

## **APPENDIX B: SCALE SCORE HISTOGRAMS AND TUKEY CHARTS**

---

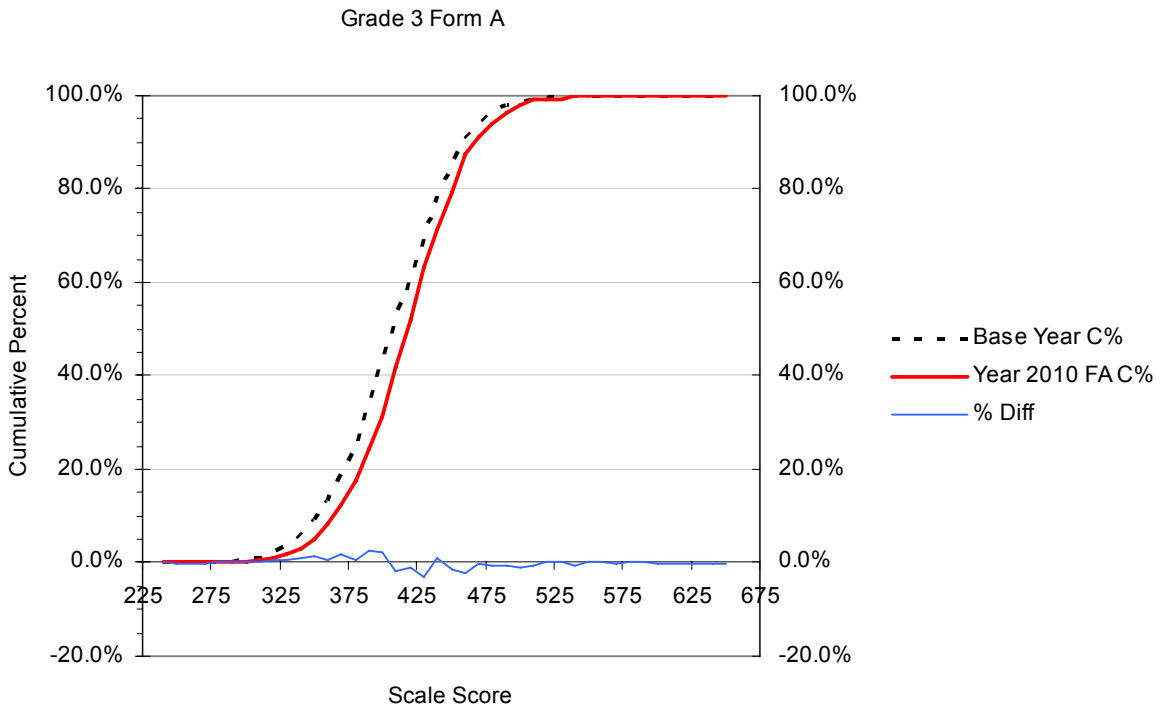
Year 2006 Grade=3

Scale Score Midpoint	Freq	Cum. Freq	Percent	Cum. Percent
240	95	95	0.16	0.16
250	1	96	0.00	0.16
260	4	100	0.01	0.17
270	10	110	0.02	0.18
280	41	151	0.07	0.25
290	72	223	0.12	0.37
300	145	368	0.24	0.61
310	346	714	0.57	1.18
320	534	1248	0.88	2.07
330	916	2164	1.52	3.58
340	1280	3444	2.12	5.70
350	2048	5492	3.39	9.09
360	2468	7960	4.09	13.18
370	3688	11648	6.11	19.29
380	3427	15075	5.67	24.96
390	5747	20822	9.52	34.48
400	5315	26137	8.80	43.28
410	5395	31532	8.93	52.22
420	5367	36899	8.89	61.10
430	5016	41915	8.31	69.41
440	5384	47299	8.92	78.33
450	4014	51313	6.65	84.97
460	3395	54708	5.62	90.59
470	1942	56650	3.22	93.81
480	1520	58170	2.52	96.33
490	1120	59290	1.85	98.18
500	355	59645	0.59	98.77
510	316	59961	0.52	99.29
520	161	60122	0.27	99.56
530	148	60270	0.25	99.80
540	0	60270	0.00	99.80
550	53	60323	0.09	99.89
560	48	60371	0.08	99.97
570	0	60371	0.00	99.97
580	6	60377	0.01	99.98
590	11	60388	0.02	100.00
600	0	60388	0.00	100.00
610	0	60388	0.00	100.00
620	0	60388	0.00	100.00
630	0	60388	0.00	100.00
640	0	60388	0.00	100.00
650	0	60388	0.00	100.00

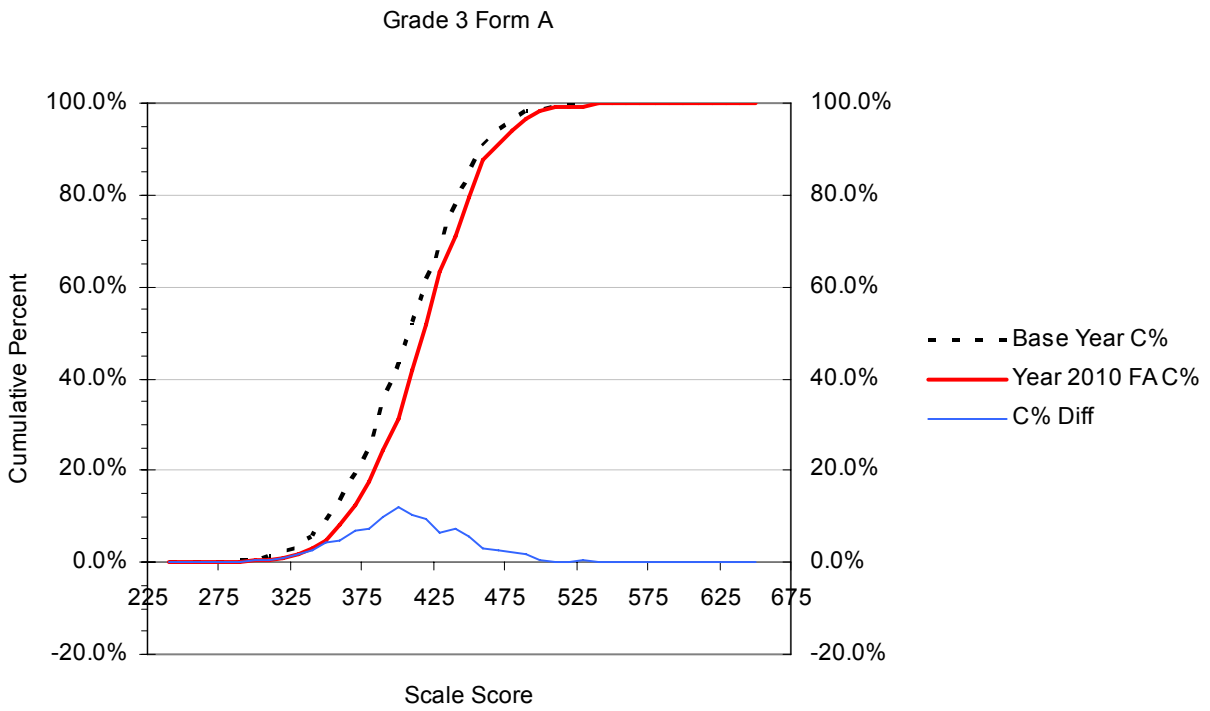
,  
 \$ffff^ffff^ffff^ffff^ffff^ffff  
 1000 2000 3000 4000 5000  
 Frequency

Figure B.1 Year 2006 Scale Score Distribution: Grade 3





**Figure B.3 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 3 Form A**



**Figure B.4 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 3 Form A**

Year 2010 Grade=3 Form=F

Scale Score Midpoint	Freq	Cum. Freq	Percent	Cum. Percent
240	6	6	0.02	0.02
250	0	6	0.00	0.02
260	7	13	0.02	0.04
270	5	18	0.02	0.06
280	4	22	0.01	0.08
290	7	29	0.02	0.10
300	23	52	0.08	0.18
310	50	102	0.17	0.35
320	88	190	0.30	0.65
330	160	350	0.55	1.20
340	385	735	1.31	2.51
350	531	1266	1.81	4.32
360	781	2047	2.67	6.99
370	1121	3168	3.83	10.82
380	1453	4621	4.96	15.78
390	1990	6611	6.80	22.58
400	2519	9130	8.60	31.18
410	2544	11674	8.69	39.87
420	2806	14480	9.58	49.46
430	3225	17705	11.01	60.47
440	2228	19933	7.61	68.08
450	2438	22371	8.33	76.41
460	2316	24687	7.91	84.32
470	1098	25785	3.75	88.07
480	1844	27629	6.30	94.36
490	667	28296	2.28	96.64
500	498	28794	1.70	98.34
510	0	28794	0.00	98.34
520	307	29101	1.05	99.39
530	0	29101	0.00	99.39
540	0	29101	0.00	99.39
550	133	29234	0.45	99.85
560	0	29234	0.00	99.85
570	0	29234	0.00	99.85
580	0	29234	0.00	99.85
590	0	29234	0.00	99.85
600	0	29234	0.00	99.85
610	0	29234	0.00	99.85
620	0	29234	0.00	99.85
630	0	29234	0.00	99.85
640	0	29234	0.00	99.85
650	45	29279	0.15	100.00

