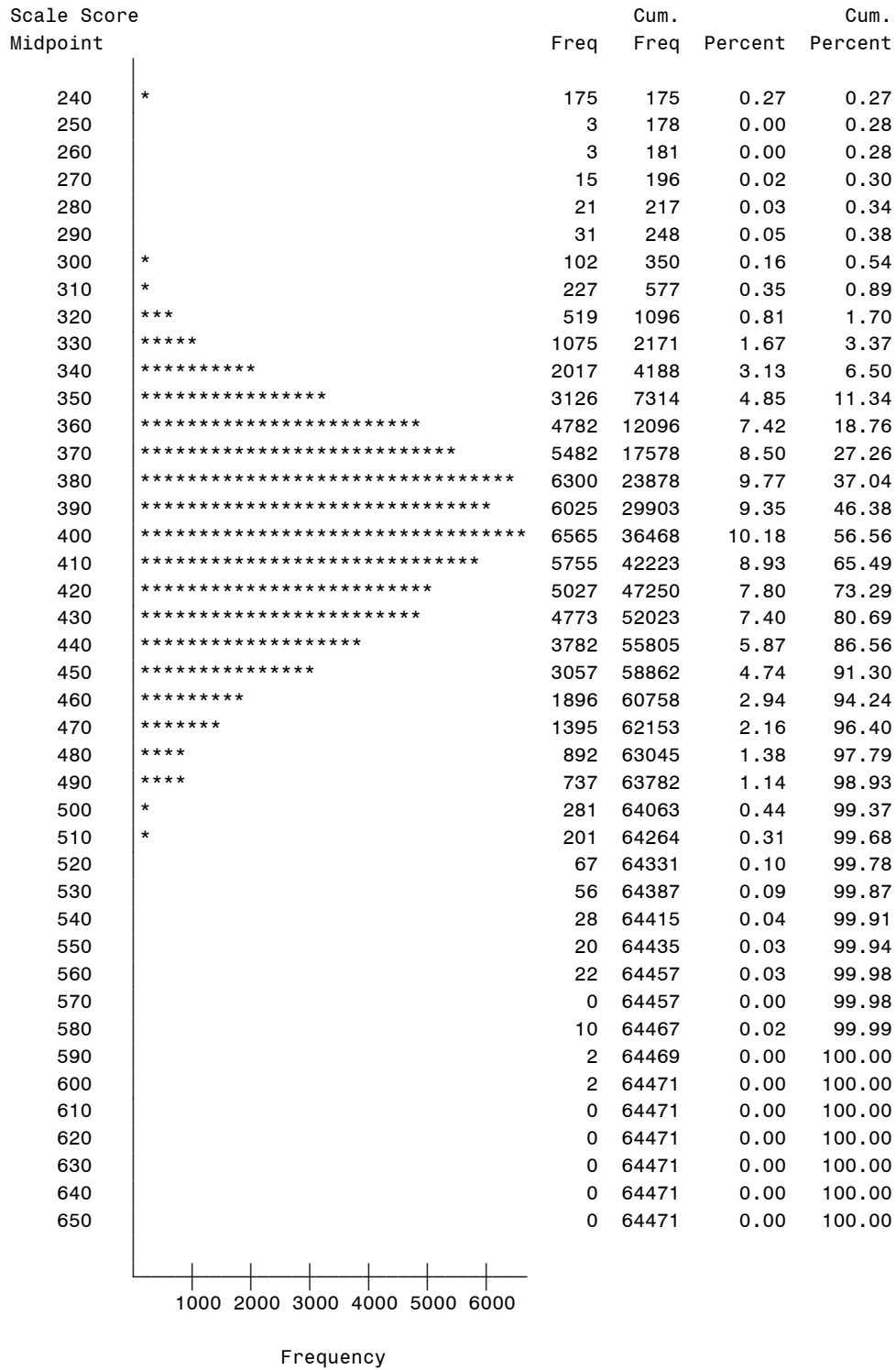


## **APPENDIX B: SCALE SCORE HISTOGRAMS AND TUKEY CHARTS**

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**Year 2003 Grade=3**



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



Year 2007 Grade=3 Form=A

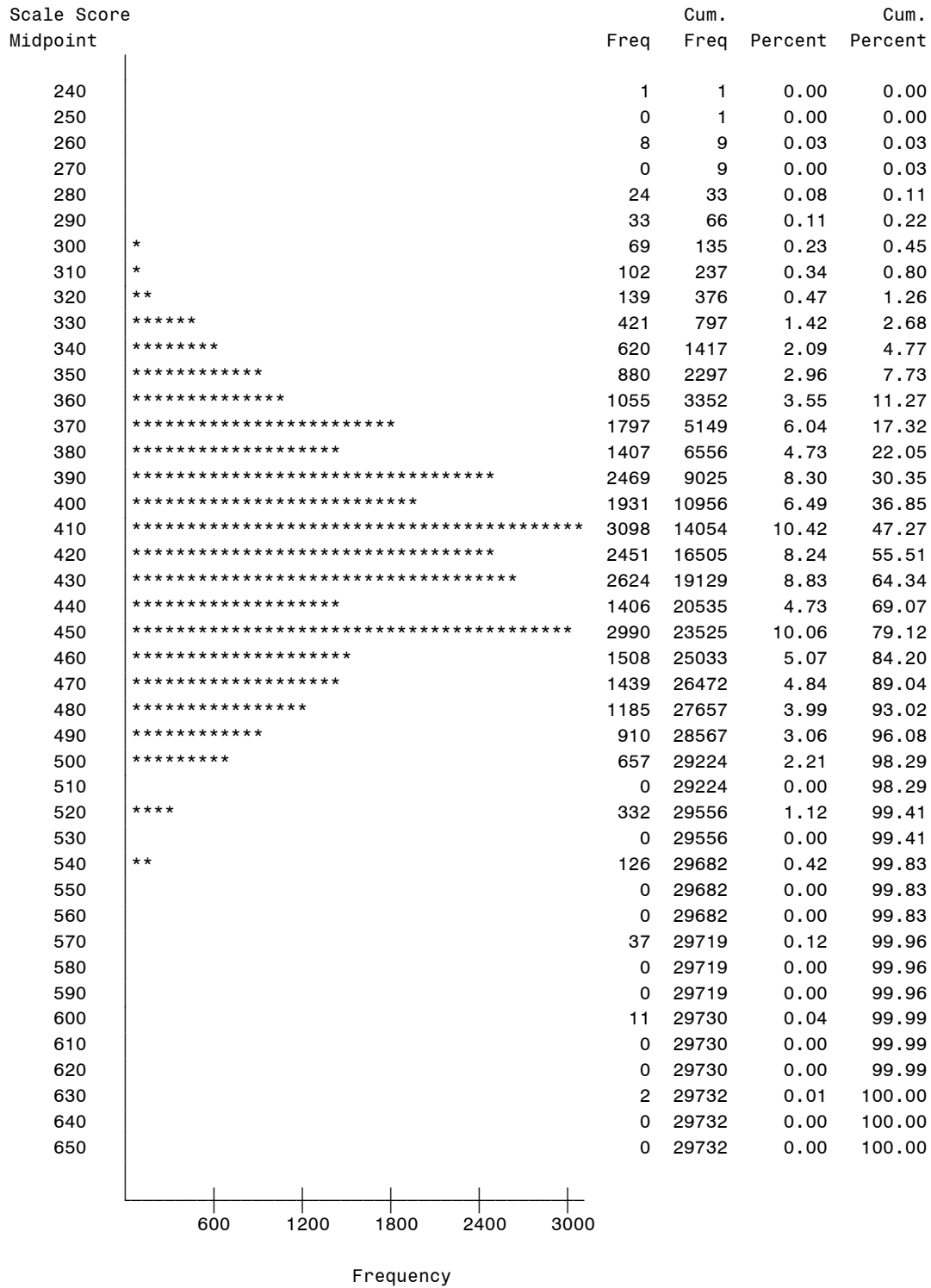
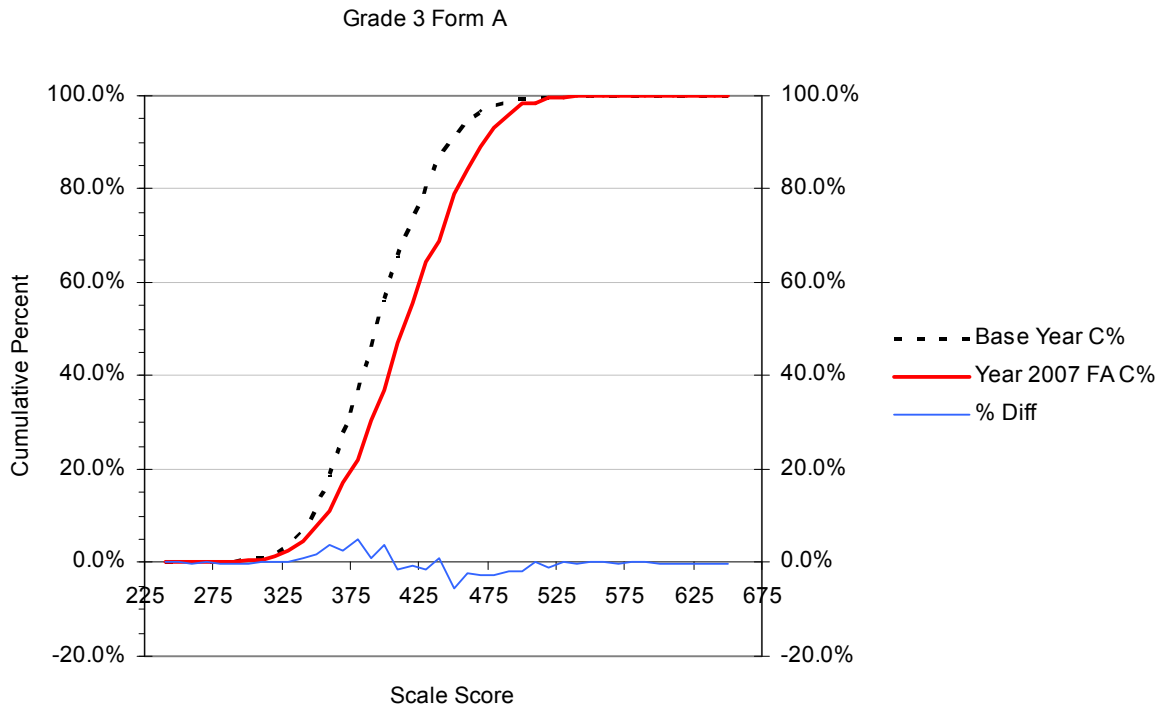
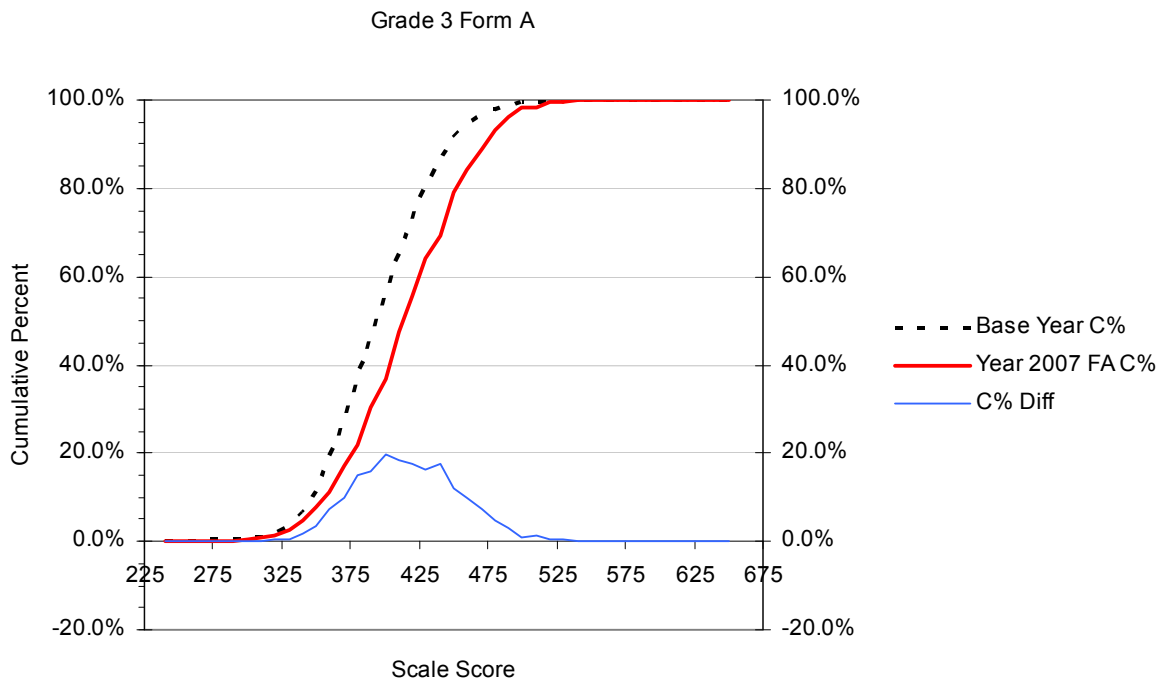


Figure B.2 Year 2007 Scale Score Distribution: Grade 3 Form A

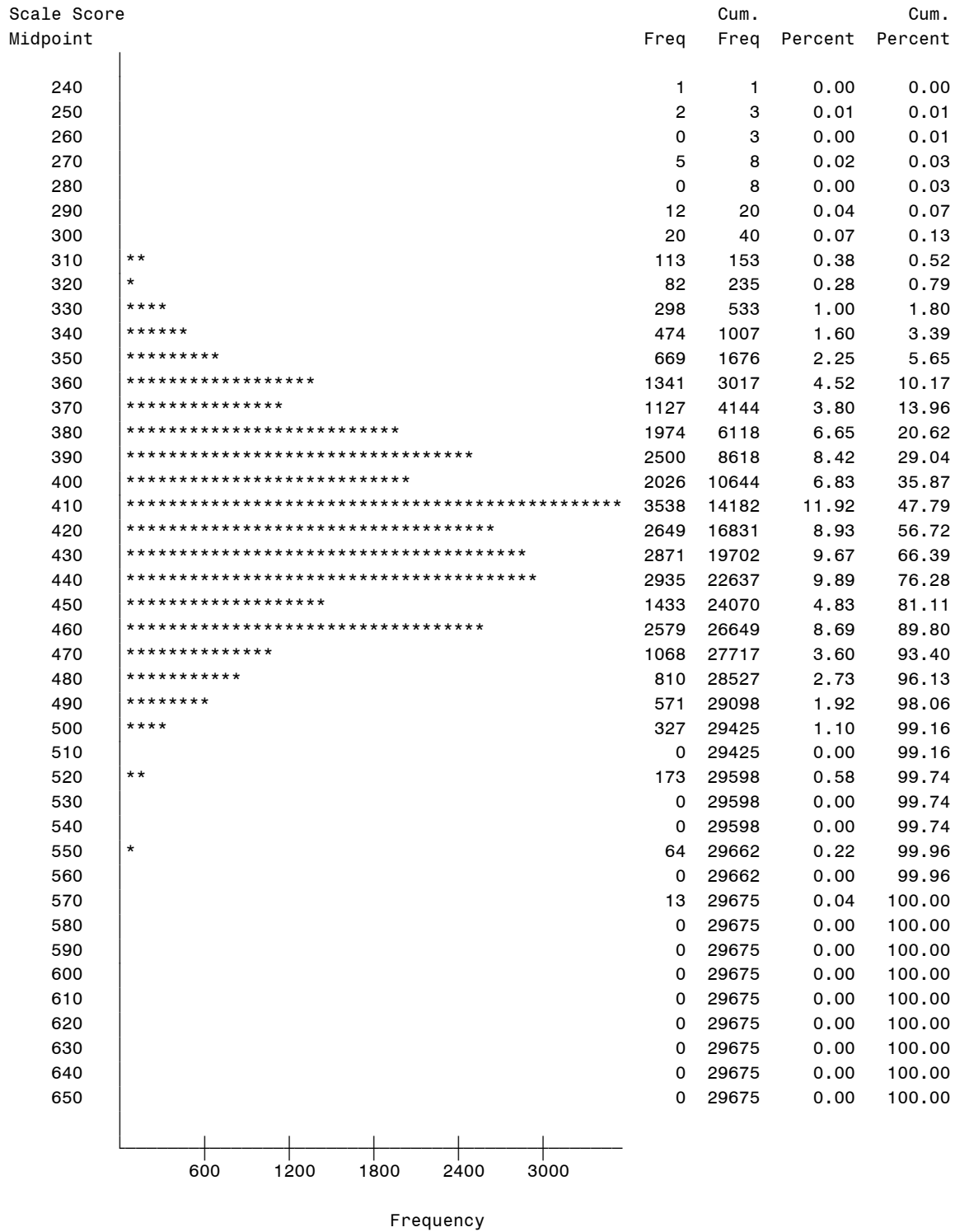


**Figure B.3. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2007 Scale Scores with the Percent Differences between CDFs: Grade 3 Form A**

