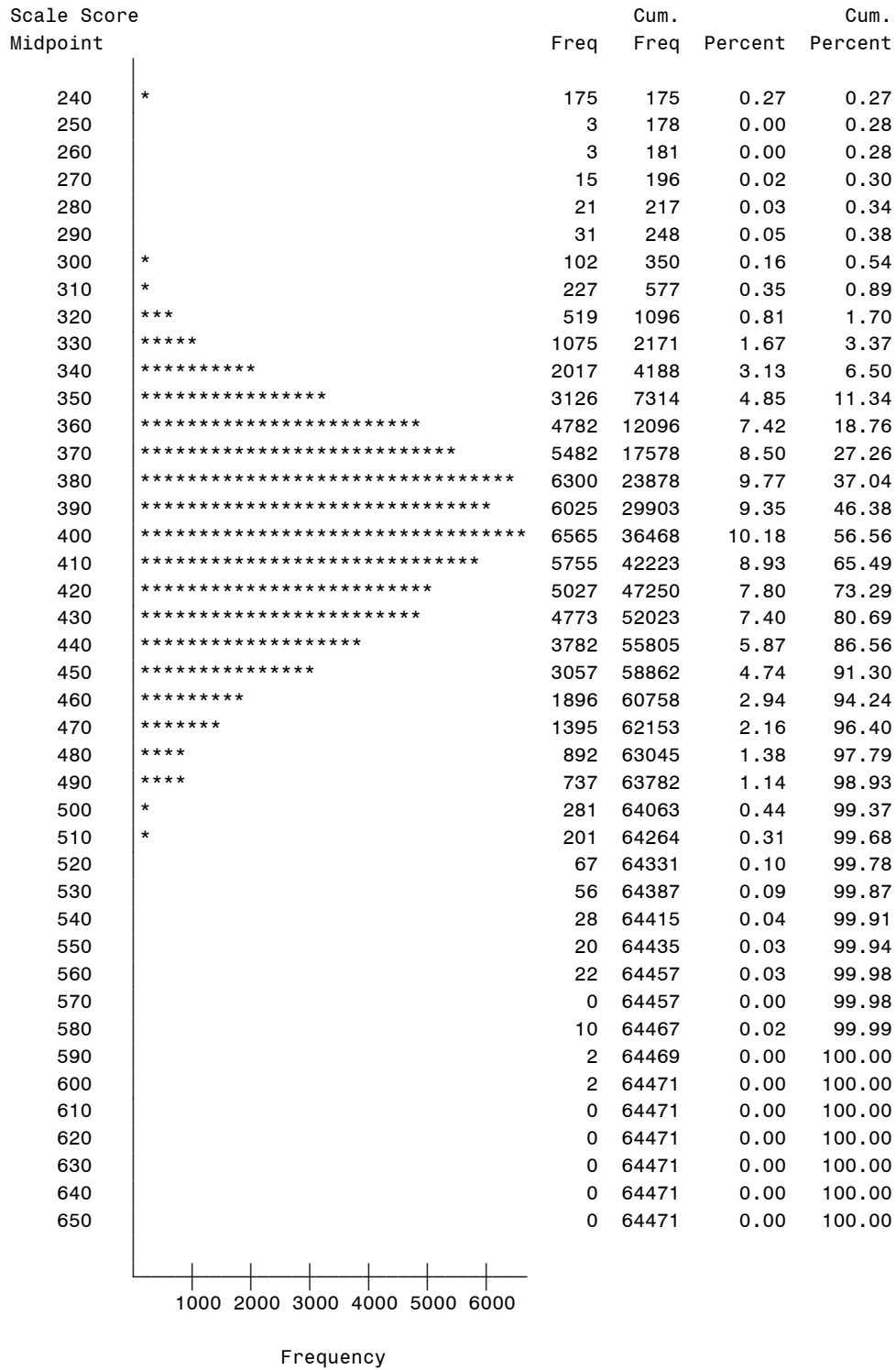


## **APPENDIX B: SCALE SCORE HISTOGRAMS AND TUKEY CHARTS**

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**Year 2003 Grade=3 (Base Year)**



**Figure B.1 Year 2003 Scale Score Distribution: Grade3**

Year 2009 Grade=3 Form A

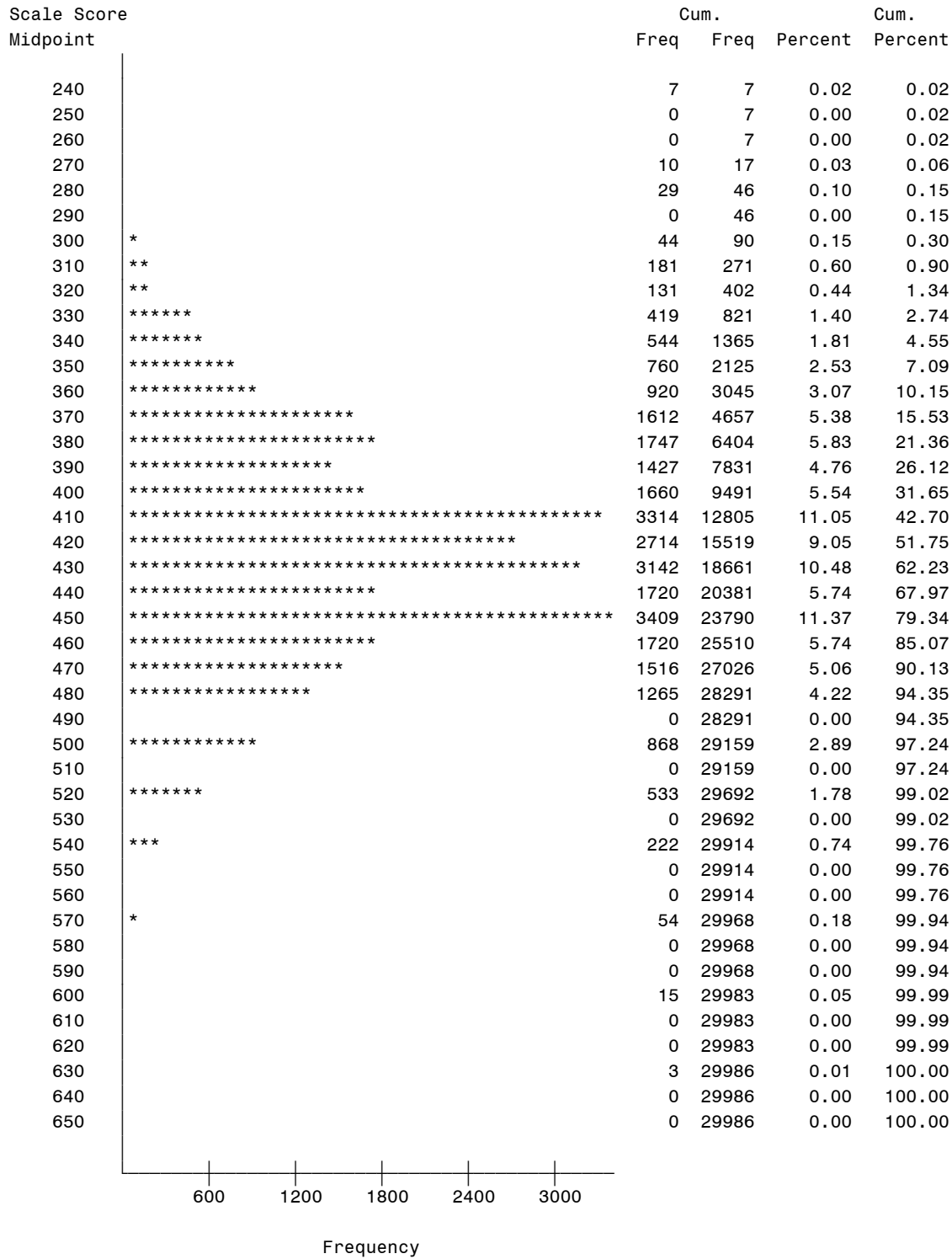
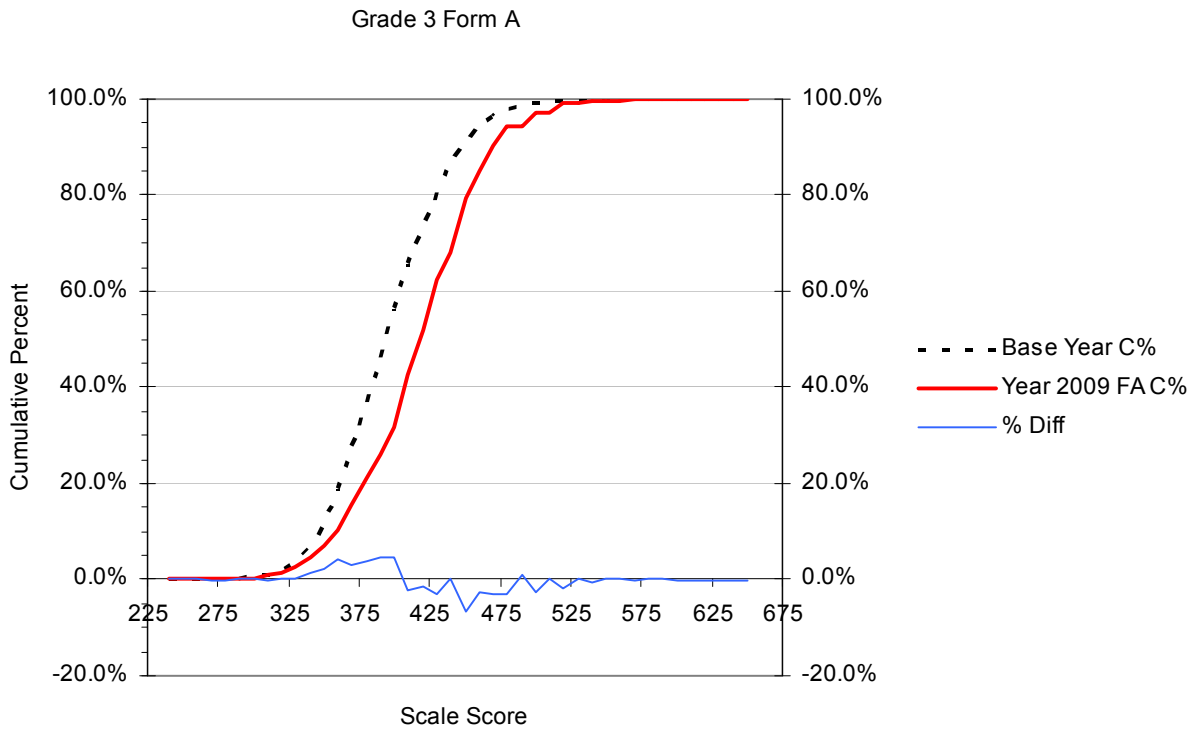
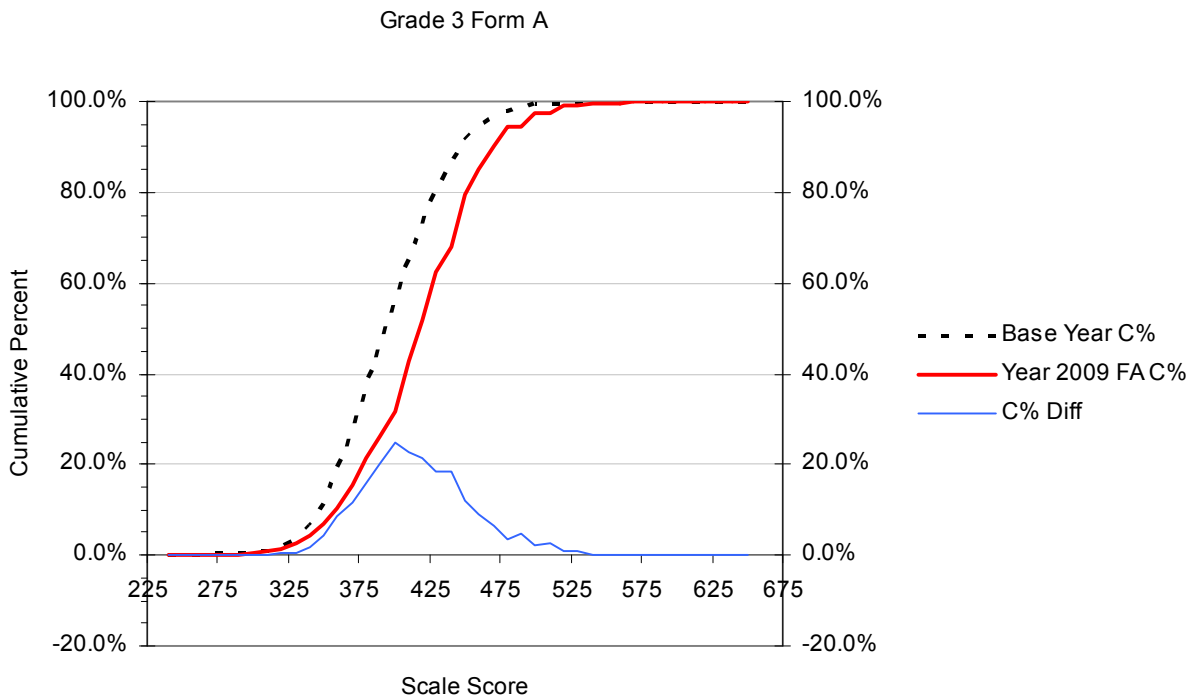