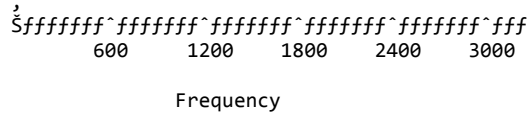
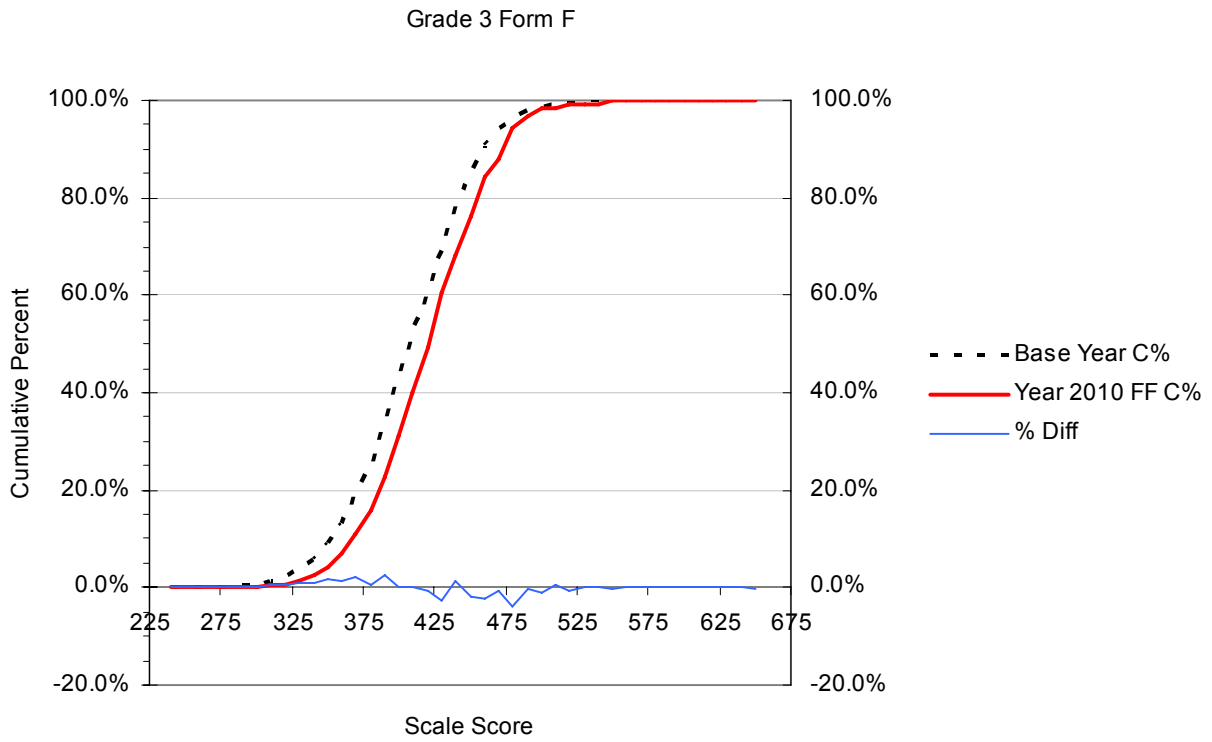
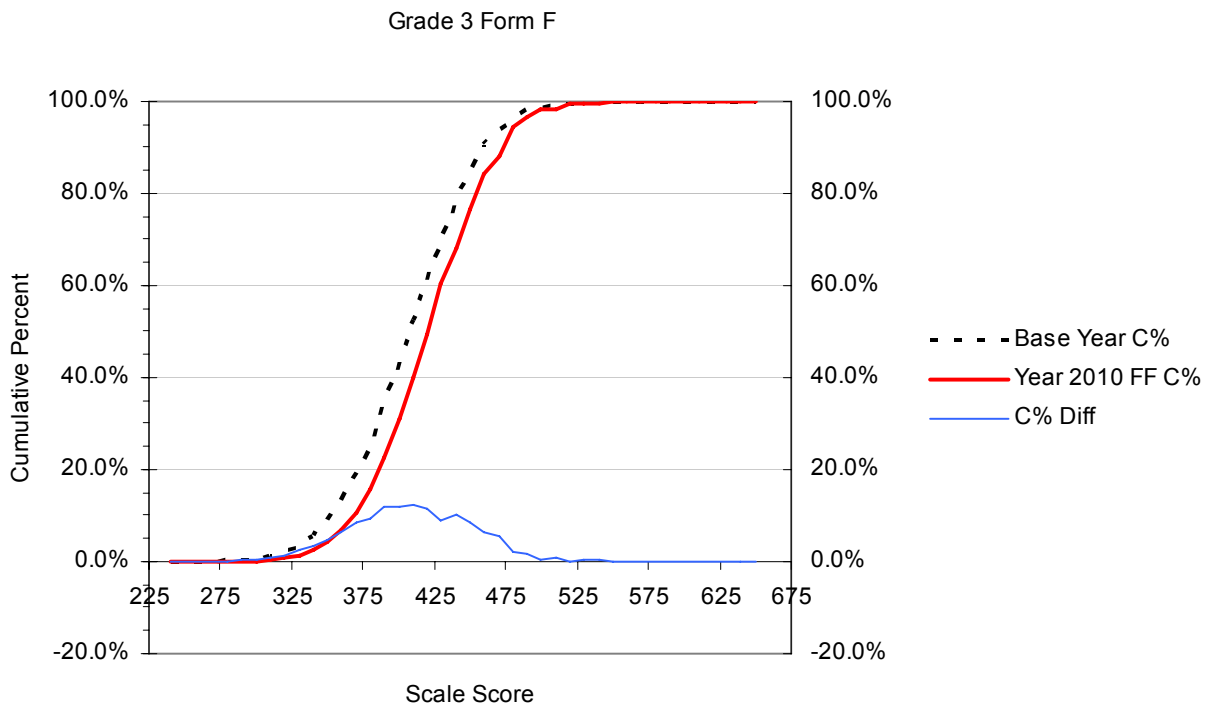


Figure B.5 Year 2010 Scale Score Distribution: Grade 3 Form F



**Figure B.6 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 3 Form F**



**Figure B.7 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 3 Form F**

Year 2006 Grade=4

Scale Score Midpoint		Freq	Cum. Freq	Percent	Cum. Percent
240	,	91	91	0.15	0.15
250	,	3	94	0.00	0.15
260	,	0	94	0.00	0.15
270	,	6	100	0.01	0.16
280	,	14	114	0.02	0.18
290	,	13	127	0.02	0.21
300	,	48	175	0.08	0.28
310	,	107	282	0.17	0.46
320	,	372	654	0.60	1.06
330	,	772	1426	1.25	2.31
340	,	1174	2600	1.90	4.21
350	,	2280	4880	3.69	7.90
360	,	2953	7833	4.78	12.68
370	,	3412	11245	5.52	18.20
380	,	4058	15303	6.57	24.77
390	,	4779	20082	7.73	32.50
400	,	5250	25332	8.50	41.00
410	,	5866	31198	9.49	50.49
420	,	6417	37615	10.39	60.88
430	,	5633	43248	9.12	70.00
440	,	5088	48336	8.24	78.23
450	,	3460	51796	5.60	83.83
460	,	3329	55125	5.39	89.22
470	,	2812	57937	4.55	93.77
480	,	1618	59555	2.62	96.39
490	,	1293	60848	2.09	98.48
500	,	246	61094	0.40	98.88
510	,	409	61503	0.66	99.54
520	,	202	61705	0.33	99.87
530	,	0	61705	0.00	99.87
540	,	0	61705	0.00	99.87
550	,	68	61773	0.11	99.98
560	,	0	61773	0.00	99.98
570	,	12	61785	0.02	100.00
580	,	0	61785	0.00	100.00
590	,	0	61785	0.00	100.00
600	,	0	61785	0.00	100.00
610	,	0	61785	0.00	100.00
620	,	0	61785	0.00	100.00
630	,	0	61785	0.00	100.00
640	,	0	61785	0.00	100.00
650	,	0	61785	0.00	100.00

Sffff~ffff~ffff~ffff~ffff~ffff~ff  
 1000 2000 3000 4000 5000 6000

Frequency

Figure B.8 Year 2006 Scale Score Distribution: Grade 4

Year 2010 Grade=4 Form=A

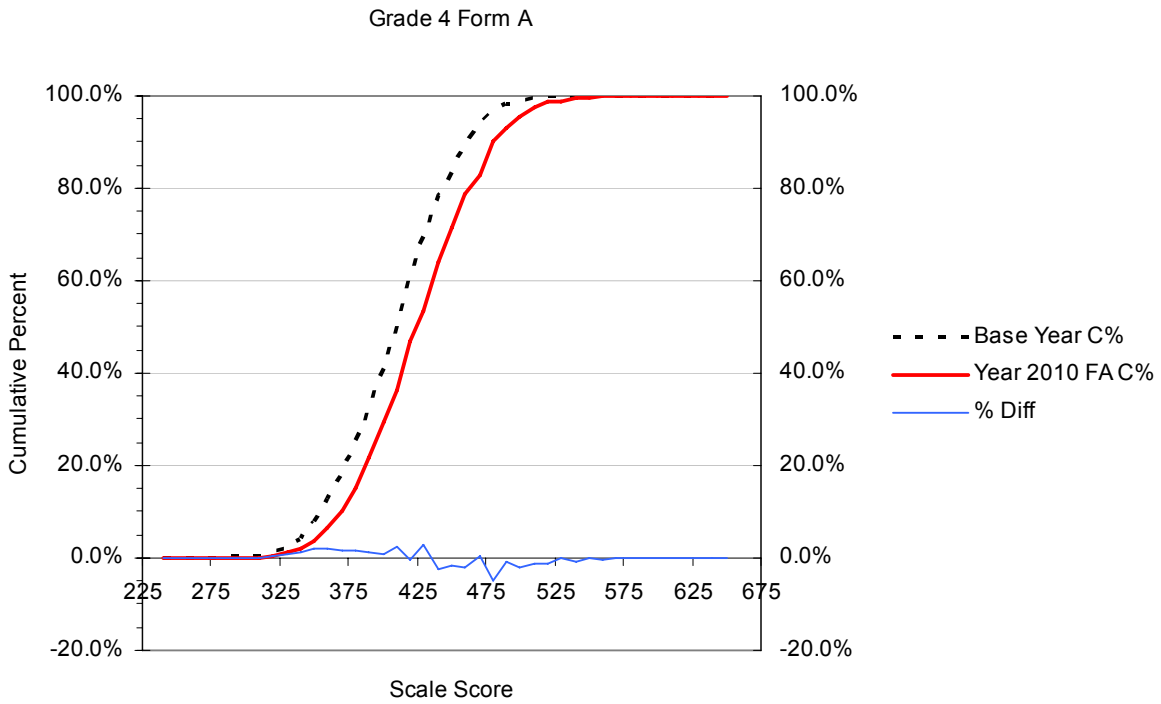
Scale Score Midpoint	Freq	Cum. Freq	Percent	Cum. Percent
240	13	13	0.04	0.04
250	0	13	0.00	0.04
260	7	20	0.02	0.07
270	5	25	0.02	0.08
280	4	29	0.01	0.10
290	1	30	0.00	0.10
300	8	38	0.03	0.13
310	21	59	0.07	0.20
320	79	138	0.27	0.46
330	182	320	0.61	1.07
340	253	573	0.85	1.92
350	541	1114	1.82	3.74
360	824	1938	2.77	6.51
370	1155	3093	3.88	10.39
380	1446	4539	4.86	15.24
390	1896	6435	6.37	21.61
400	2280	8715	7.66	29.27
410	2045	10760	6.87	36.13
420	3273	14033	10.99	47.13
430	1874	15907	6.29	53.42
440	3124	19031	10.49	63.91
450	2198	21229	7.38	71.29
460	2236	23465	7.51	78.80
470	1181	24646	3.97	82.77
480	2202	26848	7.39	90.16
490	909	27757	3.05	93.21
500	722	28479	2.42	95.64
510	583	29062	1.96	97.60
520	402	29464	1.35	98.95
530	0	29464	0.00	98.95
540	192	29656	0.64	99.59
550	0	29656	0.00	99.59
560	94	29750	0.32	99.91
570	0	29750	0.00	99.91
580	0	29750	0.00	99.91
590	21	29771	0.07	99.98
600	0	29771	0.00	99.98
610	0	29771	0.00	99.98
620	0	29771	0.00	99.98
630	0	29771	0.00	99.98
640	0	29771	0.00	99.98
650	7	29778	0.02	100.00

