

## **4. THE 2004 MSA-READING STATISTICAL SUMMARY**

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**Table 4.1 The 2004 MSA-Reading Classical Descriptive Statistics: Grades 3, 5, and 8**

Grade	Form	No. of Items	<i>N</i>	<i>M</i>	<i>SD</i>	Reliability	<i>SEM</i>
3	A	37	28,080	27.21	7.89	0.89	2.62
	B	37	28,005	28.52	8.09	0.89	2.68
5	A	37	28,996	28.80	7.94	0.88	2.75
	B	37	29,129	28.25	7.67	0.88	2.66
8	A	37	30,190	29.31	7.07	0.87	2.55
	B	37	30,870	29.10	7.14	0.86	2.67

*Note.* The analyses were based on the sample of data used to equate the forms of the 2004 MSA-Reading.

**Table 4.2 The 2004 MSA-Reading Classical Descriptive Statistics: Grades 4, 6, and 7**

Grade	Form	No. of Items	<i>N</i>	<i>M</i>	<i>SD</i>	Reliability	<i>SEM</i>
4	1	37	9,126	28.37	7.45	0.89	2.53
	2	37	9,482	27.68	6.97	0.87	2.47
	3	37	9,716	28.86	7.01	0.88	2.46
	4	37	9,834	29.38	7.30	0.88	2.53
	5	37	9,985	28.63	7.51	0.89	2.50
	6	37	9,759	28.65	6.83	0.88	2.41
6	1	37	9,883	28.59	7.84	0.89	2.55
	2	37	10,220	26.15	7.88	0.89	2.64
	3	37	10,314	28.99	8.65	0.91	2.54
	4	37	10,320	28.62	8.20	0.90	2.57
	5	37	10,351	28.12	7.64	0.89	2.56
	6	37	10,111	28.74	8.06	0.90	2.57
7	1	37	10,274	26.89	7.71	0.89	2.60
	2	37	10,460	27.46	7.59	0.88	2.60
	3	37	10,457	27.90	7.89	0.90	2.56
	4	37	10,443	27.55	7.46	0.88	2.61
	5	37	10,440	28.00	7.55	0.88	2.64
	6	37	10,356	27.50	7.92	0.89	2.59

*Note.* The analyses were based on the sample of data used to equate the forms of the 2004 MSA-Reading.

**Table 4.3 The 2004 MSA-Reading Scale Score Descriptive Statistics: Grades 3, 5, and 8**

Grade	Form	N	M	SD	P10	Q1	Mdn	Q3	P90	IQR	SEM at Cut-Points	
											Prof.	Adv.
3	A	30,007	412.0	39.4	361	385	409	439	459	54	11	16
	B	29,998	411.5	39.1	361	385	409	436	460	51	11	15
	Overall	60,005	411.8	39.3	361	385	409	439	460	54	N/A	N/A
5	A	33,013	403.2	36.8	358	379	401	427	451	48	11	13
	B	33,000	403.5	37.5	356	379	403	426	451	47	11	13
	Overall	66,013	403.3	37.1	356	379	403	427	451	48	N/A	N/A
8	A	34,357	400.6	34.5	362	379	401	423	441	44	10	12
	B	34,179	400.6	34.1	360	381	402	424	441	43	10	12
	Overall	68,536	400.6	34.3	362	381	402	423	441	42	N/A	N/A

**Table 4.4 The 2004 MSA-Reading Scale Score Descriptive Statistics: Grades 4, 6, and 7**

Grade	Form	N	M	SD	P10	Q1	Mdn	Q3	P90	IQR	SEM at Cut-Points	
											Prof.	Adv.
4	1	9,977	399.4	40.7	345	374	401	428	451	54	12	15
	2	10,164	399.9	39.0	350	376	404	428	451	52	12	16
	3	10,280	400.2	39.6	348	375	403	427	451	52	12	16
	4	10,455	398.9	38.9	348	373	399	427	449	54	12	15
	5	10,530	401.0	41.4	348	373	399	427	450	54	12	15
	6	10,324	400.5	40.5	348	374	399	423	446	49	12	16
	Overall	61,730	400.0	40.0	348	374	401	427	450	53	N/A	N/A
6	1	11,397	399.1	40.2	349	374	401	425	445	51	11	13
	2	11,408	399.7	37.6	355	374	400	426	449	52	11	12
	3	11,332	401.1	43.0	348	373	403	428	456	55	10	13
	4	11,353	400.8	41.0	349	374	400	430	450	56	11	12
	5	11,321	400.6	38.2	354	376	399	428	448	52	11	13
	6	11,295	398.9	39.8	351	373	400	428	448	55	11	13
	Overall	68,106	400.0	40.0	351	374	400	428	449	54	N/A	N/A
7	1	11,629	398.8	40.1	349	373	401	424	448	51	11	13
	2	11,571	400.2	39.7	351	375	403	427	446	52	11	13
	3	11,579	401.2	42.0	350	373	401	431	452	58	11	13
	4	11,486	400.2	39.3	355	379	402	426	444	47	11	13
	5	11,452	399.8	38.2	354	377	400	422	447	45	11	13
	6	11,446	399.8	40.8	351	374	402	426	451	52	11	13
	Overall	69,163	400.0	40.0	351	377	401	426	447	49	N/A	N/A

**Table 4.5 The 2004 MSA-Reading Strand Correlations: Grade 3**

Form	<i>N</i>	1	2	3
Form A				
1. General Reading	28,080	1.00		
2. Literary Reading	28,080	0.71	1.00	
3. Information Reading	28,080	0.68	0.73	1.00
Form B				
1. General Reading	28,005	1.00		
2. Literary Reading	28,005	0.67	1.00	
3. Information Reading	28,005	0.70	0.73	1.00

*Note.* The analyses were based on the sample of data used to equate the forms of the 2004 MSA-Reading.

**Table 4.6 The 2004 MSA-Reading Strand Correlations: Grade 5**

Form	<i>N</i>	1	2	3
Form A				
1. General Reading	28,996	1.00		
2. Literary Reading	28,996	0.68	1.00	
3. Information Reading	28,996	0.67	0.71	1.00
Form B				
1. General Reading	29,129	1.00		
2. Literary Reading	29,129	0.68	1.00	
3. Information Reading	29,129	0.67	0.71	1.00

*Note.* The analyses were based on the sample of data used to equate the forms of the 2004 MSA-Reading.

**Table 4.7 The 2004 MSA-Reading Strand Correlations: Grade 8**

Form	<i>N</i>	1	2	3
Form A				
1. General Reading	30,190	1.00		
2. Literary Reading	30,190	0.59	1.00	
3. Information Reading	30,190	0.64	0.65	1.00
Form B				
1. General Reading	30,870	1.00		
2. Literary Reading	30,870	0.59	1.00	
3. Information Reading	30,870	0.66	0.66	1.00

*Note.* The analyses were based on the sample of data used to equate the forms of the 2004 MSA-Reading.