Figure B.2 Year 2009 Scale Score Distribution: Grade 3 Form A



**Figure B.3 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 3 Form A**



**Figure B.4 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 3 Form A**

Year 2009 Grade=3 Form B

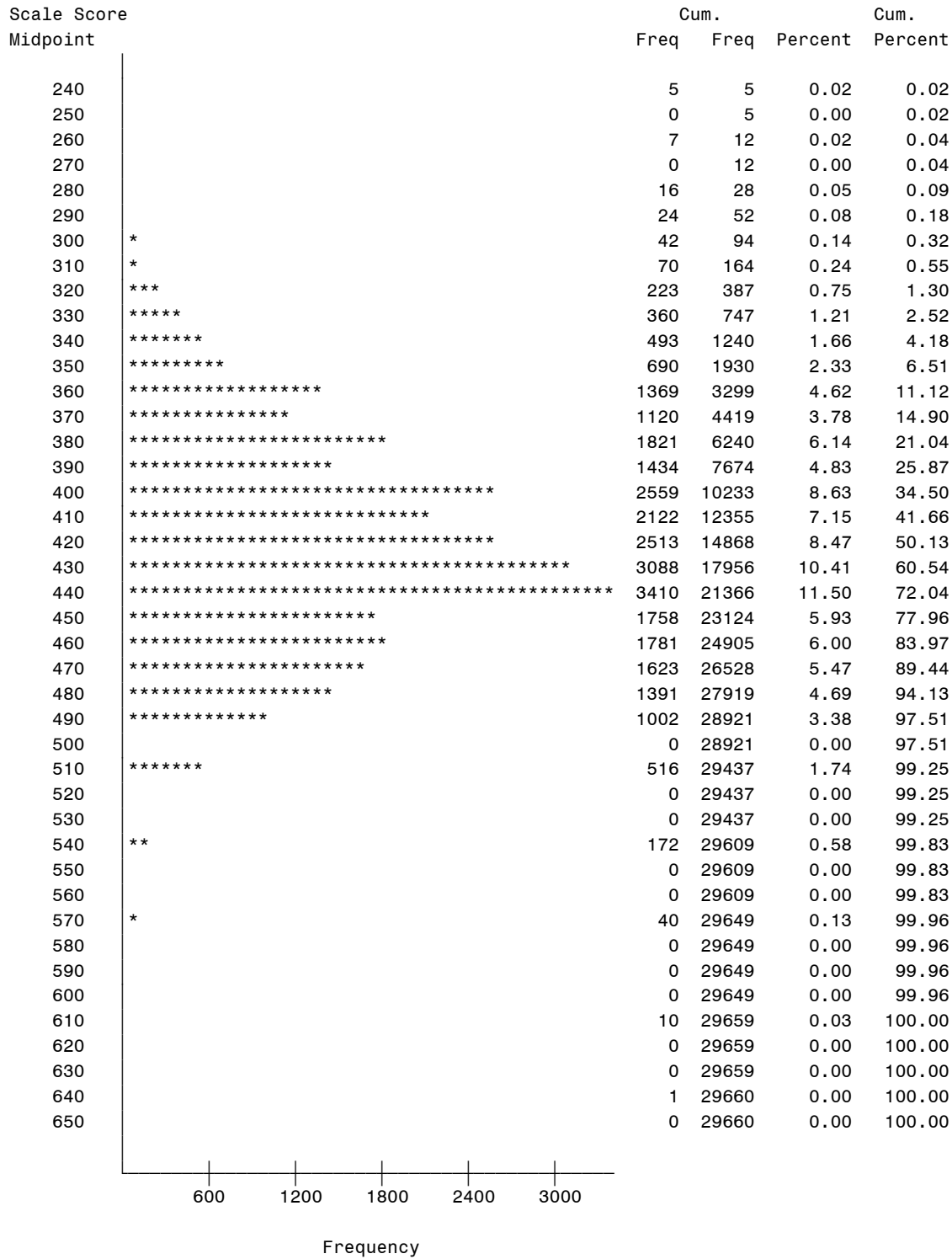
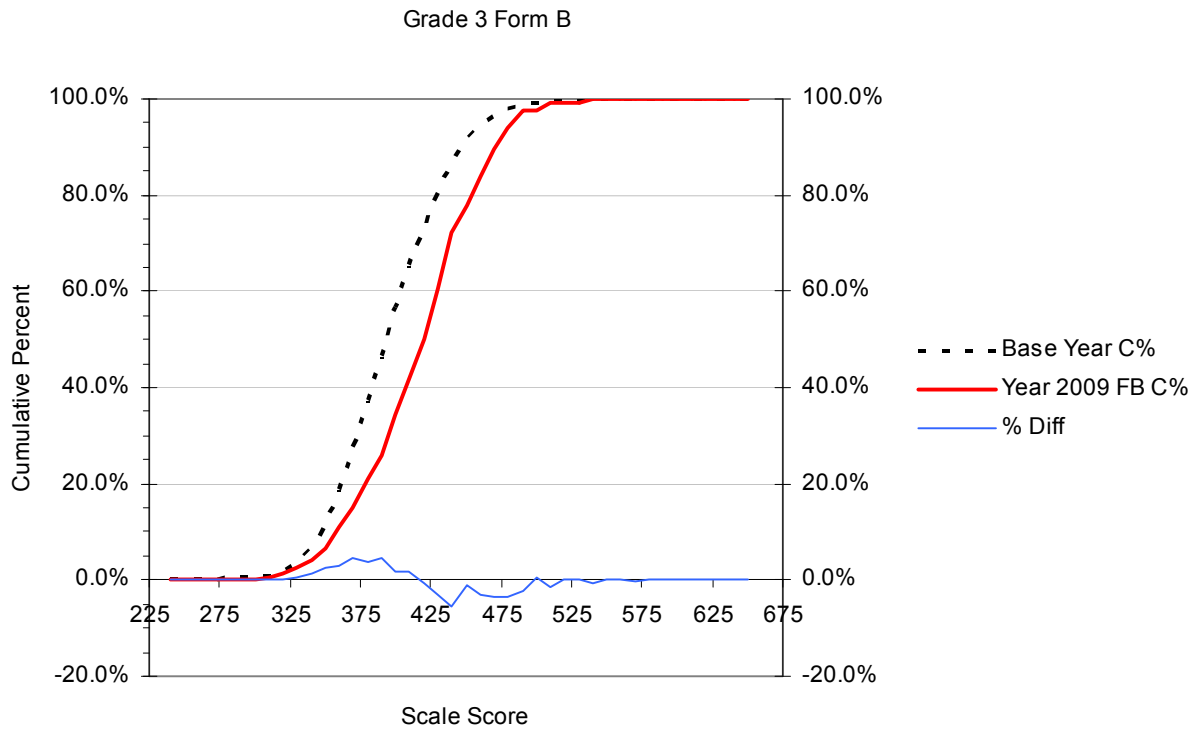
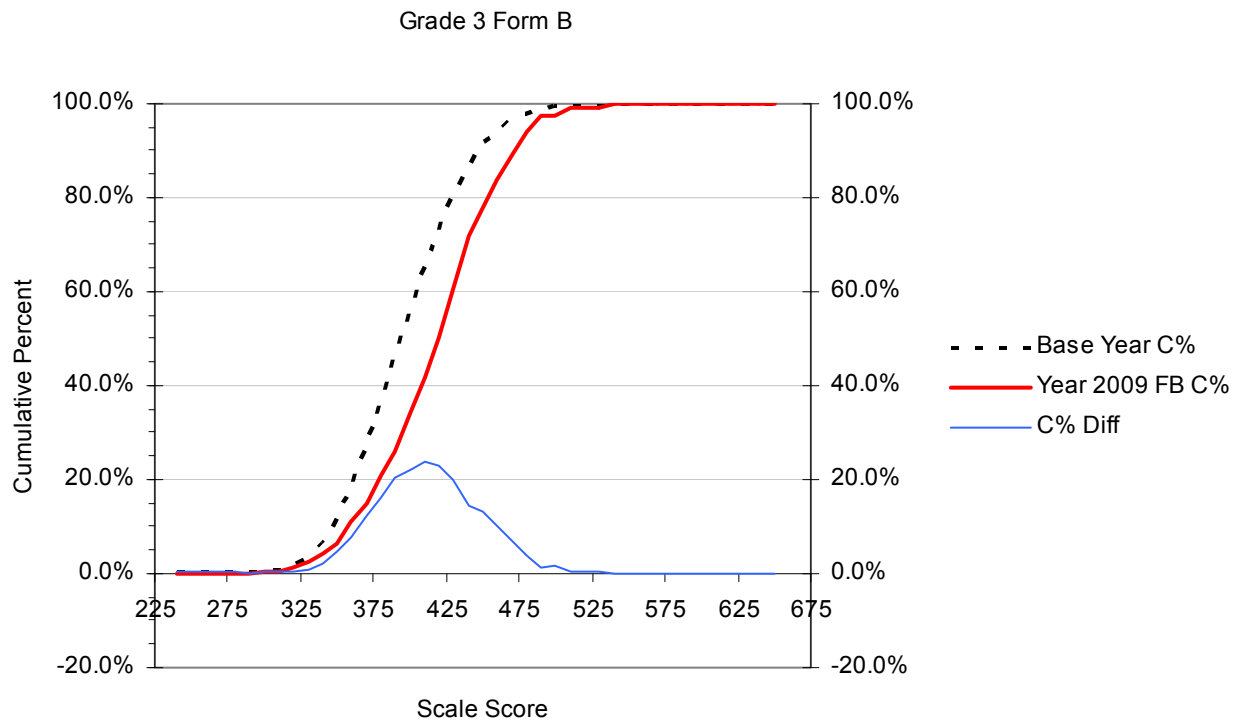


Figure B.5 Year 2009 Scale Score Distribution: Grade 3 Form B

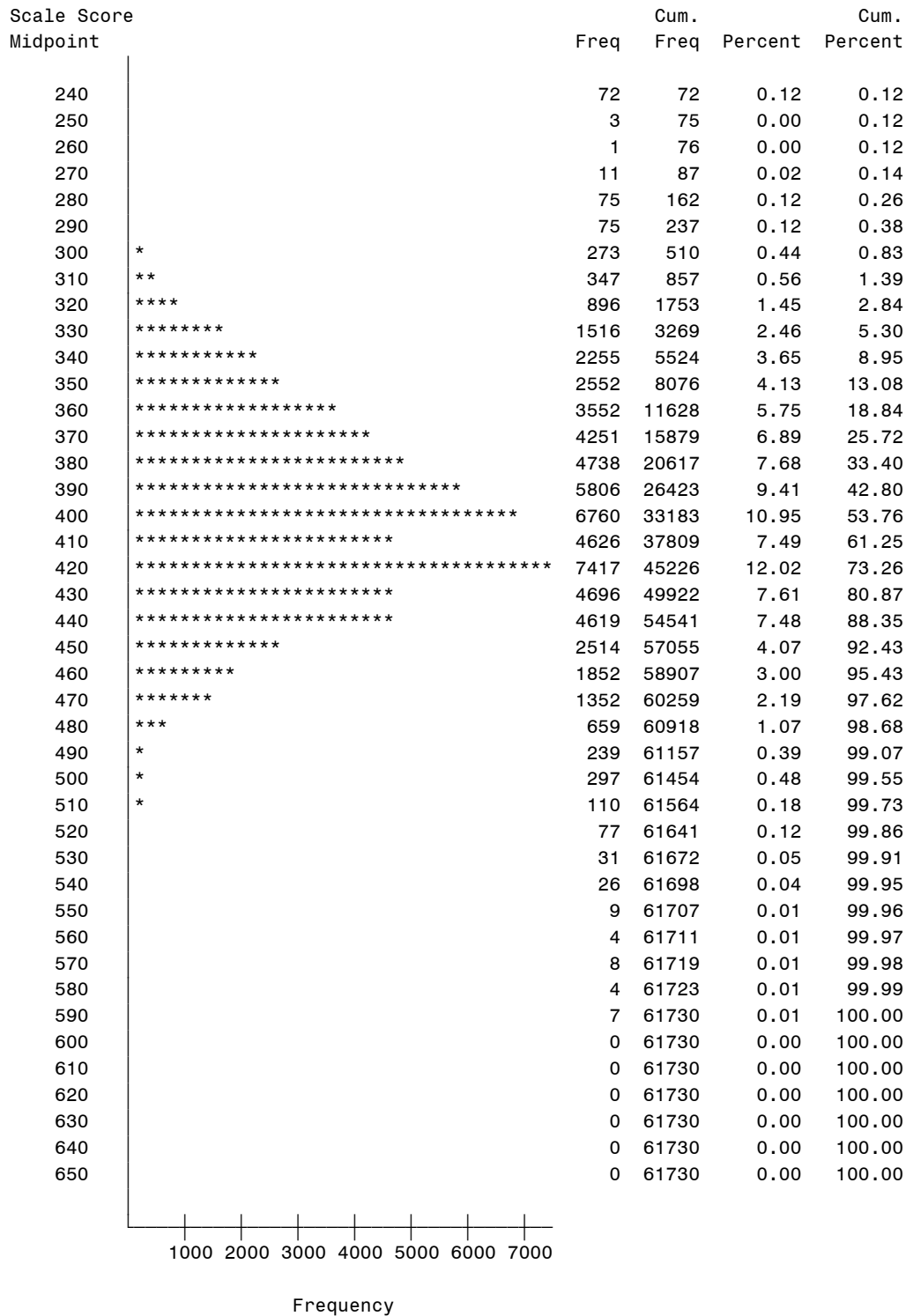


**Figure B.6 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 3 Form B**



**Figure B.7 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 3 Form B**

**Year 2004 Grade=4 (Base Year)**



**Figure B.8 Year 2004 Scale Score Distribution: Grade 4**

Year 2009 Grade=4 Form A

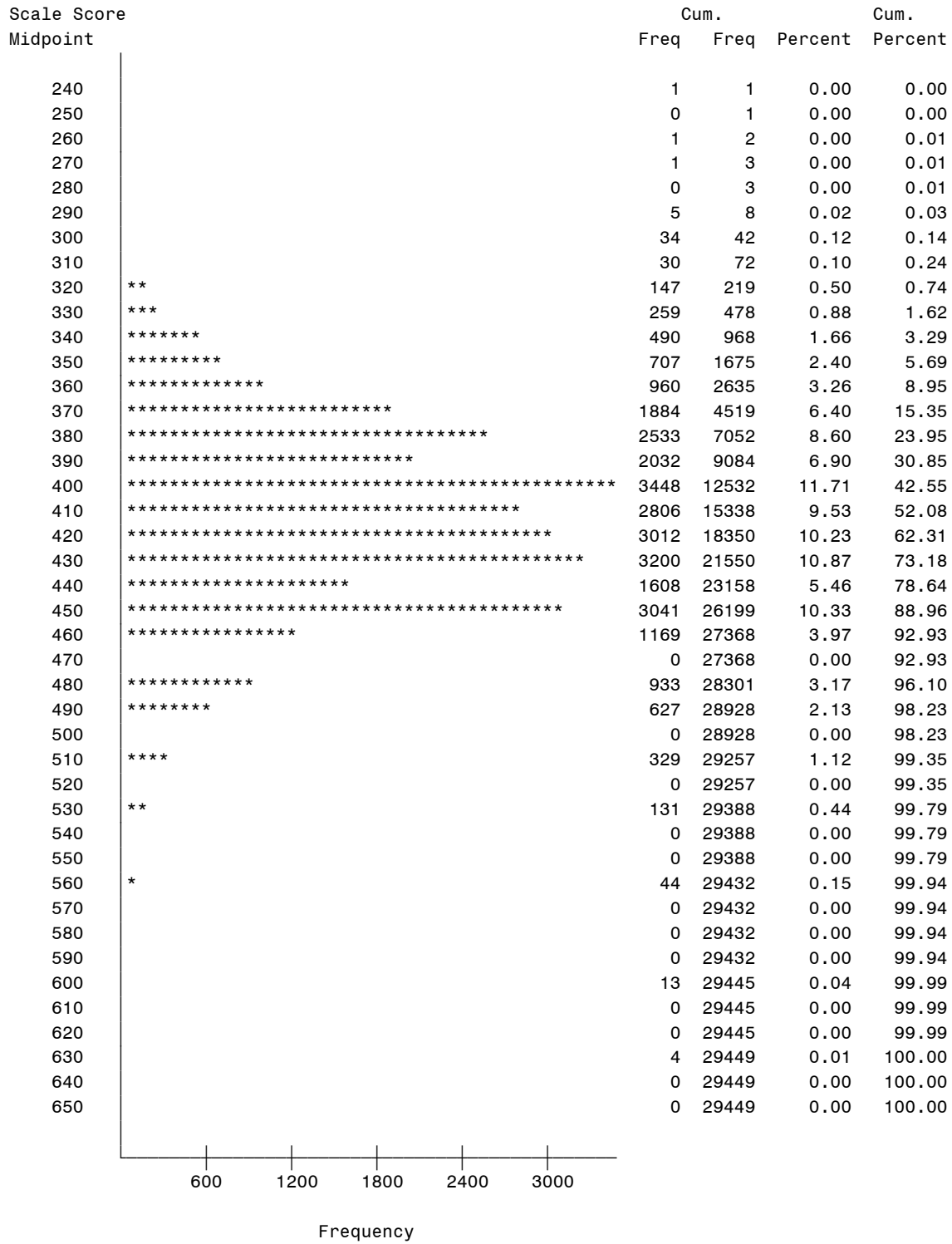
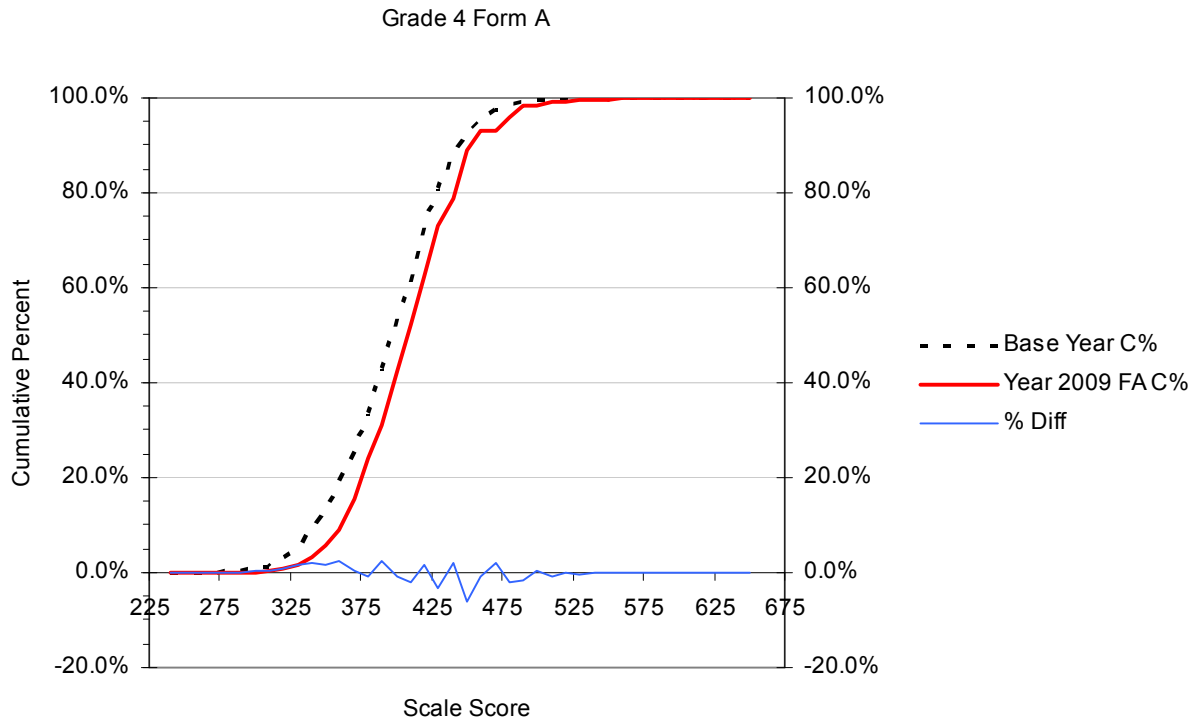
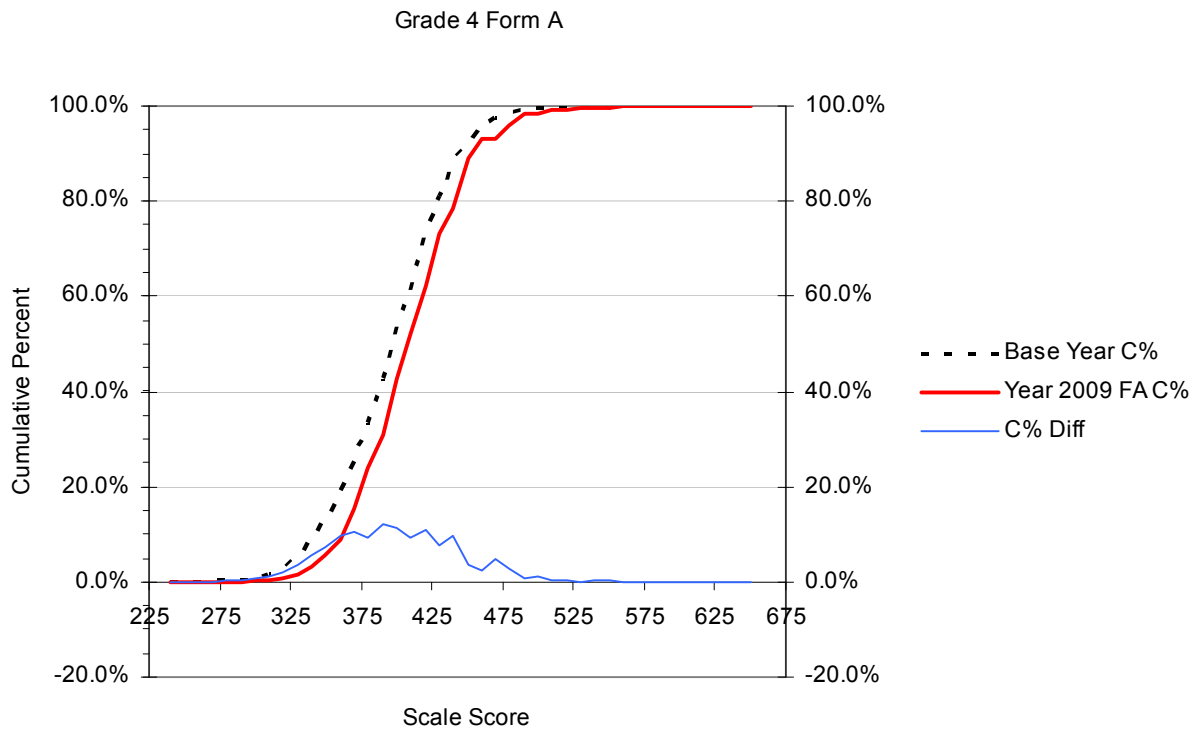