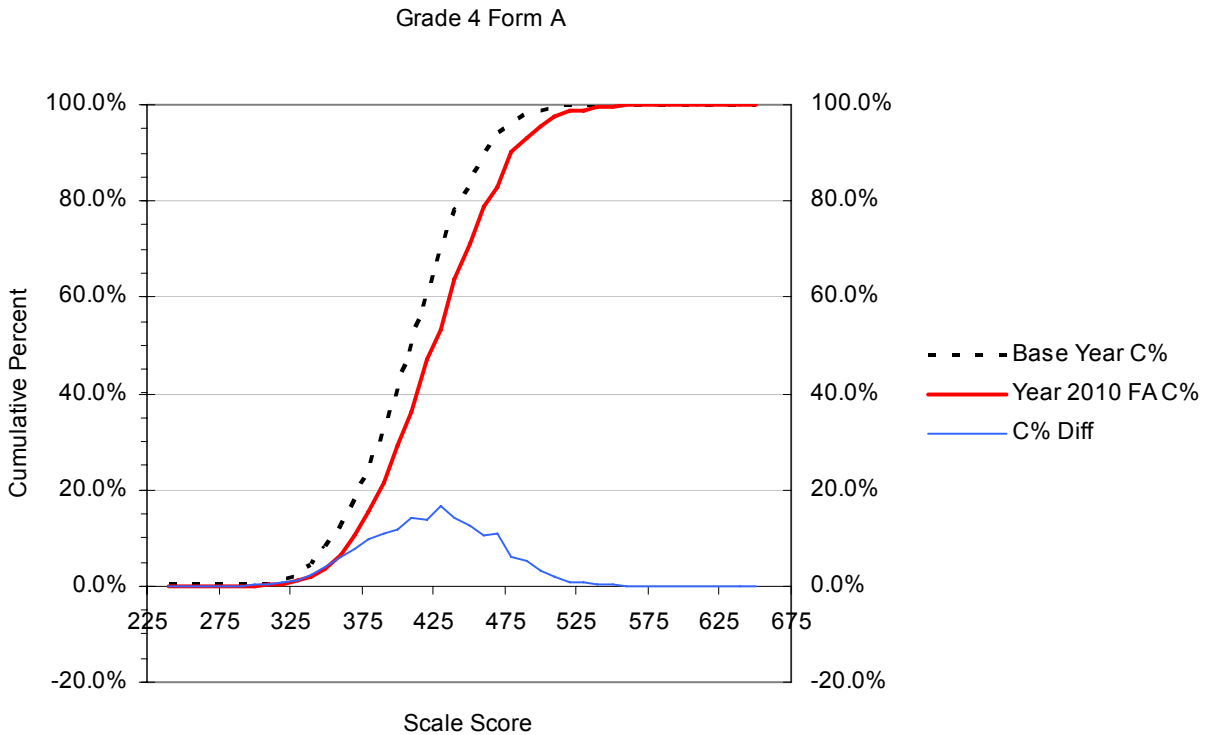
S f f f f f f f ~ f f f f f f f f ~ f f f f f f f f ~ f f f f f f f f ~ f f f f f f f f ~ f f f f f f f f  
 600 1200 1800 2400 3000  
 Frequency

Figure B.9 Year 2010 Scale Score Distribution: Grade 4 Form A





**Figure B.10 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 4 Form A**



**Figure B.11 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 4 Form A**

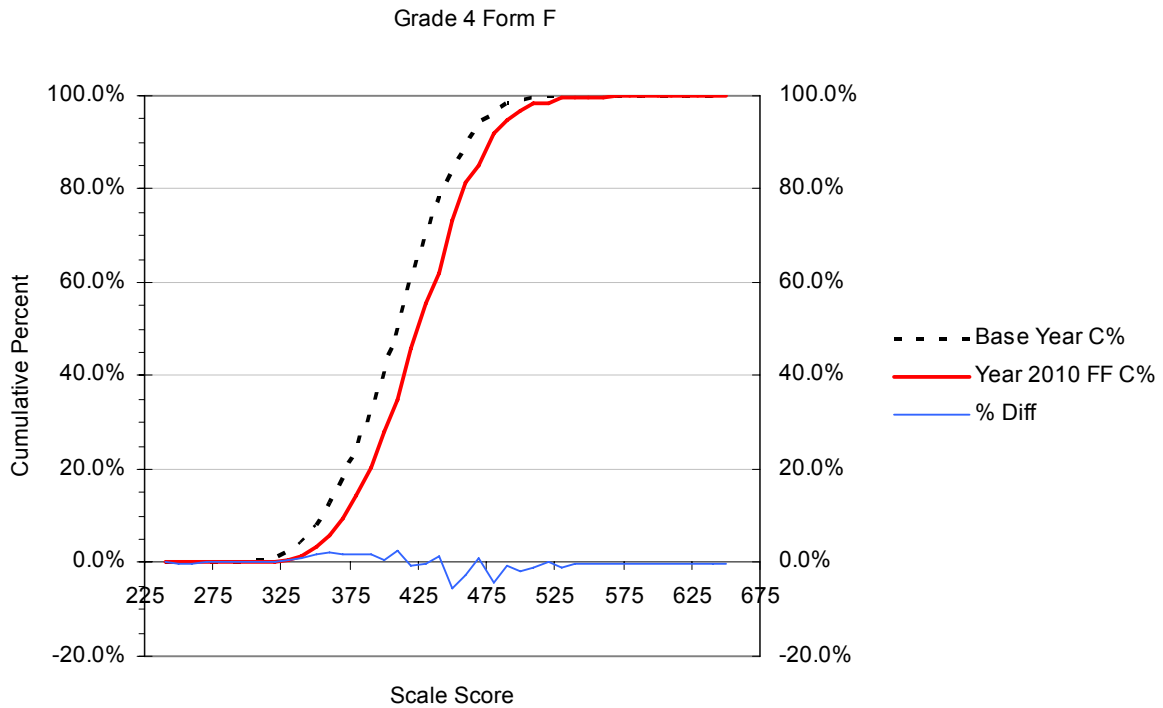
Year 2010 Grade=4 Form=F

Scale Score Midpoint	Freq	Cum. Freq	Percent	Cum. Percent
240	3	3	0.01	0.01
250	2	5	0.01	0.02
260	2	7	0.01	0.02
270	2	9	0.01	0.03
280	2	11	0.01	0.04
290	1	12	0.00	0.04
300	2	14	0.01	0.05
310	16	30	0.05	0.10
320	61	91	0.20	0.31
330	145	236	0.49	0.79
340	238	474	0.80	1.59
350	521	995	1.75	3.34
360	751	1746	2.52	5.86
370	1049	2795	3.52	9.38
380	1451	4246	4.87	14.25
390	1797	6043	6.03	20.28
400	2313	8356	7.76	28.04
410	2033	10389	6.82	34.87
420	3321	13710	11.15	46.01
430	2811	16521	9.43	55.45
440	2016	18537	6.77	62.21
450	3297	21834	11.06	73.28
460	2410	24244	8.09	81.36
470	1112	25356	3.73	85.10
480	2055	27411	6.90	91.99
490	795	28206	2.67	94.66
500	663	28869	2.23	96.89
510	460	29329	1.54	98.43
520	0	29329	0.00	98.43
530	288	29617	0.97	99.40
540	0	29617	0.00	99.40
550	114	29731	0.38	99.78
560	0	29731	0.00	99.78
570	53	29784	0.18	99.96
580	0	29784	0.00	99.96
590	0	29784	0.00	99.96
600	0	29784	0.00	99.96
610	11	29795	0.04	99.99
620	0	29795	0.00	99.99
630	0	29795	0.00	99.99
640	0	29795	0.00	99.99
650	2	29797	0.01	100.00

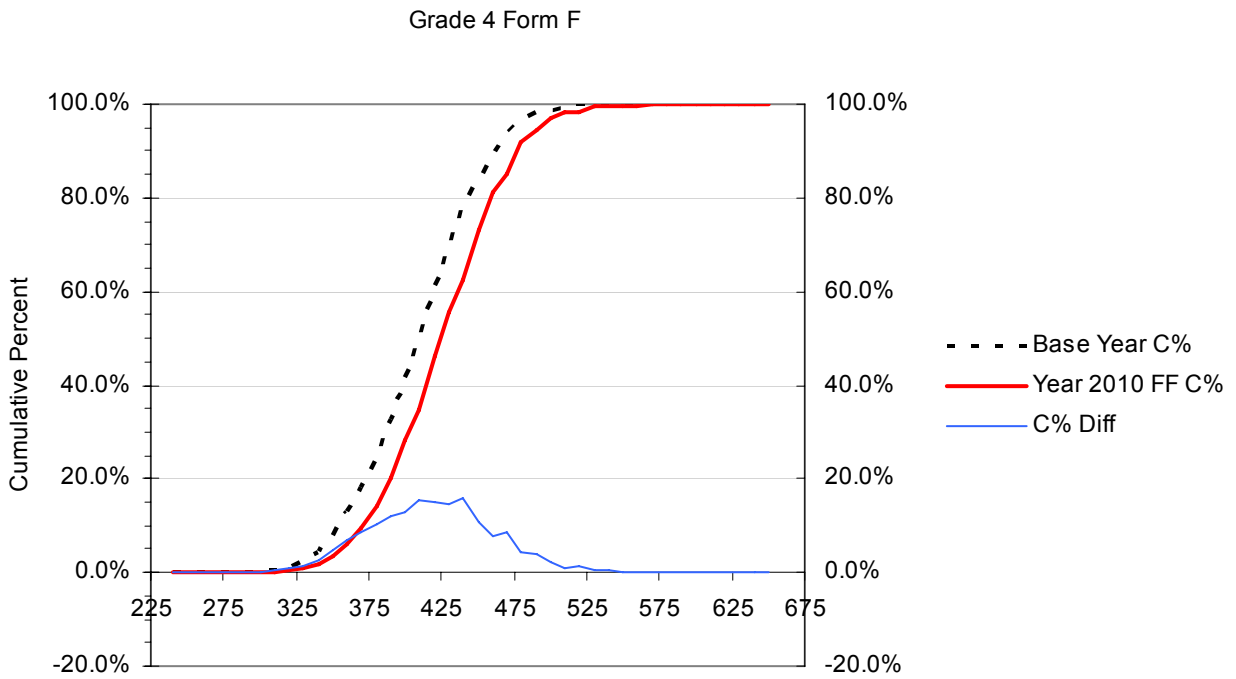
  

S f f f f f f f ~ f f f f f f f f ~ f f f f f f f f ~ f f f f f f f f ~ f f f f f f f f ~ f f f f f f f f  
 600 1200 1800 2400 3000  
 Frequency

Figure B.12 Year 2010 Scale Score Distribution: Grade 4 Form F



**Figure B.13 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 4 Form F**



**Figure B.14 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 4 Form F**

Year 2006 Grade=5

Scale Score Midpoint	Freq	Cum. Freq	Percent	Cum. Percent
240	78	78	0.12	0.12
250	3	81	0.00	0.13
260	2	83	0.00	0.13
270	2	85	0.00	0.13
280	4	89	0.01	0.14
290	2	91	0.00	0.14
300	19	110	0.03	0.17
310	38	148	0.06	0.23
320	94	242	0.15	0.38
330	**	339	0.53	0.92
340	****	720	1.13	2.05
350	*****	1168	1.84	3.89
360	*****	2214	3.49	7.38
370	*****	3926	6.19	13.56
380	*****	3956	6.23	19.80
390	*****	5734	9.03	28.83
400	*****	5089	8.02	36.85
410	*****	7170	11.30	48.14
420	*****	6063	9.55	57.70
430	*****	6337	9.98	67.68
440	*****	4657	7.34	75.02
450	*****	4491	7.08	82.09
460	*****	3410	5.37	87.46
470	*****	3366	5.30	92.77
480	*****	1493	2.35	95.12
490	*****	1749	2.76	97.87
500	***	595	0.94	98.81
510	**	404	0.64	99.45
520	*	229	0.36	99.81
530		0	0.00	99.81
540		96	0.15	99.96
550		0	0.00	99.96
560		20	0.03	99.99
570		0	0.00	99.99
580		0	0.00	99.99
590		5	0.01	100.00
600		0	0.00	100.00
610		0	0.00	100.00
620		0	0.00	100.00
630		0	0.00	100.00
640		0	0.00	100.00
650		0	0.00	100.00