**Table 4.8 The 2004 MSA-Reading Strand Correlations: Grade 4**

Form	<i>N</i>	1	2	3
<b>Form 1</b>				
1. General Reading	9,126	1.00		
2. Literary Reading	9,126	0.69	1.00	
3. Information Reading	9,126	0.69	0.70	1.00
<b>Form 2</b>				
1. General Reading	9,482	1.00		
2. Literary Reading	9,482	0.67	1.00	
3. Information Reading	9,482	0.66	0.67	1.00
<b>Form 3</b>				
1. General Reading	9,716	1.00		
2. Literary Reading	9,716	0.65	1.00	
3. Information Reading	9,716	0.70	0.67	1.00
<b>Form 4</b>				
1. General Reading	9,834	1.00		
2. Literary Reading	9,834	0.66	1.00	
3. Information Reading	9,834	0.69	0.68	1.00
<b>Form 5</b>				
1. General Reading	9,985	1.00		
2. Literary Reading	9,985	0.67	1.00	
3. Information Reading	9,985	0.70	0.71	1.00
<b>Form 6</b>				
1. General Reading	9,759	1.00		
2. Literary Reading	9,759	0.66	1.00	
3. Information Reading	9,759	0.69	0.67	1.00

*Note.* The analyses were based on the sample of data used to equate the forms of the 2004 MSA-Reading.

**Table 4.9 The 2004 MSA-Reading Strand Correlations: Grade 6**

Form	N	1	2	3
<b>Form 1</b>				
1. General Reading	9,883	1.00		
2. Literary Reading	9,883	0.71	1.00	
3. Information Reading	9,883	0.72	0.69	1.00
<b>Form 2</b>				
1. General Reading	10,220	1.00		
2. Literary Reading	10,220	0.68	1.00	
3. Information Reading	10,220	0.72	0.68	1.00
<b>Form 3</b>				
1. General Reading	10,314	1.00		
2. Literary Reading	10,314	0.75	1.00	
3. Information Reading	10,314	0.72	0.73	1.00
<b>Form 4</b>				
1. General Reading	10,320	1.00		
2. Literary Reading	10,320	0.75	1.00	
3. Information Reading	10,320	0.71	0.74	1.00
<b>Form 5</b>				
1. General Reading	10,351	1.00		
2. Literary Reading	10,351	0.71	1.00	
3. Information Reading	10,351	0.70	0.70	1.00
<b>Form 6</b>				
1. General Reading	10,111	1.00		
2. Literary Reading	10,111	0.74	1.00	
3. Information Reading	10,111	0.71	0.71	1.00

*Note.* The analyses were based on the sample of data used to equate the forms of the 2004 MSA-Reading.

**Table 4.10 The 2004 MSA-Reading Strand Correlations: Grade 7**

Form	N	1	2	3
Form 1				
1. General Reading	10,274	1.00		
2. Literary Reading	10,274	0.72	1.00	
3. Information Reading	10,274	0.67	0.66	1.00
Form 2				
1. General Reading	10,460	1.00		
2. Literary Reading	10,460	0.72	1.00	
3. Information Reading	10,460	0.67	0.68	1.00
Form 3				
1. General Reading	10,457	1.00		
2. Literary Reading	10,457	0.72	1.00	
3. Information Reading	10,457	0.68	0.71	1.00
Form 4				
1. General Reading	10,443	1.00		
2. Literary Reading	10,443	0.70	1.00	
3. Information Reading	10,443	0.66	0.67	1.00
Form 5				
1. General Reading	10,440	1.00		
2. Literary Reading	10,440	0.69	1.00	
3. Information Reading	10,440	0.65	0.65	1.00
Form 6				
1. General Reading	10,356	1.00		
2. Literary Reading	10,356	0.72	1.00	
3. Information Reading	10,356	0.69	0.71	1.00

*Note.* The analyses were based on the sample of data used to equate the forms of the 2004 MSA-Reading.



**Table 4.11 The 2004 MSA-Reading Decision Accuracy and Consistency Indices: Grade 3**

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
A	<i>B : PA</i>	0.91	0.04	0.05	0.87
	<i>BP : A</i>	0.94	0.04	0.02	0.92
B	<i>B : PA</i>	0.91	0.04	0.05	0.87
	<i>BP : A</i>	0.94	0.04	0.02	0.92

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

**Table 4.12 The 2004 MSA-Reading Decision Accuracy and Consistency Indices: Grade 5**

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
A	<i>B : PA</i>	0.90	0.04	0.06	0.86
	<i>BP : A</i>	0.91	0.06	0.04	0.87
B	<i>B : PA</i>	0.90	0.04	0.06	0.86
	<i>BP : A</i>	0.91	0.05	0.04	0.87

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

**Table 4.13 The 2004 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	0.06	0.87
	<i>BP : A</i>	0.86	0.07	0.07	0.80
B	<i>B : PA</i>	0.91	0.04	0.06	0.87
	<i>BP : A</i>	0.85	0.08	0.07	0.80

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

**Table 4.14 The 2004 MSA-Reading Decision Accuracy and Consistency Indices: Grade 4**

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
1	<i>B : PA</i>	0.92	0.03	0.05	0.89
	<i>BP : A</i>	0.92	0.05	0.03	0.89
2	<i>B : PA</i>	0.92	0.04	0.05	0.88
	<i>BP : A</i>	0.92	0.05	0.03	0.89
3	<i>B : PA</i>	0.92	0.04	0.04	0.89
	<i>BP : A</i>	0.92	0.05	0.03	0.89
4	<i>B : PA</i>	0.92	0.03	0.05	0.88
	<i>BP : A</i>	0.92	0.05	0.03	0.89
5	<i>B : PA</i>	0.92	0.03	0.04	0.89
	<i>BP : A</i>	0.93	0.04	0.03	0.89
6	<i>B : PA</i>	0.92	0.03	0.05	0.88
	<i>BP : A</i>	0.92	0.05	0.03	0.89

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

**Table 4.15 The 2004 MSA-Reading Decision Accuracy and Consistency Indices: Grade 6**

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
1	<i>B : PA</i>	0.91	0.04	0.05	0.88
	<i>BP : A</i>	0.90	0.06	0.04	0.86
2	<i>B : PA</i>	0.91	0.04	0.05	0.87
	<i>BP : A</i>	0.90	0.05	0.05	0.86
3	<i>B : PA</i>	0.92	0.04	0.04	0.89
	<i>BP : A</i>	0.91	0.05	0.04	0.88
4	<i>B : PA</i>	0.92	0.04	0.04	0.88
	<i>BP : A</i>	0.91	0.05	0.04	0.87
5	<i>B : PA</i>	0.91	0.04	0.05	0.87
	<i>BP : A</i>	0.90	0.05	0.05	0.86
6	<i>B : PA</i>	0.91	0.04	0.05	0.88
	<i>BP : A</i>	0.91	0.05	0.04	0.87

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

**Table 4.16 The 2004 MSA-Reading Decision Accuracy and Consistency Indices: Grade 7**

Form	Performance Cut	Accuracy	False Positive	False Negative	Consistency
1	<i>B : PA</i>	0.91	0.04	0.05	0.88
	<i>BP : A</i>	0.89	0.06	0.05	0.85
2	<i>B : PA</i>	0.91	0.04	0.05	0.87
	<i>BP : A</i>	0.89	0.06	0.05	0.85
3	<i>B : PA</i>	0.92	0.04	0.04	0.88
	<i>BP : A</i>	0.9	0.05	0.05	0.86
4	<i>B : PA</i>	0.91	0.04	0.05	0.87
	<i>BP : A</i>	0.89	0.06	0.06	0.84
5	<i>B : PA</i>	0.91	0.04	0.05	0.87
	<i>BP : A</i>	0.89	0.06	0.06	0.84
6	<i>B : PA</i>	0.91	0.04	0.05	0.87
	<i>BP : A</i>	0.89	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 4.17 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 3 Form A**