Figure B.9 Year 2009 Scale Score Distribution: Grade 4 Form A





**Figure B.10 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 4 Form A**



**Figure B.11 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Cumulative percent Differences between CDFs: Grade 4 Form A**

Year 2009 Grade=4 Form B

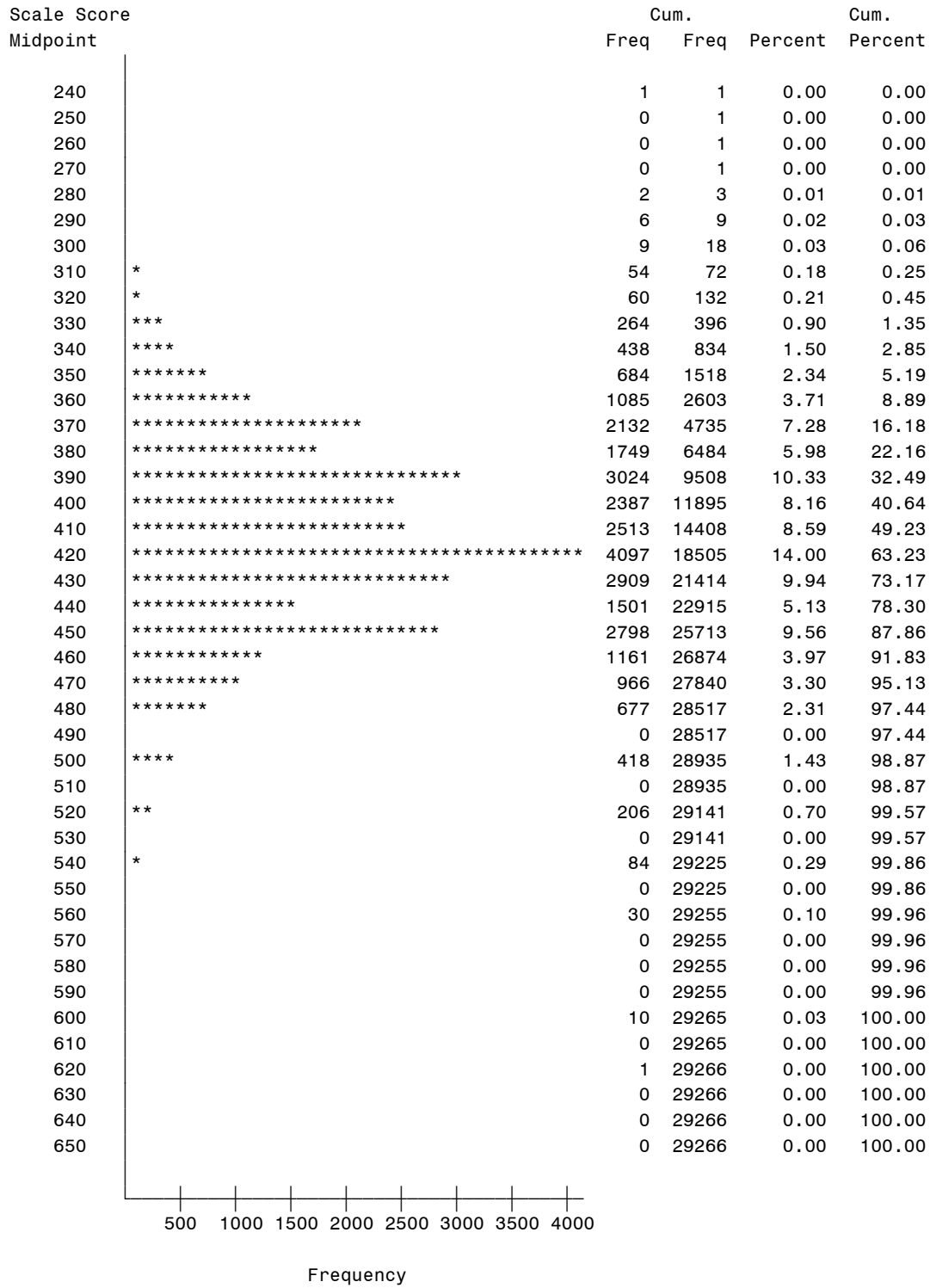
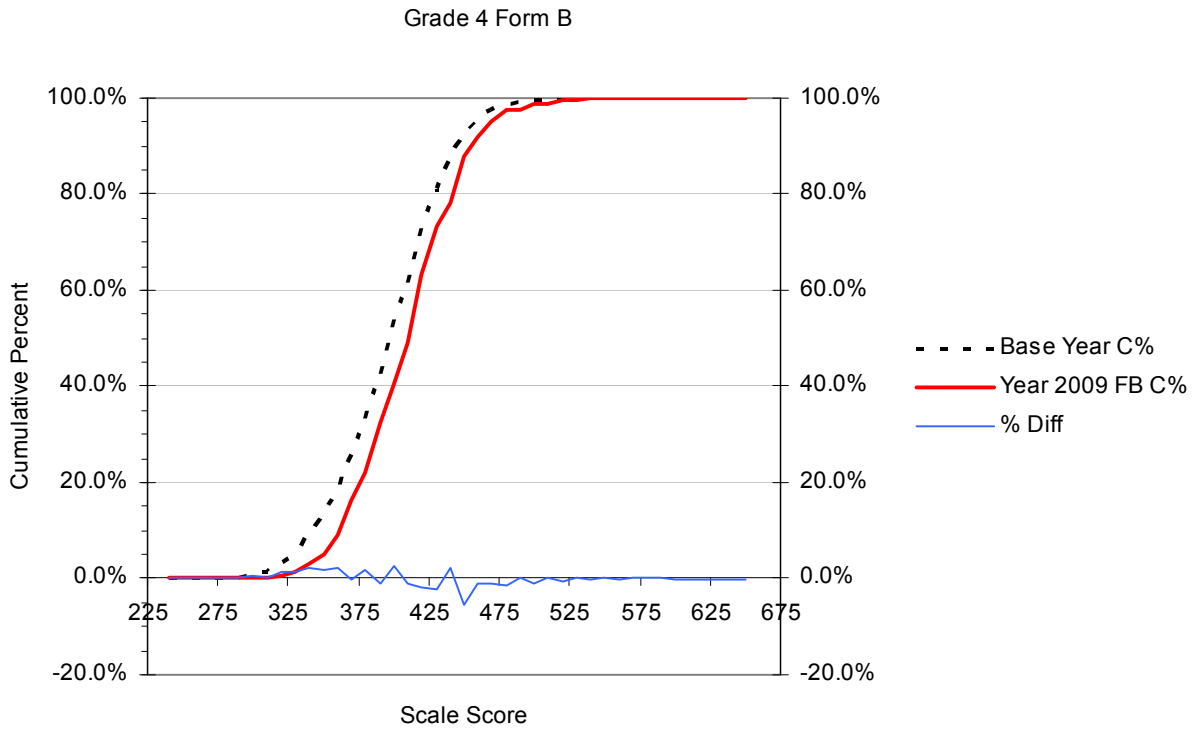
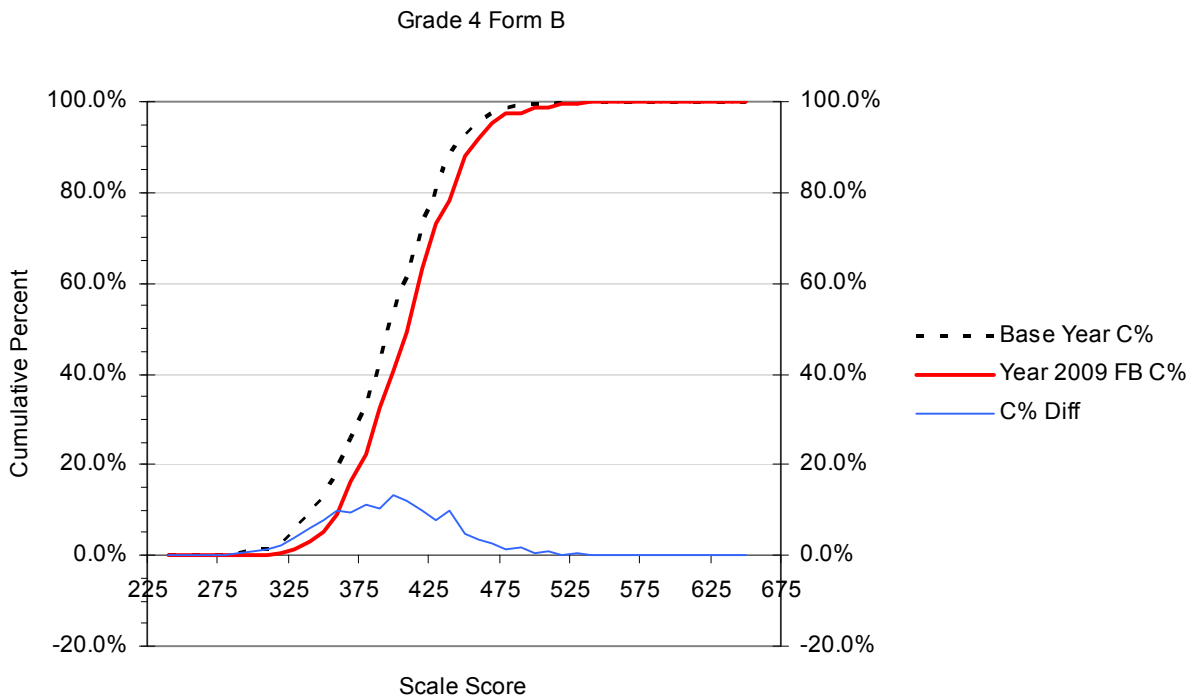


Figure B.12 Year 2009 Scale Score Distribution: Grade 4 Form B

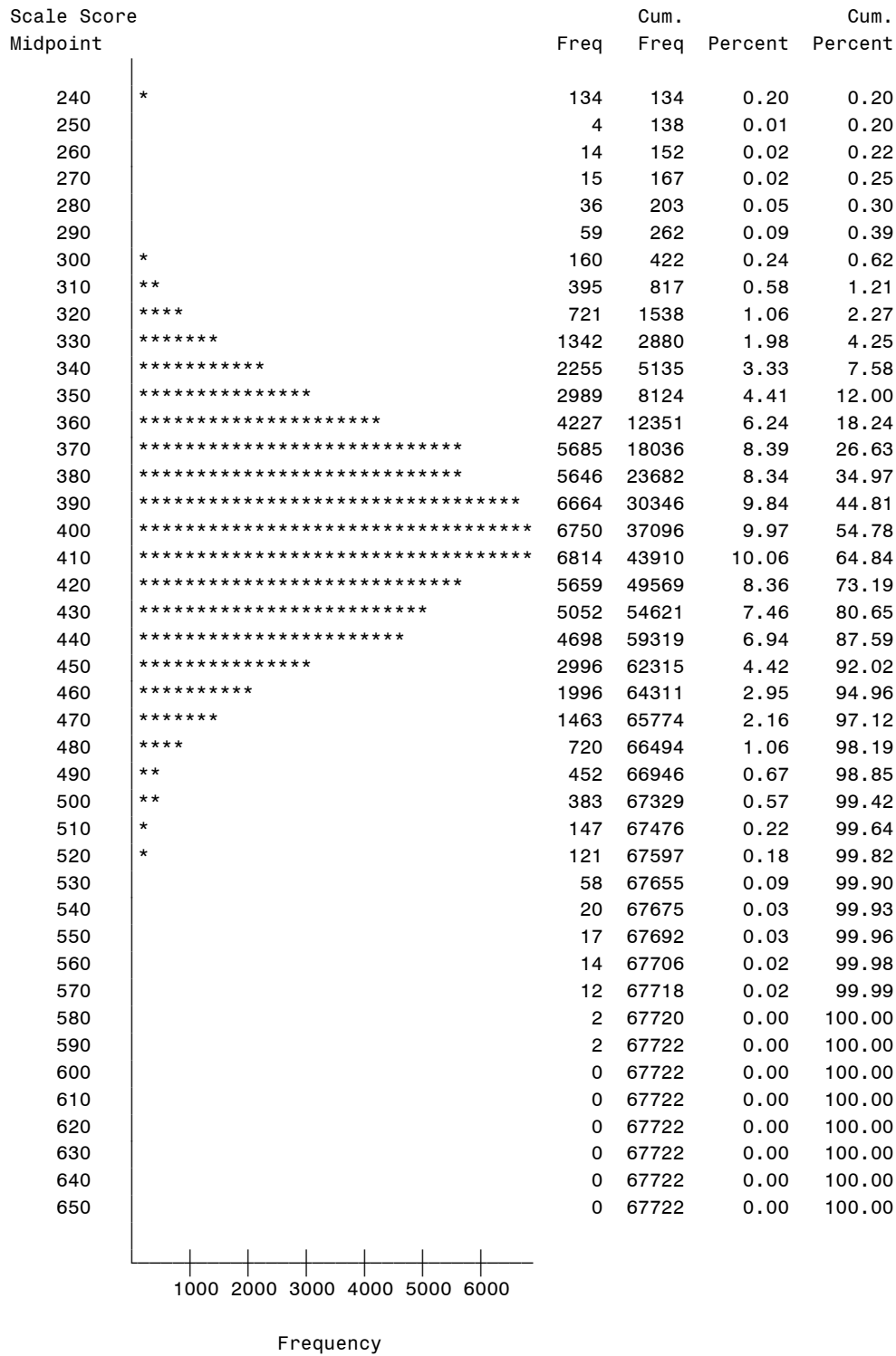


**Figure B.13 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 4 Form B**



**Figure B.14 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Cumulative percent Differences between CDFs: Grade 4 Form B**