Sffff~ffff~ffff~ffff~ffff~ffff~ffff~f  
 1000 2000 3000 4000 5000 6000 7000  
 Frequency

Figure B.15 Year 2006 Scale Score Distribution: Grade 5

Year 2010 Grade=5 Form=A

Scale Score Midpoint	Freq	Cum. Freq	Percent	Cum. Percent
240	1	1	0.00	0.00
250	2	3	0.01	0.01
260	0	3	0.00	0.01
270	7	10	0.02	0.03
280	4	14	0.01	0.05
290	4	18	0.01	0.06
300	3	21	0.01	0.07
310	11	32	0.04	0.11
320	14	46	0.05	0.16
330	54	100	0.18	0.34
340	108	208	0.37	0.70
350	203	411	0.69	1.39
360	502	913	1.70	3.09
370	920	1833	3.12	6.21
380	1757	3590	5.95	12.16
390	1962	5552	6.64	18.80
400	2341	7893	7.93	26.73
410	3439	11332	11.64	38.37
420	2998	14330	10.15	48.52
430	2960	17290	10.02	58.55
440	2262	19552	7.66	66.21
450	3012	22564	10.20	76.41
460	1502	24066	5.09	81.49
470	2159	26225	7.31	88.80
480	1286	27511	4.35	93.16
490	594	28105	2.01	95.17
500	887	28992	3.00	98.17
510	276	29268	0.93	99.11
520	171	29439	0.58	99.69
530	0	29439	0.00	99.69
540	66	29505	0.22	99.91
550	0	29505	0.00	99.91
560	22	29527	0.07	99.98
570	0	29527	0.00	99.98
580	0	29527	0.00	99.98
590	0	29527	0.00	99.98
600	0	29527	0.00	99.98
610	0	29527	0.00	99.98
620	0	29527	0.00	99.98
630	0	29527	0.00	99.98
640	0	29527	0.00	99.98
650	5	29532	0.02	100.00

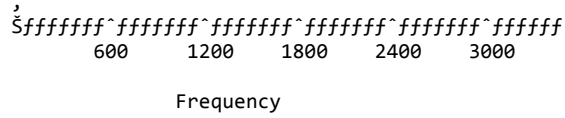
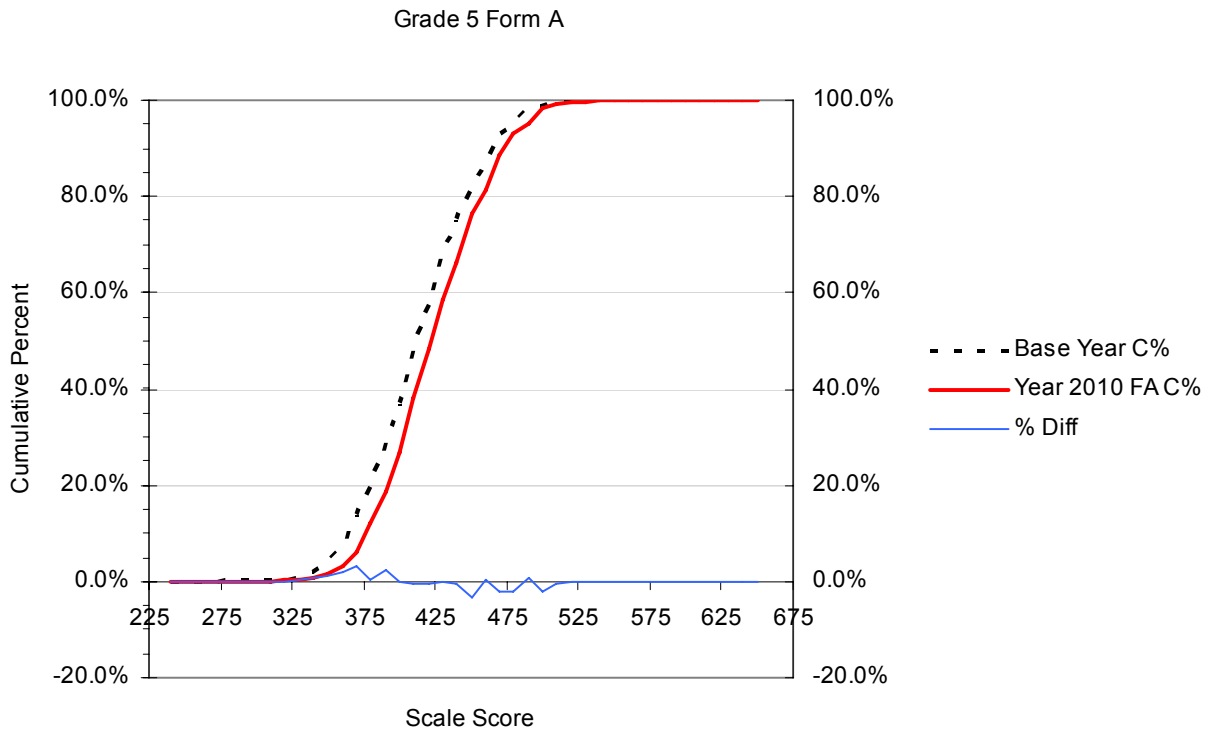
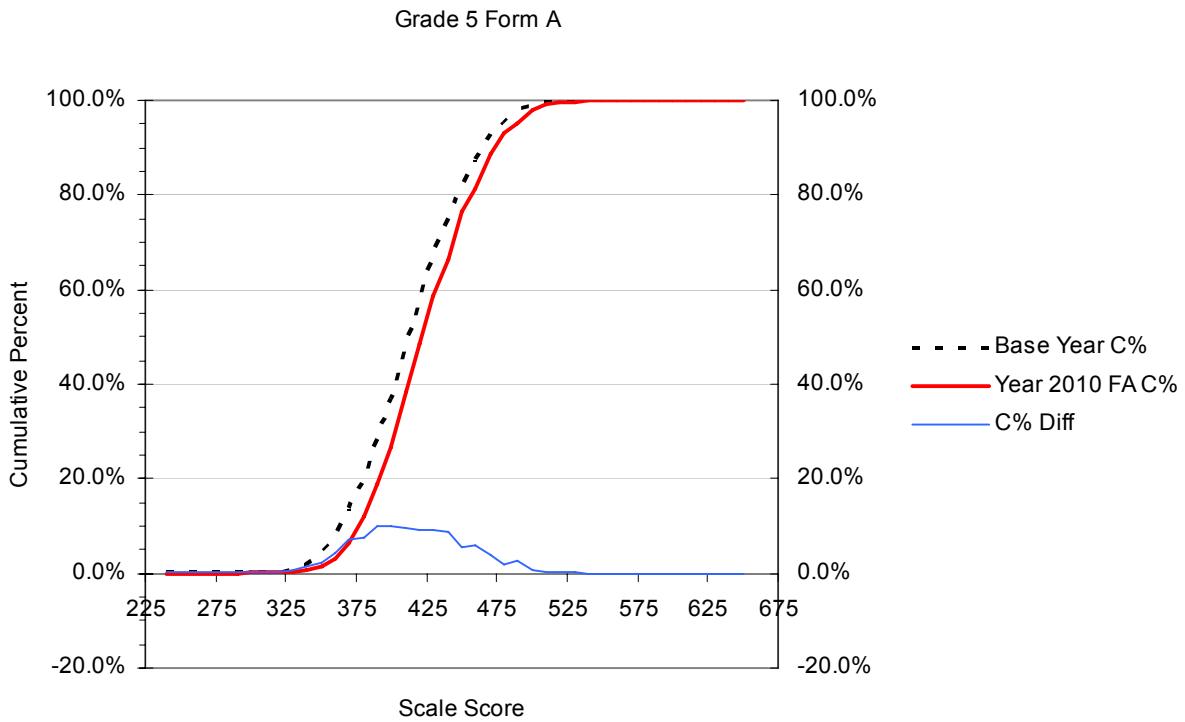