Raw Score	Form A			
	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	46	240 <sup>a</sup>	271
1	248	33	240 <sup>a</sup>	281
2	272	24	248	296
3	287	20	267	307
4	298	18	280	316
5	307	16	291	323
6	315	15	300	330
7	321	14	307	336
8	327	14	314	341
9	333	13	320	346
10	338	13	325	351
11	343	12	331	356
12	348	12	336	360
13	352	12	340	364
14	357	12	345	369
15	361	12	349	373
16	365	12	354	377
17	369	11	358	381
18	373	11	362	385
19	377	11	366	388
20	381	11	370	392
21	385	11	374	396
22	389	11	378	400
23	393	11	382	404
24	397	11	386	408
25	401	12	389	413
26	405	12	394	417
27	409	12	398	421
28	414	12	402	426
29	418	12	406	431
30	423	13	411	436
31	428	13	415	441
32	433	13	420	446
33	439	14	425	453
34	445	14	431	459
35	451	15	437	466
36	459	16	443	474
37	467	17	450	483
38	476	18	458	493
39	486	19	467	505
40	498	21	478	519
41	512	22	490	535
42	529	25	505	554
43	550	28	522	579
44	581	37	545	618
45	608	49	559	650 <sup>b</sup>

Note. <sup>a</sup>LOSS was set to 240. <sup>b</sup>HOSS was set to 650.

**Table 4.18 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 3 Form B**

Raw Score	Form B			
	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	47	240 <sup>a</sup>	262
1	240 <sup>a</sup>	34	240 <sup>a</sup>	272
2	263	24	240 <sup>a</sup>	288
3	279	21	258	299
4	290	18	272	308
5	300	17	283	316
6	308	16	292	323
7	315	15	300	330
8	321	14	307	335
9	327	14	314	341
10	333	13	320	346
11	338	13	325	351
12	343	12	330	355
13	348	12	335	360
14	352	12	340	364
15	356	12	345	368
16	361	12	349	372
17	365	12	353	376
18	369	11	358	380
19	373	11	362	384
20	377	11	366	388
21	381	11	370	392
22	385	11	374	396
23	389	11	377	400
24	393	11	381	404
25	397	11	385	408
26	401	11	389	412
27	405	11	393	416
28	409	12	397	420
29	413	12	401	425
30	417	12	405	429
31	422	12	409	434
32	426	12	414	439
33	431	13	418	444
34	436	13	423	449
35	442	13	428	455
36	447	14	433	461
37	454	15	439	468
38	460	15	445	476
39	468	16	452	484
40	477	18	459	494
41	487	19	468	506
42	500	22	478	521
43	517	25	491	542
44	543	34	509	577
45	568	47	520	615

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.19 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 5 Form A**

Raw Score	Form A			
	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	47	240 <sup>a</sup>	268
1	245	34	240 <sup>a</sup>	278
2	269	24	245	293
3	284	20	263	304
4	294	18	277	312
5	303	16	287	319
6	310	15	295	326
7	317	14	303	331
8	323	14	309	336
9	328	13	315	341
10	333	13	320	345
11	338	12	325	350
12	342	12	330	354
13	346	12	335	358
14	350	11	339	362
15	354	11	343	365
16	358	11	347	369
17	361	11	350	372
18	365	11	354	376
19	369	11	358	379
20	372	11	361	383
21	376	11	365	386
22	379	11	368	390
23	383	11	372	394
24	386	11	375	397
25	390	11	379	401
26	393	11	382	404
27	397	11	386	408
28	401	11	390	412
29	405	11	393	416
30	409	12	397	420
31	413	12	401	425
32	417	12	405	430
33	422	12	409	434
34	427	13	414	440
35	432	13	419	445
36	438	14	424	452
37	444	15	429	458
38	451	15	435	466
39	458	16	442	475
40	467	18	449	485
41	477	20	458	497
42	490	22	468	513
43	508	26	482	534
44	535	35	500	571
45	561	49	512	610

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.20 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 5 Form B**

Raw Score	Form B			
	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	47	240 <sup>a</sup>	263
1	240	34	240 <sup>a</sup>	274
2	264	24	240	289
3	279	20	259	299
4	290	18	272	308
5	299	16	283	316
6	307	15	291	322
7	313	14	299	328
8	319	14	306	333
9	325	13	312	338
10	330	13	317	343
11	335	12	322	347
12	340	12	327	352
13	344	12	332	356
14	348	12	336	360
15	352	12	341	364
16	356	11	345	368
17	360	11	349	372
18	364	11	353	375
19	368	11	357	379
20	372	11	361	383
21	376	11	364	387
22	379	11	368	391
23	383	11	372	394
24	387	11	376	398
25	391	11	380	402
26	395	11	383	406
27	399	12	387	411
28	403	12	391	415
29	407	12	395	419
30	412	12	400	424
31	416	12	404	429
32	421	13	408	434
33	426	13	413	440
34	432	14	418	446
35	438	14	424	452
36	444	15	429	459
37	451	16	436	467
38	459	17	442	475
39	468	18	450	485
40	478	19	459	497
41	490	21	469	511
42	505	23	481	528
43	524	27	497	551
44	553	36	517	589
45	579	49	530	627

Note. <sup>a</sup>LOSS was set to 240.



**Table 4.21 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 8 Form A**

Raw Score	Form A			
	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	44	240 <sup>a</sup>	256
1	240 <sup>a</sup>	32	240 <sup>a</sup>	267
2	259	24	240 <sup>a</sup>	283
3	274	20	254	294
4	286	18	268	304
5	296	16	279	312
6	304	15	289	319
7	311	14	297	325
8	317	14	304	331
9	323	13	310	336
10	328	12	316	341
11	333	12	321	345
12	338	12	326	350
13	342	11	331	354
14	347	11	335	358
15	351	11	340	361
16	354	11	344	365
17	358	11	348	369
18	362	10	351	372
19	365	10	355	376
20	369	10	359	379
21	372	10	362	383
22	376	10	366	386
23	379	10	369	390
24	383	10	373	393
25	386	10	376	397
26	390	10	380	401
27	394	11	383	404
28	397	11	387	408
29	401	11	390	412
30	405	11	394	416
31	409	11	398	421
32	414	12	402	425
33	418	12	406	430
34	423	12	411	436
35	428	13	415	441
36	434	14	421	448
37	441	14	426	455
38	448	15	433	463
39	456	16	440	473
40	466	18	448	484
41	477	20	458	497
42	492	22	470	514
43	510	26	484	536
44	537	33	504	571
45	562	45	517	607

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.22 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 8 Form B**