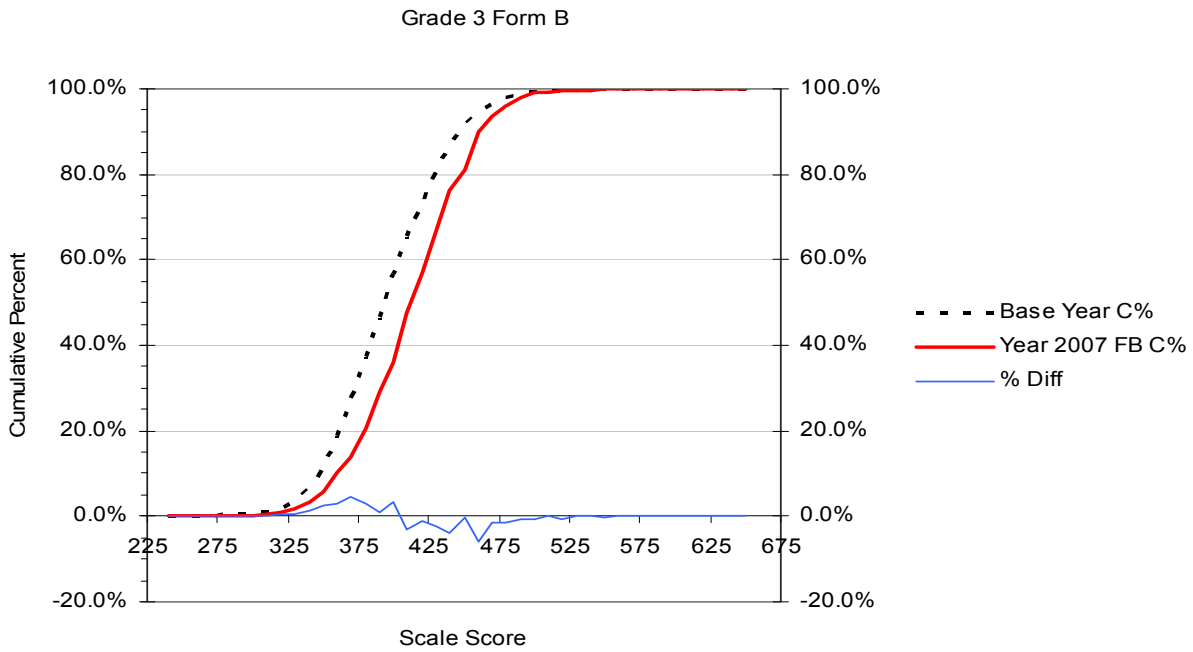


**Figure B.4. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2007 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 3 Form A**

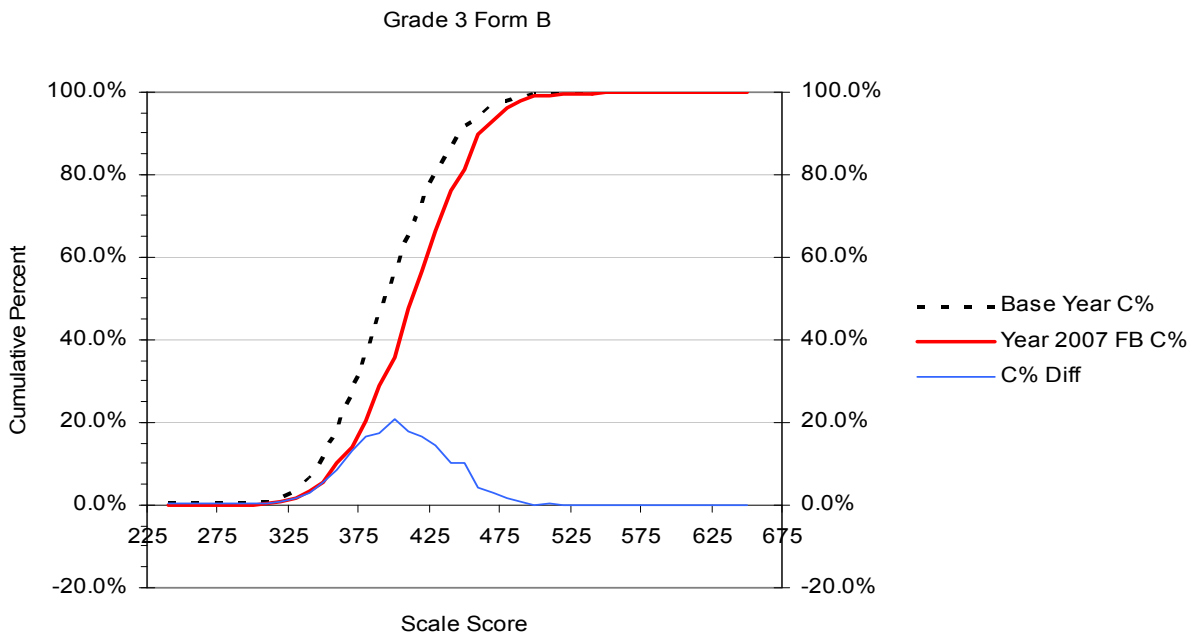
**Year 2007 Grade=3 Form=B**



**Figure B.5 Year 2007 Scale Score Distribution: Grade 3 Form B**



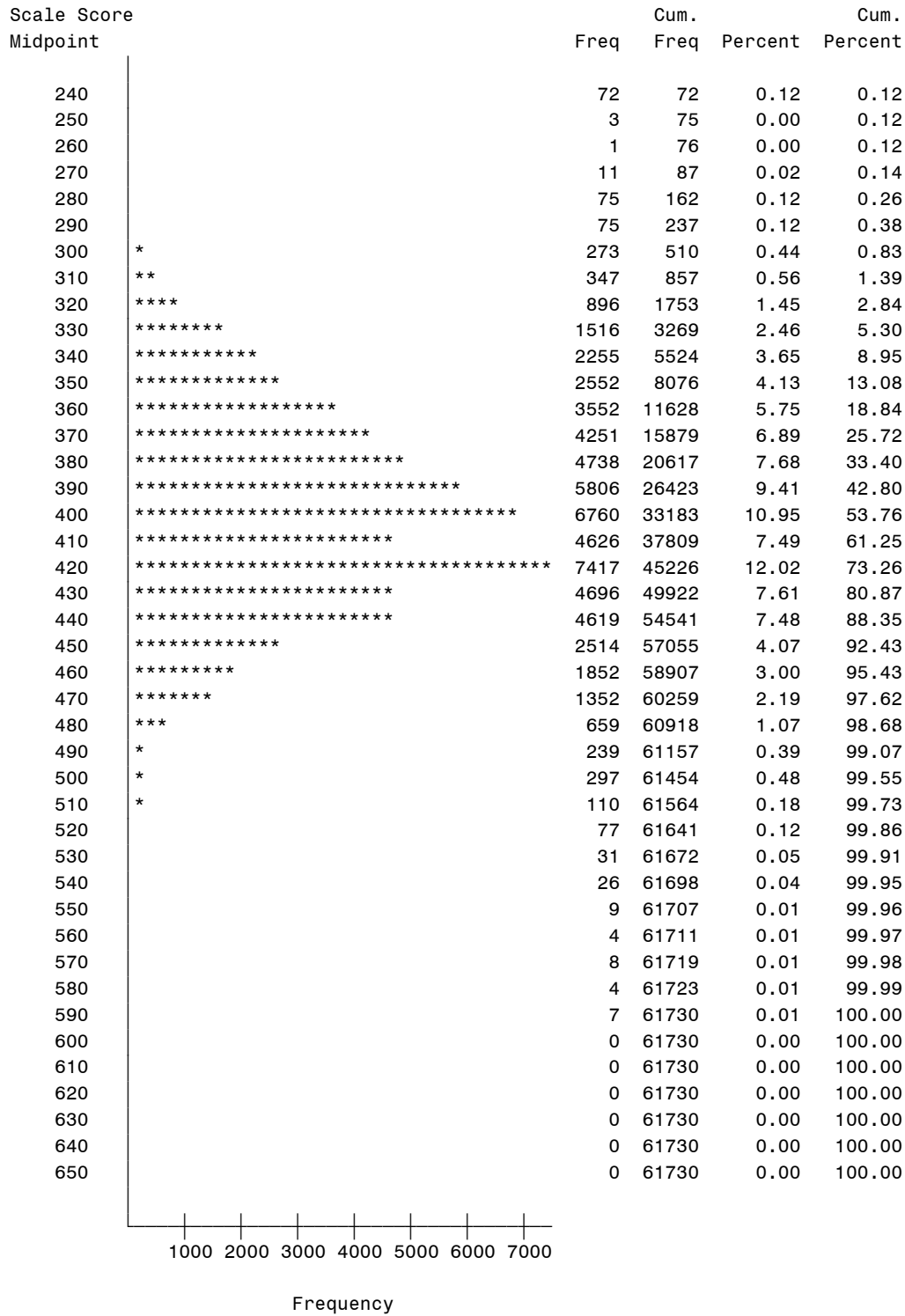
**Figure B.6. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2007 Scale Scores with the Percent Differences between CDFs: Grade 3 Form B**



**Figure B.7. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2007 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 3 Form B**

*Note.* The scale score distributions and the Tukey plots for 2007 generated based on raw scores from 2007 data files.

**Year 2004 Grade=4**



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





Year 2007 Grade=4 Form=A

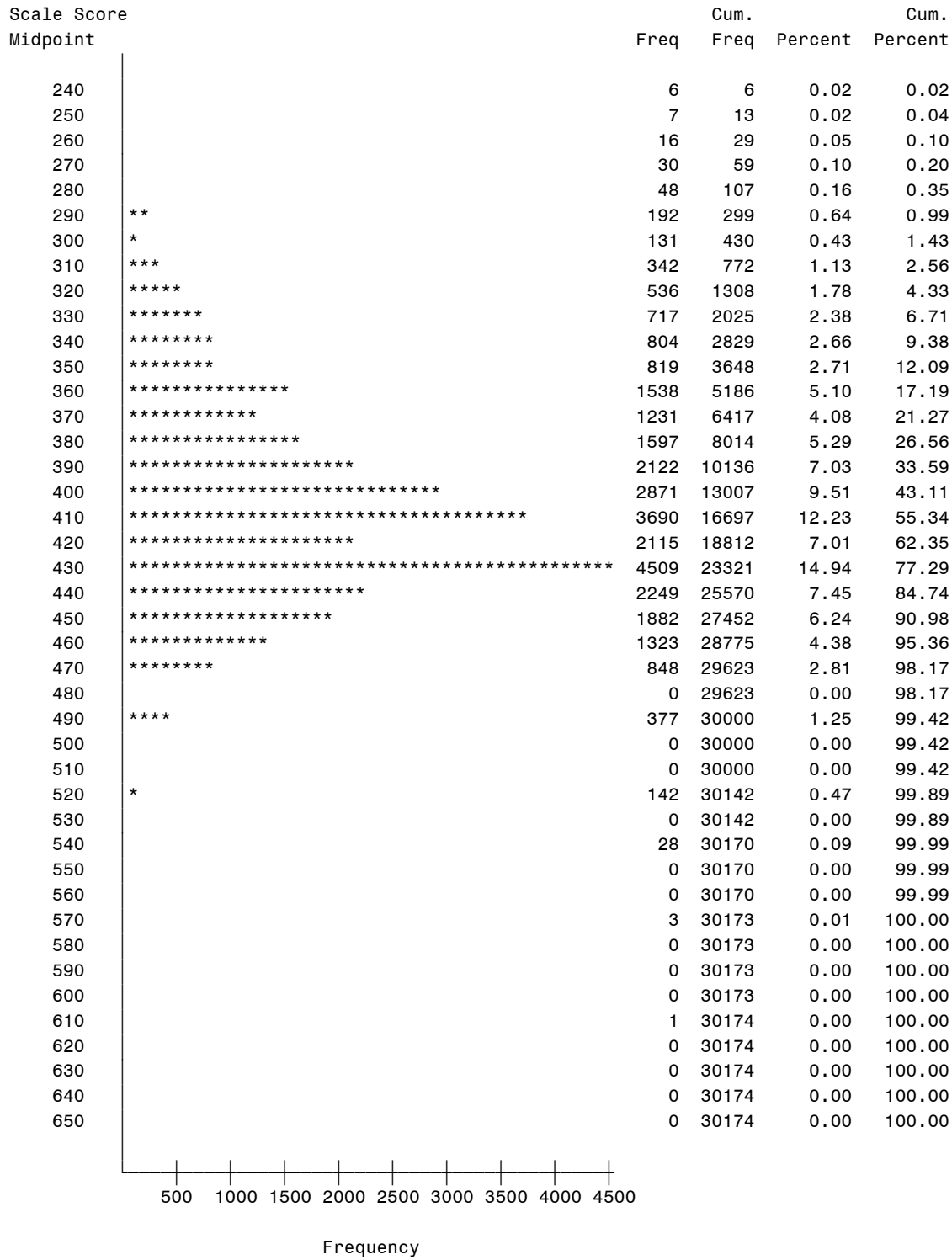
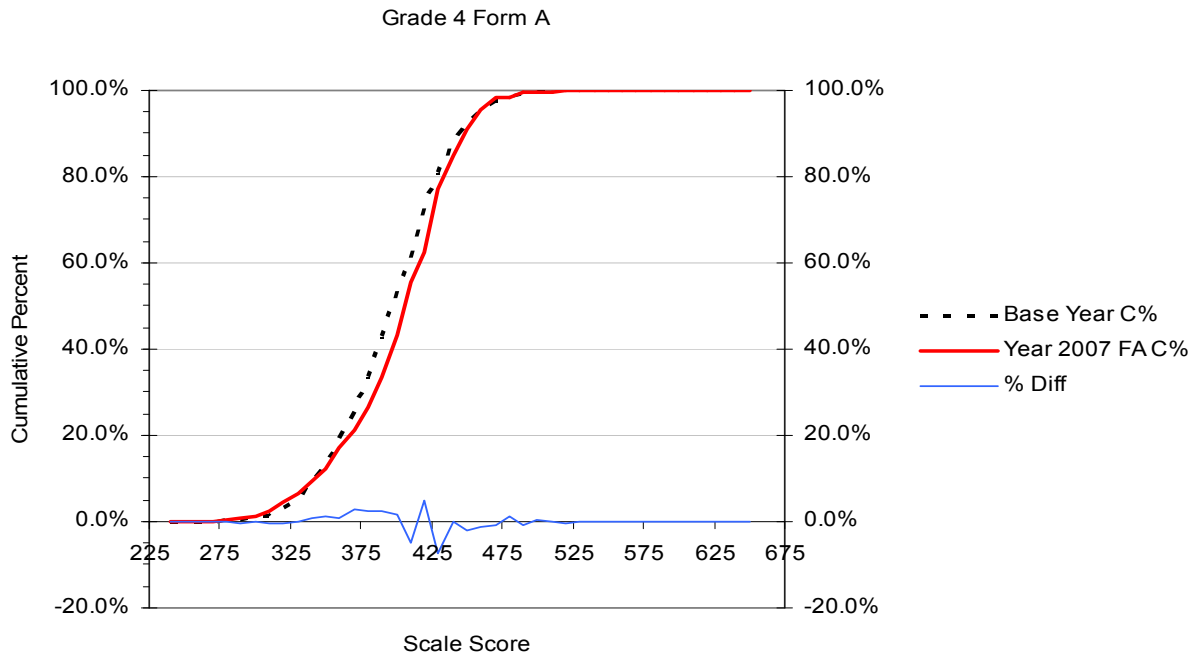
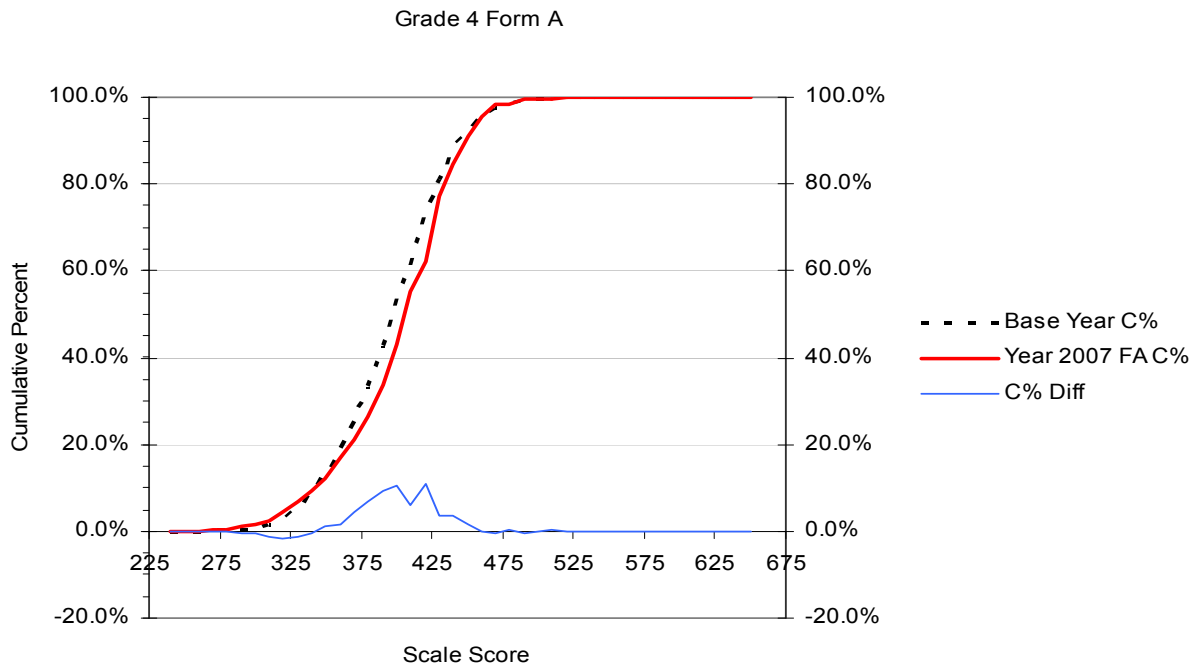