Figure B.16 Year 2010 Scale Score Distribution: Grade 5 Form A

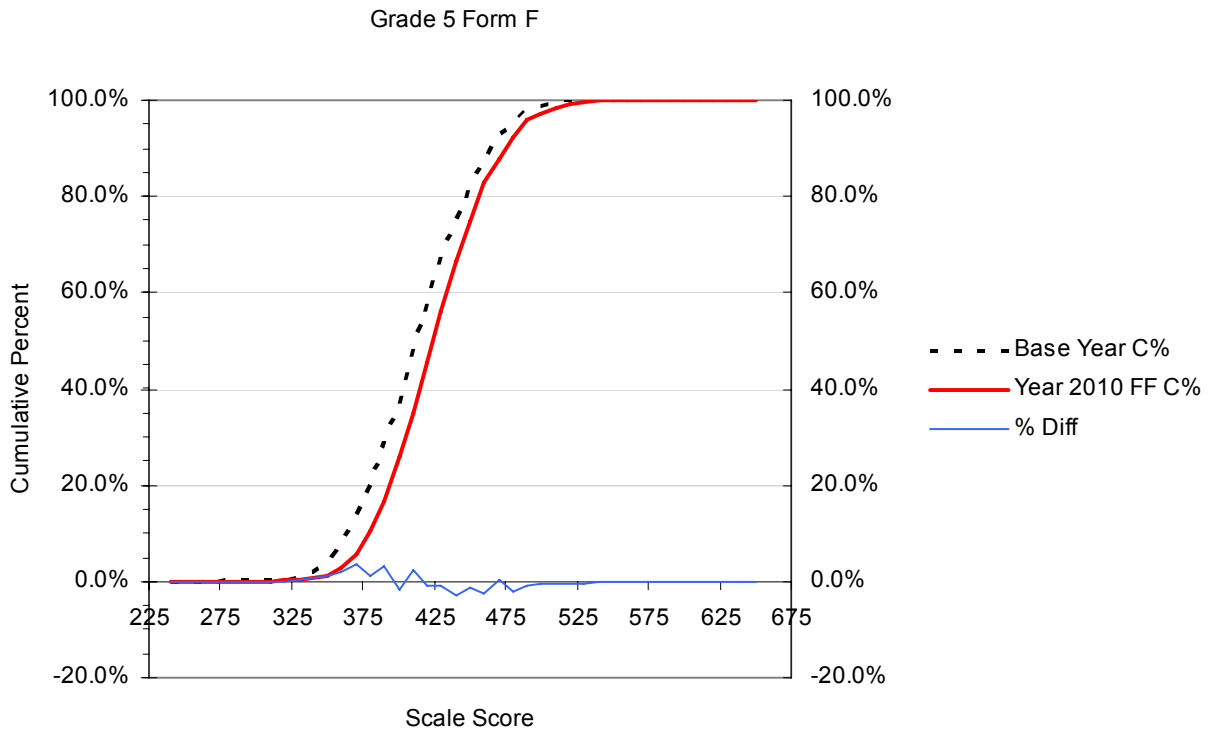


**Figure B.17 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 5 Form A**

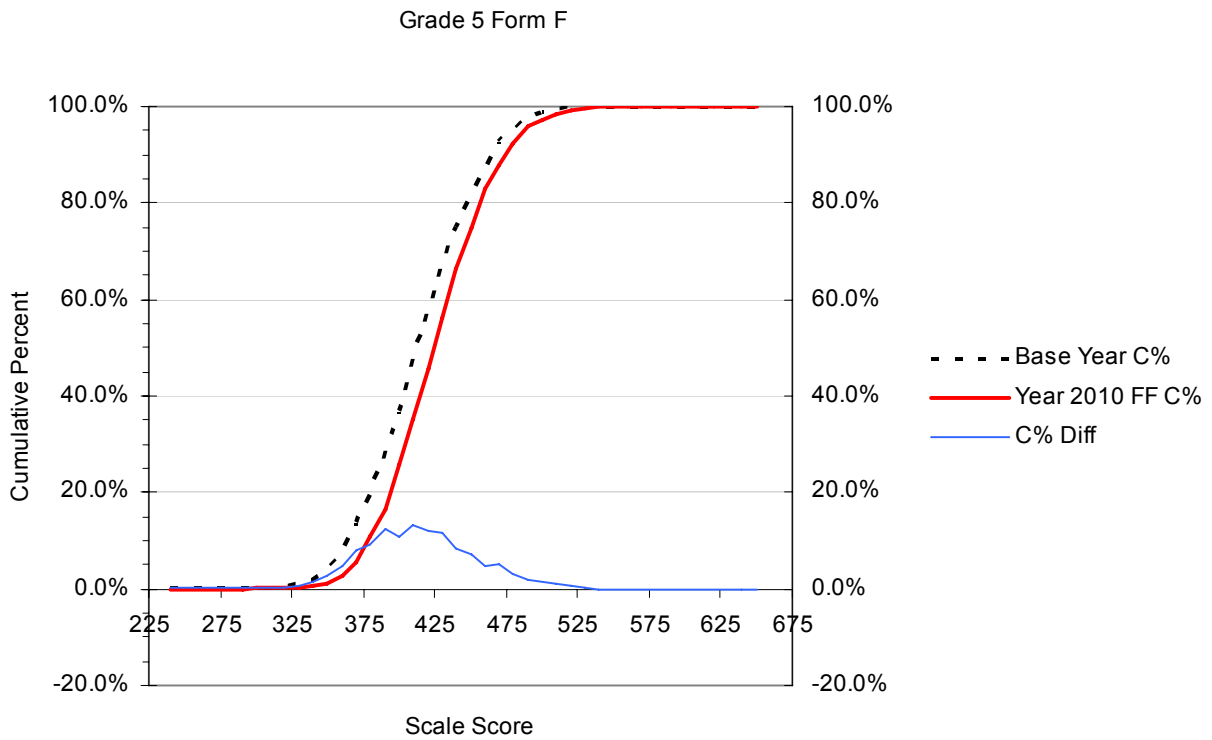


**Figure B.18 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 5 Form A**





**Figure B.20 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 5 Form F**



**Figure B.21 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 5 Form F**



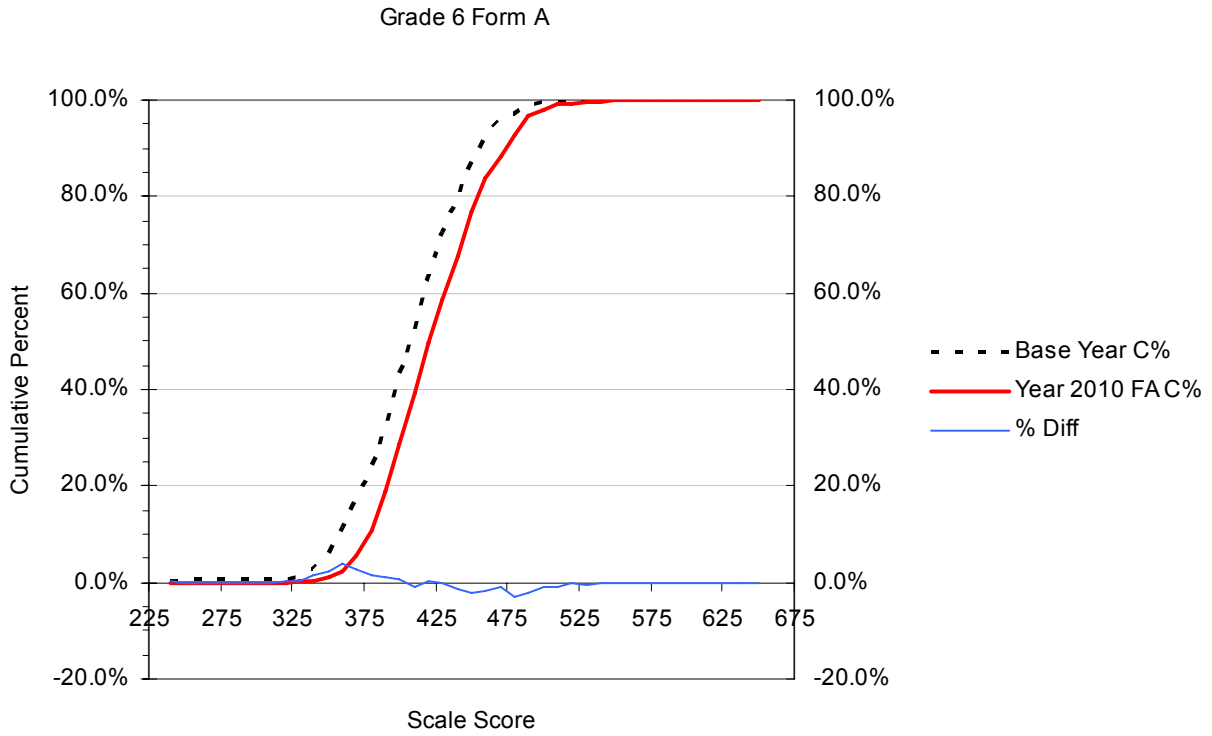
Year 2006 Grade=6

Scale Score Midpoint	Freq	Cum. Freq	Percent	Cum. Percent
240	304	304	0.47	0.47
250	0	304	0.00	0.47
260	16	320	0.02	0.49
270	0	320	0.00	0.49
280	6	326	0.01	0.50
290	11	337	0.02	0.52
300	34	371	0.05	0.57
310	23	394	0.04	0.61
320	138	532	0.21	0.82
330	307	839	0.47	1.30
340	1012	1851	1.56	2.86
350	1915	3766	2.96	5.82
360	3410	7176	5.27	11.08
370	3945	11121	6.09	17.18
380	4214	15335	6.51	23.68
390	5929	21264	9.16	32.84
400	6471	27735	9.99	42.83
410	6329	34064	9.77	52.61
420	7130	41194	11.01	63.62
430	5711	46905	8.82	72.44
440	5036	51941	7.78	80.22
450	4587	56528	7.08	87.30
460	3173	59701	4.90	92.20
470	2510	62211	3.88	96.08
480	829	63040	1.28	97.36
490	1147	64187	1.77	99.13
500	321	64508	0.50	99.63
510	152	64660	0.23	99.86
520	29	64689	0.04	99.91
530	42	64731	0.06	99.97
540	0	64731	0.00	99.97
550	8	64739	0.01	99.98
560	10	64749	0.02	100.00
570	0	64749	0.00	100.00
580	1	64750	0.00	100.00
590	0	64750	0.00	100.00
600	0	64750	0.00	100.00
610	0	64750	0.00	100.00
620	0	64750	0.00	100.00
630	0	64750	0.00	100.00
640	0	64750	0.00	100.00
650	0	64750	0.00	100.00

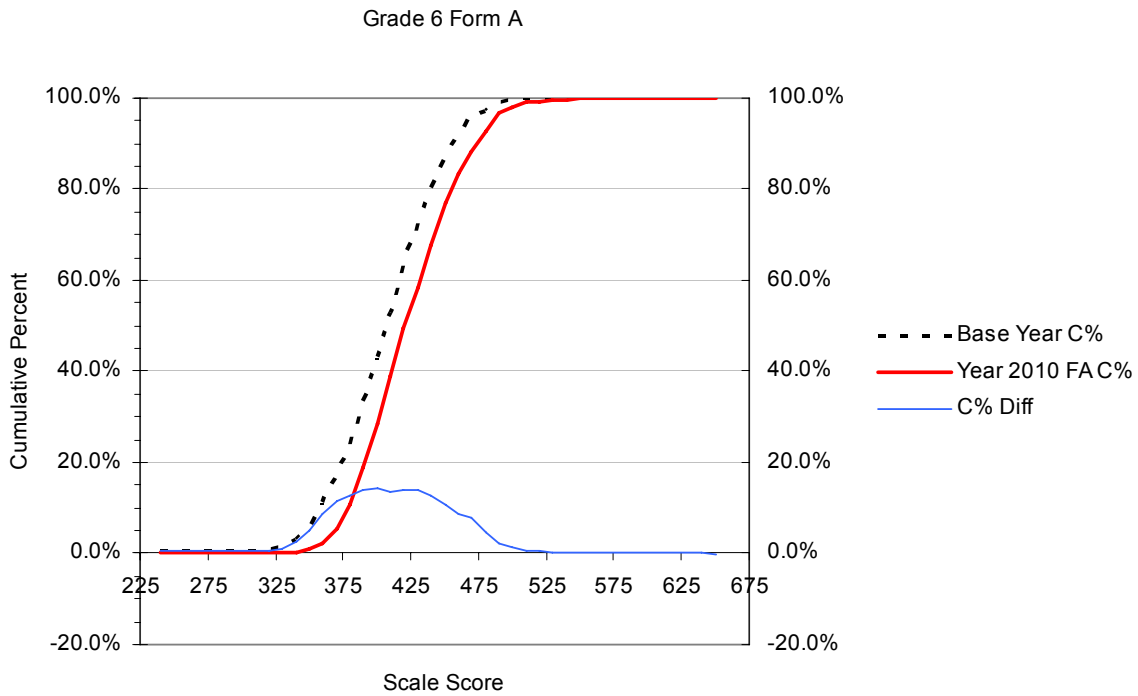
1000 2000 3000 4000 5000 6000 7000  
 Frequency