Form B				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	44	240 <sup>a</sup>	259
1	240 <sup>a</sup>	32	240 <sup>a</sup>	269
2	262	24	240 <sup>a</sup>	285
3	277	20	257	297
4	289	18	271	306
5	298	16	282	314
6	306	15	291	321
7	313	14	299	327
8	319	13	306	333
9	325	13	312	338
10	330	12	318	342
11	335	12	323	347
12	340	12	328	351
13	344	11	333	355
14	348	11	337	359
15	352	11	341	363
16	356	11	345	367
17	360	11	349	370
18	363	10	353	374
19	367	10	356	377
20	370	10	360	381
21	374	10	364	384
22	377	10	367	388
23	381	10	370	391
24	384	10	374	395
25	388	10	377	398
26	391	10	381	402
27	395	11	384	405
28	399	11	388	409
29	402	11	392	413
30	406	11	395	417
31	410	11	399	422
32	415	12	403	426
33	419	12	407	431
34	424	12	412	436
35	429	13	416	442
36	435	13	421	448
37	441	14	427	455
38	448	15	433	463
39	456	16	440	472
40	465	17	448	482
41	475	19	457	494
42	488	21	467	509
43	505	24	481	530
44	531	33	498	563
45	554	45	510	599

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.23 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 4 Form 1**

Raw Score	Form 1			
	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	49	240 <sup>a</sup>	240 <sup>a</sup>
1	240 <sup>a</sup>	36	240 <sup>a</sup>	250
2	241	26	240 <sup>a</sup>	267
3	259	22	240 <sup>a</sup>	281
4	271	19	252	290
5	281	17	264	298
6	290	16	274	306
7	297	15	282	312
8	304	14	290	318
9	310	14	296	324
10	316	13	303	329
11	321	13	308	334
12	326	13	313	339
13	331	12	319	343
14	336	12	324	348
15	340	12	328	352
16	345	12	333	357
17	349	12	337	361
18	353	12	341	365
19	357	12	345	369
20	362	12	350	374
21	366	12	354	378
22	370	12	358	382
23	374	12	362	386
24	378	12	366	390
25	382	12	370	394
26	387	12	375	399
27	391	12	379	403
28	396	12	384	408
29	401	13	388	414
30	406	13	393	419
31	411	13	398	424
32	416	14	402	430
33	422	14	408	436
34	428	15	413	443
35	435	15	420	450
36	443	16	427	459
37	451	17	434	468
38	461	19	442	480
39	472	20	452	492
40	486	22	464	508
41	502	24	478	526
42	522	26	496	548
43	545	29	516	574
44	577	37	540	614
45	604	49	555	650 <sup>b</sup>

Note. <sup>a</sup>LOSS was set to 240. <sup>b</sup>HOSS was set to 650.

**Table 4.24 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 4 Form 2**

<u>Form 2</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	49	240 <sup>a</sup>	240 <sup>a</sup>
1	240 <sup>a</sup>	36	240 <sup>a</sup>	248
2	241	26	240 <sup>a</sup>	267
3	259	22	240 <sup>a</sup>	281
4	271	19	252	290
5	282	18	264	300
6	290	16	274	306
7	298	15	283	313
8	305	15	290	320
9	311	14	297	325
10	317	13	304	330
11	322	13	309	335
12	327	13	314	340
13	332	13	319	345
14	337	12	325	349
15	341	12	329	353
16	346	12	334	358
17	350	12	338	362
18	355	12	343	367
19	359	12	347	371
20	363	12	351	375
21	367	12	355	379
22	372	12	360	384
23	376	12	364	388
24	380	12	368	392
25	385	12	373	397
26	390	12	378	402
27	394	13	381	407
28	399	13	386	412
29	404	13	391	417
30	410	13	397	423
31	416	14	402	430
32	422	14	408	436
33	428	15	413	443
34	435	16	419	451
35	443	16	427	459
36	451	17	434	468
37	461	18	443	479
38	471	19	452	490
39	483	20	463	503
40	496	22	474	518
41	512	23	489	535
42	529	25	504	554
43	551	28	523	579
44	581	36	545	617
45	607	49	558	650 <sup>b</sup>

Note. <sup>a</sup>LOSS was set to 240. <sup>b</sup>HOSS was set to 650.

**Table 4.25 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 4 Form 3**

<u>Form 3</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	49	240 <sup>a</sup>	240 <sup>a</sup>
1	240 <sup>a</sup>	36	240 <sup>a</sup>	243
2	240 <sup>a</sup>	26	240 <sup>a</sup>	261
3	252	22	240 <sup>a</sup>	274
4	265	19	246	284
5	275	17	258	292
6	283	16	267	299
7	291	15	276	306
8	298	15	283	313
9	304	14	290	318
10	310	14	296	324
11	315	13	302	328
12	320	13	307	333
13	325	13	312	338
14	330	12	318	342
15	335	12	323	347
16	339	12	327	351
17	344	12	332	356
18	348	12	336	360
19	353	12	341	365
20	357	12	345	369
21	361	12	349	373
22	366	12	354	378
23	370	12	358	382
24	375	12	363	387
25	379	12	367	391
26	384	12	372	396
27	388	13	375	401
28	393	13	380	406
29	398	13	385	411
30	403	13	390	416
31	409	14	395	423
32	415	14	401	429
33	421	14	407	435
34	427	15	412	442
35	435	16	419	451
36	442	16	426	458
37	451	17	434	468
38	461	18	443	479
39	472	20	452	492
40	484	21	463	505
41	499	23	476	522
42	517	25	492	542
43	539	29	510	568
44	571	37	534	608
45	599	50	549	649

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.26 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 4 Form 4**

Form 4				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	49	240 <sup>a</sup>	240 <sup>a</sup>
1	240 <sup>a</sup>	35	240 <sup>a</sup>	243
2	240 <sup>a</sup>	26	240 <sup>a</sup>	262
3	253	22	240 <sup>a</sup>	275
4	265	19	246	284
5	276	17	259	293
6	284	16	268	300
7	292	15	277	307
8	298	15	283	313
9	305	14	291	319
10	310	13	297	323
11	316	13	303	329
12	321	13	308	334
13	326	13	313	339
14	330	12	318	342
15	335	12	323	347
16	339	12	327	351
17	344	12	332	356
18	348	12	336	360
19	352	12	340	364
20	356	12	344	368
21	360	12	348	372
22	364	12	352	376
23	369	12	357	381
24	373	12	361	385
25	377	12	365	389
26	381	12	369	393
27	386	12	374	398
28	390	12	378	402
29	395	12	383	407
30	399	13	386	412
31	404	13	391	417
32	410	13	397	423
33	415	14	401	429
34	421	14	407	435
35	427	15	412	442
36	434	15	419	449
37	441	16	425	457
38	449	17	432	466
39	458	18	440	476
40	469	19	450	488
41	481	21	460	502
42	496	23	473	519
43	515	27	488	542
44	543	35	508	578
45	569	48	521	617

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.27 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 4 Form 5**