Figure B.9 Year 2007 Scale Score Distribution: Grade 4 Form A



**Figure B.10. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2007 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 2007 Scale Scores with the Cumulative percent Differences between CDFs: Grade 4 Form A**

Year 2007 Grade=4 Form=B

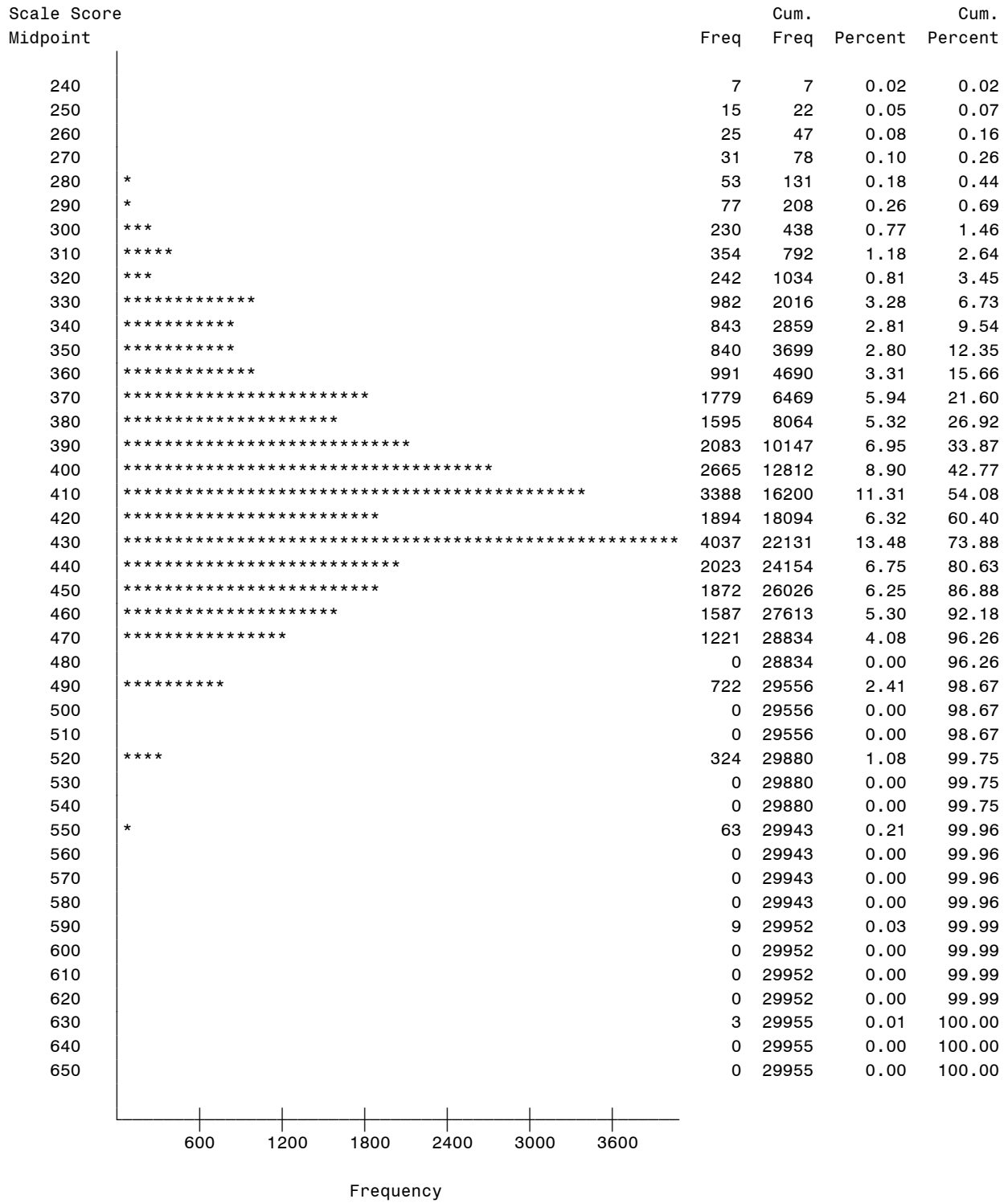
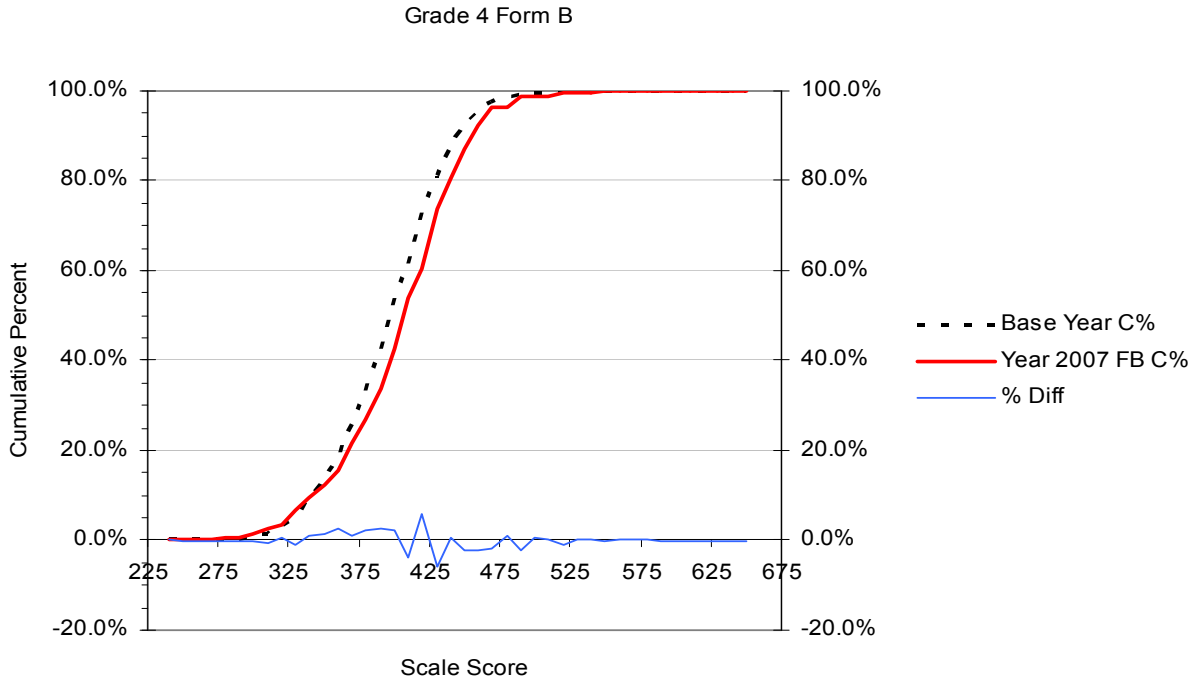
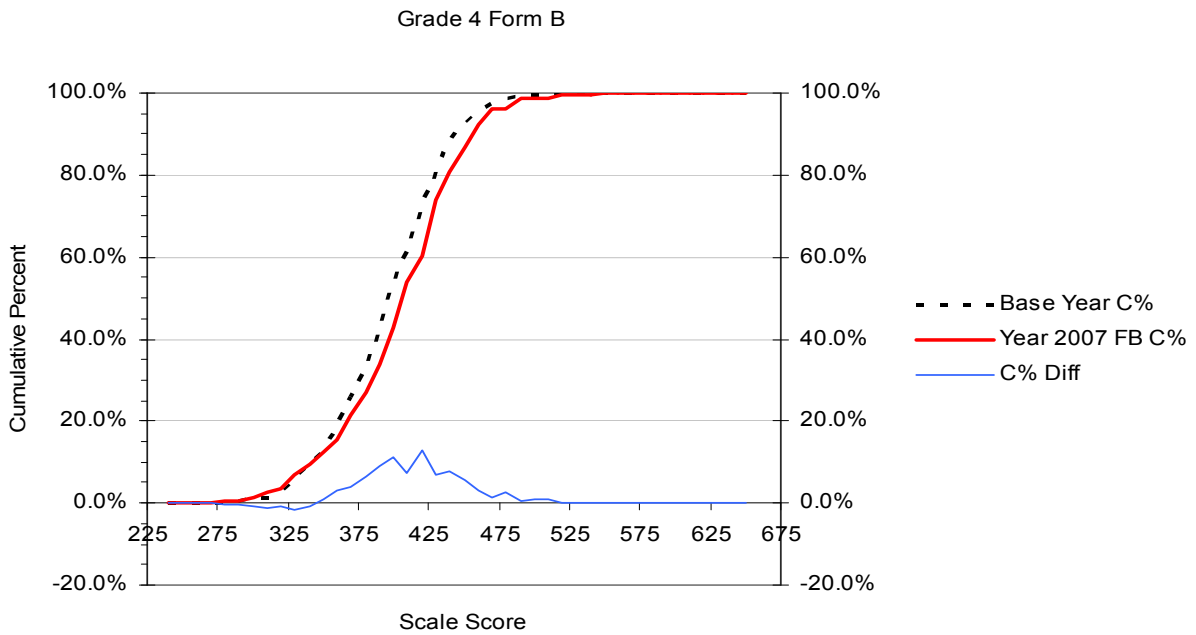


Figure B.12 Year 2007 Scale Score Distribution: Grade 4 Form B



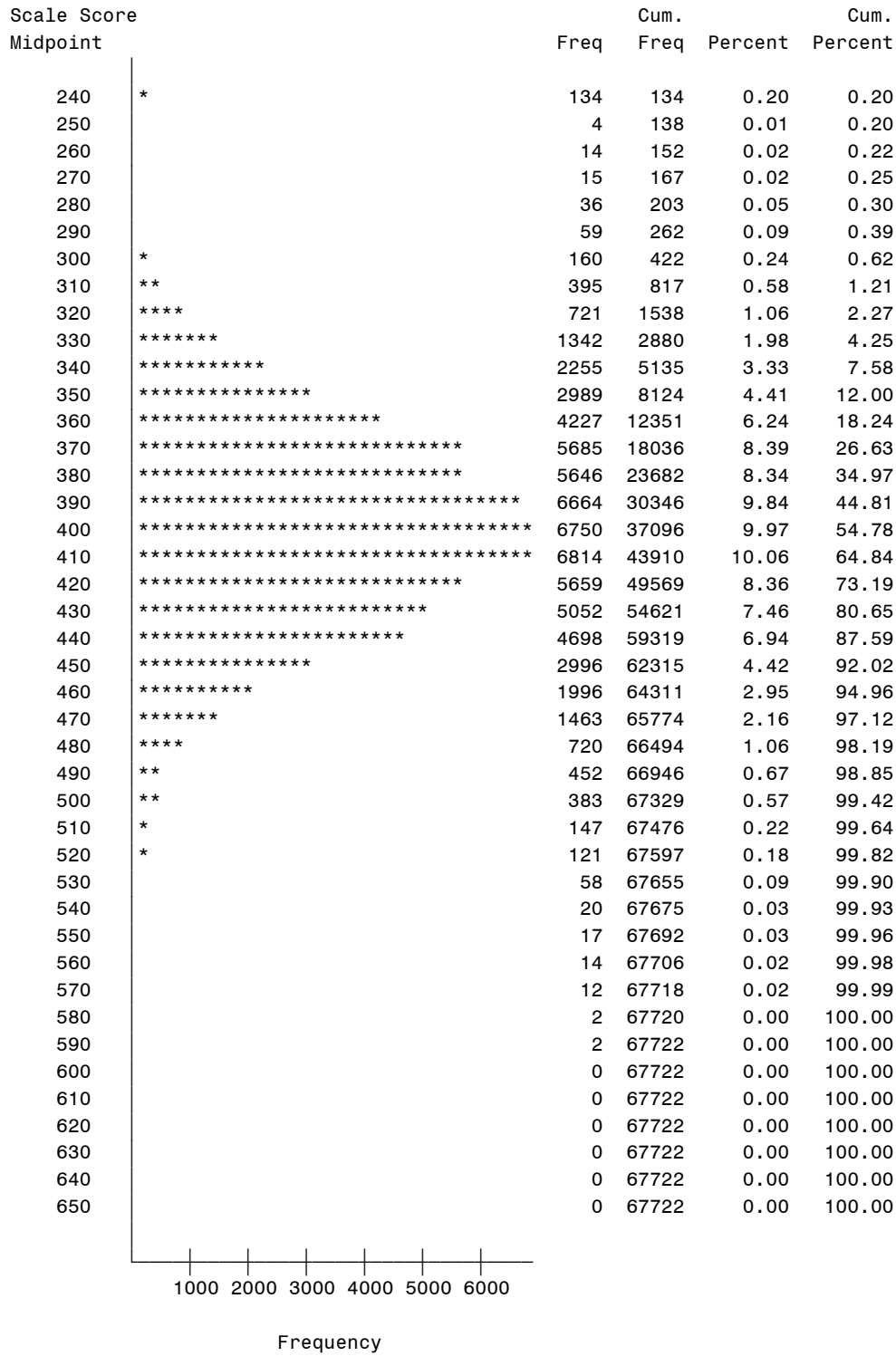
**Figure B.13. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2007 Scale Scores with the Percent Differences between CDFs: Grade 4 Form B**



**Figure B.14. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2007 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 4 Form B**

*Note.* The scale score distributions and the Tukey plots for 2007 generated based on raw scores from 2007 data files.