Figure B.22 Year 2006 Scale Score Distribution: Grade 6





**Figure C.24 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 6 Form A**



**Figure B.25 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 6 Form A**

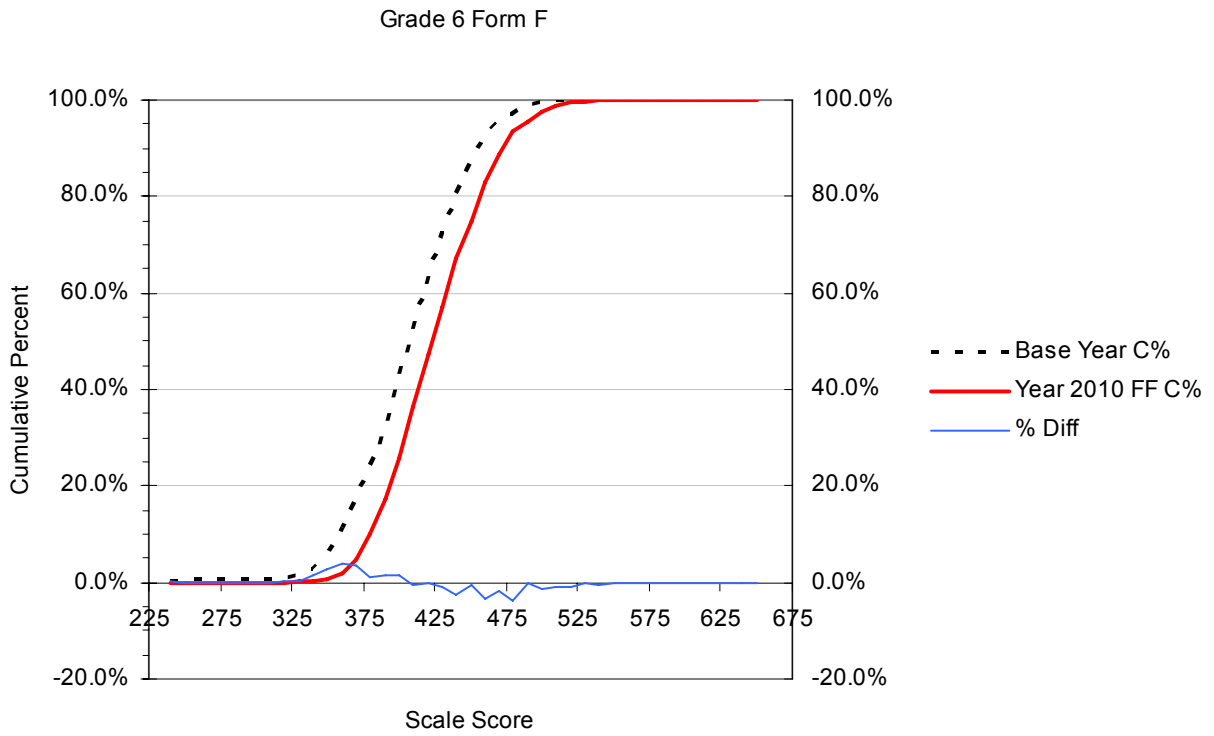
Year 2010 Grade=6 Form=F

Scale Score Midpoint	Freq	Cum. Freq	Percent	Cum. Percent
240	1	1	0.00	0.00
250	0	1	0.00	0.00
260	0	1	0.00	0.00
270	1	2	0.00	0.01
280	0	2	0.00	0.01
290	1	3	0.00	0.01
300	2	5	0.01	0.02
310	1	6	0.00	0.02
320	13	19	0.04	0.06
330	7	26	0.02	0.09
340	35	61	0.12	0.21
350	126	187	0.43	0.64
360	348	535	1.18	1.82
370	809	1344	2.75	4.57
380	1541	2885	5.24	9.82
390	2197	5082	7.48	17.30
400	2537	7619	8.63	25.93
410	3012	10631	10.25	36.18
420	3281	13912	11.17	47.35
430	2869	16781	9.76	57.11
440	3001	19782	10.21	67.32
450	2247	22029	7.65	74.97
460	2399	24428	8.16	83.13
470	1618	26046	5.51	88.64
480	1456	27502	4.96	93.60
490	590	28092	2.01	95.60
500	563	28655	1.92	97.52
510	351	29006	1.19	98.71
520	257	29263	0.87	99.59
530	0	29263	0.00	99.59
540	102	29365	0.35	99.94
550	0	29365	0.00	99.94
560	0	29365	0.00	99.94
570	0	29365	0.00	99.94
580	0	29365	0.00	99.94
590	0	29365	0.00	99.94
600	0	29365	0.00	99.94
610	0	29365	0.00	99.94
620	0	29365	0.00	99.94
630	0	29365	0.00	99.94
640	0	29365	0.00	99.94
650	19	29384	0.06	100.00

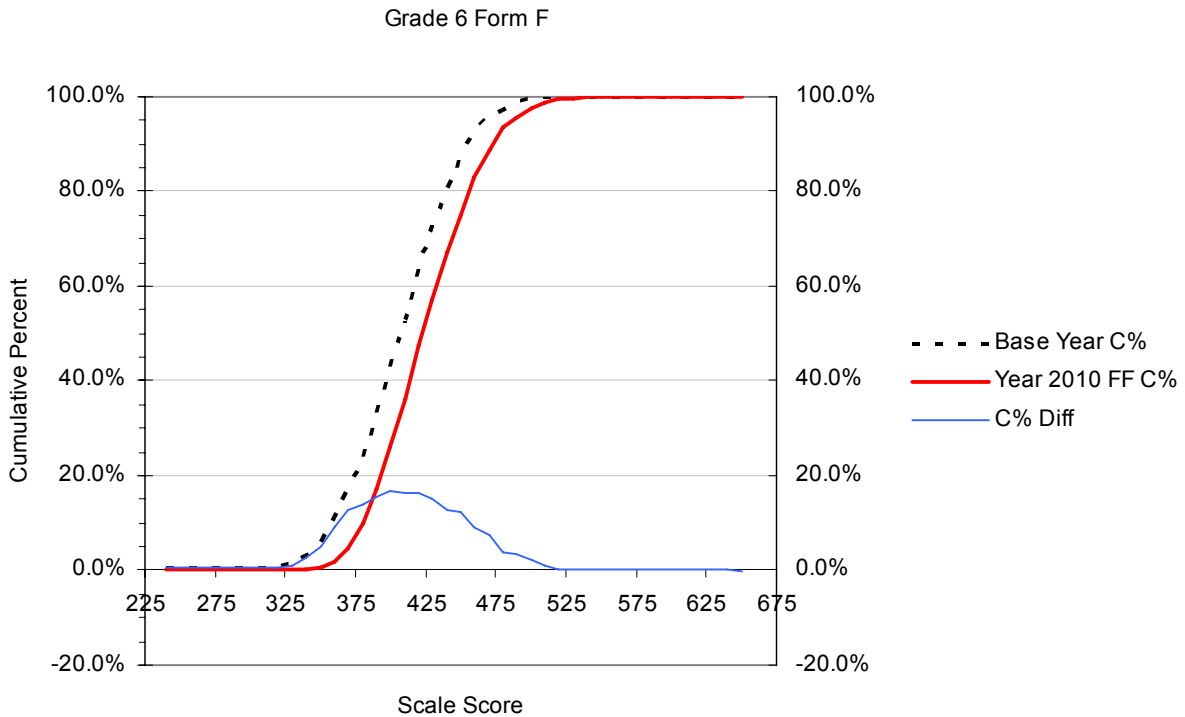
  

,  
 \$\$\$\$\$\$^\$\$\$\$\$\$^\$\$\$\$\$\$^\$\$\$\$\$\$^\$\$\$\$\$\$^\$\$\$\$\$  
 600 1200 1800 2400 3000  
 Frequency

Figure B.26 Year 2010 Scale Score Distribution: Grade 6 Form F



**Figure C.27 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 6 Form F**



**Figure B.28 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 6 Form F**

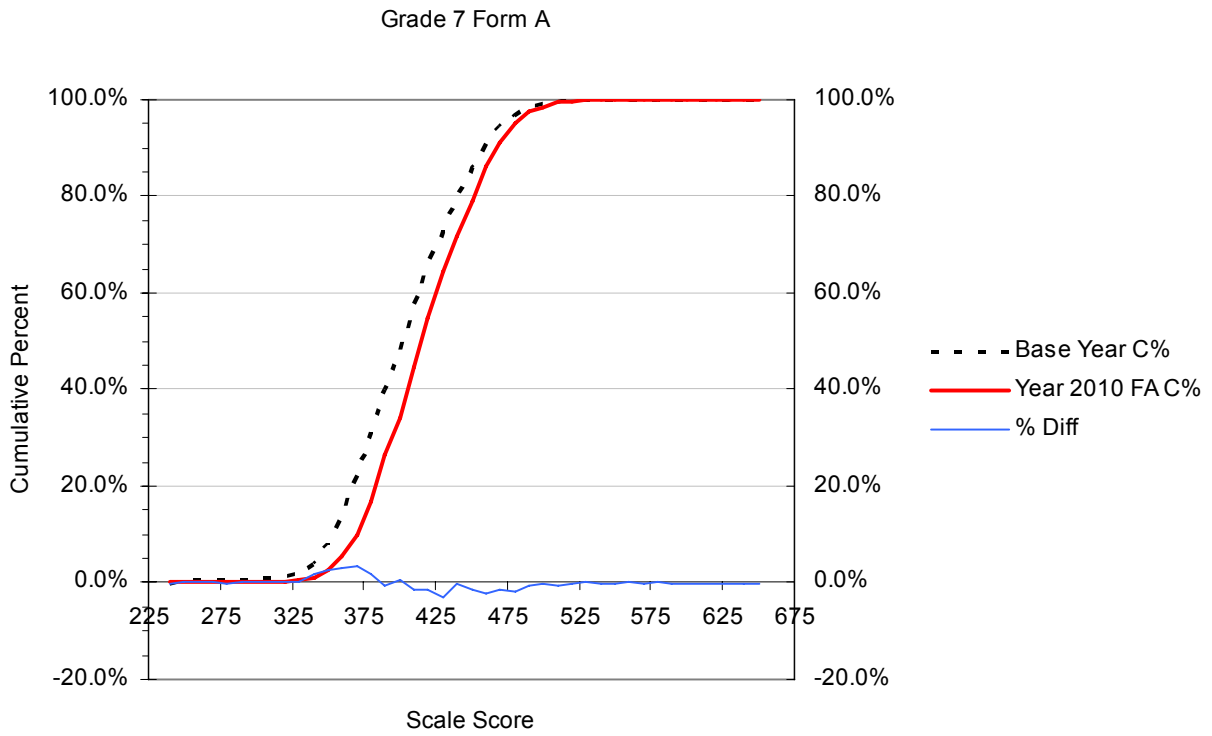
Year 2006 Grade=7

Scale Score Midpoint	Freq	Cum. Freq	Percent	Cum. Percent
240	0	0	0.00	0.00
250	259	259	0.39	0.39
260	185	444	0.28	0.67
270	23	467	0.03	0.71
280	12	479	0.02	0.73
290	28	507	0.04	0.77
300	25	532	0.04	0.81
310	61	593	0.09	0.90
320	246	839	0.37	1.27
330	409	1248	0.62	1.90
340	1306	2554	1.98	3.88
350	2765	5319	4.20	8.08
360	3979	9298	6.04	14.12
370	5116	14414	7.77	21.90
380	5818	20232	8.84	30.73
390	5891	26123	8.95	39.68
400	5703	31826	8.66	48.35
410	5760	37586	8.75	57.10
420	5606	43192	8.52	65.61
430	4488	47680	6.82	72.43
440	4852	52532	7.37	79.80
450	3994	56526	6.07	85.87
460	3202	59728	4.86	90.73
470	2372	62100	3.60	94.34
480	1665	63765	2.53	96.86
490	1008	64773	1.53	98.40
500	436	65209	0.66	99.06
510	327	65536	0.50	99.55
520	174	65710	0.26	99.82
530	82	65792	0.12	99.94
540	0	65792	0.00	99.94
550	21	65813	0.03	99.98
560	10	65823	0.02	99.99
570	5	65828	0.01	100.00
580	1	65829	0.00	100.00
590	0	65829	0.00	100.00
600	0	65829	0.00	100.00
610	0	65829	0.00	100.00
620	0	65829	0.00	100.00
630	0	65829	0.00	100.00
640	0	65829	0.00	100.00
650	0	65829	0.00	100.00