<u>Form 5</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	49	240 <sup>a</sup>	240 <sup>a</sup>
1	240 <sup>a</sup>	36	240 <sup>a</sup>	247
2	240	26	240 <sup>a</sup>	266
3	257	22	240 <sup>a</sup>	279
4	270	19	251	289
5	280	17	263	297
6	289	16	273	305
7	296	15	281	311
8	303	14	289	317
9	309	14	295	323
10	315	13	302	328
11	320	13	307	333
12	325	13	312	338
13	330	12	318	342
14	335	12	323	347
15	339	12	327	351
16	344	12	332	356
17	348	12	336	360
18	352	12	340	364
19	356	12	344	368
20	360	12	348	372
21	364	12	352	376
22	369	12	357	381
23	373	12	361	385
24	377	12	365	389
25	381	12	369	393
26	386	12	374	398
27	390	12	378	402
28	395	12	383	407
29	399	13	386	412
30	404	13	391	417
31	410	13	397	423
32	415	14	401	429
33	421	14	407	435
34	427	15	412	442
35	434	15	419	449
36	442	16	426	458
37	450	17	433	467
38	459	18	441	477
39	470	19	451	489
40	482	21	461	503
41	497	23	474	520
42	514	25	489	539
43	536	28	508	564
44	567	36	531	603
45	593	49	544	642

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.28 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 4 Form 6**

<u>Form 6</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	48	240 <sup>a</sup>	240 <sup>a</sup>
1	240 <sup>a</sup>	35	240 <sup>a</sup>	244
2	240 <sup>a</sup>	26	240 <sup>a</sup>	263
3	253	22	240 <sup>a</sup>	275
4	266	19	247	285
5	276	17	259	293
6	284	16	268	300
7	292	15	277	307
8	298	14	284	312
9	304	14	290	318
10	310	13	297	323
11	315	13	302	328
12	320	13	307	333
13	325	13	312	338
14	330	12	318	342
15	334	12	322	346
16	339	12	327	351
17	343	12	331	355
18	348	12	336	360
19	352	12	340	364
20	356	12	344	368
21	361	12	349	373
22	365	12	353	377
23	370	12	358	382
24	374	12	362	386
25	379	12	367	391
26	384	13	371	397
27	389	13	376	402
28	394	13	381	407
29	399	13	386	412
30	405	14	391	419
31	411	14	397	425
32	417	14	403	431
33	423	15	408	438
34	430	16	414	446
35	438	16	422	454
36	446	17	429	463
37	456	18	438	474
38	466	19	447	485
39	479	21	458	500
40	493	23	470	516
41	510	25	485	535
42	531	27	504	558
43	555	30	525	585
44	590	38	552	628
45	618	50	568	650 <sup>b</sup>

Note. <sup>a</sup>LOSS was set to 240. <sup>b</sup>HOSS was set to 650.



**Table 4.29 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 6 Form 1**

Raw Score	Scale Score (SS)	Form 1		
		Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	44	240 <sup>a</sup>	268
1	246	31	240 <sup>a</sup>	277
2	268	22	246	290
3	282	19	263	301
4	292	17	275	309
5	300	15	285	315
6	307	14	293	321
7	313	13	300	326
8	318	13	305	331
9	323	12	311	335
10	328	12	316	340
11	333	11	322	344
12	337	11	326	348
13	341	11	330	352
14	345	11	334	356
15	349	11	338	360
16	352	11	341	363
17	356	11	345	367
18	360	10	350	370
19	363	10	353	373
20	367	10	357	377
21	370	10	360	380
22	374	10	364	384
23	377	10	367	387
24	381	11	370	392
25	385	11	374	396
26	389	11	378	400
27	392	11	381	403
28	396	11	385	407
29	401	11	390	412
30	405	12	393	417
31	409	12	397	421
32	414	12	402	426
33	419	13	406	432
34	425	13	412	438
35	431	14	417	445
36	438	15	423	453
37	445	16	429	461
38	454	17	437	471
39	465	19	446	484
40	478	21	457	499
41	494	23	471	517
42	513	25	488	538
43	535	27	508	562
44	565	34	531	599
45	590	46	544	636

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.30 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 6 Form 2**

<u>Form 2</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	44	240 <sup>a</sup>	276
1	253	31	240 <sup>a</sup>	284
2	276	23	253	299
3	290	19	271	309
4	300	17	283	317
5	309	15	294	324
6	316	14	302	330
7	322	13	309	335
8	328	13	315	341
9	333	12	321	345
10	338	12	326	350
11	342	12	330	354
12	347	11	336	358
13	351	11	340	362
14	355	11	344	366
15	359	11	348	370
16	363	11	352	374
17	366	11	355	377
18	370	11	359	381
19	374	11	363	385
20	377	11	366	388
21	381	11	370	392
22	385	11	374	396
23	388	11	377	399
24	392	11	381	403
25	396	11	385	407
26	400	11	389	411
27	404	11	393	415
28	408	11	397	419
29	412	11	401	423
30	416	12	404	428
31	421	12	409	433
32	426	12	414	438
33	431	13	418	444
34	436	13	423	449
35	442	14	428	456
36	449	15	434	464
37	456	15	441	471
38	465	16	449	481
39	474	17	457	491
40	485	19	466	504
41	497	20	477	517
42	512	22	490	534
43	531	26	505	557
44	558	33	525	591
45	582	45	537	627

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.31 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 6 Form 3**

<u>Form 3</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	44	240 <sup>a</sup>	262
1	241	32	240 <sup>a</sup>	273
2	264	23	241	287
3	278	19	259	297
4	289	17	272	306
5	298	15	283	313
6	305	14	291	319
7	311	14	297	325
8	317	13	304	330
9	322	12	310	334
10	327	12	315	339
11	332	12	320	344
12	336	11	325	347
13	340	11	329	351
14	344	11	333	355
15	348	11	337	359
16	352	11	341	363
17	355	10	345	365
18	359	10	349	369
19	362	10	352	372
20	366	10	356	376
21	369	10	359	379
22	373	10	363	383
23	377	10	367	387
24	380	10	370	390
25	384	11	373	395
26	387	11	376	398
27	391	11	380	402
28	395	11	384	406
29	399	11	388	410
30	403	11	392	414
31	408	12	396	420
32	412	12	400	424
33	417	12	405	429
34	422	13	409	435
35	428	13	415	441
36	434	14	420	448
37	440	14	426	454
38	447	15	432	462
39	456	16	440	472
40	465	17	448	482
41	475	19	456	494
42	488	21	467	509
43	505	24	481	529
44	530	32	498	562
45	553	44	509	597

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.32 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 6 Form 4**

Form 4				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	44	240 <sup>a</sup>	268
1	246	31	240 <sup>a</sup>	277
2	269	22	247	291
3	282	19	263	301
4	292	17	275	309
5	300	15	285	315
6	307	14	293	321
7	313	13	300	326
8	319	13	306	332
9	324	12	312	336
10	329	12	317	341
11	333	11	322	344
12	337	11	326	348
13	341	11	330	352
14	345	11	334	356
15	349	11	338	360
16	353	11	342	364
17	356	10	346	366
18	360	10	350	370
19	363	10	353	373
20	367	10	357	377
21	370	10	360	380
22	374	10	364	384
23	378	10	368	388
24	381	11	370	392
25	385	11	374	396
26	389	11	378	400
27	392	11	381	403
28	396	11	385	407
29	400	11	389	411
30	405	11	394	416
31	409	12	397	421
32	414	12	402	426
33	419	12	407	431
34	424	13	411	437
35	430	13	417	443
36	436	14	422	450
37	443	15	428	458
38	450	16	434	466
39	459	17	442	476
40	469	18	451	487
41	481	20	461	501
42	496	22	474	518
43	514	25	489	539
44	541	33	508	574
45	565	45	520	610