**Year 2003 Grade=5**



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



Year 2007 Grade=5 Form=A

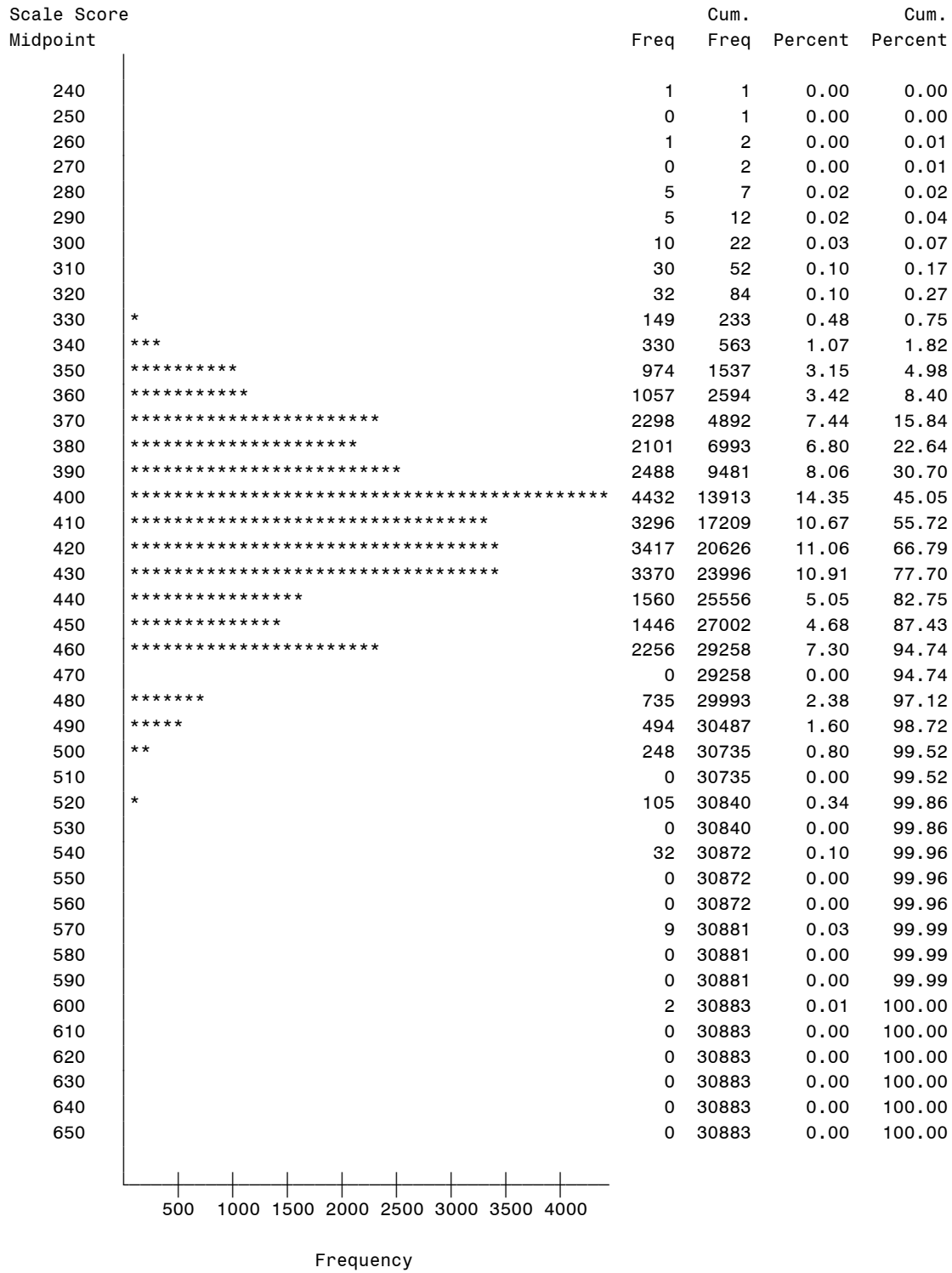
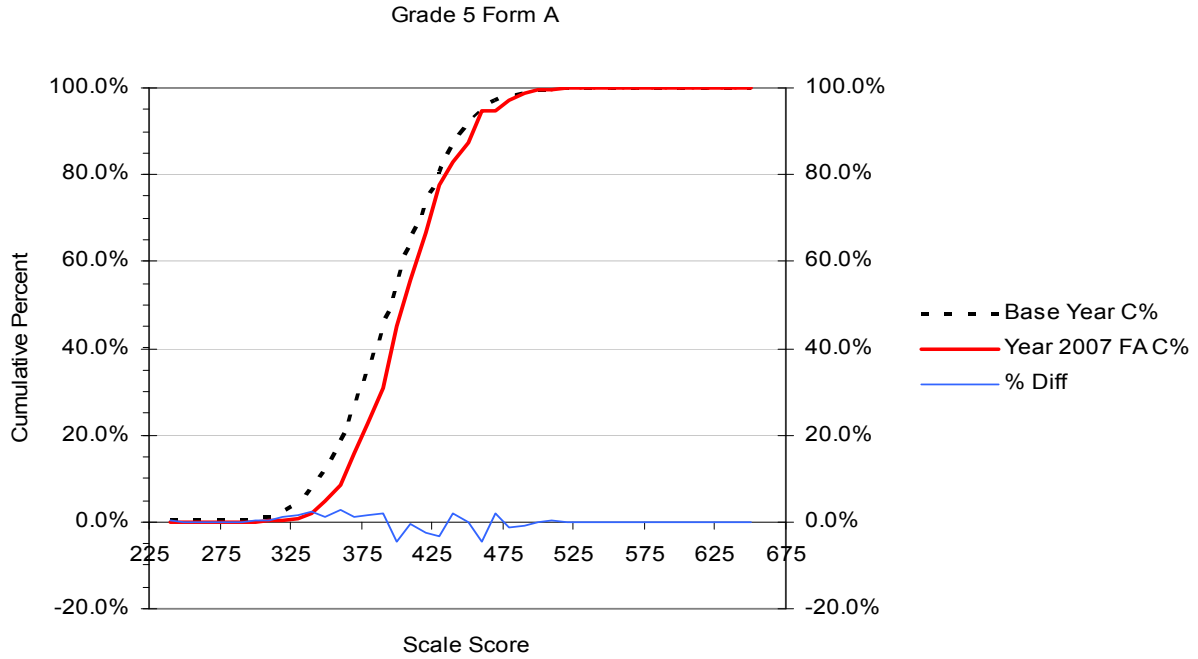
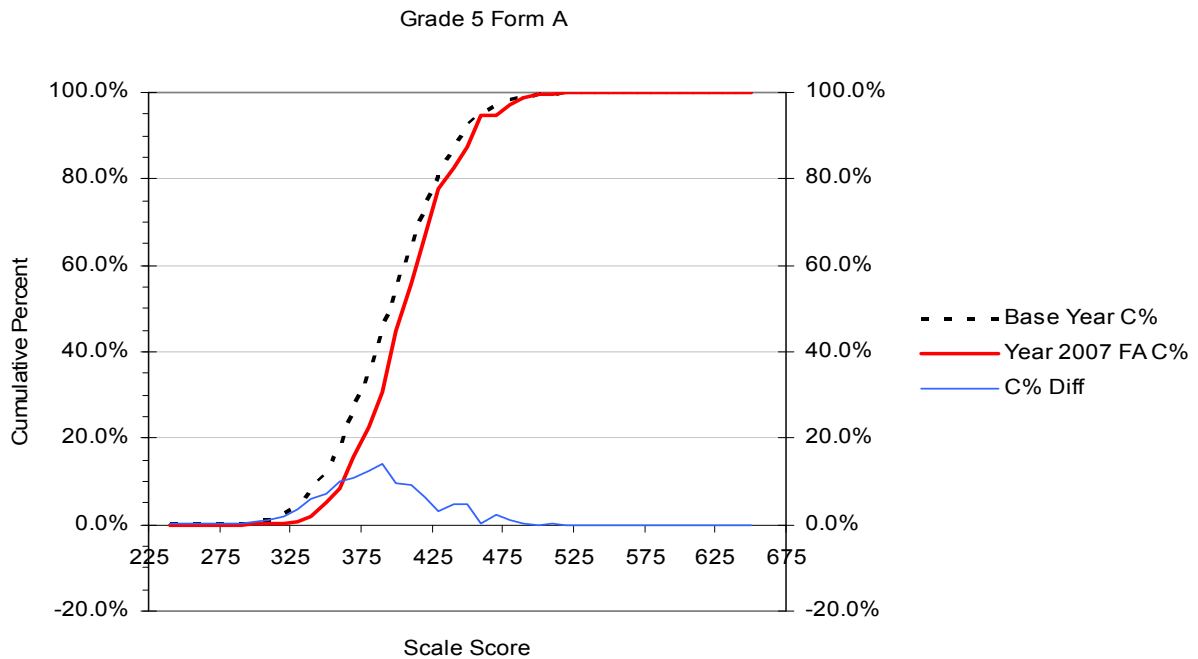


Figure B.16 Year 2007 Scale Score Distribution: Grade 5 Form A





**Figure B.17. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2007 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 2007 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 5 Form A**

Year 2007 Grade=5 Form=B

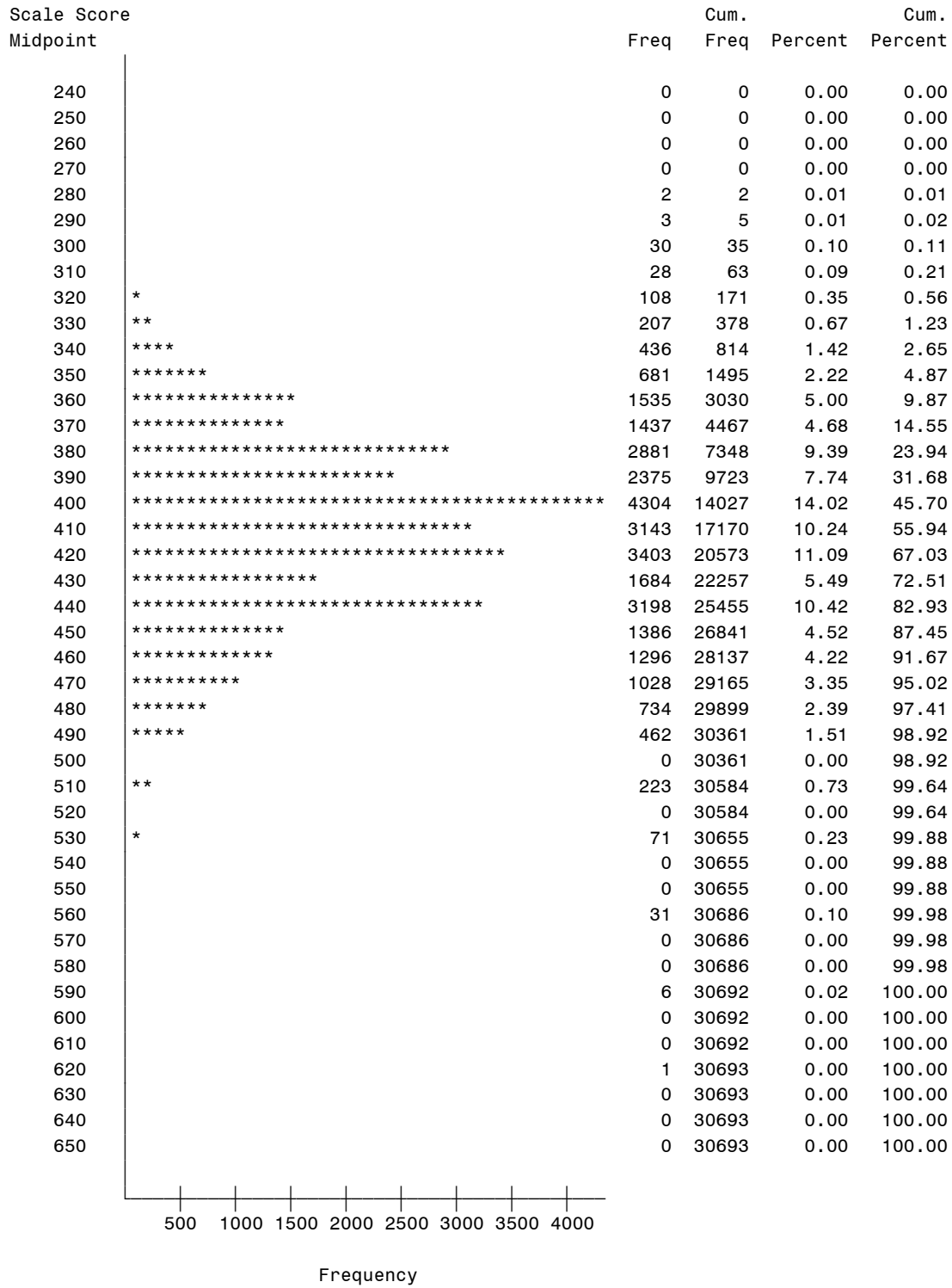
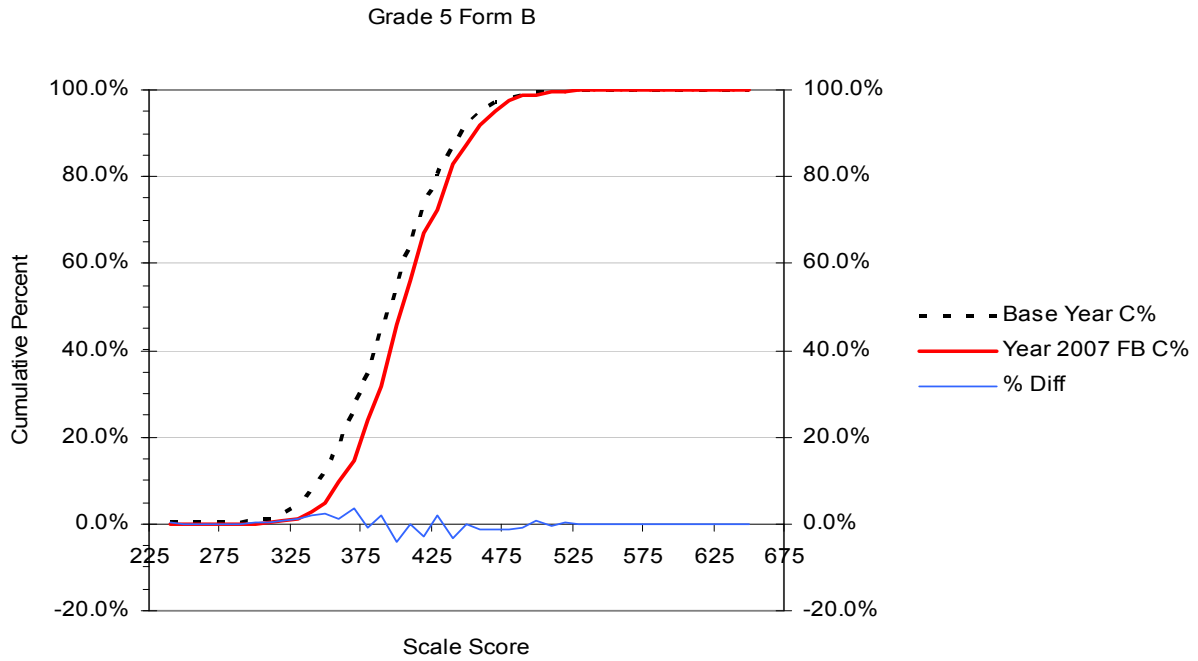
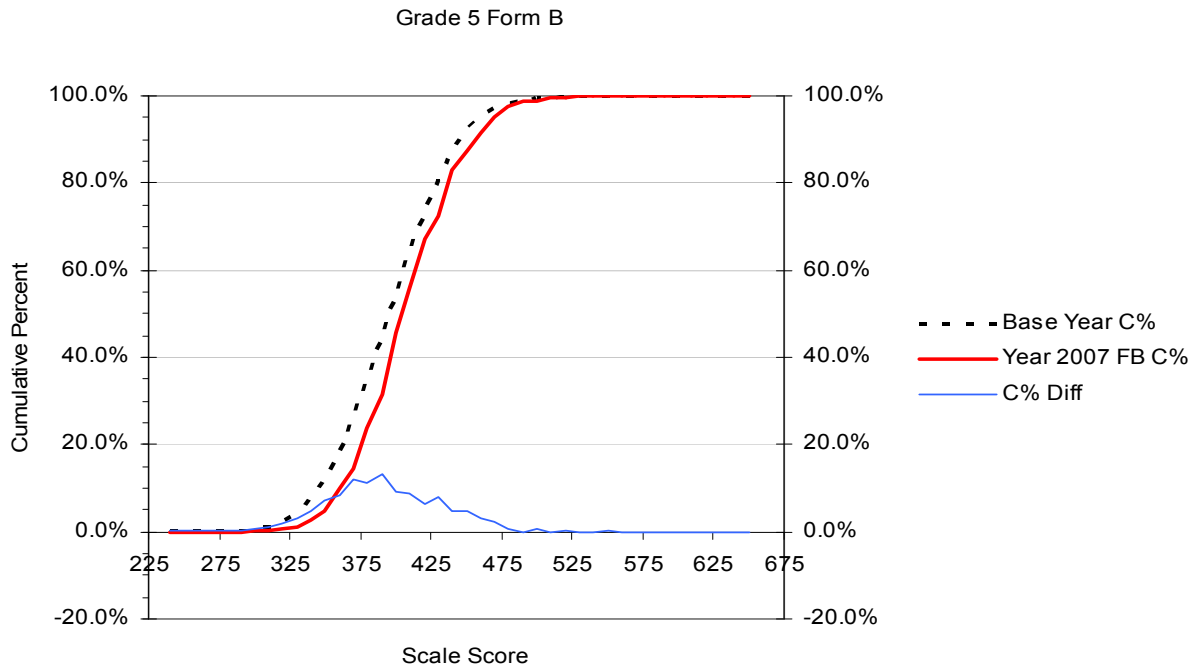