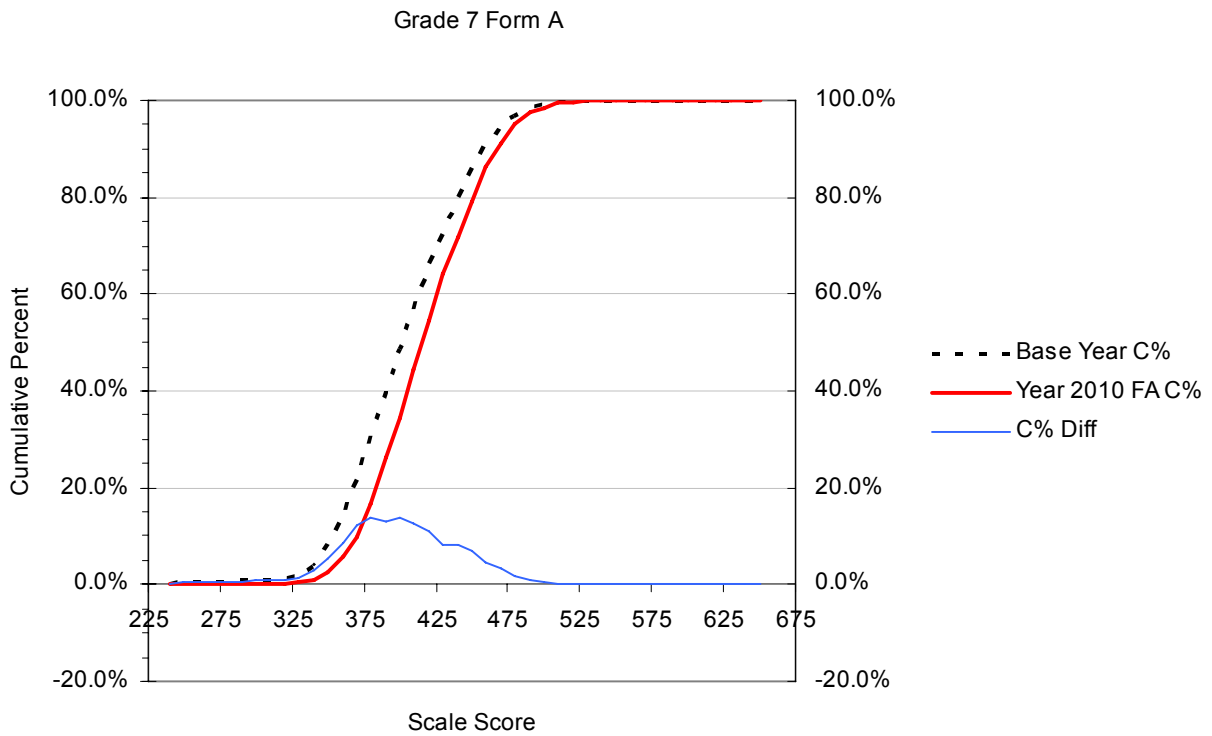
Šffff^ffff^ffff^ffff^ffff^ffff  
 1000 2000 3000 4000 5000  
 Frequency

Figure B.29 Year 2006 Scale Score Distribution: Grade 7





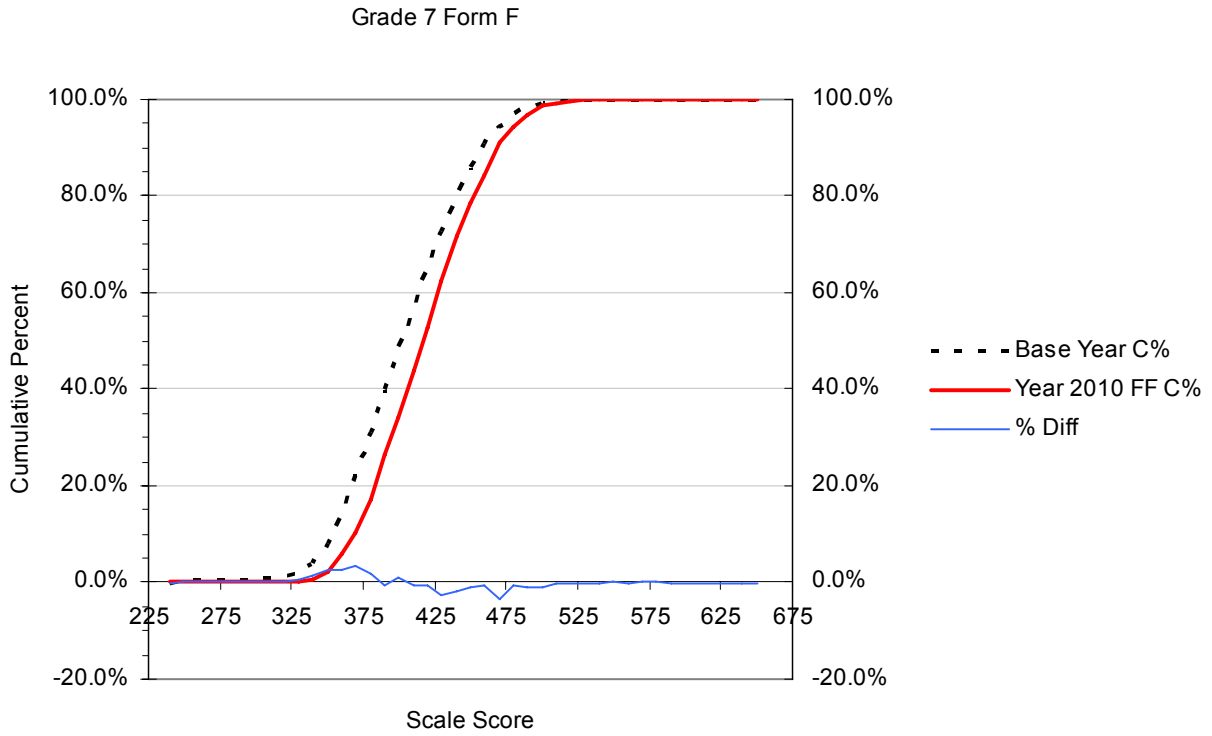
**Figure B.31 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 7 Form A**



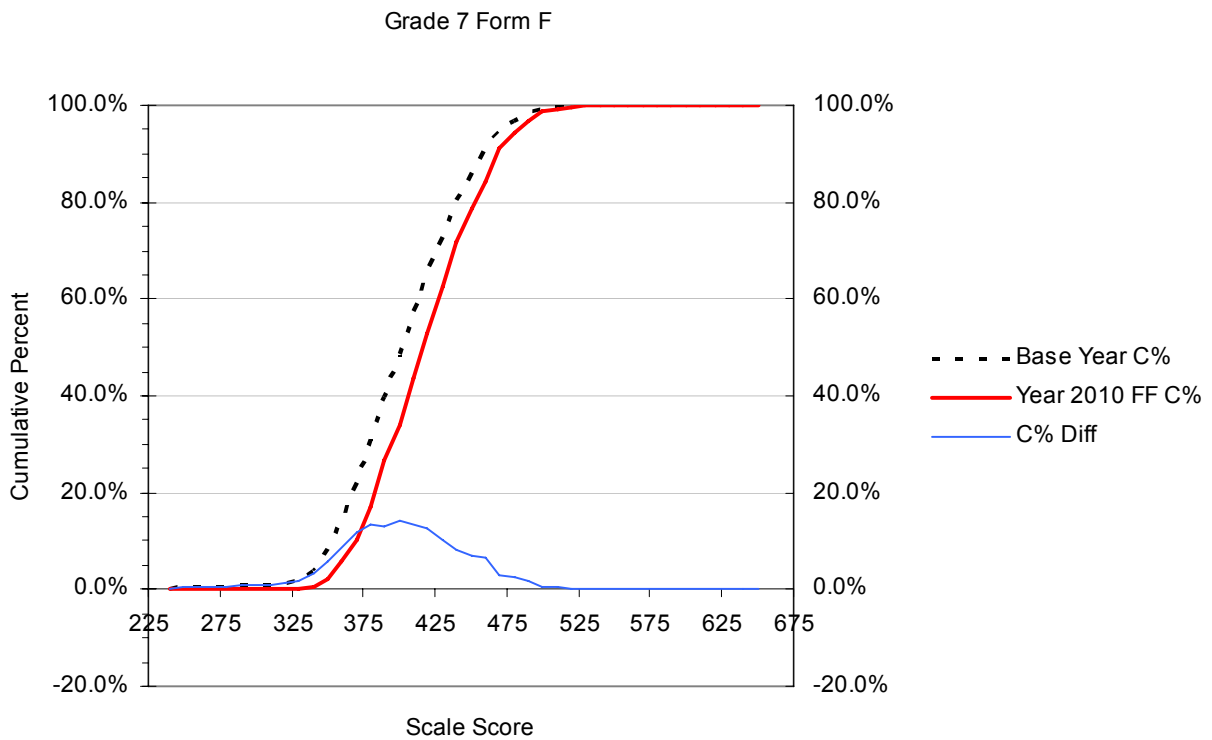
**Figure B.32 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 7 Form A**