**Year 2003 Grade=5 (Base Year)**



**Figure B.15 Year 2003 Scale Score Distribution: Grade 5**

Year 2009 Grade=5 Form A

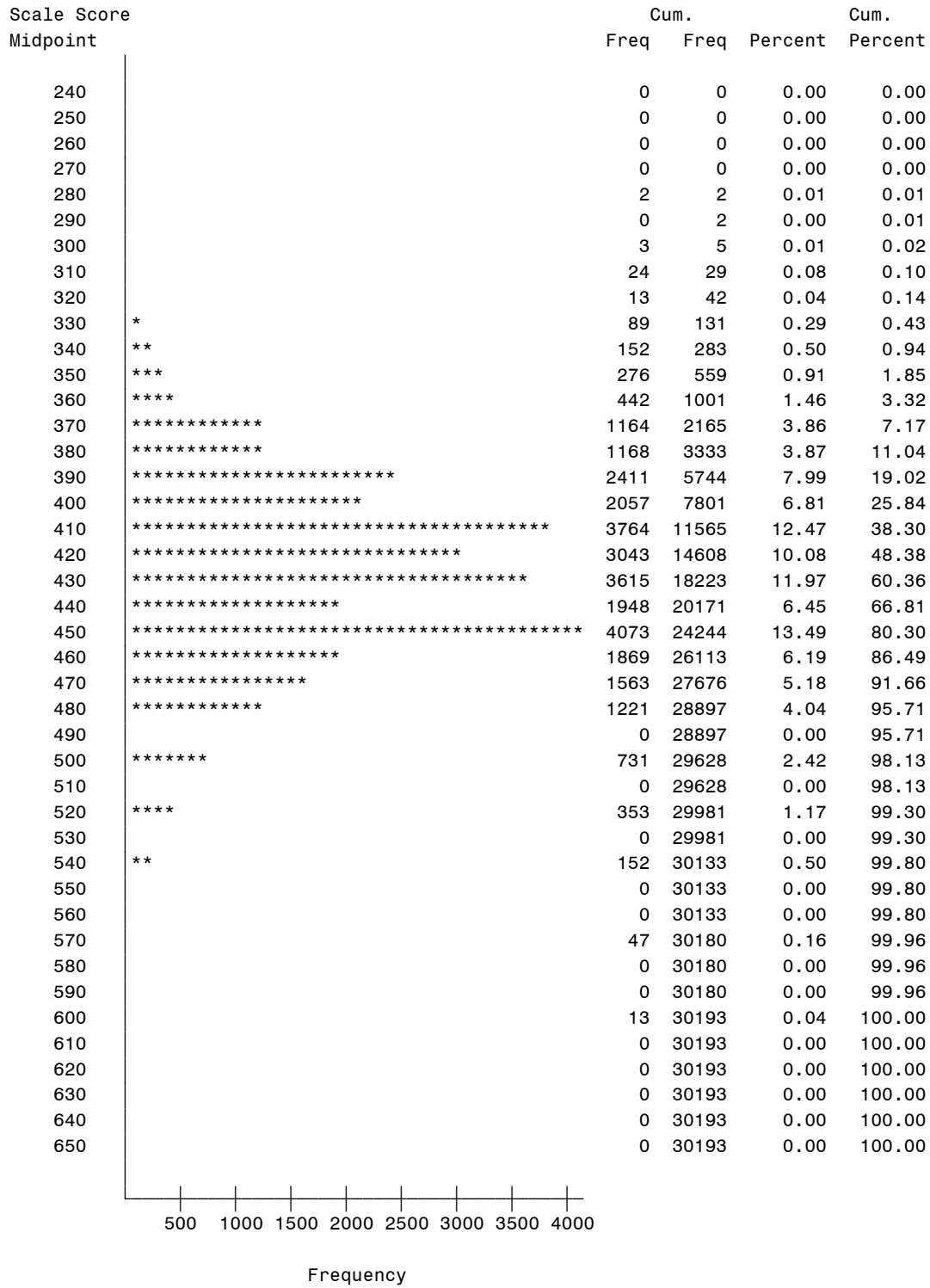
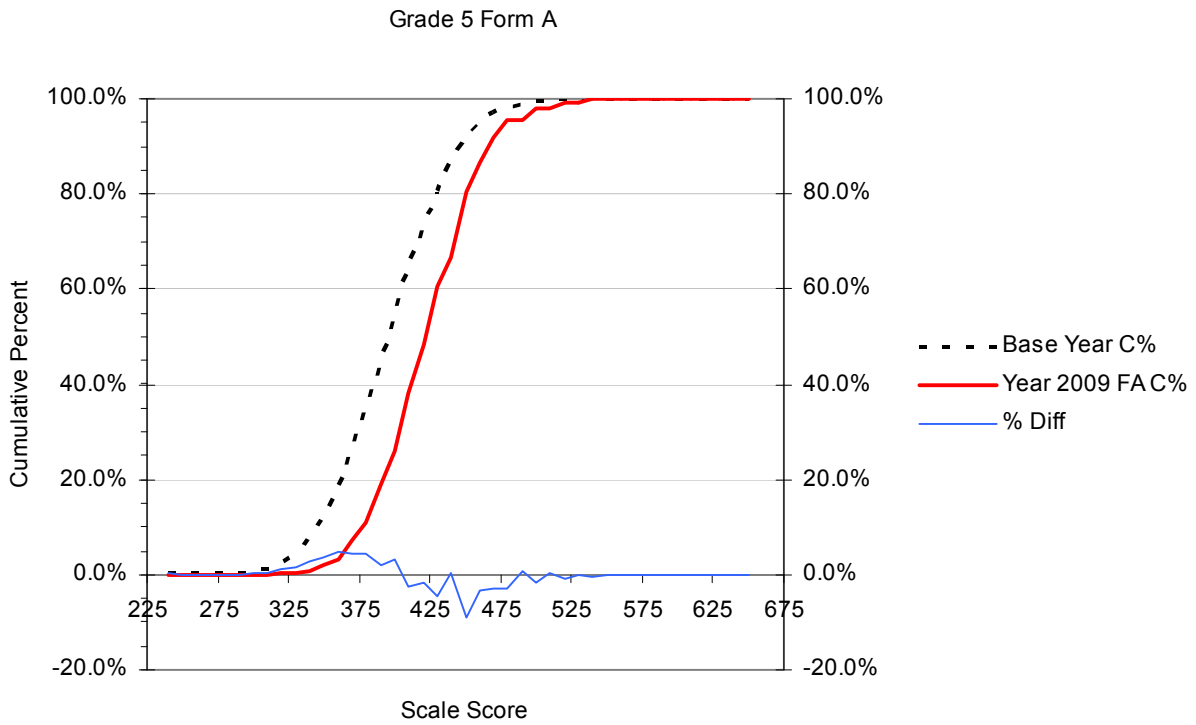
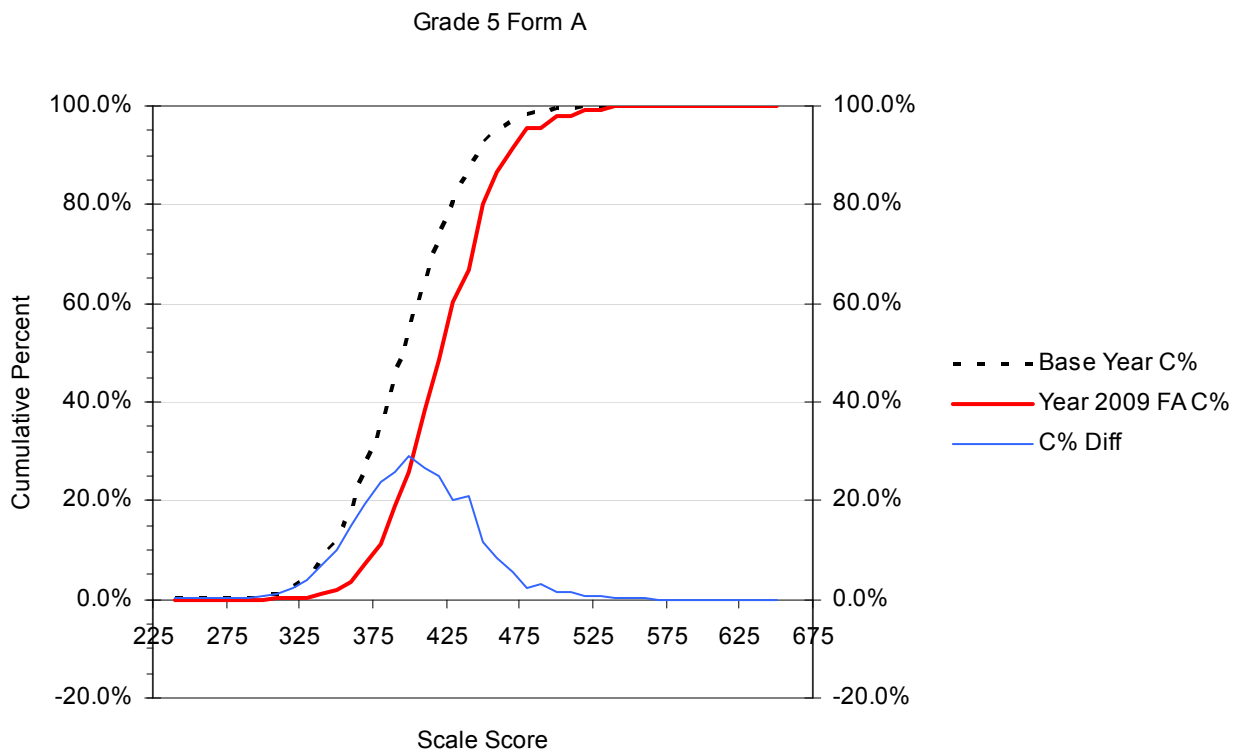


Figure B.16 Year 2009 Scale Score Distribution: Grade 5 Form A



**Figure B.17 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 5 Form A**



**Figure B.18 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 5 Form A**

Year 2009 Grade=5 Form B

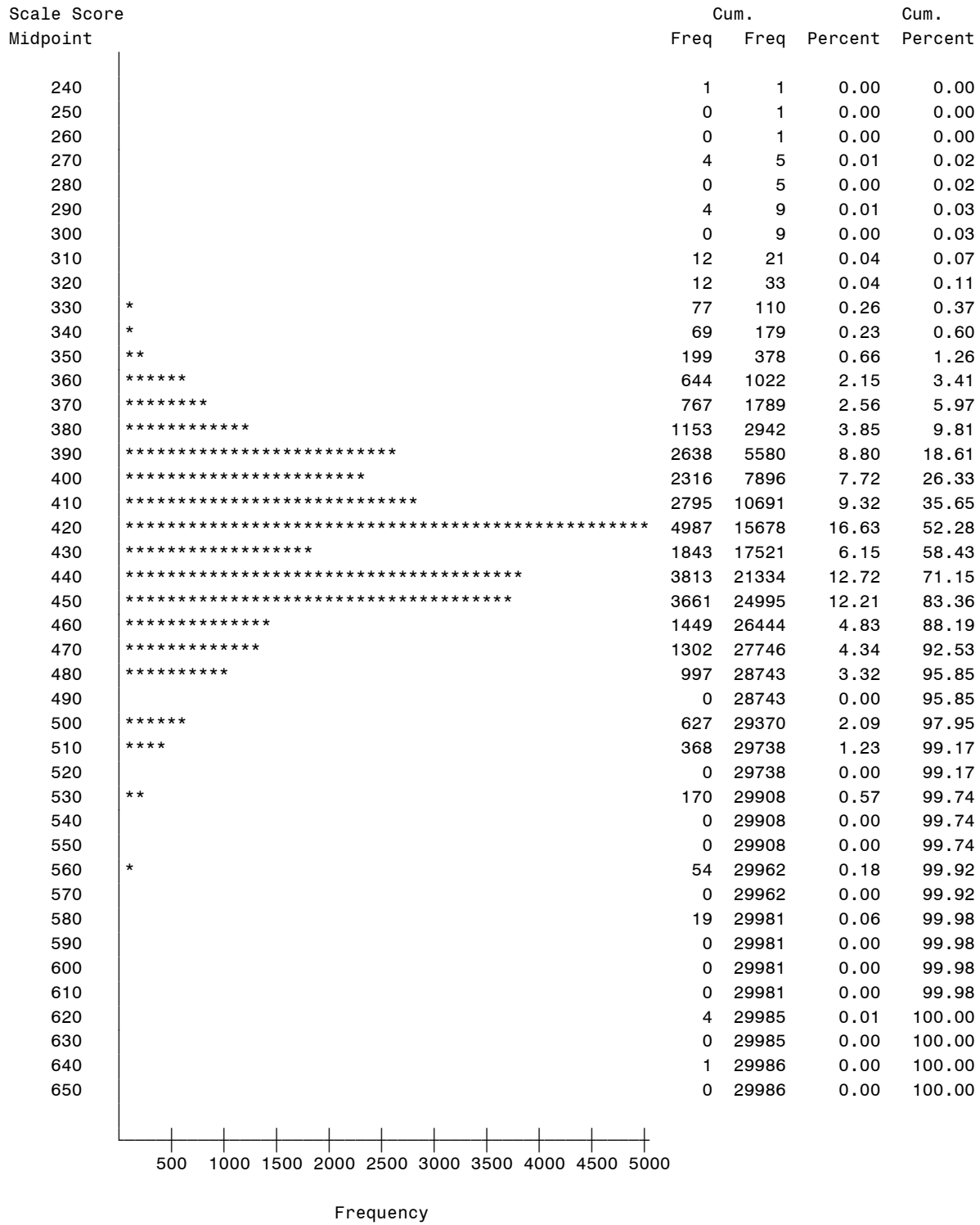
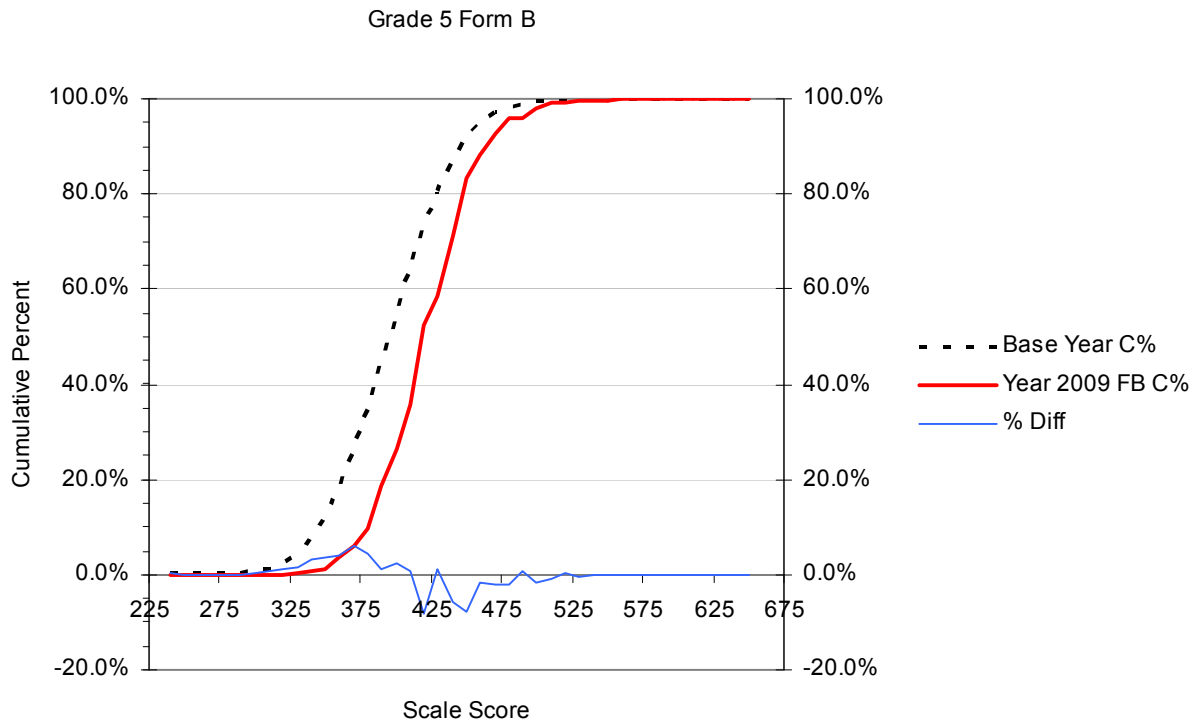
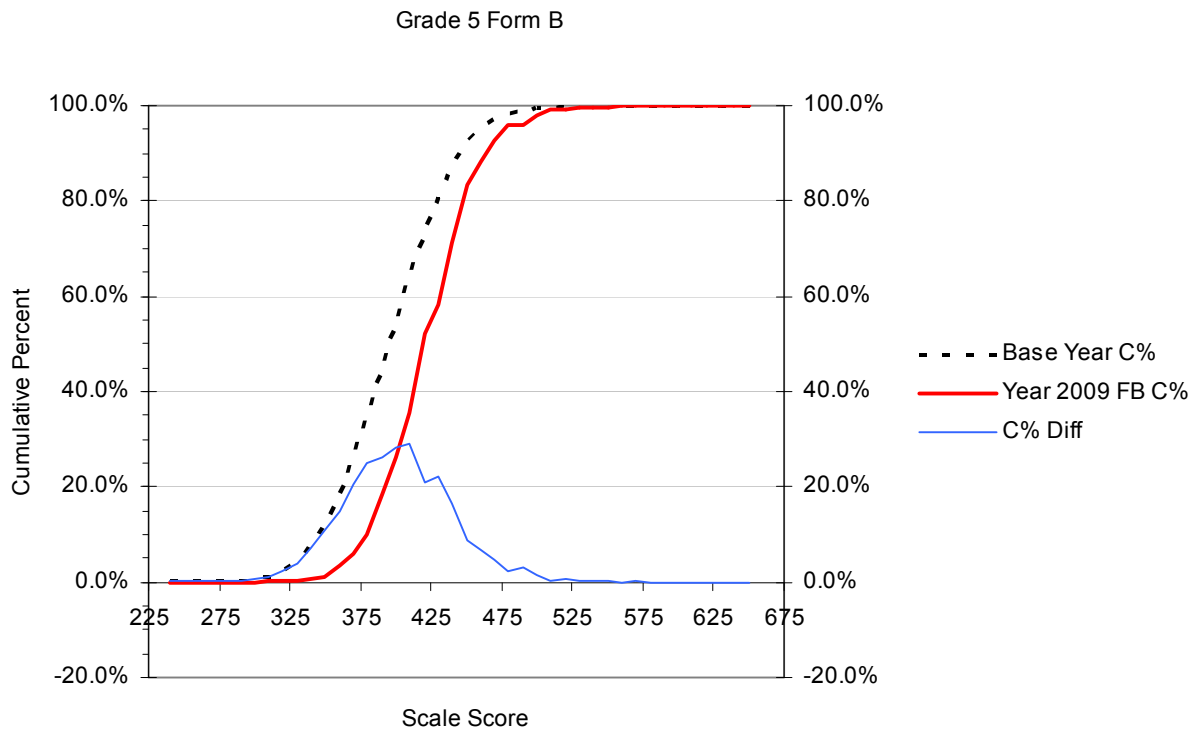