Figure B.19 Year 2007 Scale Score Distribution: Grade 5 Form B



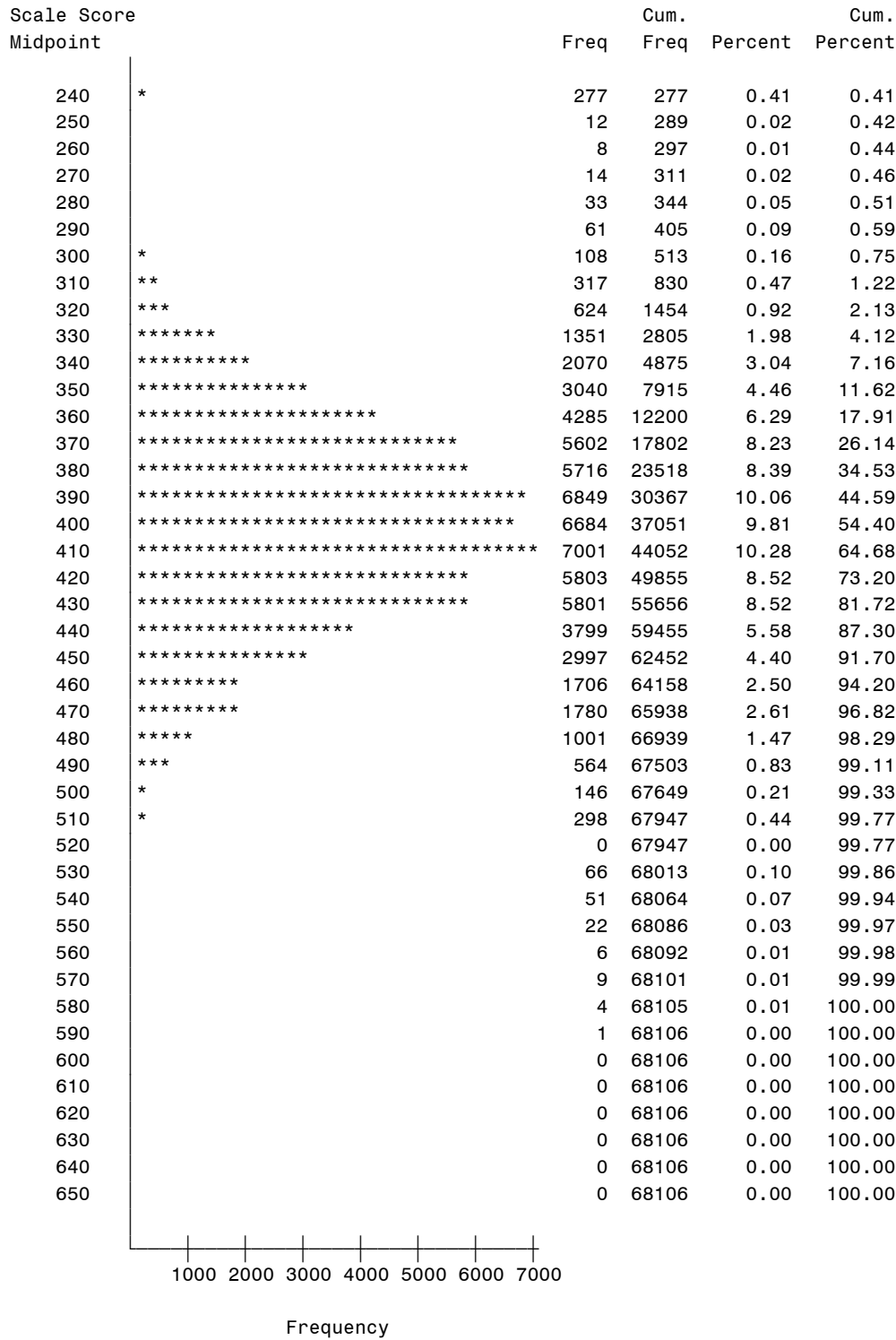
**Figure B.20. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2007 Scale Scores with the Percent Differences between CDFs: Grade 5 Form B**



**Figure B.21. Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2007 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 5 Form B**

*Note.* The scale score distributions and the Tukey plots for 2007 generated based on raw scores from 2007 data files.

**Year 2004 Grade=6**



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



Year 2007 Grade=6 Form=A

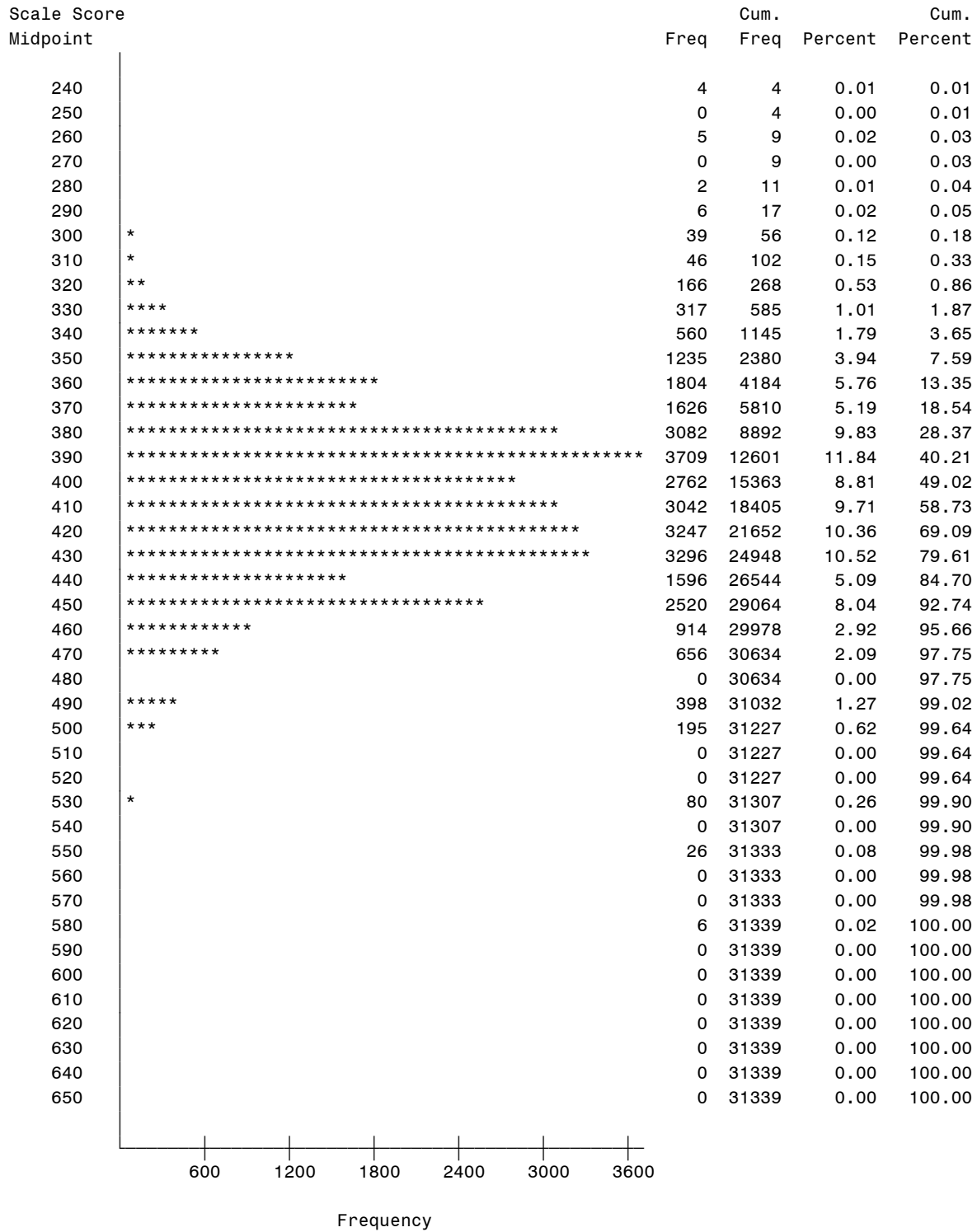
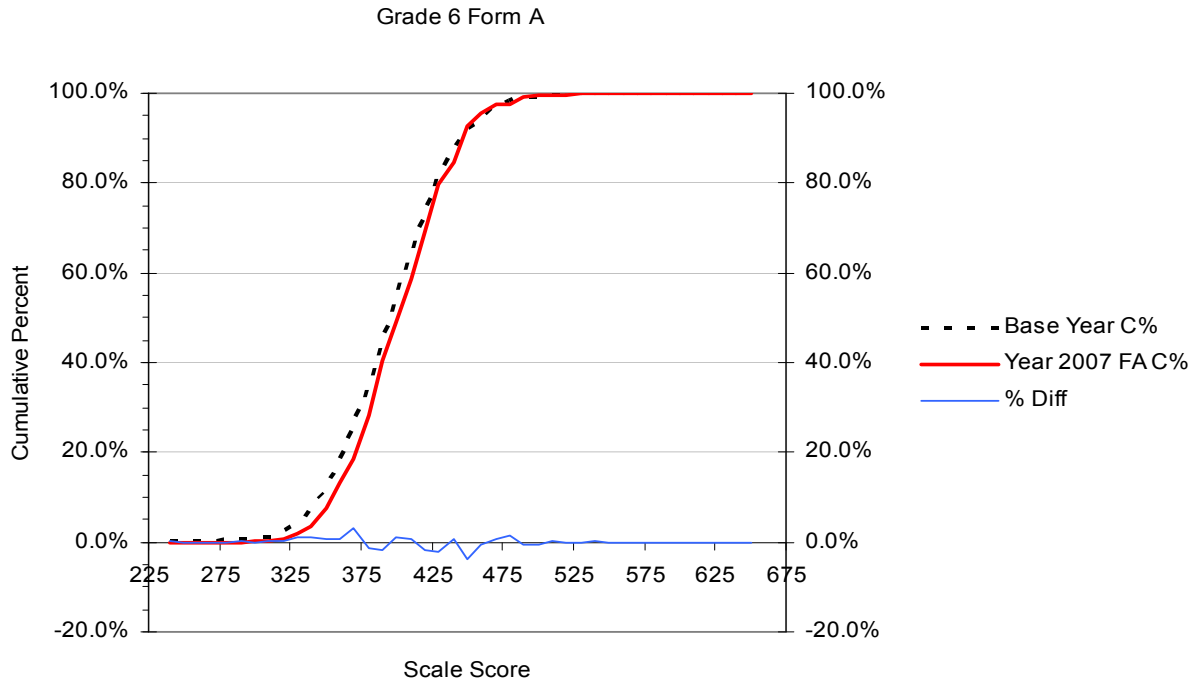
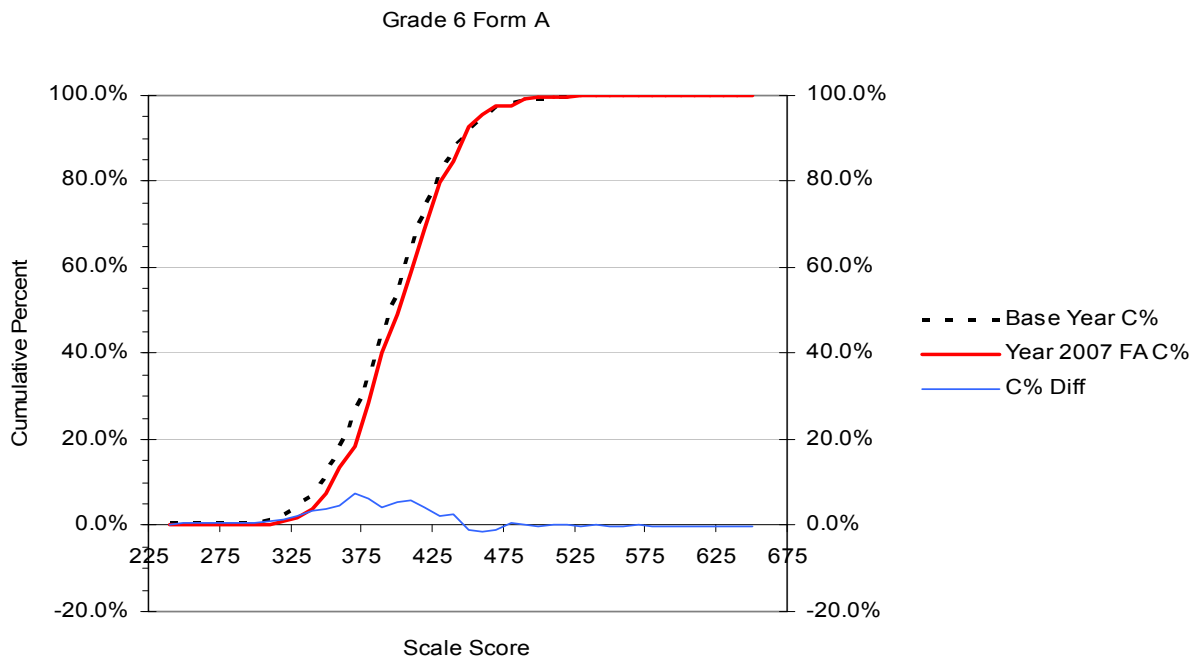


Figure B.23 Year 2007 Scale Score Distribution: Grade 6 Form A



**Figure B.24. Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2007 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 2007 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 6 Form A**