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.33 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 6 Form 5**

<u>Form 5</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	44	240 <sup>a</sup>	269
1	247	31	240 <sup>a</sup>	278
2	269	22	247	291
3	283	19	264	302
4	293	17	276	310
5	301	15	286	316
6	308	14	294	322
7	314	13	301	327
8	320	13	307	333
9	325	12	313	337
10	329	12	317	341
11	334	12	322	346
12	338	11	327	349
13	342	11	331	353
14	346	11	335	357
15	350	11	339	361
16	354	11	343	365
17	357	11	346	368
18	361	11	350	372
19	365	10	355	375
20	368	10	358	378
21	372	10	362	382
22	376	11	365	387
23	379	11	368	390
24	383	11	372	394
25	387	11	376	398
26	391	11	380	402
27	394	11	383	405
28	399	11	388	410
29	403	11	392	414
30	407	12	395	419
31	412	12	400	424
32	417	12	405	429
33	422	13	409	435
34	428	13	415	441
35	434	14	420	448
36	440	15	425	455
37	448	16	432	464
38	456	17	439	473
39	466	18	448	484
40	477	19	458	496
41	490	21	469	511
42	506	23	483	529
43	525	26	499	551
44	553	33	520	586
45	577	45	532	622

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.34 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 6 Form 6**

<u>Form 6</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	44	240 <sup>a</sup>	262
1	240	31	240 <sup>a</sup>	271
2	263	23	240	286
3	277	19	258	296
4	287	17	270	304
5	296	15	281	311
6	303	14	289	317
7	309	14	295	323
8	315	13	302	328
9	320	13	307	333
10	325	12	313	337
11	330	12	318	342
12	335	12	323	347
13	339	11	328	350
14	343	11	332	354
15	347	11	336	358
16	351	11	340	362
17	355	11	344	366
18	358	11	347	369
19	362	11	351	373
20	366	11	355	377
21	369	11	358	380
22	373	11	362	384
23	377	11	366	388
24	380	11	369	391
25	384	11	373	395
26	388	11	377	399
27	392	11	381	403
28	396	11	385	407
29	400	11	389	411
30	404	11	393	415
31	408	12	396	420
32	413	12	401	425
33	418	12	406	430
34	423	13	410	436
35	428	13	415	441
36	434	14	420	448
37	441	14	427	455
38	448	15	433	463
39	456	16	440	472
40	465	18	447	483
41	477	19	458	496
42	490	22	468	512
43	509	26	483	535
44	536	34	502	570
45	561	46	515	607

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.35 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 7 Form 1**

Raw Score	Form 1			
	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	46	240 <sup>a</sup>	267
1	244	33	240 <sup>a</sup>	277
2	267	24	243	291
3	282	20	262	302
4	293	17	276	310
5	301	16	285	317
6	309	15	294	324
7	315	14	301	329
8	321	13	308	334
9	326	13	313	339
10	331	13	318	344
11	336	12	324	348
12	341	12	329	353
13	345	12	333	357
14	349	12	337	361
15	354	11	343	365
16	358	11	347	369
17	362	11	351	373
18	365	11	354	376
19	369	11	358	380
20	373	11	362	384
21	377	11	366	388
22	381	11	370	392
23	385	11	374	396
24	389	11	378	400
25	393	11	382	404
26	397	11	386	408
27	401	12	389	413
28	405	12	393	417
29	410	12	398	422
30	414	12	402	426
31	419	13	406	432
32	424	13	411	437
33	430	13	417	443
34	435	14	421	449
35	442	14	428	456
36	448	15	433	463
37	456	16	440	472
38	465	17	448	482
39	474	18	456	492
40	486	20	466	506
41	499	22	477	521
42	516	24	492	540
43	536	27	509	563
44	566	35	531	601
45	592	48	544	640

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.36 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 7 Form 2**

<u>Form 2</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	46	240 <sup>a</sup>	263
1	240	33	240 <sup>a</sup>	273
2	264	24	240	288
3	278	20	258	298
4	289	18	271	307
5	298	16	282	314
6	305	15	290	320
7	312	14	298	326
8	318	14	304	332
9	324	13	311	337
10	329	13	316	342
11	334	12	322	346
12	338	12	326	350
13	343	12	331	355
14	347	12	335	359
15	351	11	340	362
16	355	11	344	366
17	359	11	348	370
18	363	11	352	374
19	367	11	356	378
20	371	11	360	382
21	375	11	364	386
22	379	11	368	390
23	382	11	371	393
24	386	11	375	397
25	390	11	379	401
26	394	11	383	405
27	398	12	386	410
28	403	12	391	415
29	407	12	395	419
30	412	12	400	424
31	416	13	403	429
32	422	13	409	435
33	427	13	414	440
34	433	14	419	447
35	439	15	424	454
36	446	15	431	461
37	454	16	438	470
38	463	17	446	480
39	473	19	454	492
40	485	20	465	505
41	499	22	477	521
42	516	24	492	540
43	537	28	509	565
44	567	36	531	603
45	593	48	545	641

Note. <sup>a</sup>LOSS was set to 240.



**Table 4.37 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 7 Form 3**

<u>Form 3</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	46	240 <sup>a</sup>	263
1	240	33	240 <sup>a</sup>	273
2	263	24	240 <sup>a</sup>	287
3	278	20	258	298
4	289	18	271	307
5	298	16	282	314
6	305	15	290	320
7	312	14	298	326
8	318	13	305	331
9	323	13	310	336
10	328	13	315	341
11	333	12	321	345
12	338	12	326	350
13	342	12	330	354
14	346	12	334	358
15	350	11	339	361
16	354	11	343	365
17	358	11	347	369
18	362	11	351	373
19	366	11	355	377
20	370	11	359	381
21	373	11	362	384
22	377	11	366	388
23	381	11	370	392
24	385	11	374	396
25	389	11	378	400
26	393	11	382	404
27	397	11	386	408
28	401	12	389	413
29	405	12	393	417
30	410	12	398	422
31	415	12	403	427
32	420	13	407	433
33	425	13	412	438
34	431	14	417	445
35	437	15	422	452
36	444	15	429	459
37	452	16	436	468
38	461	18	443	479
39	472	20	452	492
40	485	22	463	507
41	501	24	477	525
42	521	26	495	547
43	545	29	516	574
44	578	37	541	615
45	605	49	556	650 <sup>b</sup>

Note. <sup>a</sup>LOSS was set to 240. <sup>b</sup>HOSS was set to 650.

