	20
IN	8	398	19
IN	9	410	20
IN	10	422	21
IN	11	437	22
IN	12	455	26
IN	13	480	32
IN	14	524	43
IN	15	650	54

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.51 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 8 Form A

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	44
1	251	31
2	274	23
3	288	19
4	298	17
5	307	15
6	314	14
7	320	14
8	326	13
9	331	12
10	336	12
11	341	12
12	345	11
13	350	11
14	354	11
15	358	11
16	361	11
17	365	11
18	369	11
19	373	11
20	376	11
21	380	11
22	383	11
23	387	11
24	391	11
25	395	11
26	398	11
27	402	11
28	406	11
29	411	11
30	415	12
31	420	12
32	424	12
33	430	13
34	435	13
35	441	14
36	448	15
37	456	16
38	465	17
39	475	18
40	487	20
41	502	22
42	520	25
43	543	28
44	574	35
45	650 ^b	46

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Table 4.52 The 2009 MSA-Reading Total Raw Score to Scale Score Conversion Table: Grade 8 Form B

Raw Score	Scale Score (SS)	Standard Error (SE)
0	240 ^a	45
1	240 ^a	33
2	261	24
3	277	20
4	289	18
5	298	16
6	306	15
7	313	14
8	320	14
9	326	13
10	331	13
11	336	12
12	341	12
13	346	12
14	350	12
15	355	11
16	359	11
17	363	11
18	367	11
19	371	11
20	375	11
21	379	11
22	383	11
23	387	11
24	391	11
25	395	11
26	399	11
27	404	11
28	408	12
29	412	12
30	417	12
31	422	12
32	427	13
33	433	13
34	439	14
35	446	15
36	453	15
37	461	16
38	471	18
39	482	19
40	495	21
41	510	23
42	528	24
43	549	27
44	579	34
45	650 ^b	45

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Table 4.53 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 8 Form A

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	44
GR	1	270	32
GR	2	295	24
GR	3	312	21
GR	4	325	19
GR	5	336	18
GR	6	346	18
GR	7	356	17
GR	8	366	17
GR	9	376	18
GR	10	387	18
GR	11	398	19
GR	12	410	20
GR	13	425	22
GR	14	443	26
GR	15	471	34
GR	16	650	45
LI	0	240	45
LI	1	298	33
LI	2	325	25
LI	3	343	22
LI	4	357	20
LI	5	370	19
LI	6	382	19
LI	7	393	19
LI	8	405	19
LI	9	418	21
LI	10	434	23
LI	11	454	27
LI	12	482	32
LI	13	521	38
LI	14	650	48
IN	0	240	44
IN	1	304	32
IN	2	329	24
IN	3	346	21
IN	4	359	19
IN	5	371	18
IN	6	382	18
IN	7	393	18
IN	8	404	19
IN	9	416	20
IN	10	430	22
IN	11	448	25
IN	12	472	30
IN	13	509	37
IN	14	557	40
IN	15	650	49

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational

Table 4.54 The 2009 MSA-Reading Subtotal Raw Score to Scale Score Conversion Table: Grade 8 Form B

Strand	Raw Score	Scale Score (SS)	Standard Error (SE)
GR	0	240	44
GR	1	270	32
GR	2	295	24
GR	3	312	21
GR	4	325	19
GR	5	336	18
GR	6	346	18
GR	7	356	17
GR	8	366	17
GR	9	376	18
GR	10	387	18
GR	11	398	19
GR	12	410	20
GR	13	425	22
GR	14	443	26
GR	15	471	34
GR	16	650	45
LI	0	240	45
LI	1	299	34
LI	2	327	26
LI	3	345	22
LI	4	361	21
LI	5	374	20
LI	6	387	20
LI	7	400	20
LI	8	413	21
LI	9	428	22
LI	10	445	24
LI	11	467	28
LI	12	499	34
LI	13	543	40
LI	14	650	49
IN	0	240	49
IN	1	267	38
IN	2	303	29
IN	3	327	25
IN	4	346	23
IN	5	361	21
IN	6	375	20
IN	7	388	20
IN	8	401	20
IN	9	414	21
IN	10	430	23
IN	11	449	26
IN	12	474	30
IN	13	508	34
IN	14	550	39
IN	15	650	48

Note. ^aLOSS was set to 240. ^bHOSS was set to 650.

Note. GR= General Reading, LI=Literary, IN=Informational