Figure B.19 Year 2009 Scale Score Distribution: Grade 5 Form B



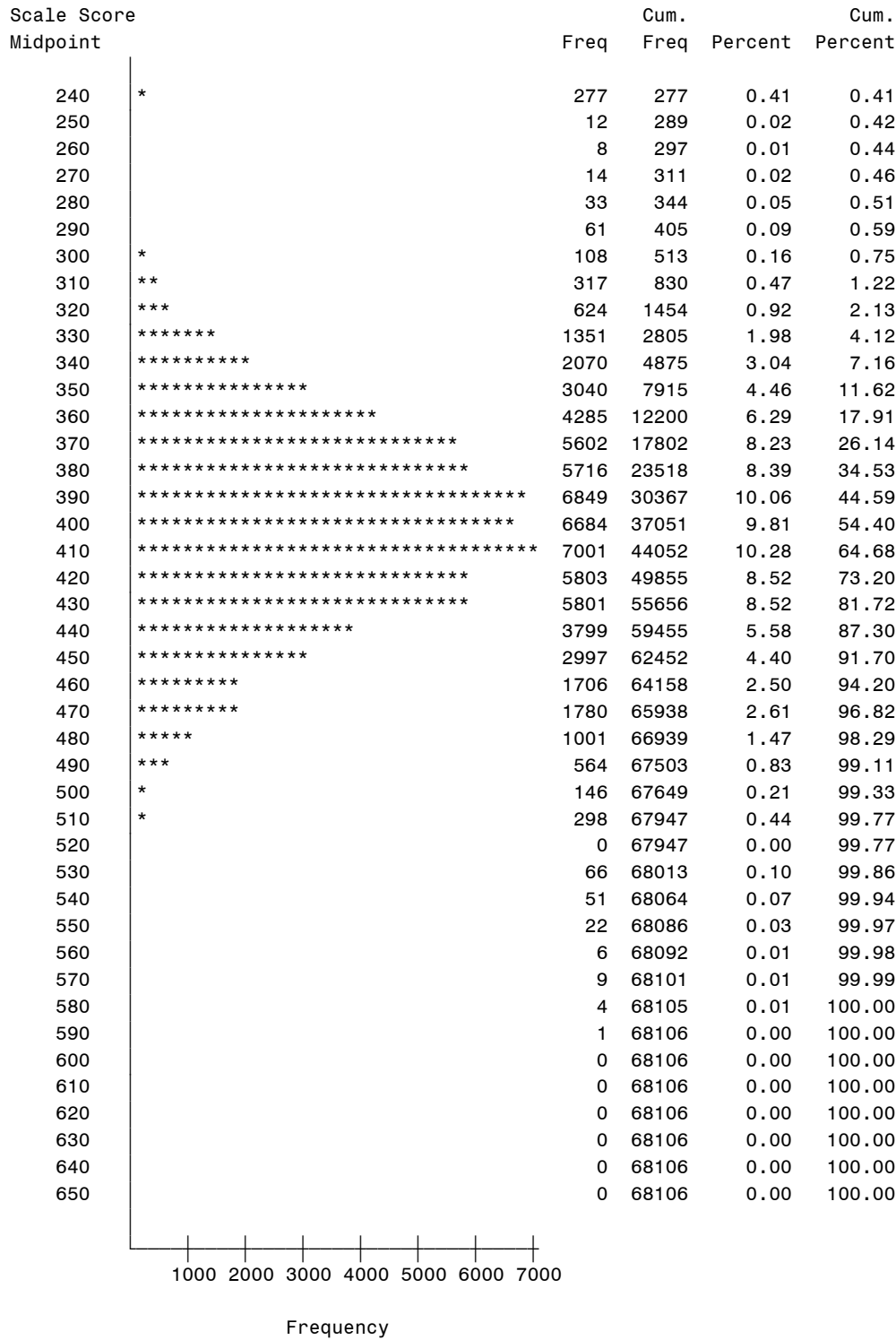
**Figure B.20 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 5 Form B**



**Figure B.21 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 5 Form B**



**Year 2004 Grade=6 (Base Year)**



**Figure B.22 Year 2004 Scale Score Distribution: Grade 6**

Year 2009 Grade=6 Form A

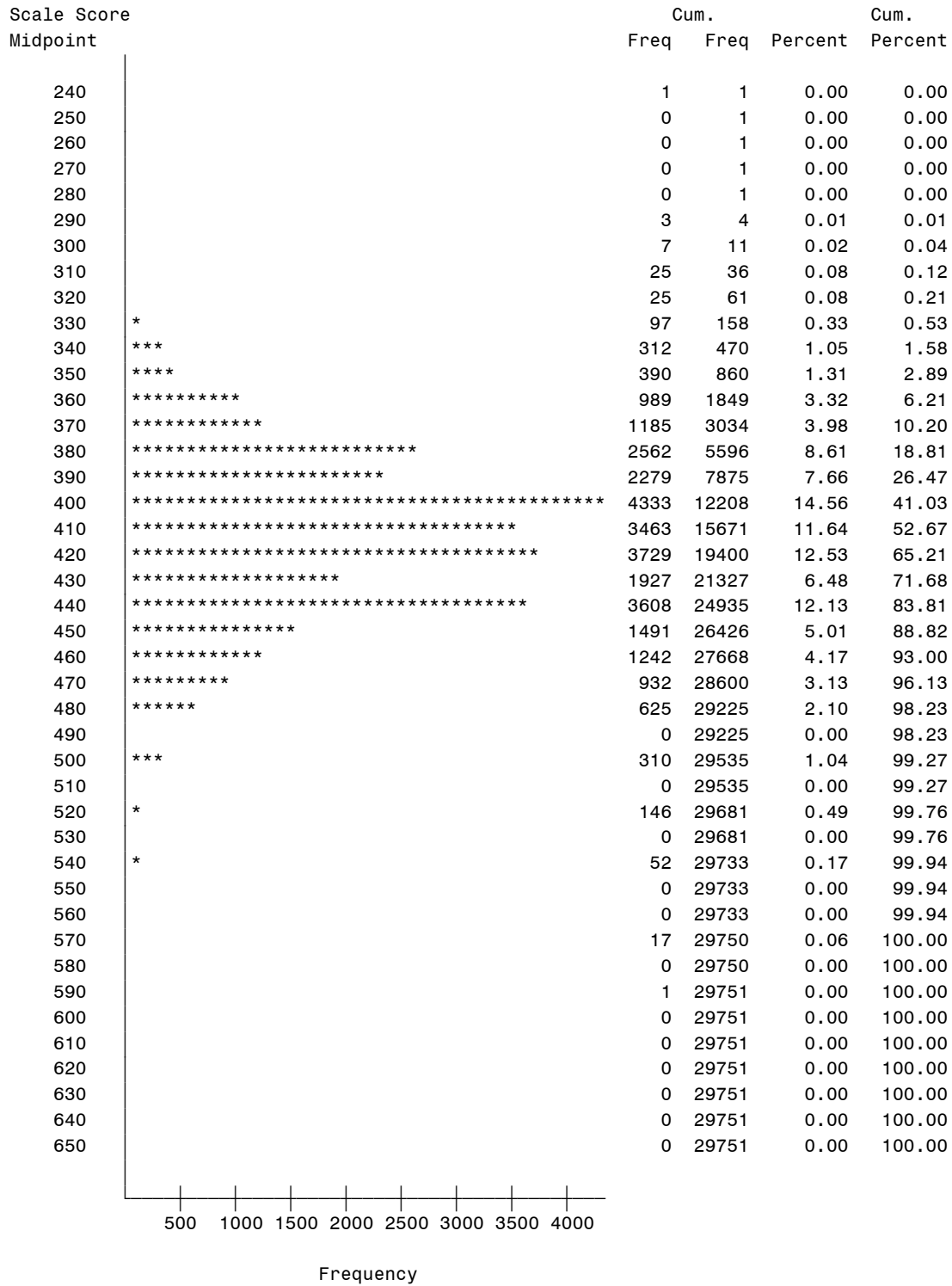
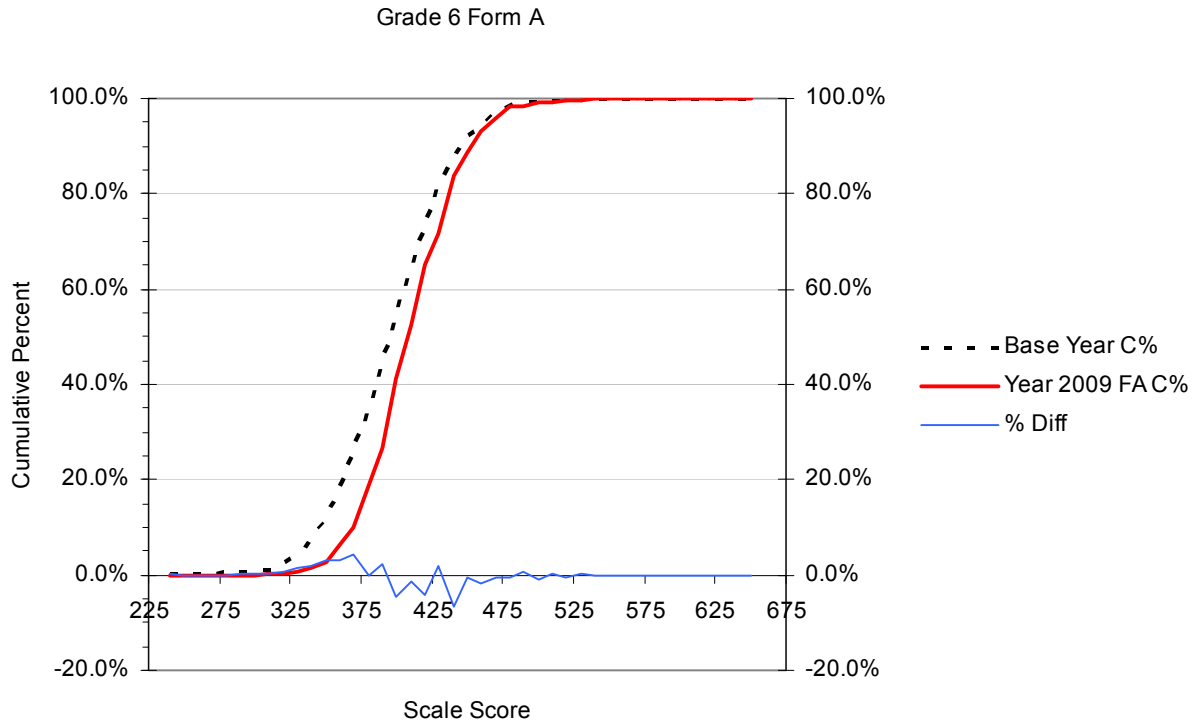
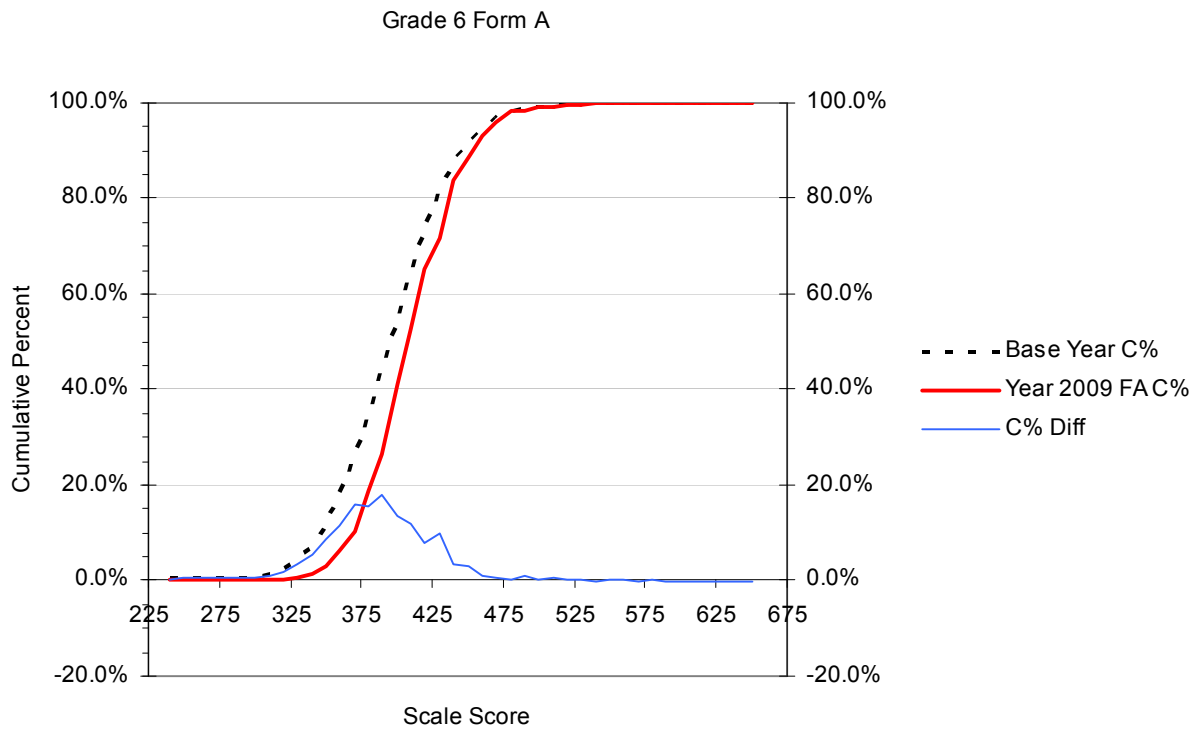