**Table 4.38 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 7 Form 4**

<u>Form 4</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	48	240 <sup>a</sup>	248
1	240 <sup>a</sup>	36	240 <sup>a</sup>	262
2	255	26	240 <sup>a</sup>	281
3	272	22	250	294
4	285	19	266	304
5	295	17	278	312
6	303	16	287	319
7	311	15	296	326
8	317	14	303	331
9	323	13	310	336
10	328	13	315	341
11	333	13	320	346
12	338	12	326	350
13	343	12	331	355
14	347	12	335	359
15	351	12	339	363
16	355	11	344	366
17	359	11	348	370
18	363	11	352	374
19	367	11	356	378
20	371	11	360	382
21	375	11	364	386
22	379	11	368	390
23	382	11	371	393
24	386	11	375	397
25	390	11	379	401
26	394	11	383	405
27	398	11	387	409
28	402	12	390	414
29	407	12	395	419
30	411	12	399	423
31	416	12	404	428
32	421	13	408	434
33	426	13	413	439
34	432	14	418	446
35	438	14	424	452
36	444	15	429	459
37	452	16	436	468
38	461	17	444	478
39	471	19	452	490
40	483	21	462	504
41	498	23	475	521
42	516	25	491	541
43	538	29	509	567
44	570	36	534	606
45	597	48	549	645

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.39 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 7 Form 5**

<u>Form 5</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	46	240 <sup>a</sup>	263
1	240	33	240 <sup>a</sup>	273
2	264	24	240 <sup>a</sup>	288
3	278	20	258	298
4	289	17	272	306
5	298	16	282	314
6	305	15	290	320
7	312	14	298	326
8	318	13	305	331
9	323	13	310	336
10	328	13	315	341
11	333	12	321	345
12	337	12	325	349
13	342	12	330	354
14	346	11	335	357
15	350	11	339	361
16	354	11	343	365
17	358	11	347	369
18	362	11	351	373
19	366	11	355	377
20	369	11	358	380
21	373	11	362	384
22	377	11	366	388
23	380	11	369	391
24	384	11	373	395
25	388	11	377	399
26	392	11	381	403
27	396	11	385	407
28	400	11	389	411
29	404	12	392	416
30	408	12	396	420
31	412	12	400	424
32	417	12	405	429
33	422	13	409	435
34	427	13	414	440
35	433	14	419	447
36	440	15	425	455
37	447	16	431	463
38	455	17	438	472
39	465	18	447	483
40	476	20	456	496
41	490	23	467	513
42	508	25	483	533
43	531	29	502	560
44	564	37	527	601
45	591	49	542	640

Note. <sup>a</sup>LOSS was set to 240.

**Table 4.40 The 2004 MSA-Reading Raw Score to Scale Score Conversion Table: Grade 7 Form 6**

<u>Form 6</u>				
Raw Score	Scale Score (SS)	Standard Error (SEM)	SS - 1SEM	SS + 1SEM
0	240 <sup>a</sup>	46	240 <sup>a</sup>	262
1	240 <sup>a</sup>	33	240 <sup>a</sup>	272
2	263	24	240 <sup>a</sup>	287
3	278	20	258	298
4	289	18	271	307
5	297	16	281	313
6	305	15	290	320
7	312	14	298	326
8	318	14	304	332
9	323	13	310	336
10	328	13	315	341
11	333	12	321	345
12	338	12	326	350
13	342	12	330	354
14	347	12	335	359
15	351	11	340	362
16	355	11	344	366
17	359	11	348	370
18	363	11	352	374
19	367	11	356	378
20	371	11	360	382
21	374	11	363	385
22	378	11	367	389
23	382	11	371	393
24	386	11	375	397
25	390	11	379	401
26	394	11	383	405
27	398	12	386	410
28	402	12	390	414
29	407	12	395	419
30	411	12	399	423
31	416	12	404	428
32	421	13	408	434
33	426	13	413	439
34	431	13	418	444
35	437	14	423	451
36	444	15	429	459
37	451	15	436	466
38	459	16	443	475
39	467	17	450	484
40	478	19	459	497
41	490	21	469	511
42	505	23	482	528
43	525	28	497	553
44	556	36	520	592
45	582	48	534	630

Note. <sup>a</sup>LOSS was set to 240.

**Table 4. 41 The 2004 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 3**

Form	Item	Perfect		Adjacent		Discrepancy		Total	
		N	%	N	%	N	%	N	%
A	1	24016	80.7	5641	19.0	99	0.3	29756	100.0
	2	24700	84.0	4531	15.4	166	0.6	29397	100.0
	3	22616	76.3	6593	22.2	438	1.5	29647	100.0
	4	21345	72.6	7490	25.5	566	1.9	29401	100.0
B	1	22929	77.1	6468	21.7	342	1.2	29739	100.0
	2	21388	72.8	7700	26.2	299	1.0	29387	100.0
	3	20567	69.3	8766	29.5	355	1.2	29688	100.0
	4	18386	62.9	10072	34.5	774	2.6	29232	100.0

**Table 4. 42 The 2004 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 5**

Form	Item	Perfect		Adjacent		Discrepancy		Total	
		N	%	N	%	N	%	N	%
A	1	21137	64.8	10952	33.6	505	1.5	32594	100.0
	2	21379	66.1	10267	31.8	676	2.1	32322	100.0
	3	20715	63.5	11399	35.0	491	1.5	32605	100.0
	4	20561	63.7	11034	34.2	705	2.2	32300	100.0
B	1	23322	71.4	9045	27.7	293	0.9	32660	100.0
	2	19298	59.2	12466	38.2	847	2.6	32611	100.0
	3	26462	81.4	5933	18.3	113	0.3	32508	100.0
	4	23797	73.4	8329	25.7	299	0.9	32425	100.0

**Table 4. 43 The 2004 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 8**

Form	Item	Perfect		Adjacent		Discrepancy		Total	
		N	%	N	%	N	%	N	%
A	1	20799	62.0	12383	36.9	346	1.0	33528	100.0
	2	23170	68.9	10141	30.2	312	0.9	33623	100.0
	3	21233	63.1	11921	35.4	486	1.4	33640	100.0
	4	22052	65.8	10846	32.3	639	1.9	33537	100.0
B	1	21777	65.9	10466	31.7	800	2.4	33043	100.0
	2	21101	63.2	11854	35.5	407	1.2	33362	100.0
	3	22062	66.0	11030	33.0	313	0.9	33405	100.0
	4	19278	58.7	12903	39.3	676	2.1	32857	100.0