Year 2007 Grade=6 Form=B

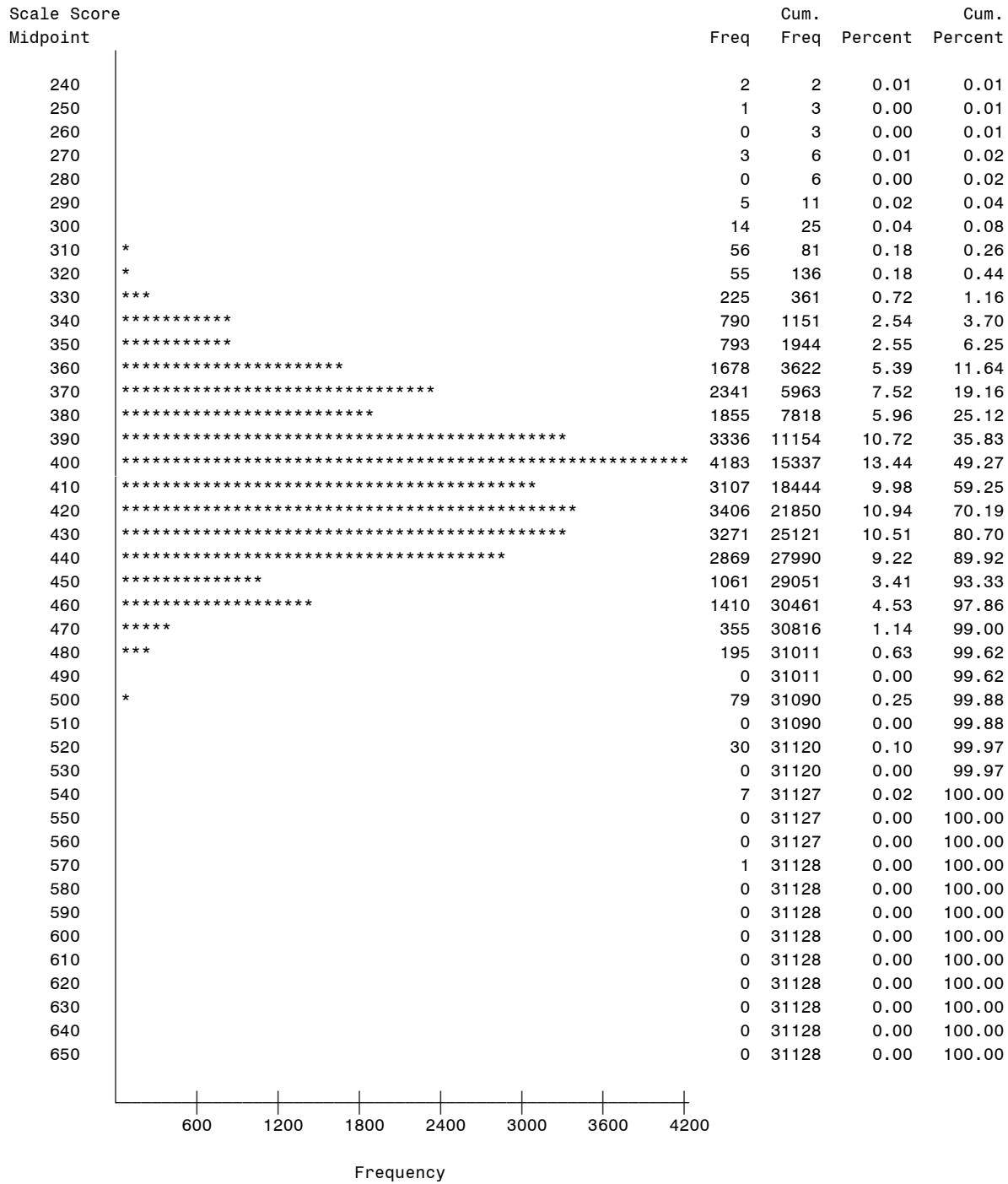
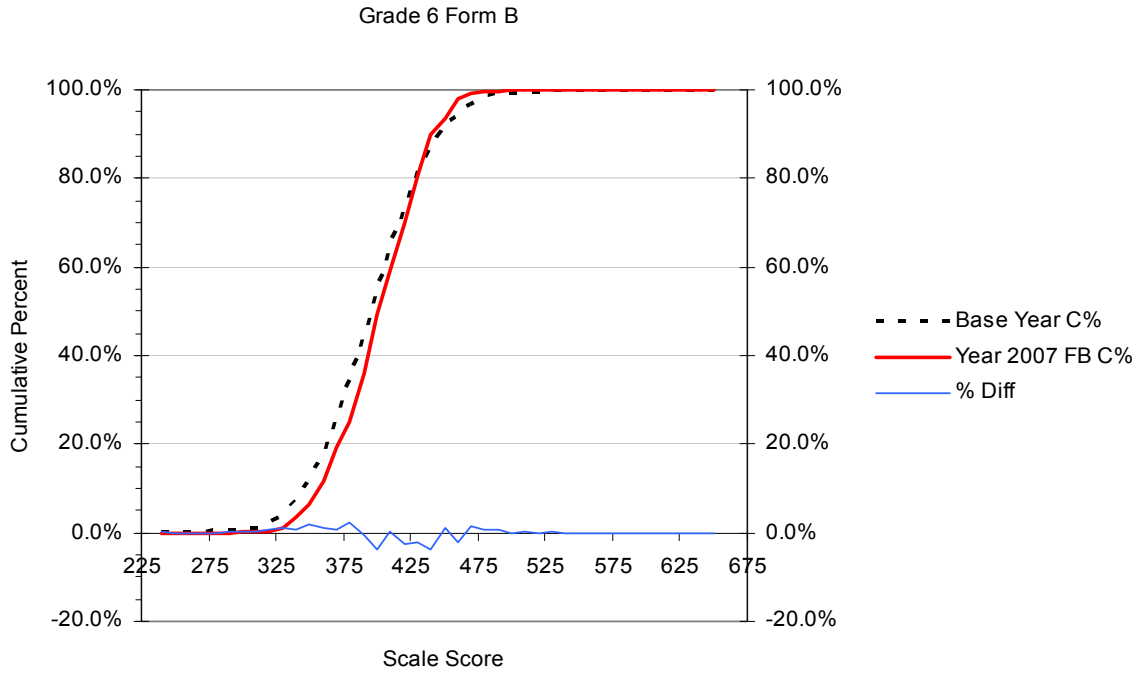
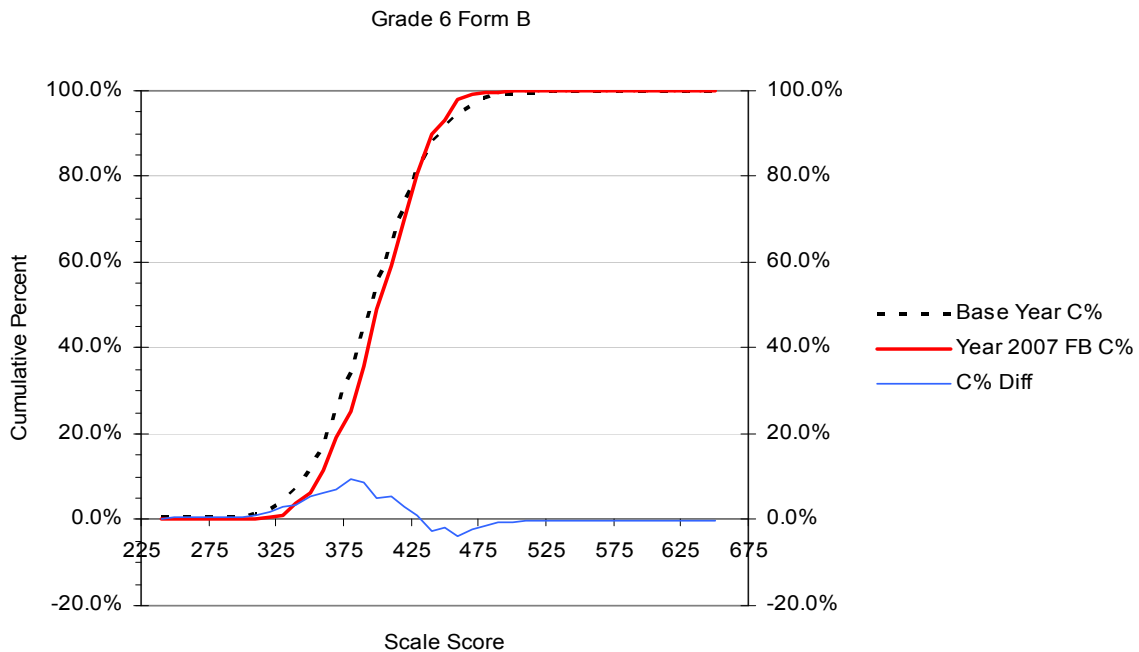


Figure B.26 Year 2007 Scale Score Distribution: Grade 6 Form B





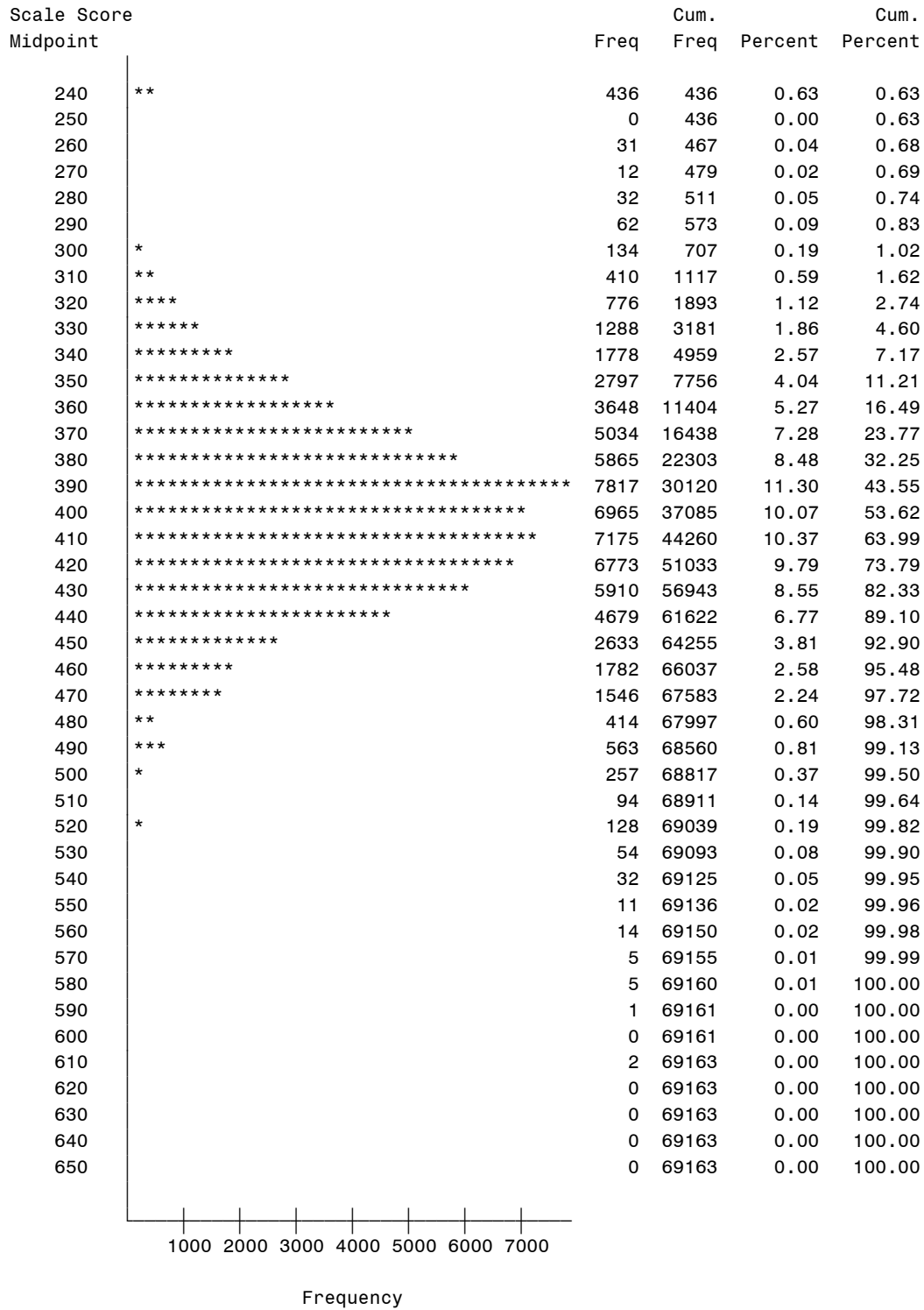
**Figure B.27 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2007 Scale Scores with the Percent Differences between CDFs: Grade 6 Form B**



**Figure B.28 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2007 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 6 Form B**

*Note.* The scale score distributions and the Tukey plots for 2007 generated based on raw scores from 2007 data files.

**Year 2004 Grade=7**



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



Year 2007 Grade=7 Form=A

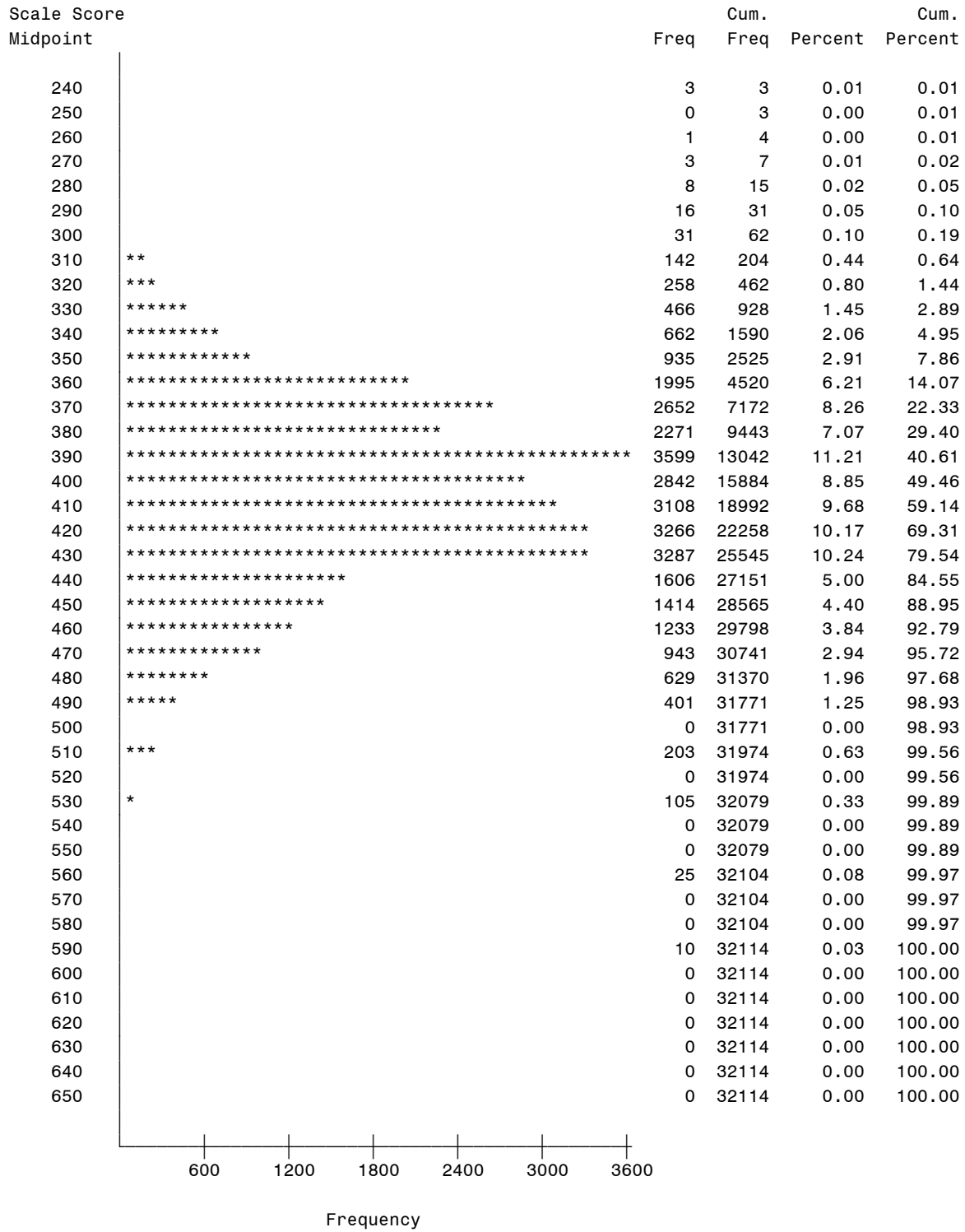
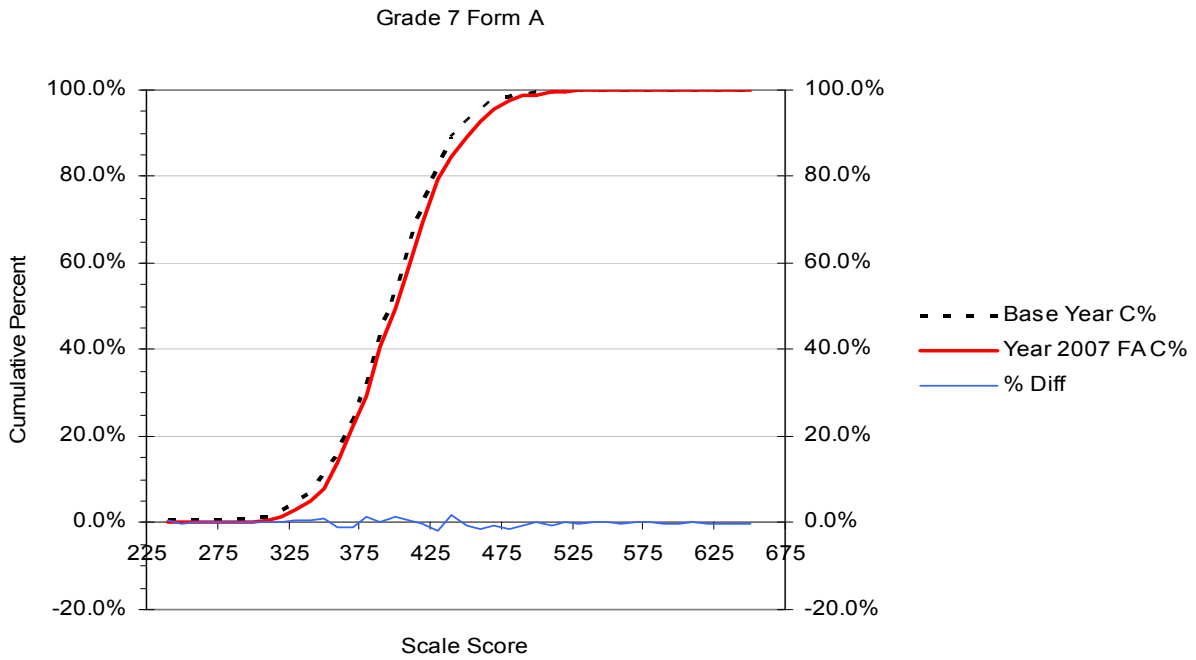
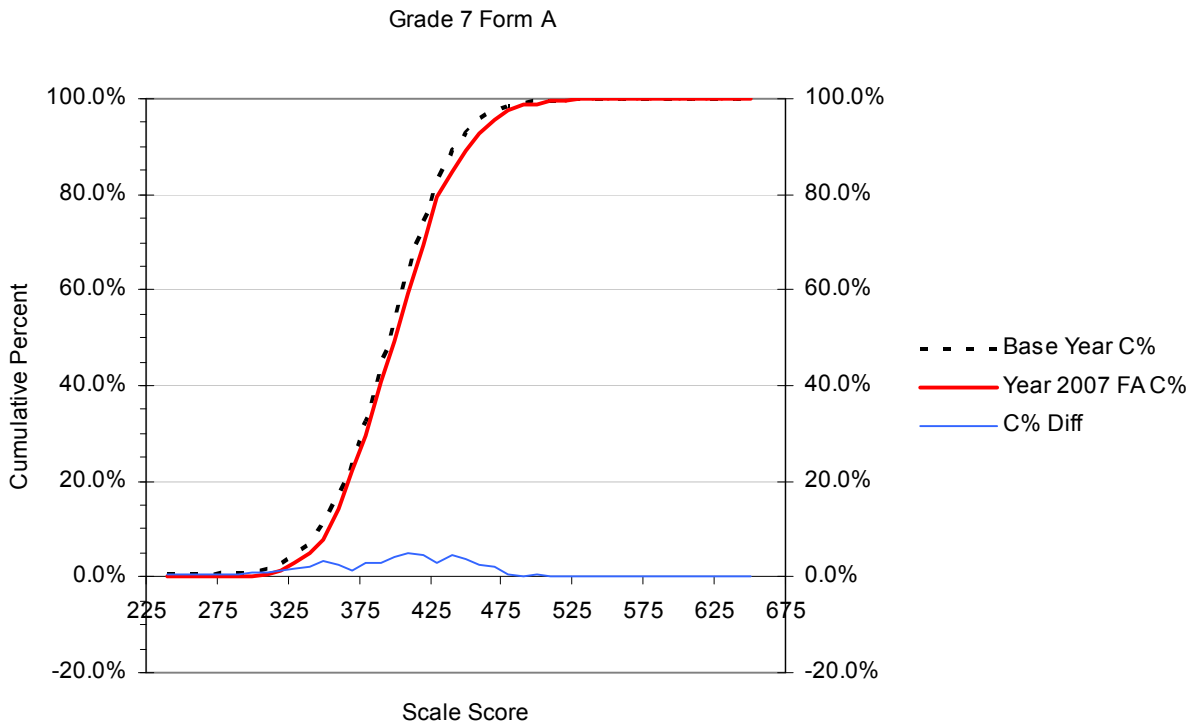