Figure B.23 Year 2009 Scale Score Distribution: Grade 6 Form A



**Figure B.24 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 6 Form A**



**Figure B.25 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 6 Form A**

Year 2009 Grade=6 Form B

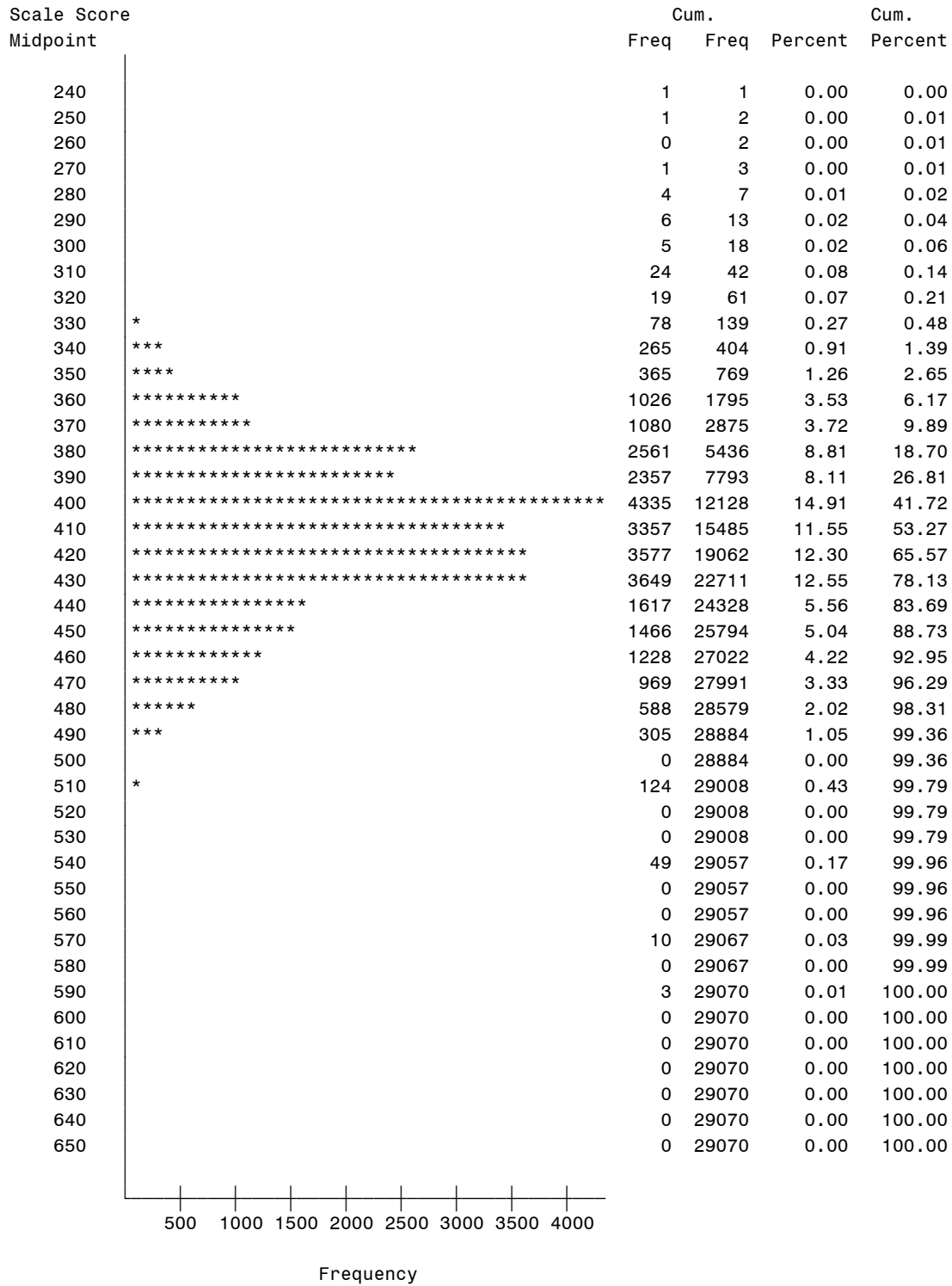
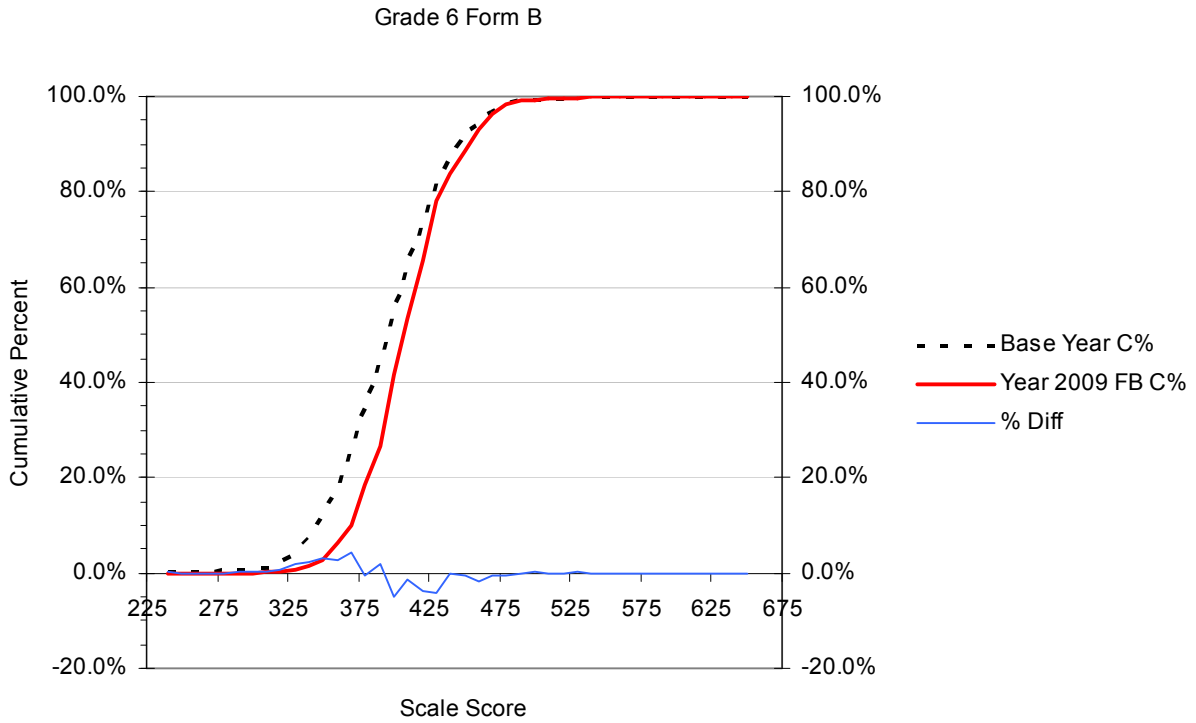
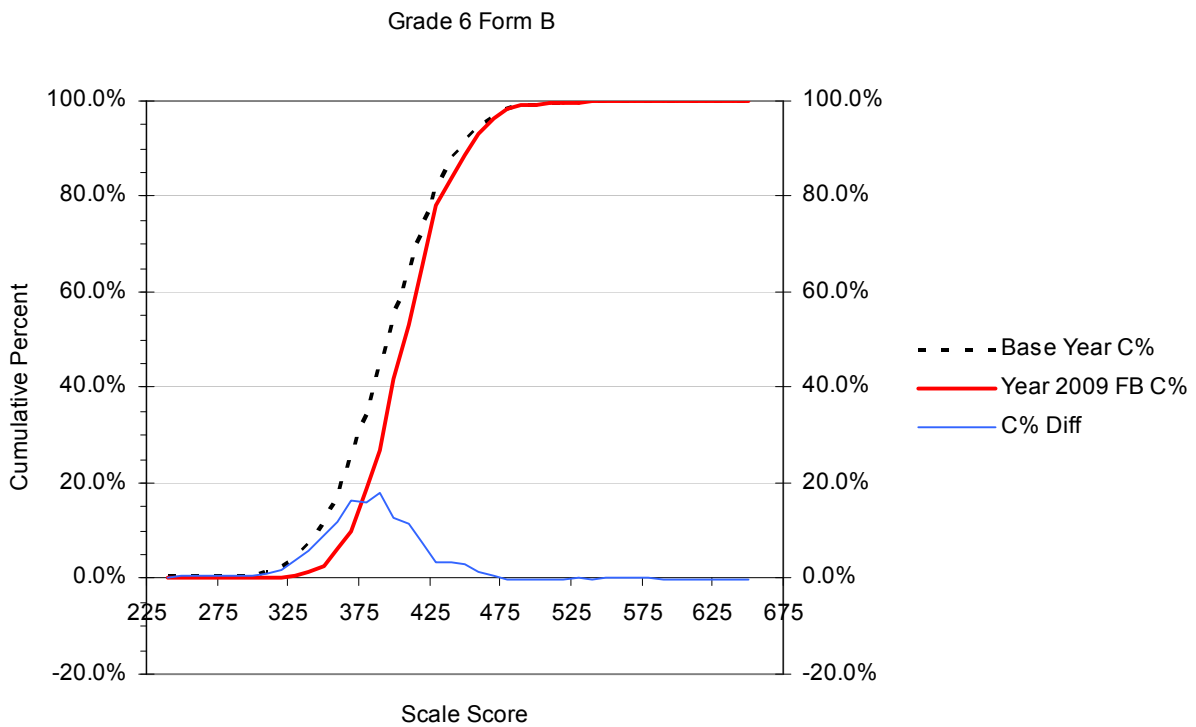


Figure B.26 Year 2009 Scale Score Distribution: Grade 6 Form B

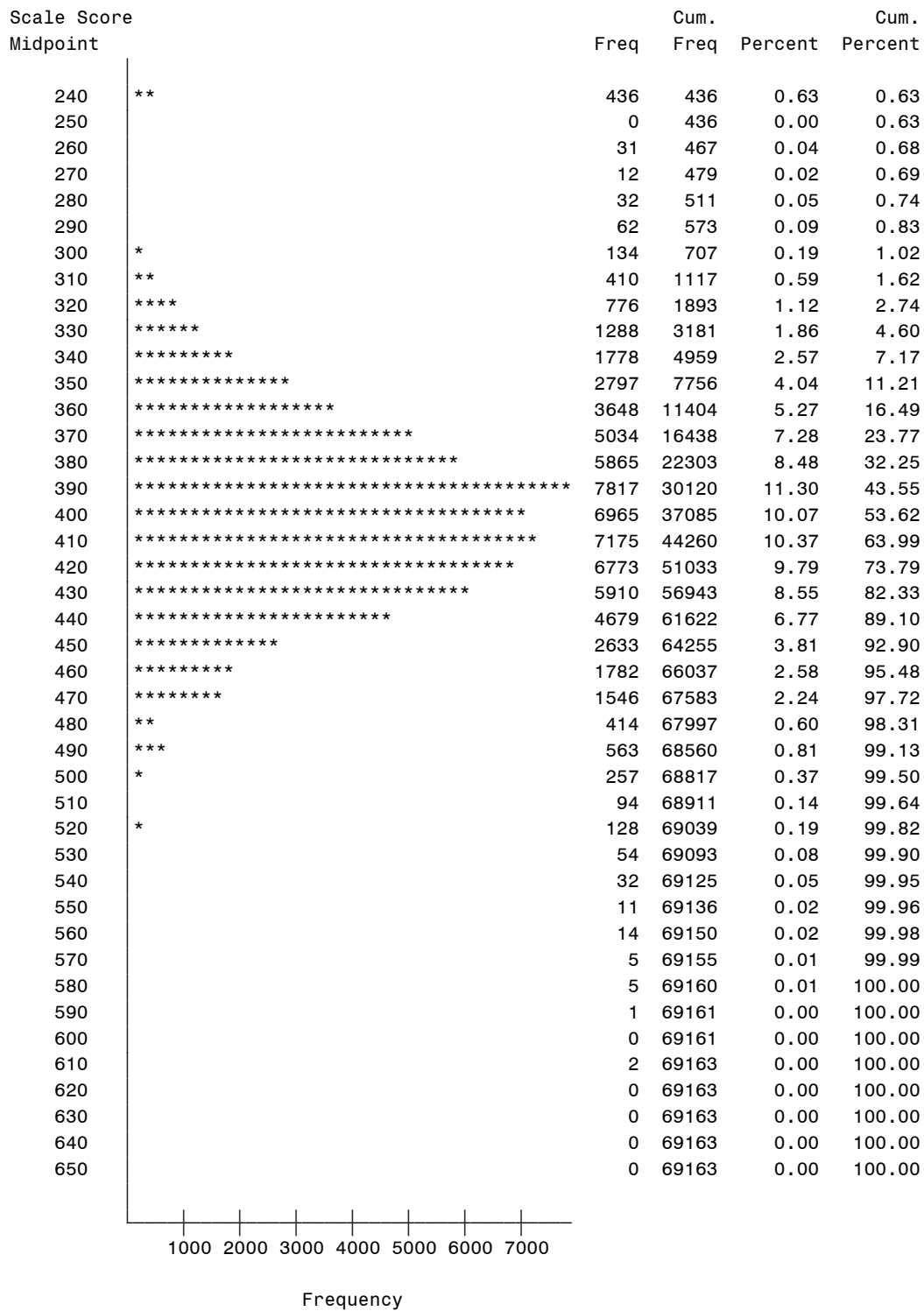


**Figure B.27 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 6 Form B**



**Figure B.28 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 6 Form B**

**Year 2004 Grade=7 (Base Year)**



**Figure B.29 Year 2004 Scale Score Distribution: Grade 7**

Year 2009 Grade=7 Form A

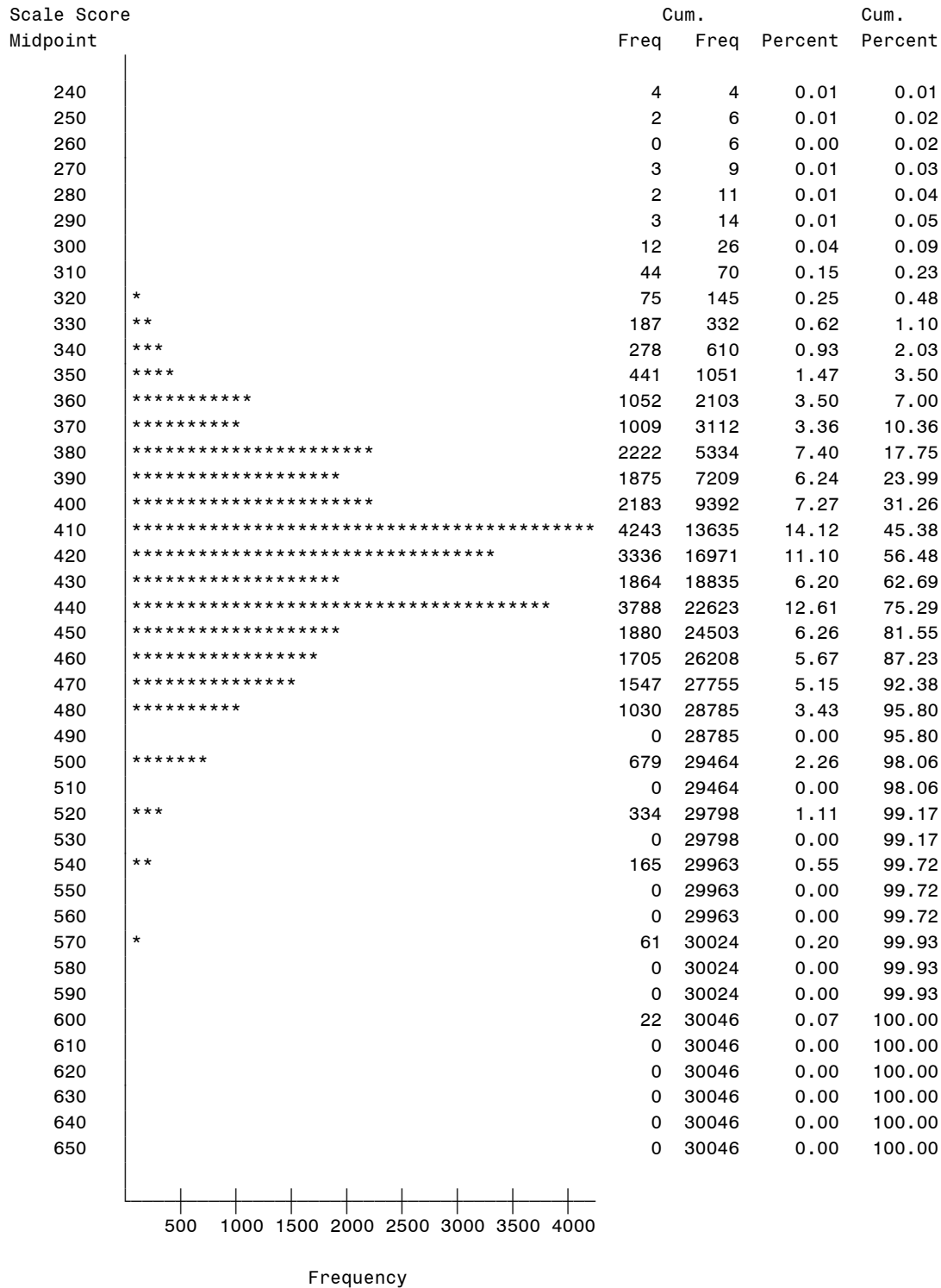
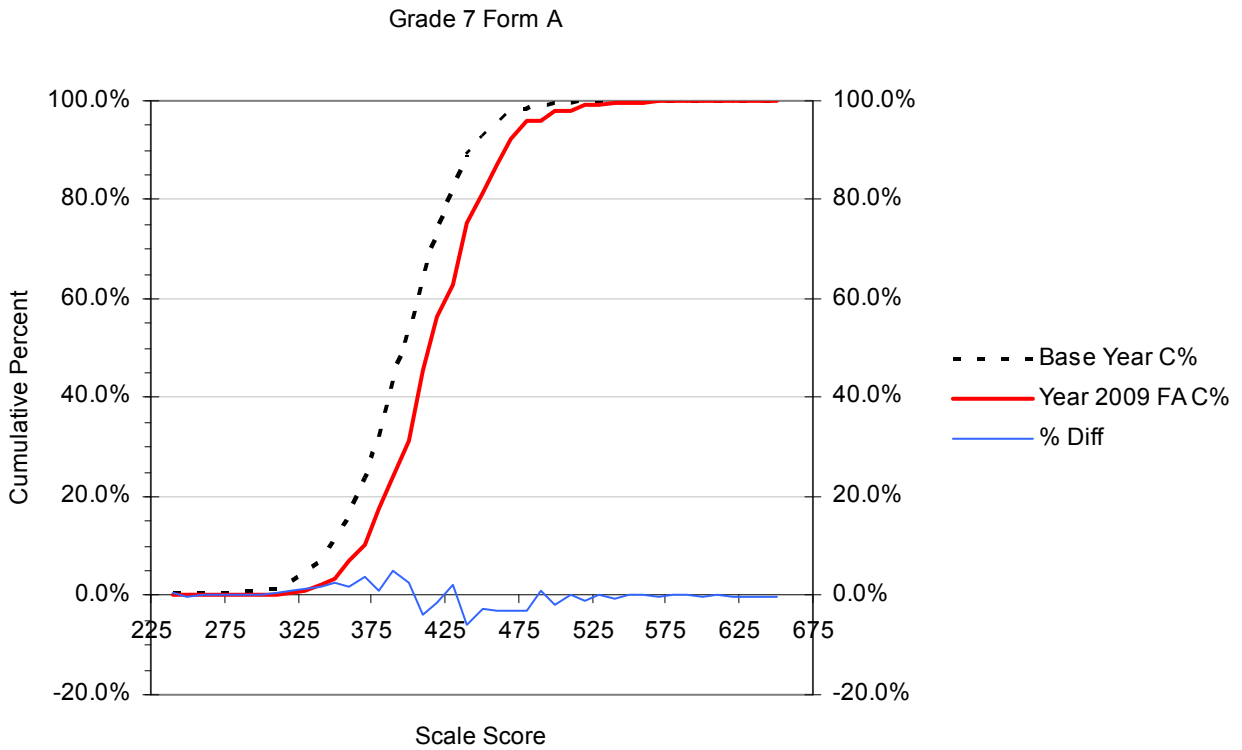
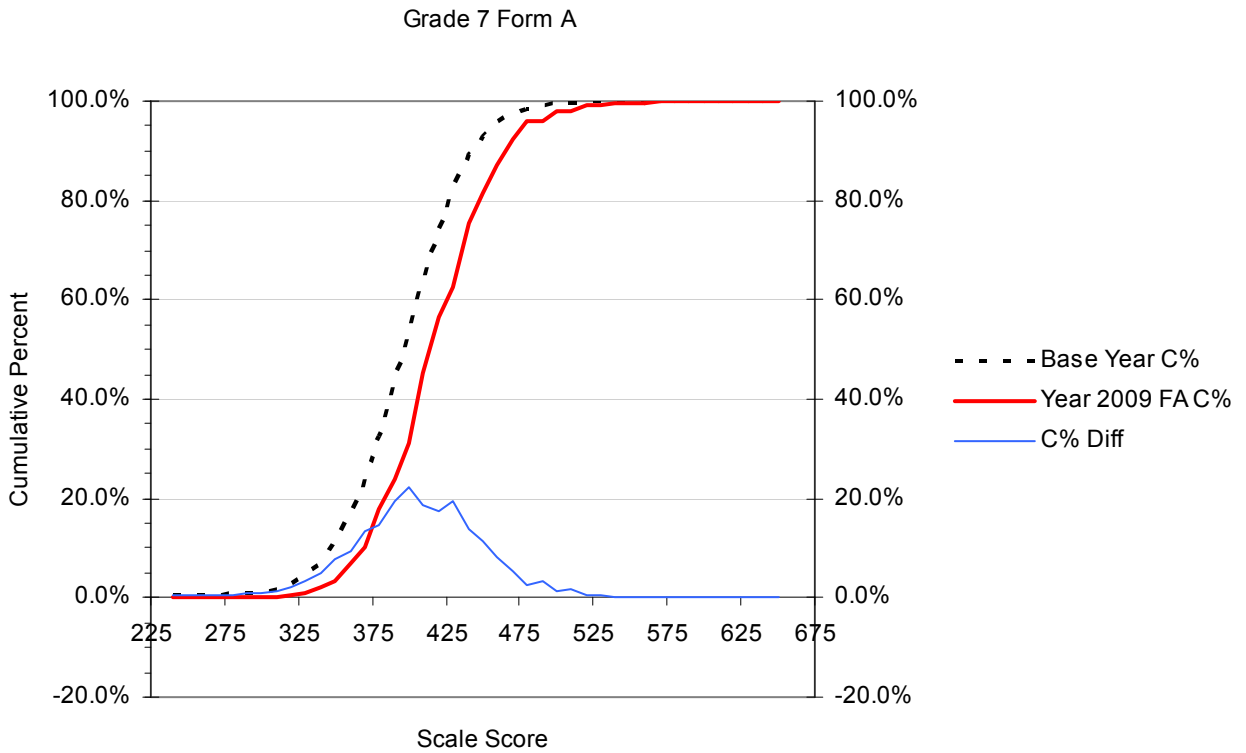