**Table 4. 44 The 2004 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 4**

Form	Item	Perfect		Adjacent		Discrepancy		Total	
		N	%	N	%	N	%	N	%
1	1	7365	74.8	2394	24.3	82	0.8	9841	100.0
	2	7454	78.2	2040	21.4	38	0.4	9532	100.0
	3	6837	72.2	2516	26.6	122	1.3	9475	100.0
	4	6453	66.3	3086	31.7	197	2.0	9736	100.0
	5	7244	74.1	2437	24.9	99	1.0	9780	100.0
	6	7438	78.5	1939	20.5	102	1.1	9479	100.0
2	1	7113	71.3	2778	27.8	84	0.8	9975	100.0
	2	6943	69.7	2965	29.7	60	0.6	9968	100.0
	3	6462	66.2	3183	32.6	123	1.3	9768	100.0
	4	6383	64.5	3317	33.5	195	2.0	9895	100.0
	5	6734	67.4	3131	31.3	131	1.3	9996	100.0
	6	6529	66.5	3116	31.8	166	1.7	9811	100.0
3	1	6248	61.5	3712	36.5	204	2.0	10164	100.0
	2	5935	58.7	3949	39.0	229	2.3	10113	100.0
	3	7001	69.8	2907	29.0	125	1.2	10033	100.0
	4	8244	82.2	1757	17.5	29	0.3	10030	100.0
	5	7515	74.3	2557	25.3	38	0.4	10110	100.0
	6	7191	72.1	2671	26.8	112	1.1	9974	100.0
4	1	6621	64.3	3322	32.3	347	3.4	10290	100.0
	2	6310	62.8	3483	34.6	261	2.6	10054	100.0
	3	6056	59.8	3813	37.6	262	2.6	10131	100.0
	4	7180	69.3	3091	29.8	91	0.9	10362	100.0
	5	6728	65.5	3241	31.6	303	2.9	10272	100.0
	6	7140	70.0	2871	28.1	191	1.9	10202	100.0
5	1	7142	68.9	3127	30.2	95	0.9	10364	100.0
	2	6645	64.3	3501	33.9	184	1.8	10330	100.0
	3	6635	65.4	3317	32.7	199	2.0	10151	100.0
	4	6307	60.8	3684	35.5	384	3.7	10375	100.0
	5	6546	64.0	3451	33.7	233	2.3	10230	100.0
	6	5721	56.2	4078	40.1	378	3.7	10177	100.0
6	1	7784	76.2	2397	23.5	28	0.3	10209	100.0
	2	7852	78.6	2128	21.3	14	0.1	9994	100.0
	3	8044	79.5	2038	20.1	40	0.4	10122	100.0
	4	7884	77.6	2232	22.0	49	0.5	10165	100.0
	5	6432	63.3	3548	34.9	175	1.7	10155	100.0
	6	6446	64.3	3413	34.1	160	1.6	10019	100.0

**Table 4.45 The 2004 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 6**

Form	Item	Perfect		Adjacent		Discrepancy		Total	
		N	%	N	%	N	%	N	%
1	1	9262	83.2	1828	16.4	40	0.4	11130	100.0
	2	8694	80.3	2032	18.8	102	0.9	10828	100.0
	3	7419	68.2	3187	29.3	267	2.5	10873	100.0
	4	7264	65.7	3673	33.2	126	1.1	11063	100.0
	5	8078	73.4	2821	25.6	112	1.0	11011	100.0
	6	6687	61.9	3943	36.5	167	1.5	10797	100.0
2	1	6994	62.5	3899	34.8	298	2.7	11191	100.0
	2	6870	61.8	3905	35.1	340	3.1	11115	100.0
	3	7501	70.5	2837	26.6	309	2.9	10647	100.0
	4	7785	70.4	3081	27.9	193	1.7	11059	100.0
	5	9099	83.6	1642	15.1	144	1.3	10885	100.0
	6	7767	71.4	2879	26.5	233	2.1	10879	100.0
3	1	6989	62.6	3889	34.9	280	2.5	11158	100.0
	2	6431	58.0	4339	39.1	320	2.9	11090	100.0
	3	6514	59.9	4088	37.6	273	2.5	10875	100.0
	4	7034	64.9	3590	33.1	213	2.0	10837	100.0
	5	8248	76.5	2160	20.0	375	3.5	10783	100.0
	6	7787	72.6	2708	25.2	236	2.2	10731	100.0
4	1	7567	69.4	3263	29.9	76	0.7	10906	100.0
	2	7039	63.7	3851	34.9	153	1.4	11043	100.0
	3	5858	56.5	4160	40.1	344	3.3	10362	100.0
	4	5936	54.2	4519	41.2	504	4.6	10959	100.0
	5	6505	59.1	4256	38.7	249	2.3	11010	100.0
	6	5975	56.4	4273	40.3	349	3.3	10597	100.0
5	1	7756	69.9	3226	29.1	110	1.0	11092	100.0
	2	6726	62.3	3857	35.7	208	1.9	10791	100.0
	3	7876	73.4	2617	24.4	239	2.2	10732	100.0
	4	6459	59.5	4113	37.9	290	2.7	10862	100.0
	5	6528	59.9	4122	37.8	241	2.2	10891	100.0
	6	7020	64.9	3667	33.9	134	1.2	10821	100.0
6	1	7630	69.3	3248	29.5	130	1.2	11008	100.0
	2	7569	68.2	3433	30.9	91	0.8	11093	100.0
	3	7500	68.4	3346	30.5	118	1.1	10964	100.0
	4	8718	79.0	2303	20.9	15	0.1	11036	100.0
	5	8799	79.9	2159	19.6	61	0.6	11019	100.0
	6	7433	68.4	3292	30.3	146	1.3	10871	100.0

**Table 4.46 The 2004 MSA-Reading Score Difference between Rater 1 and Rater 2: Grade 7**

Form	Item	Perfect		Adjacent		Discrepancy		Total	
		N	%	N	%	N	%	N	%
1	1	8685	79.4	2073	19.0	180	1.6	10938	100.0
	2	7506	66.9	3457	30.8	252	2.2	11215	100.0
	3	7151	65.1	3595	32.7	244	2.2	10990	100.0
	4	9320	82.2	1990	17.6	29	0.3	11339	100.0
	5	8193	73.4	2925	26.2	39	0.3	11157	100.0
	6	7471	68.0	3428	31.2	88	0.8	10987	100.0
2	1	6867	61.2	4103	36.6	246	2.2	11216	100.0
	2	7366	65.9	3651	32.7	158	1.4	11175	100.0
	3	6516	59.3	4162	37.9	307	2.8	10985	100.0
	4	8809	79.0	2287	20.5	48	0.4	11144	100.0
	5	7541	67.2	3516	31.3	161	1.4	11218	100.0
	6	8094	72.6	2953	26.5	97	0.9	11144	100.0
3	1	8931	78.7	2398	21.1	24	0.2	11353	100.0
	2	7009	63.0	3889	35.0	229	2.1	11127	100.0
	3	8897	80.0	2050	18.4	181	1.6	11128	100.0
	4	6996	61.9	4066	36.0	245	2.2	11307	100.0
	5	8446	75.5	2636	23.5	112	1.0	11194	100.0
	6	7046	63.6	3793	34.2	243	2.2	11082	100.0
4	1	8123	72.0	3041	27.0	112	1.0	11276	100.0
	2	7341	65.1	3800	33.7	134	1.2	11275	100.0
	3	6341	57.2	4363	39.3	388	3.5	11092	100.0
	4	8293	74.5	2711	24.3	133	1.2	11137	100.0
	5	8611	77.0	2517	22.5	50	0.4	11178	100.0
	6	9198	82.8	1881	16.9	23	0.2	11102	100.0
5	1	7519	67.5	3503	31.4	122	1.1	11144	100.0
	2	7459	67.0	3497	31.4	169	1.5	11125	100.0
	3	7036	65.1	3648	33.8	117	1.1	10801	100.0
	4	8908	80.0	2213	19.9	19	0.2	11140	100.0
	5	6730	62.5	3217	29.9	824	7.7	10771	100.0
	6	6438	60.3	4069	38.1	166	1.6	10673	100.0
6	1	8428	75.1	2758	24.6	38	0.3	11224	100.0
	2	7667	69.4	3229	29.2	157	1.4	11053	100.0
	3	6631	60.4	4085	37.2	267	2.4	10983	100.0
	4	8033	73.7	2775	25.5	95	0.9	10903	100.0
	5	7949	71.9	2909	26.3	190	1.7	11048	100.0
	6	7763	70.3	3186	28.9	88	0.8	11037	100.0