**Figure B.34 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 7 Form F**



**Figure B.35 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 7 Form F**



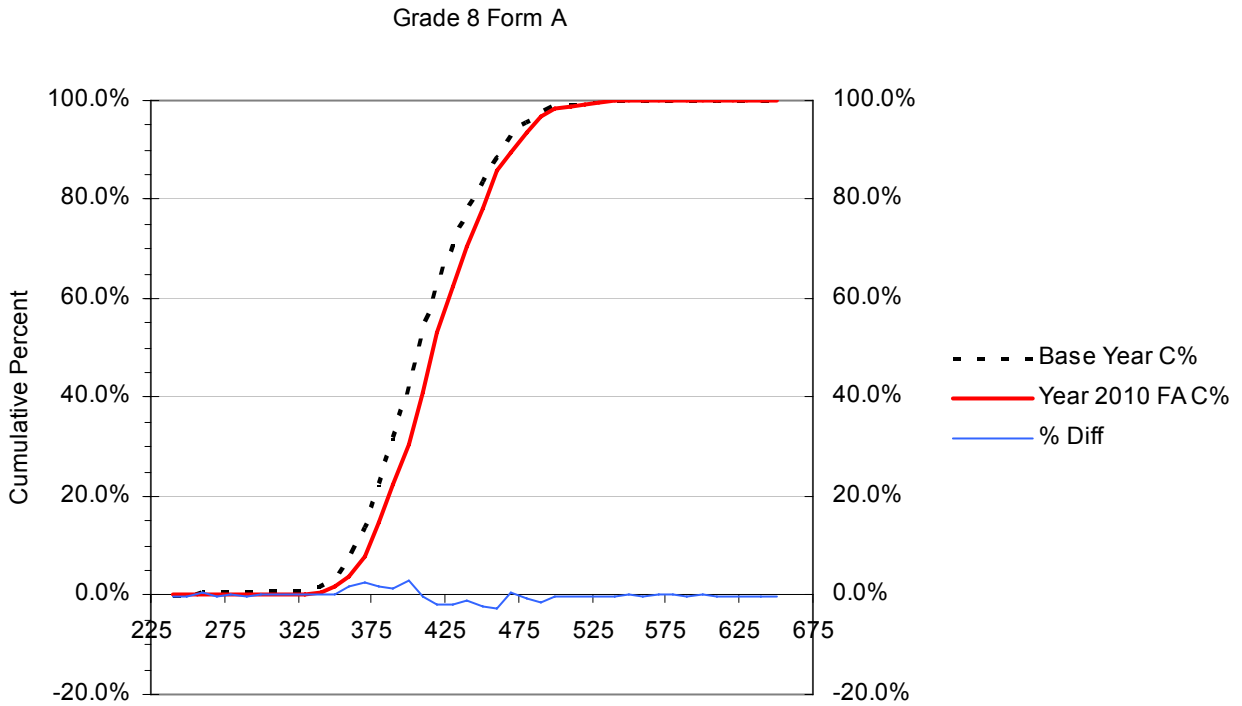
Year 2010 Grade=8 Form=A

Scale Score Midpoint	Freq	Cum. Freq	Percent	Cum. Percent
240	9	9	0.03	0.03
250	0	9	0.00	0.03
260	0	9	0.00	0.03
270	0	9	0.00	0.03
280	0	9	0.00	0.03
290	18	27	0.06	0.09
300	0	27	0.00	0.09
310	14	41	0.05	0.14
320	15	56	0.05	0.18
330	33	89	0.11	0.29
340	**	132	0.44	0.73
350	****	319	1.05	1.78
360	*****	618	2.04	3.82
370	*****	1179	3.89	7.70
380	*****	2131	7.03	14.73
390	*****	2370	7.81	22.54
400	*****	2469	8.14	30.68
410	*****	3160	10.42	41.10
420	*****	3599	11.87	52.97
430	*****	2811	9.27	62.24
440	*****	2539	8.37	70.61
450	*****	2353	7.76	78.37
460	*****	2220	7.32	85.68
470	*****	1213	4.00	89.68
480	*****	1109	3.66	93.34
490	*****	979	3.23	96.57
500	*****	501	1.65	98.22
510	***	199	0.66	98.88
520	**	151	0.50	99.37
530	*	88	0.29	99.66
540	*	66	0.22	99.88
550	,	0	0.00	99.88
560	,	30	0.10	99.98
570	,	0	0.00	99.98
580	,	0	0.00	99.98
590	,	0	0.00	99.98
600	,	0	0.00	99.98
610	,	0	0.00	99.98
620	,	0	0.00	99.98
630	,	0	0.00	99.98
640	,	0	0.00	99.98
650	,	6	0.02	100.00

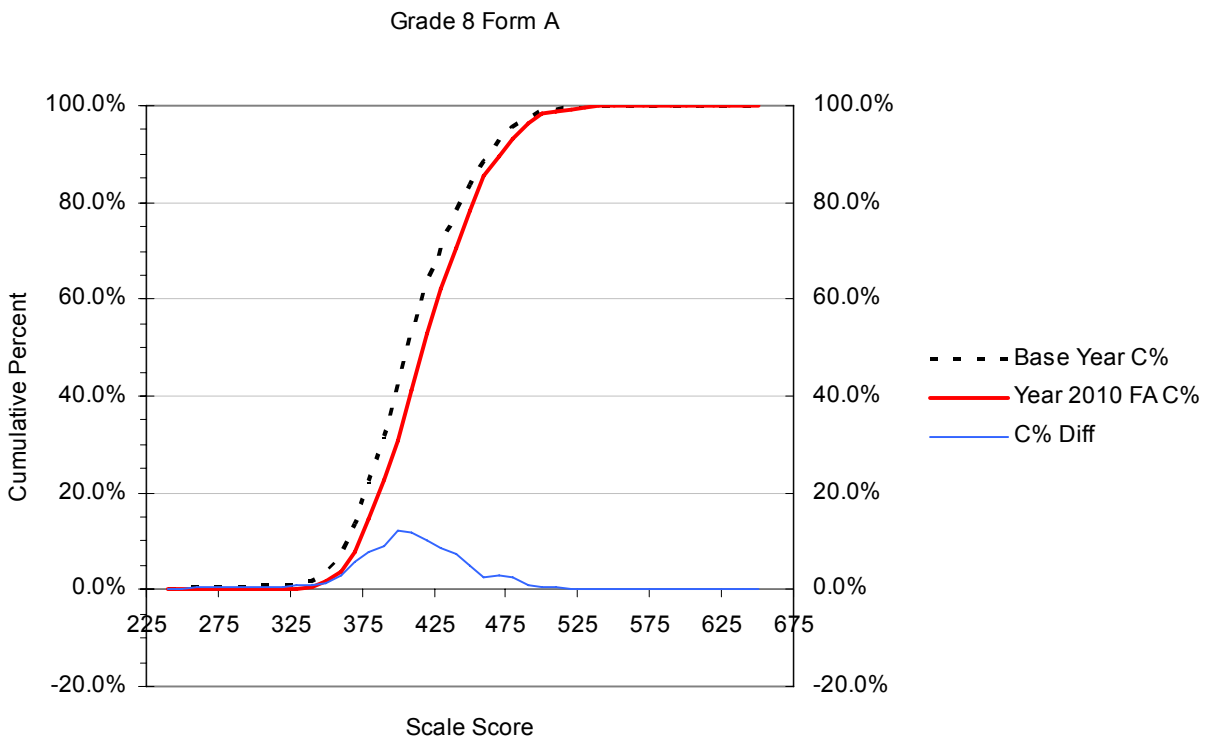
  

^^^^^^^^^^ ^^^^^^^^^^ ^^^^^^^^^^ ^^^^^^^^^^ ^^^^^^^^^^ ^^^^^^^^^^  
 600 1200 1800 2400 3000 3600  
 Frequency

Figure B.37 Year 2010 Scale Score Distribution: Grade 8 Form A

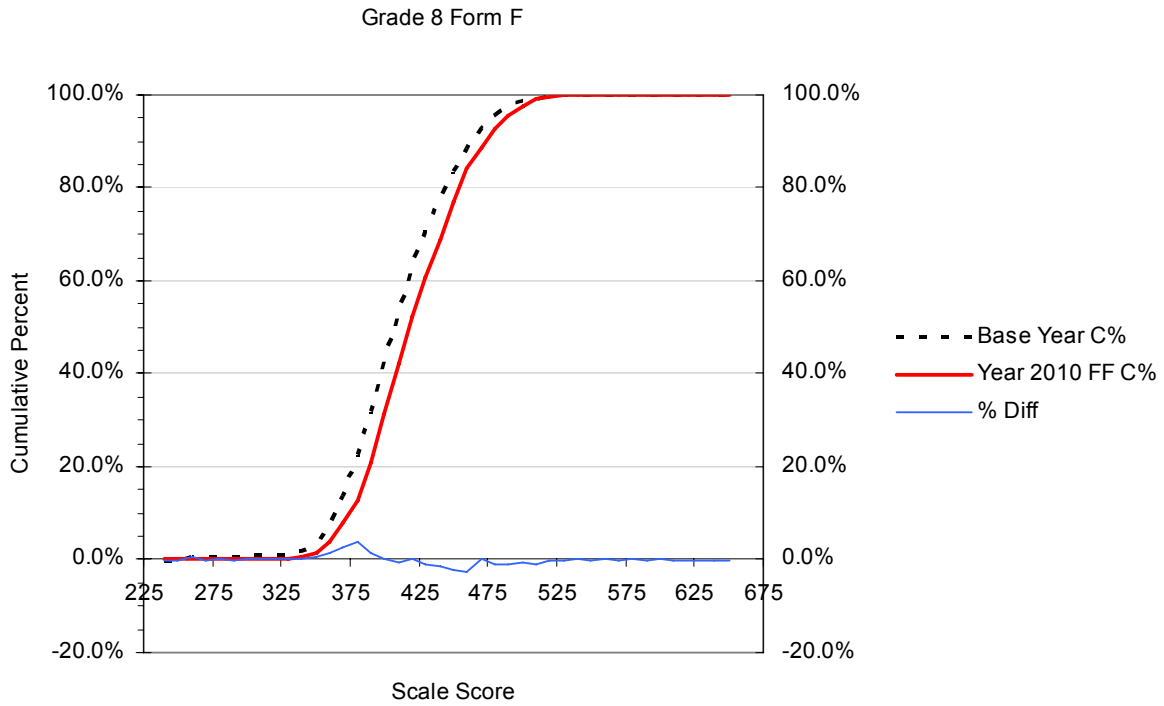


**Figure B.38 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 8 Form A**

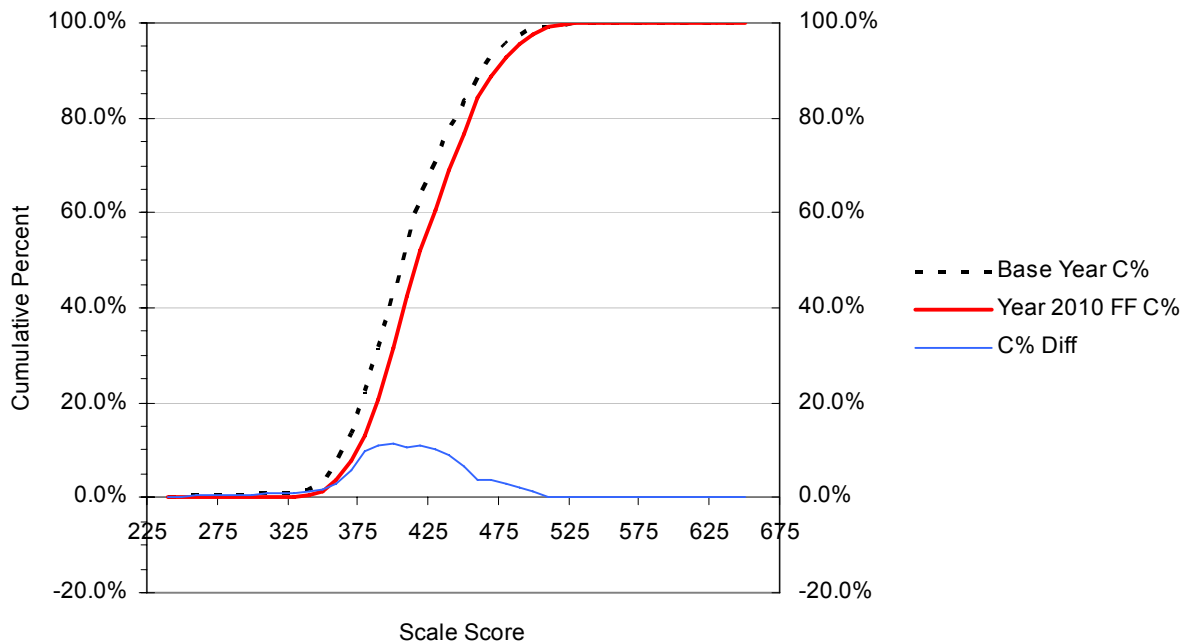


**Figure B.39 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 8 Form A**





**Figure B.41 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Percent Differences between CDFs: Grade 8 Form F**



**Figure B.42 Cumulative Distribution Functions (CDFs) for the Year 2006 vs. Year 2010 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 8 Form F**