Figure B.30 Year 2009 Scale Score Distribution: Grade 7 Form A



**Figure B.31 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 7 Form A**



**Figure B.32 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 7 Form A**



Year 2009 Grade=7 Form B

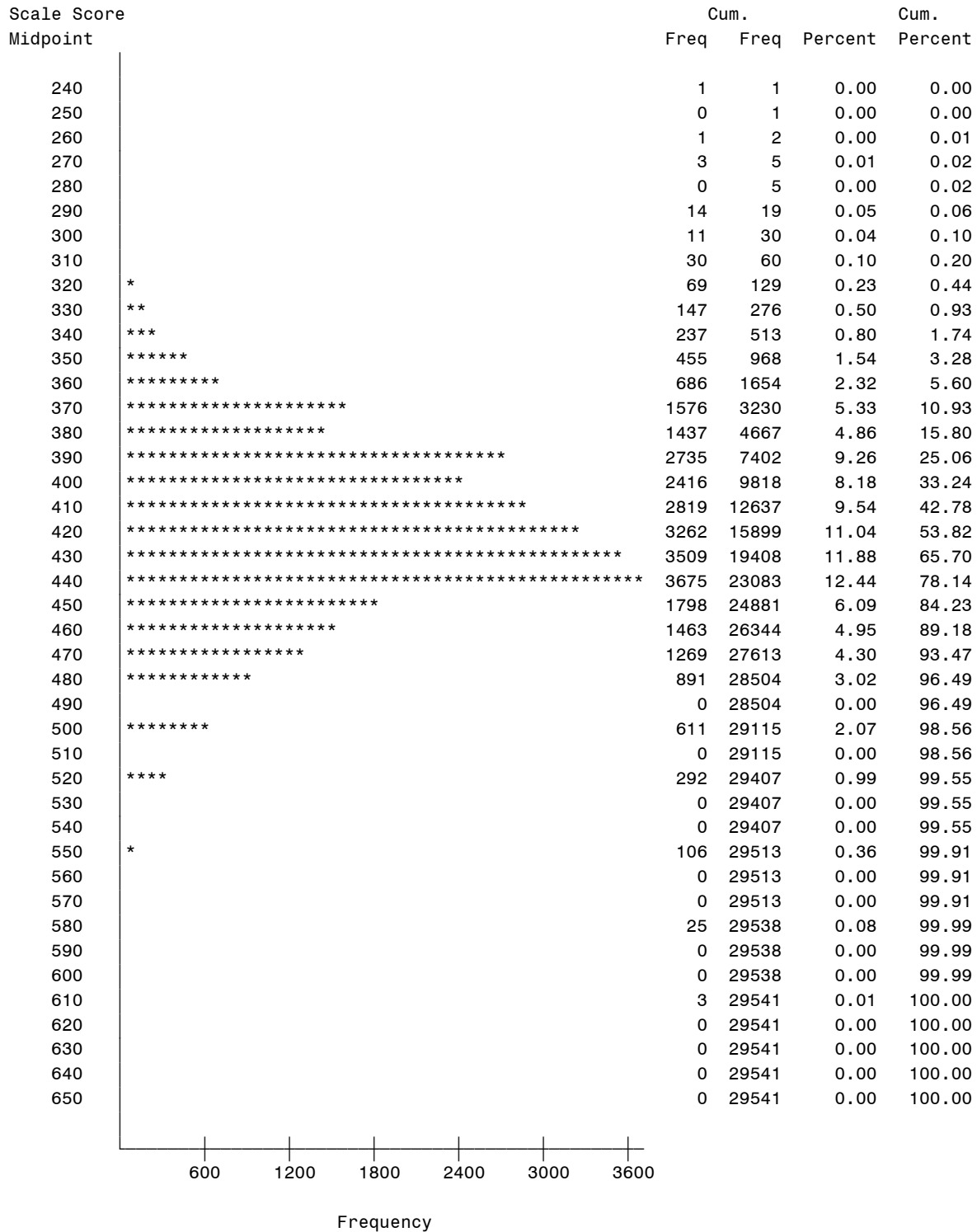
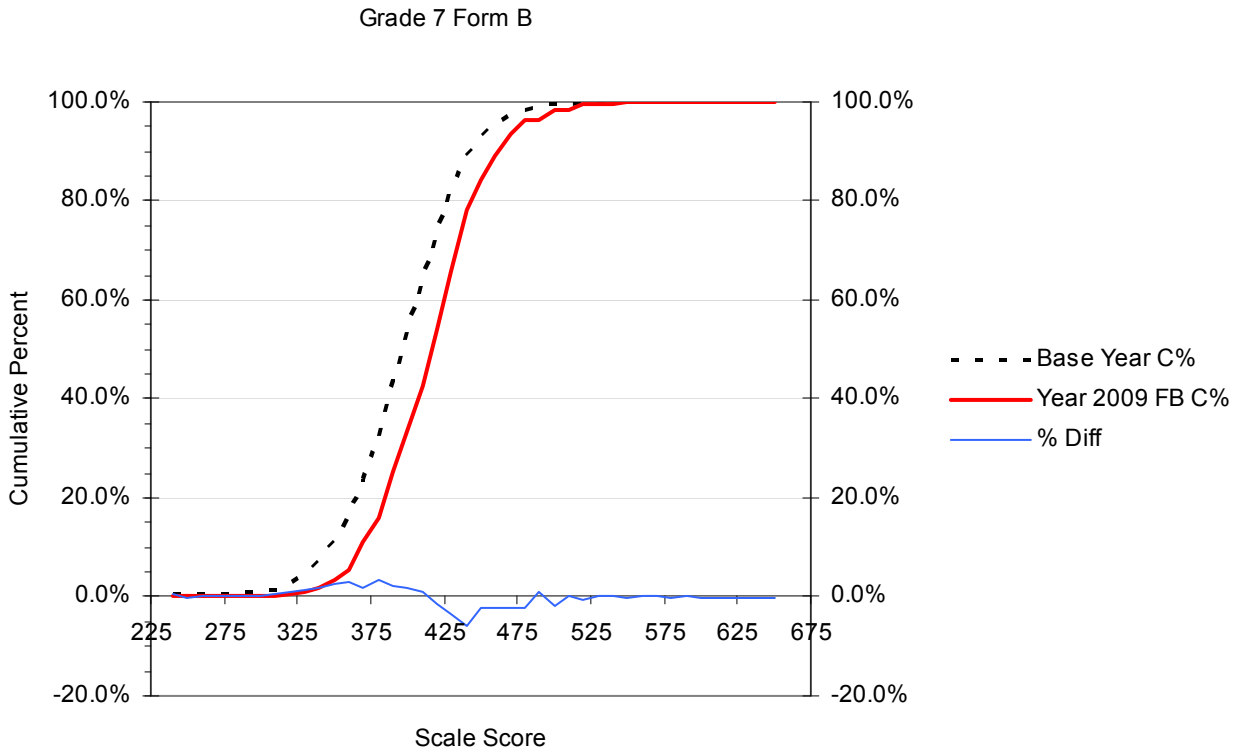
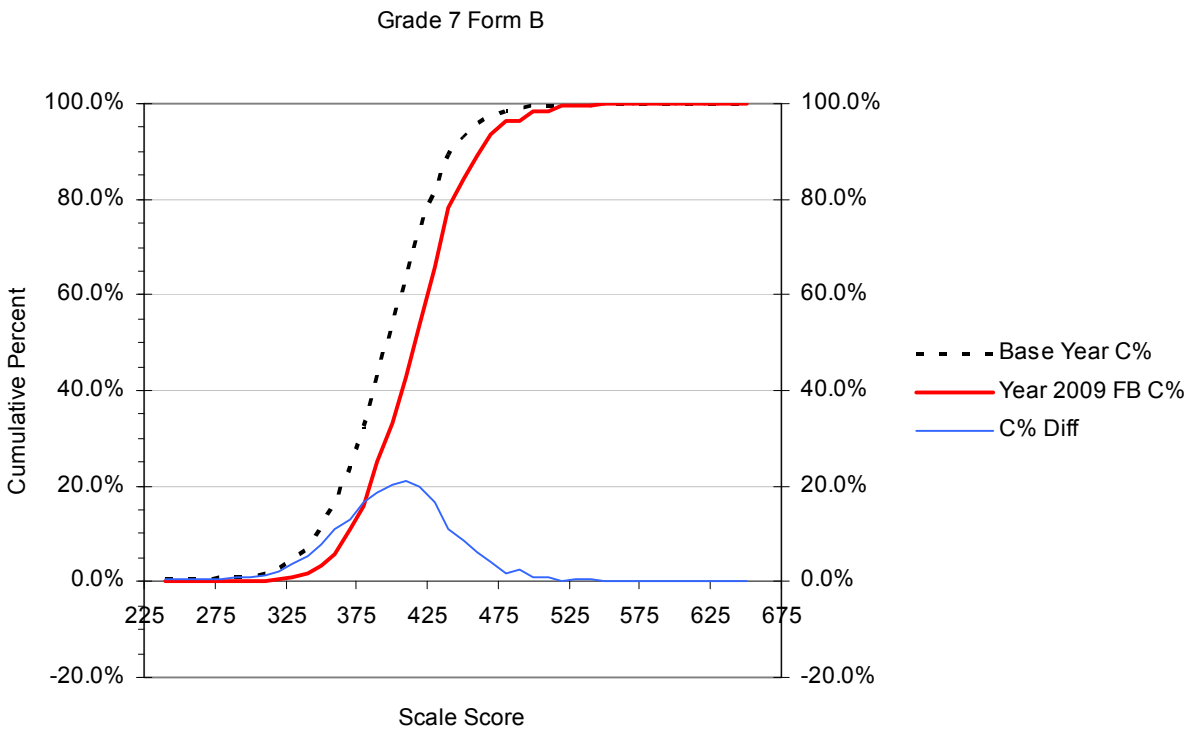