Figure B.30 Year 2007 Scale Score Distribution: Grade 7 Form A



**Figure B.31 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2007 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 2007 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 7 Form A**

Year 2007 Grade=7 Form=B

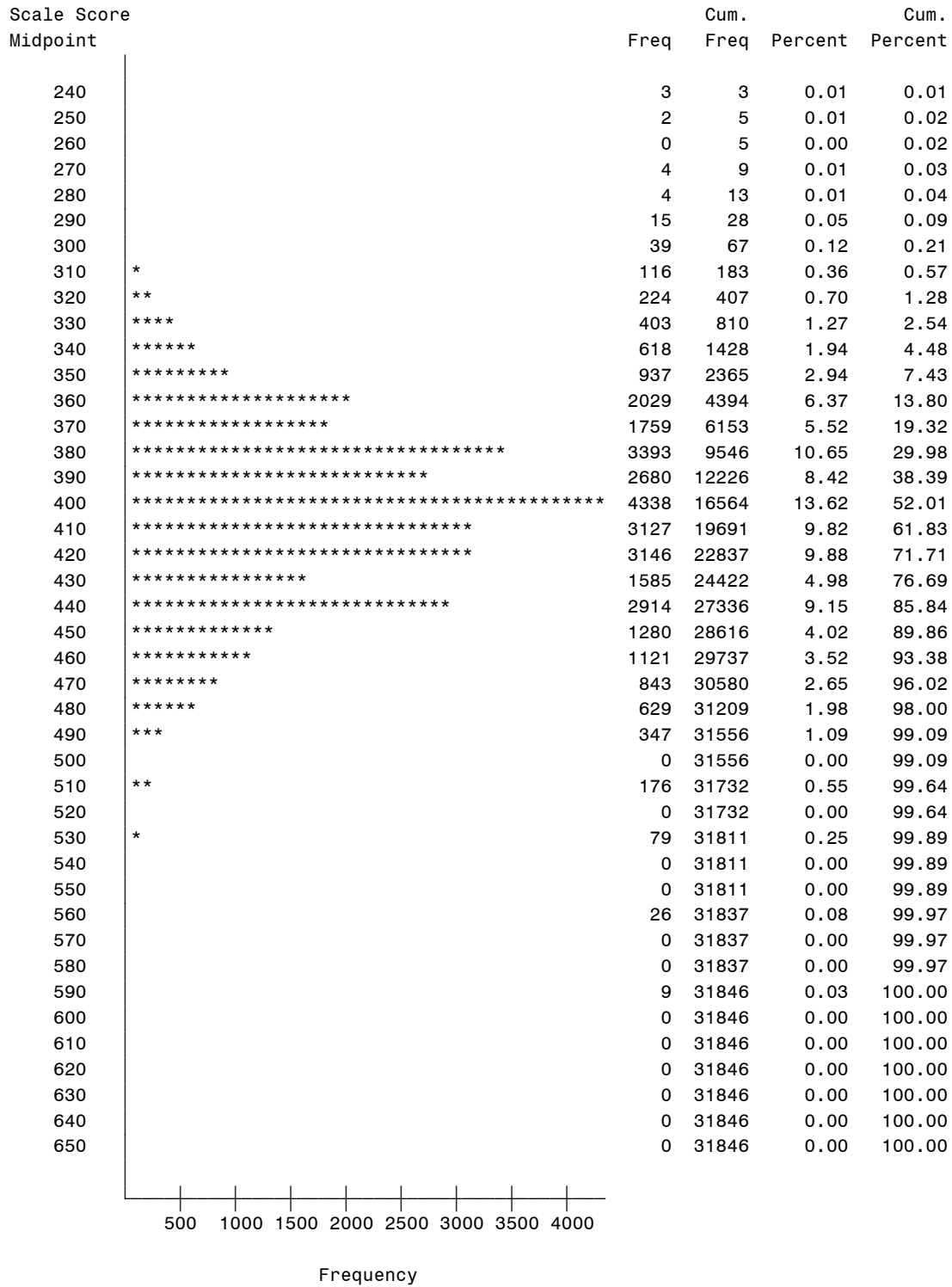
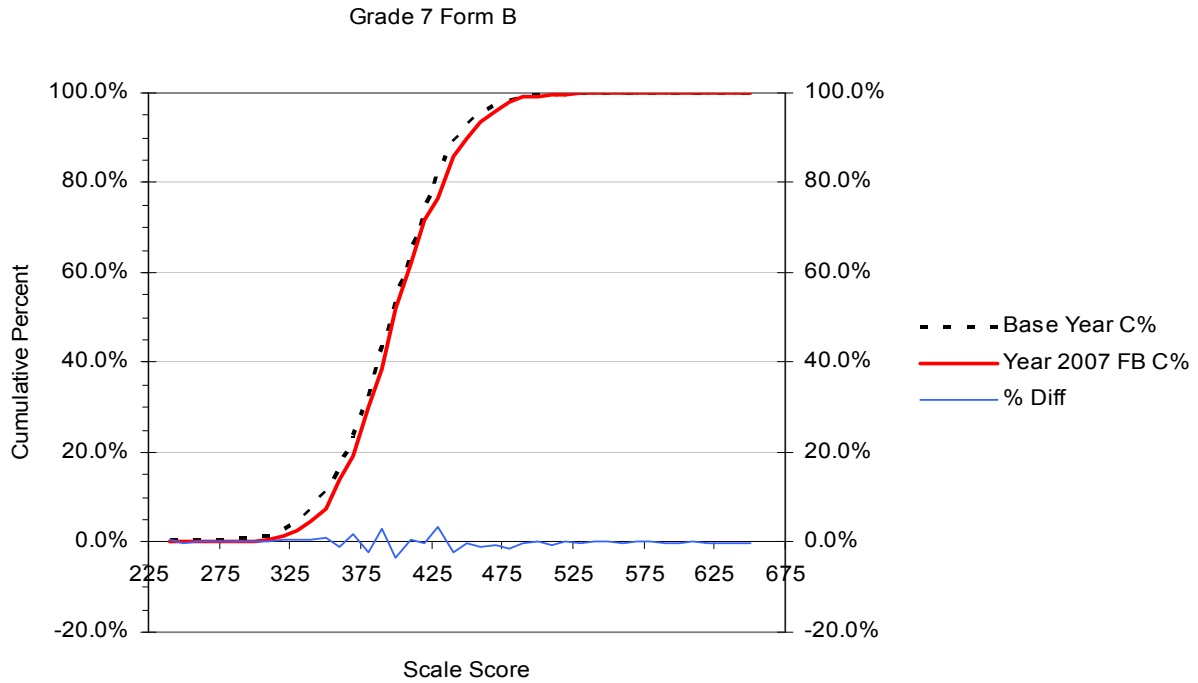
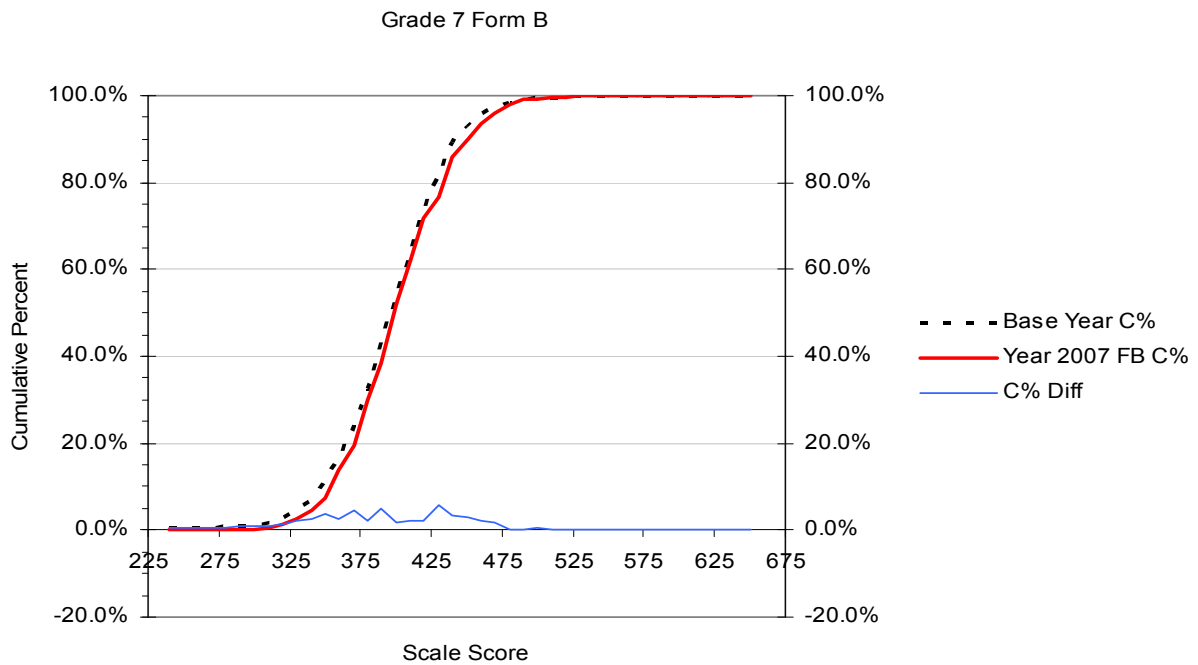


Figure B.33 Year 2007 Scale Score Distribution: Grade 7 Form B



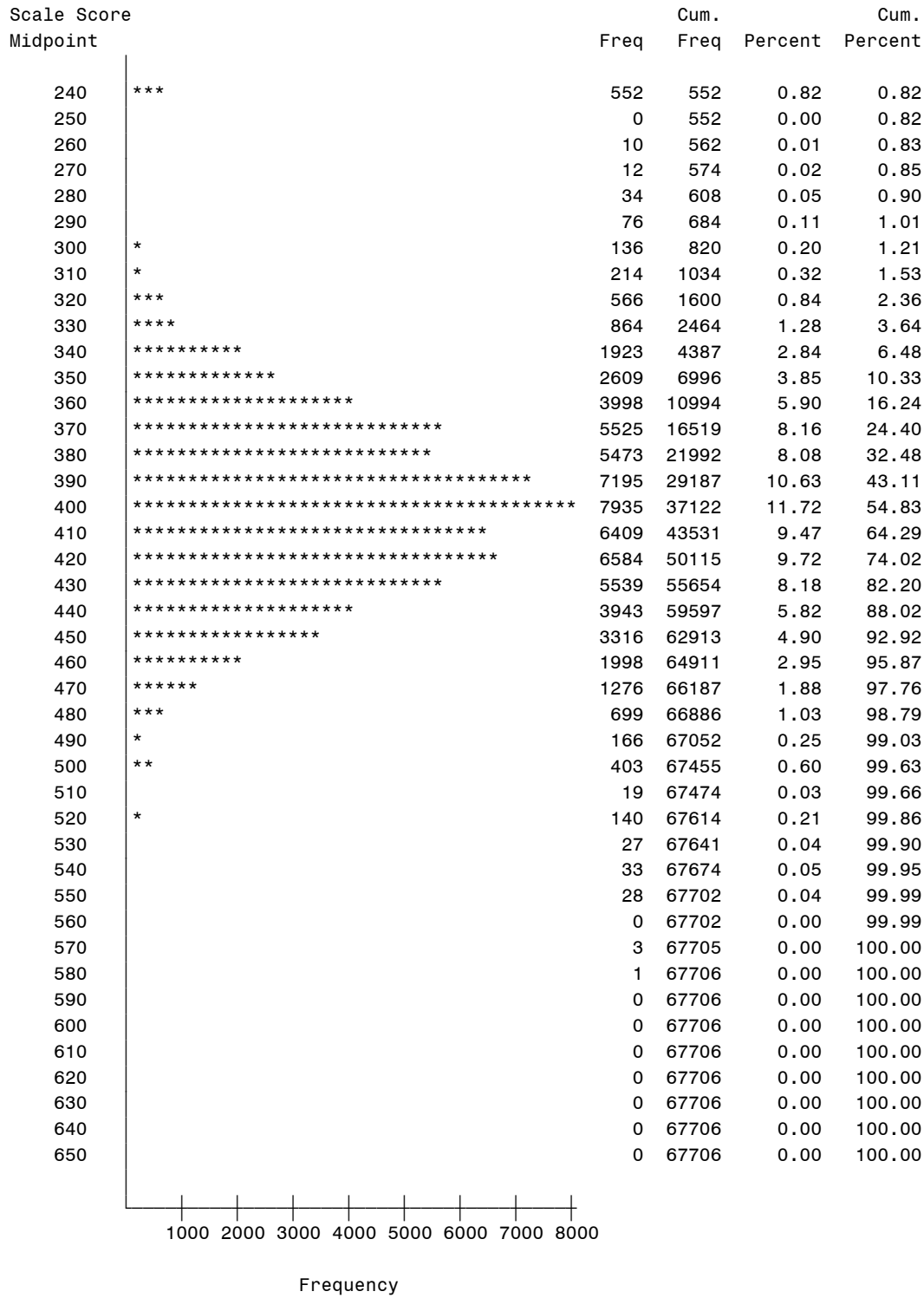
**Figure B.34 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2007 Scale Scores with the Percent Differences between CDFs: Grade 7 Form B**



**Figure B.35 Cumulative Distribution Functions (CDFs) for the Year 2004 vs. Year 2007 Scale Scores with the Percent Differences between CDFs: Grade 7 Form B**

*Note.* The scale score distributions and the Tukey plots for 2007 generated based on raw scores from 2007 data files.