Figure B.33 Year 2009 Scale Score Distribution: Grade 7 Form B

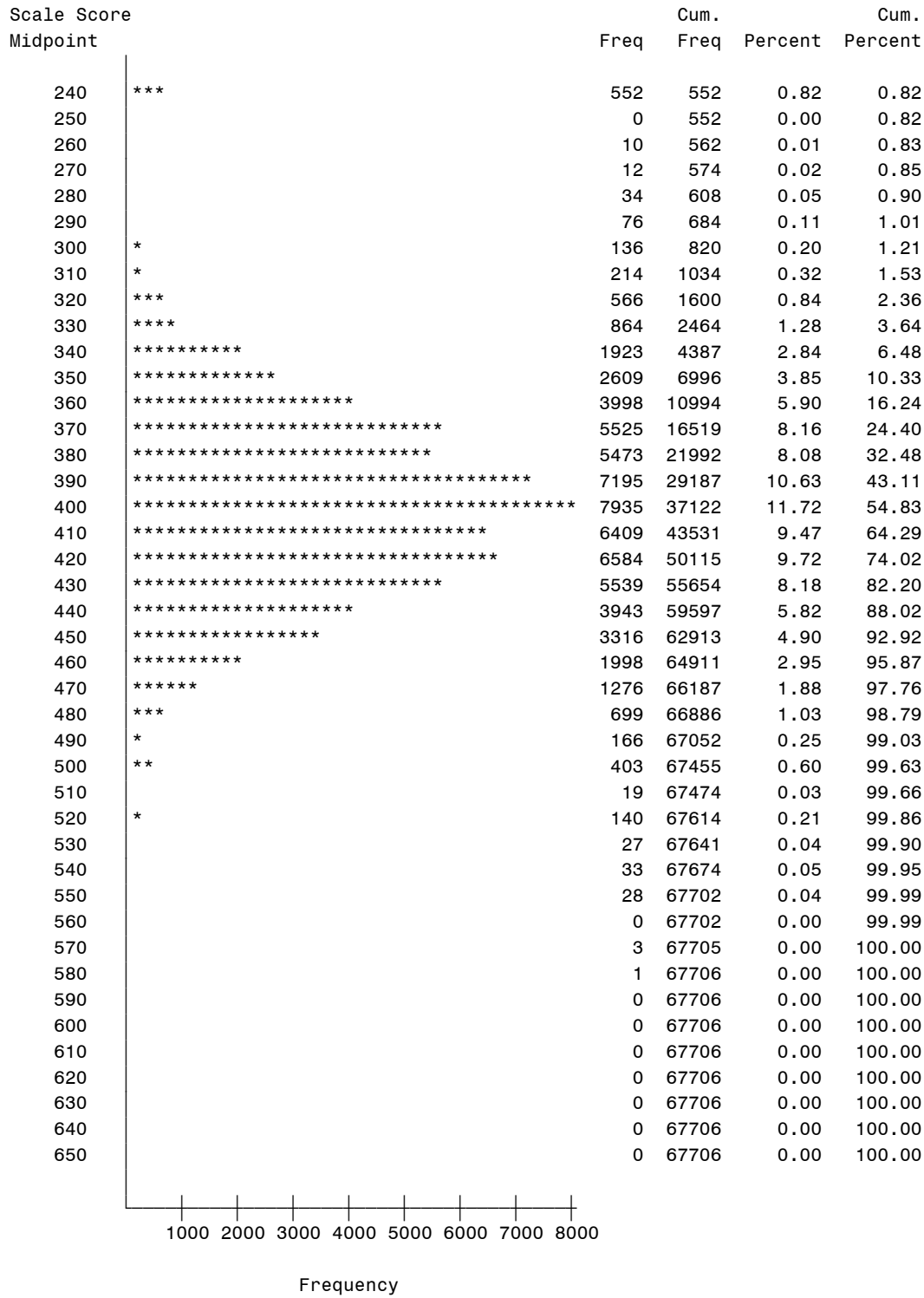


**Figure B.34 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 7 Form B**



**Figure B.35 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 7 Form B**

**Year 2003 Grade=8 (Base Year)**



**Figure B.36 Year 2003 Scale Score Distribution: Grade 8**

Year 2009 Grade=8 Form A

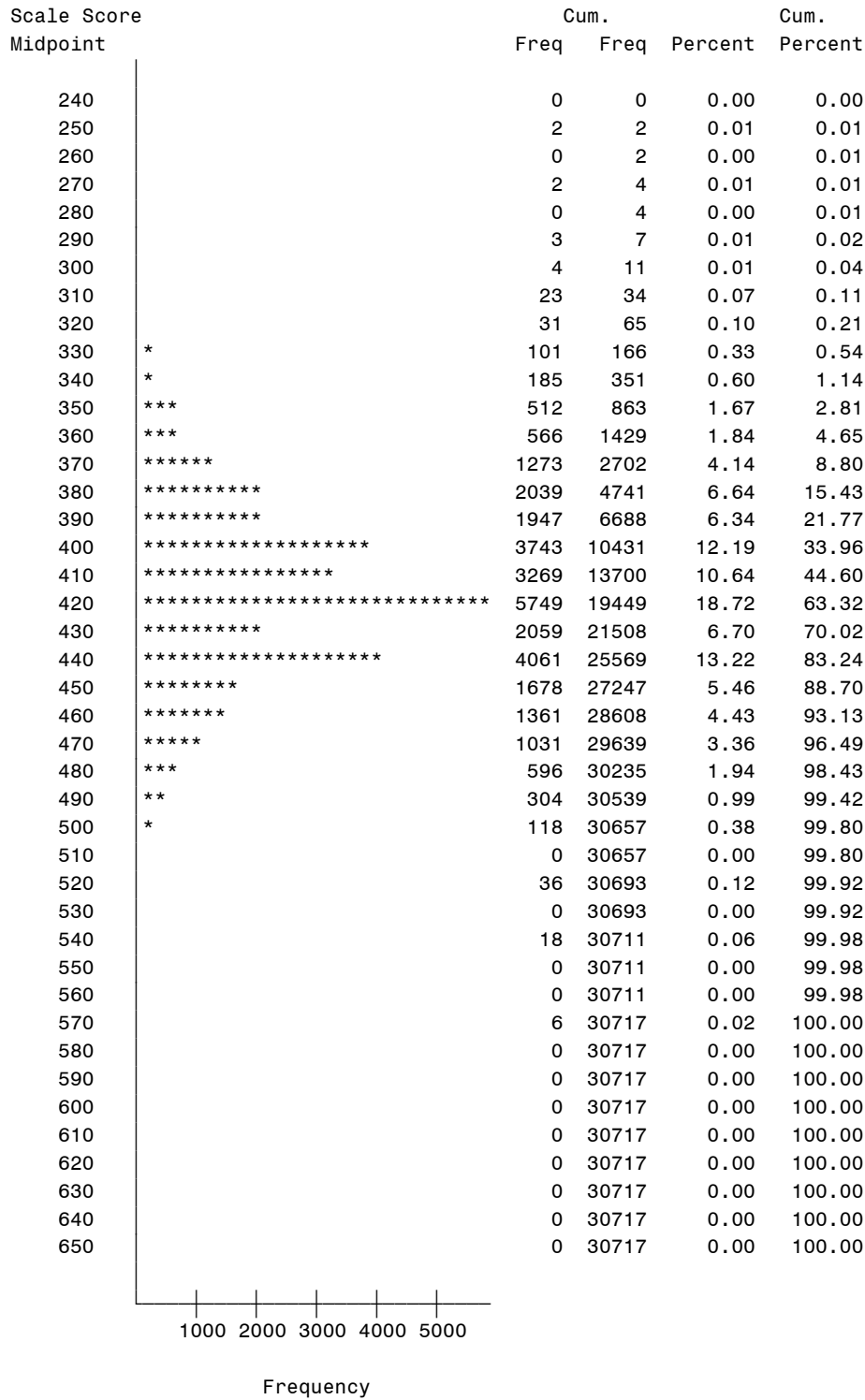
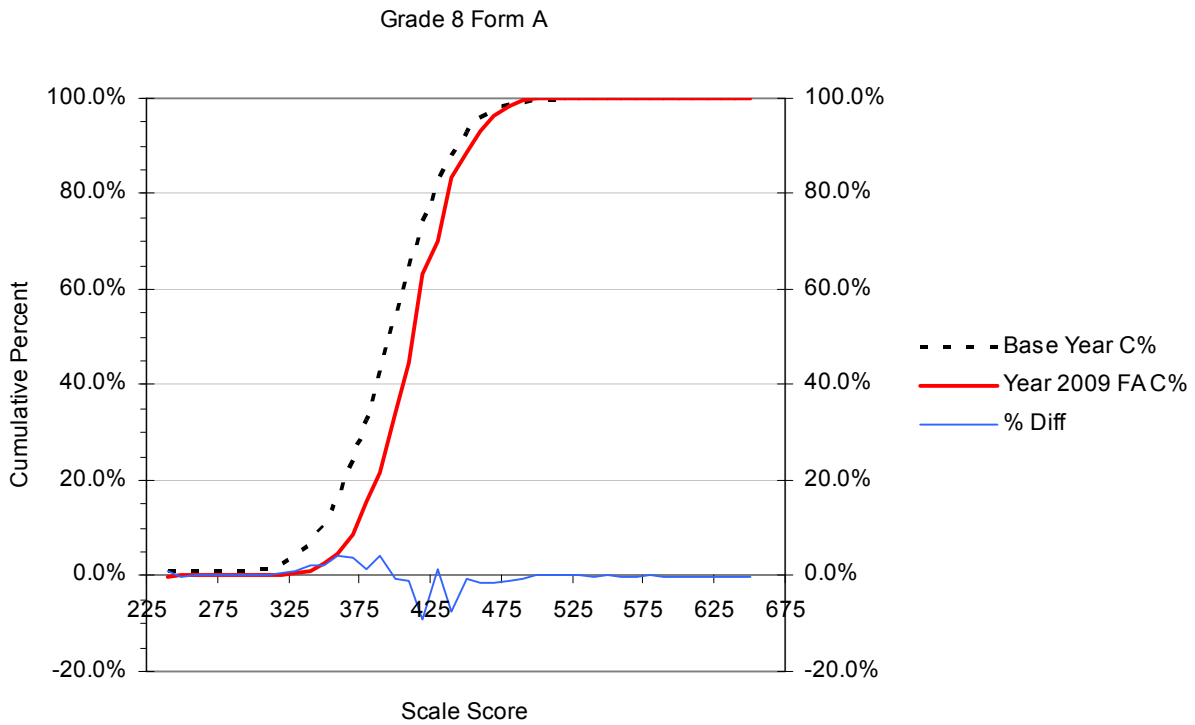
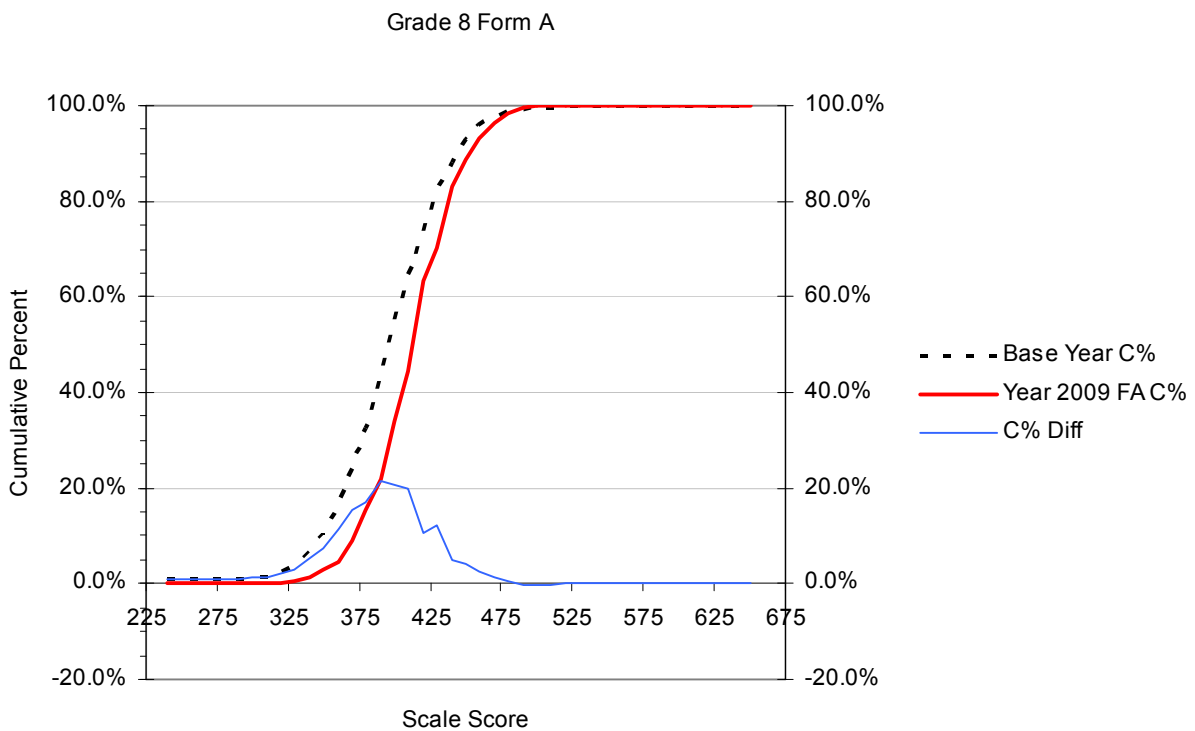


Figure B.37 Year 2009 Scale Score Distribution: Grade 8 Form A



**Figure B.38 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 8 Form A**



**Figure B.39 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 8 Form A**

Year 2009 Grade=8 Form B

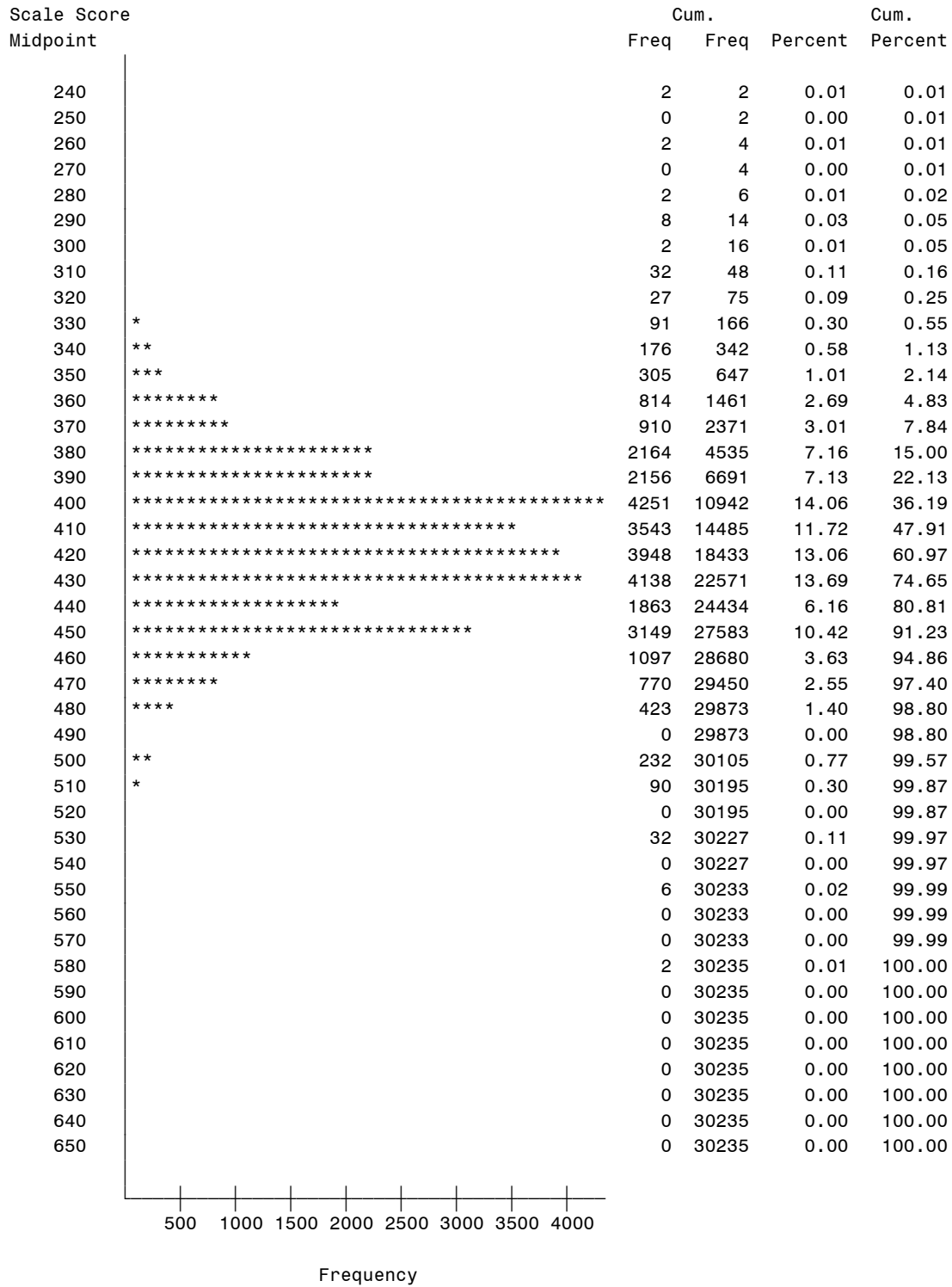
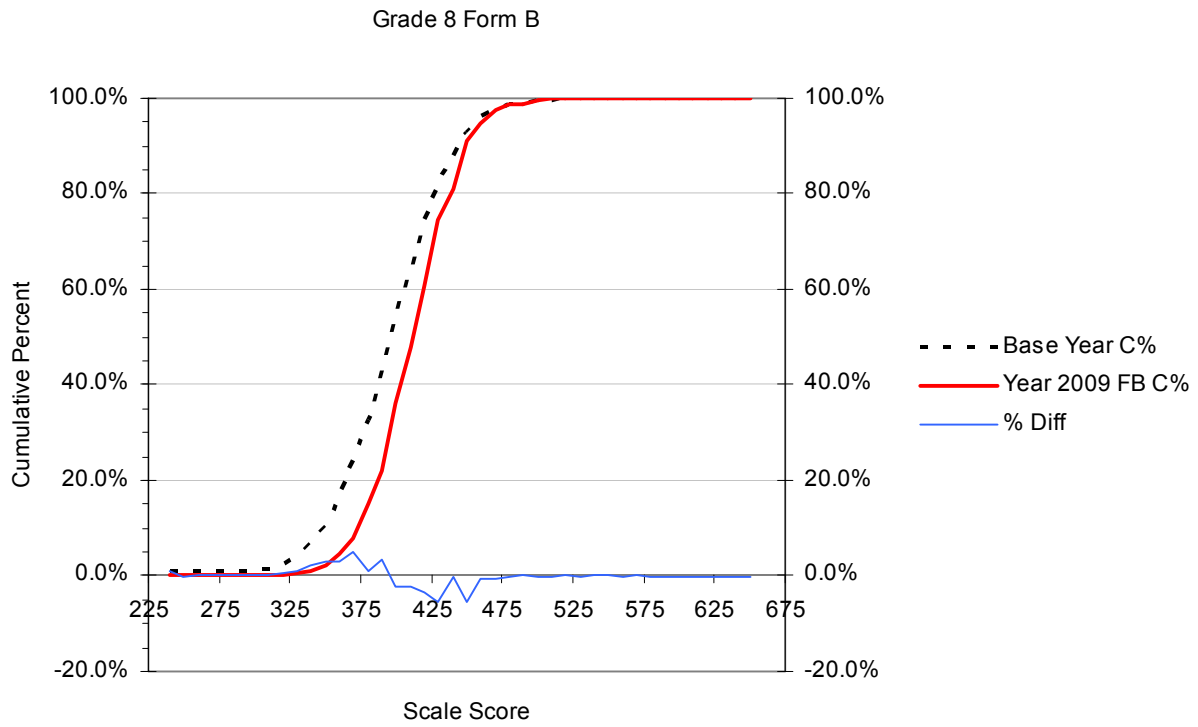
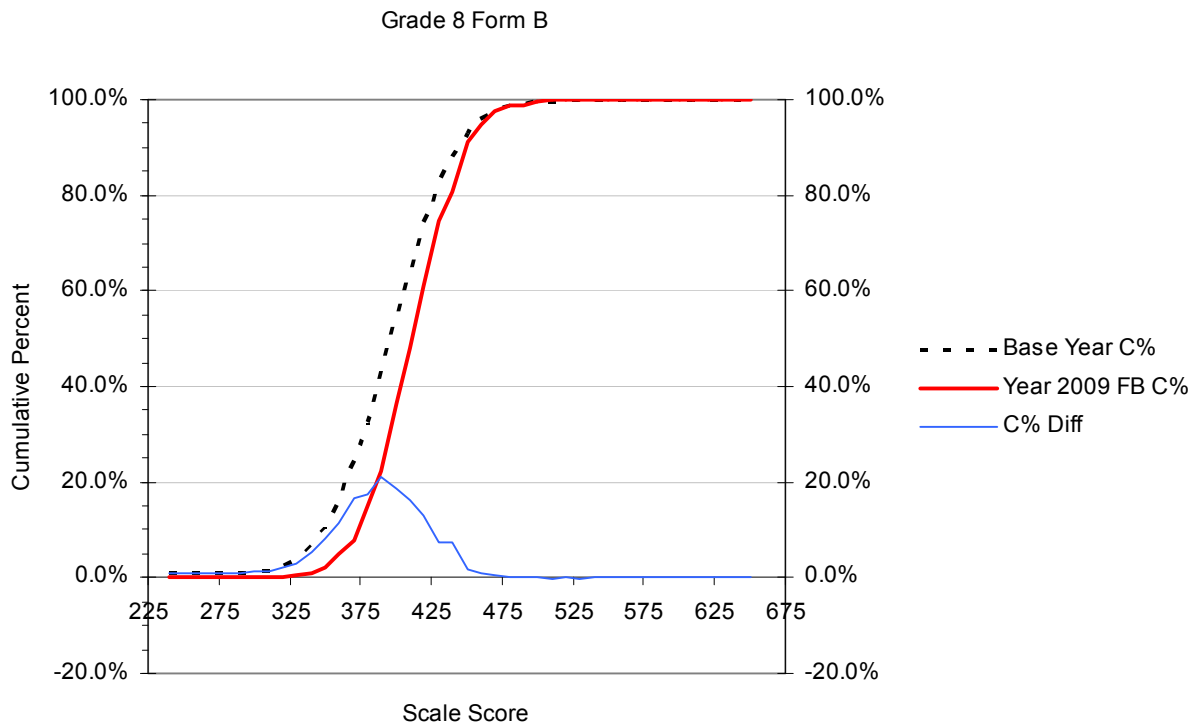


Figure B.40 Year 2009 Scale Score Distribution: Grade 8 Form B



**Figure B.41 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Percent Differences between CDFs: Grade 8 Form B**



**Figure B.42 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2009 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 8 Form B**