**Year 2003 Grade=8**



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





Year 2007 Grade=8 Form=A

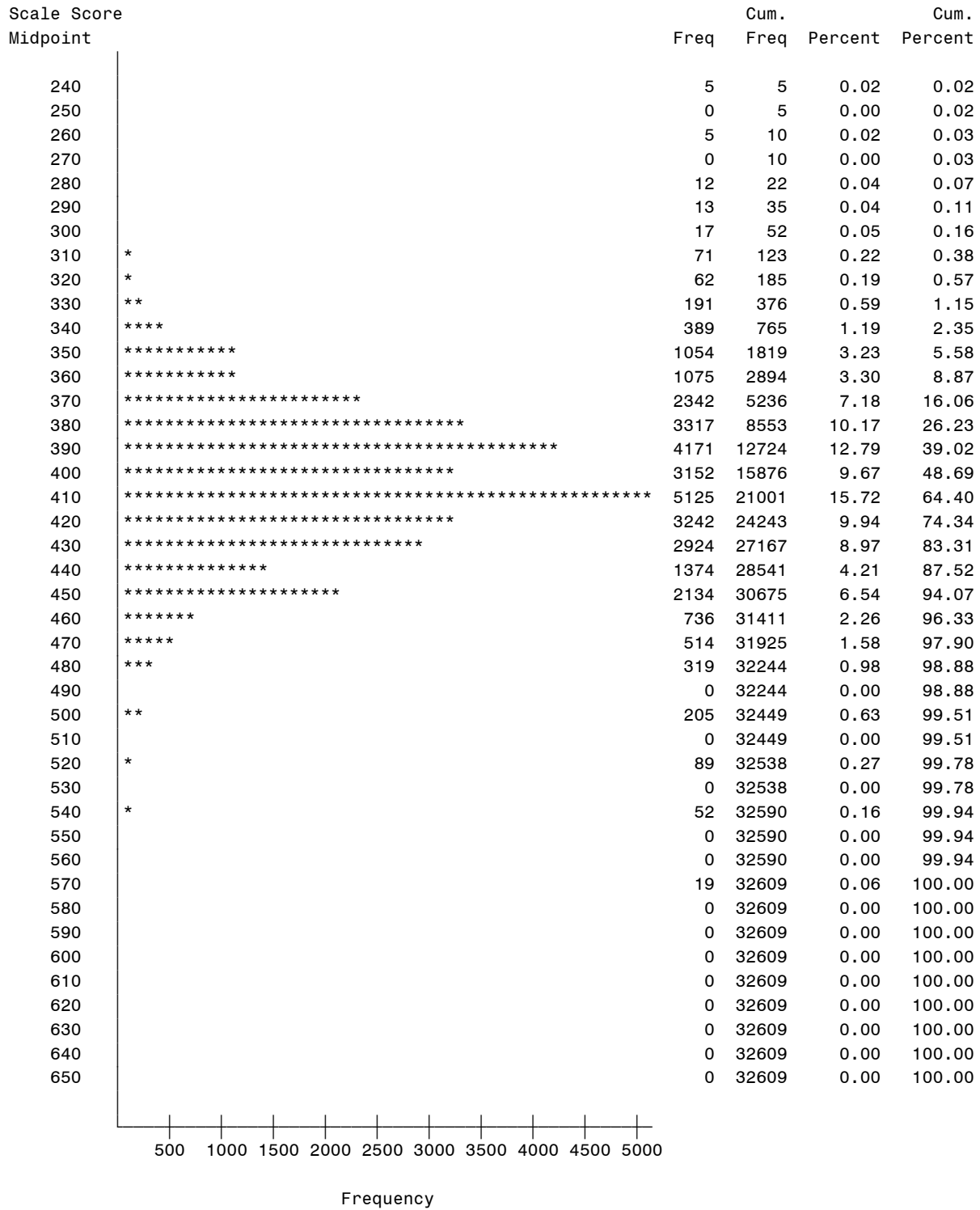
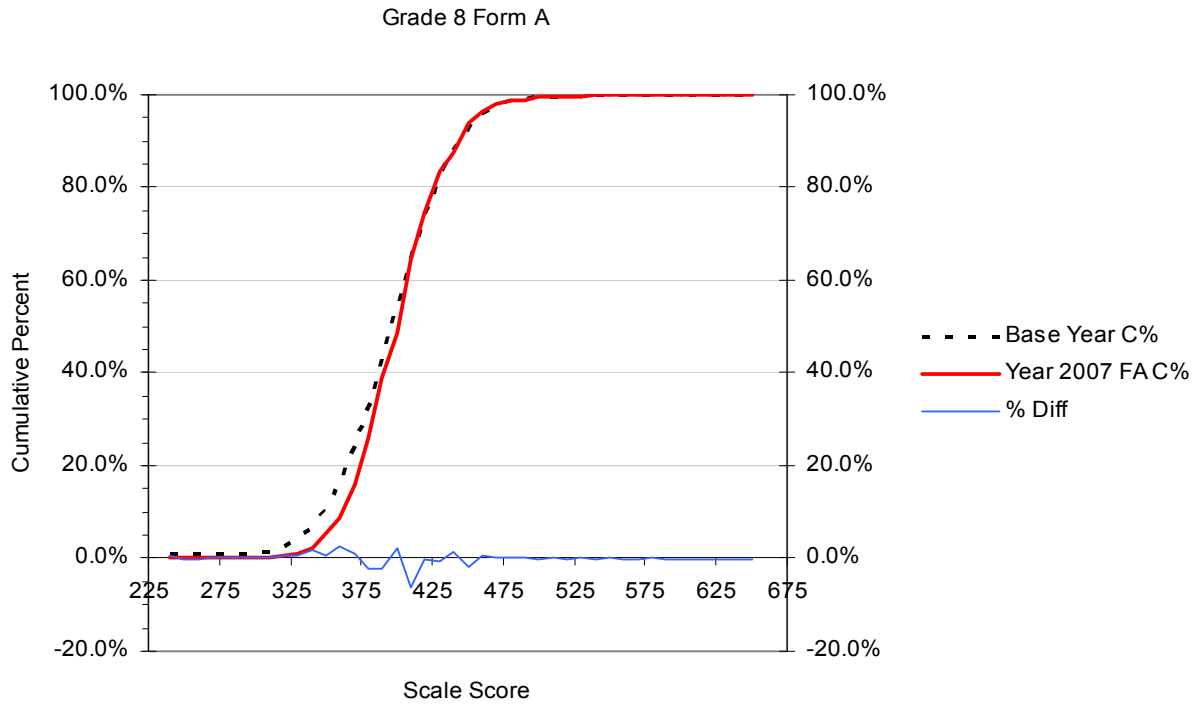
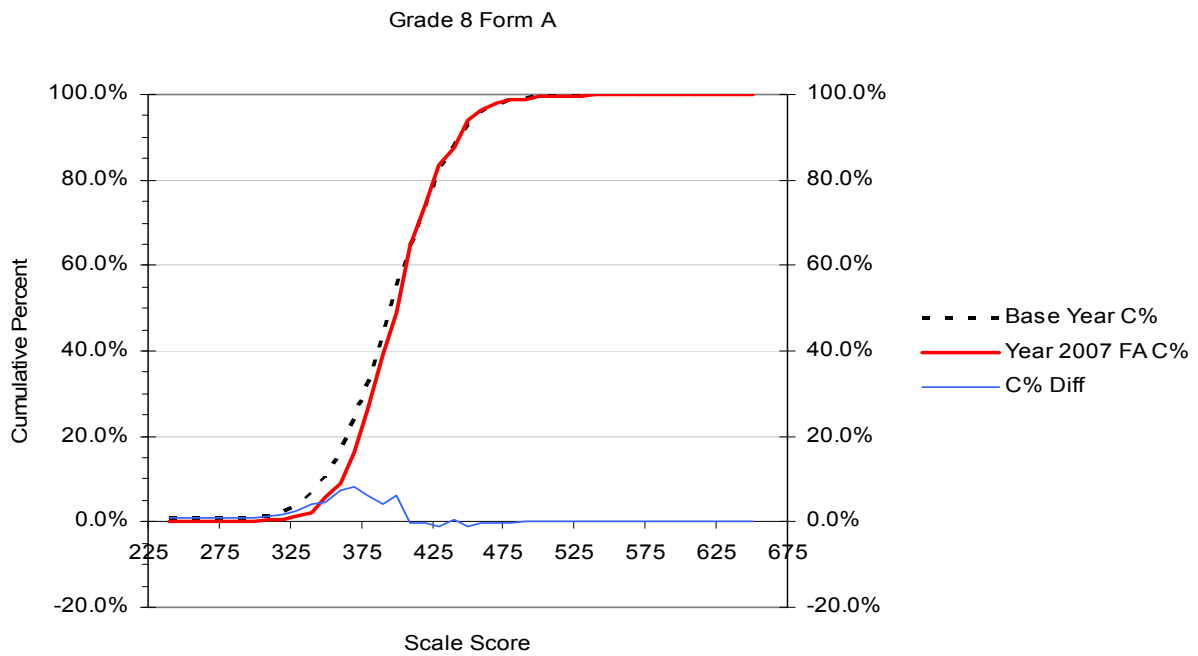


Figure B.37 Year 2007 Scale Score Distribution: Grade 8 Form A

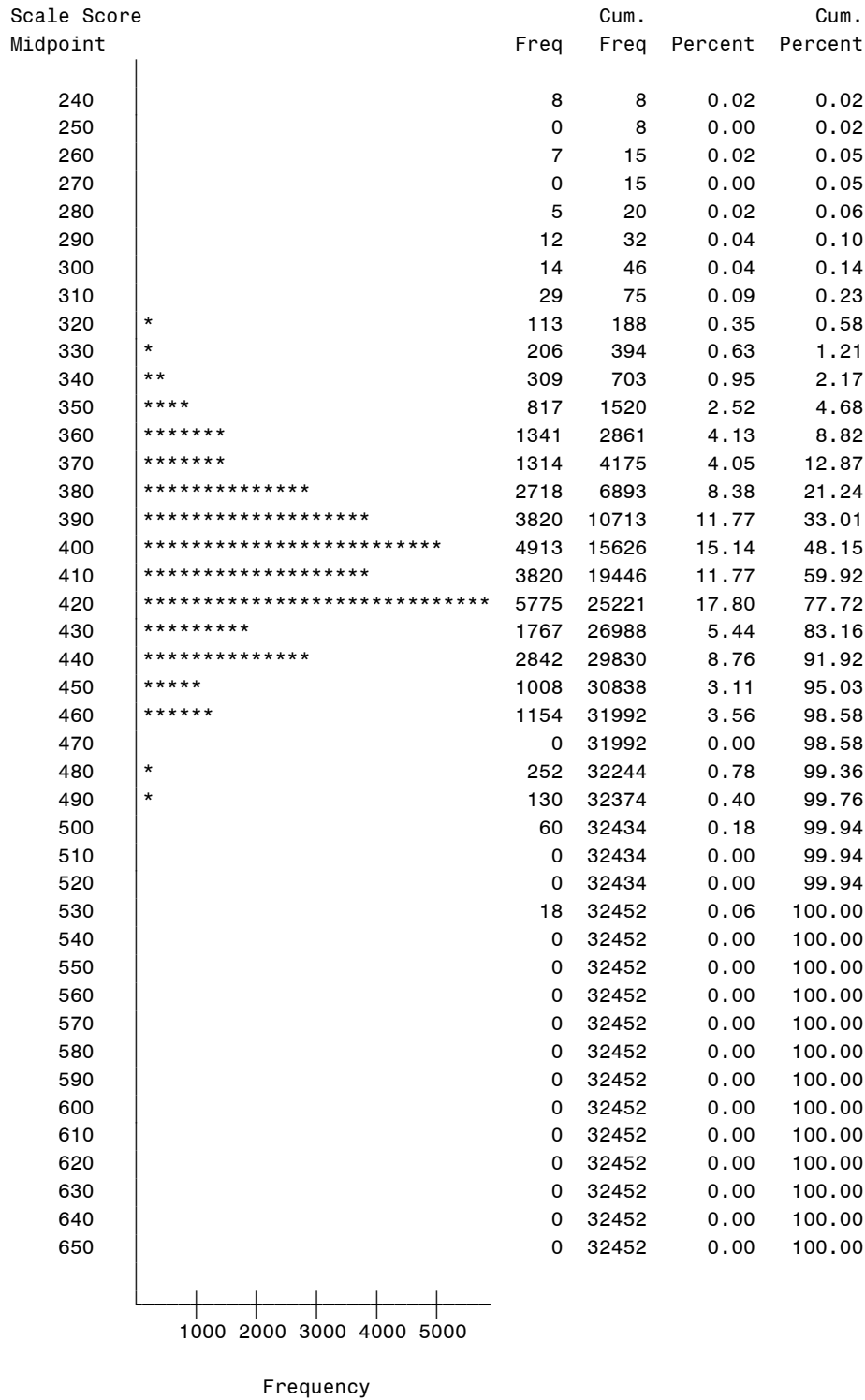


**Figure B.38 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2007 Scale Scores with the Percent Differences between CDFs: Grade 8 Form A**

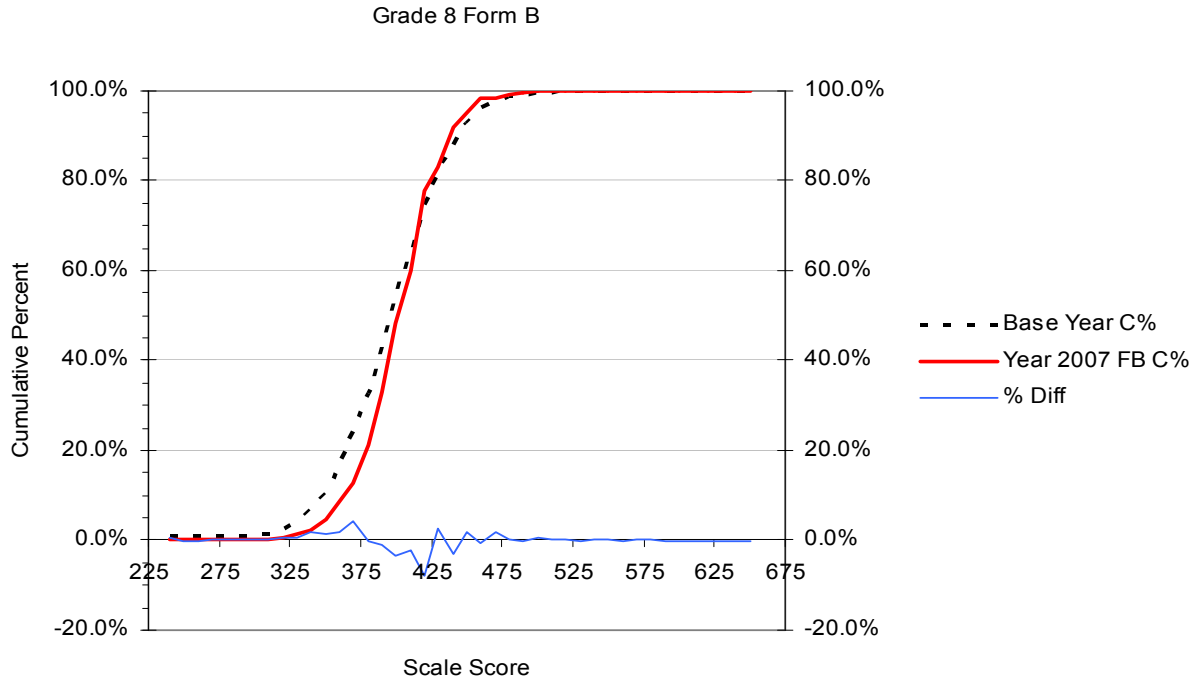


**Figure B.39 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2007 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 8 Form A**

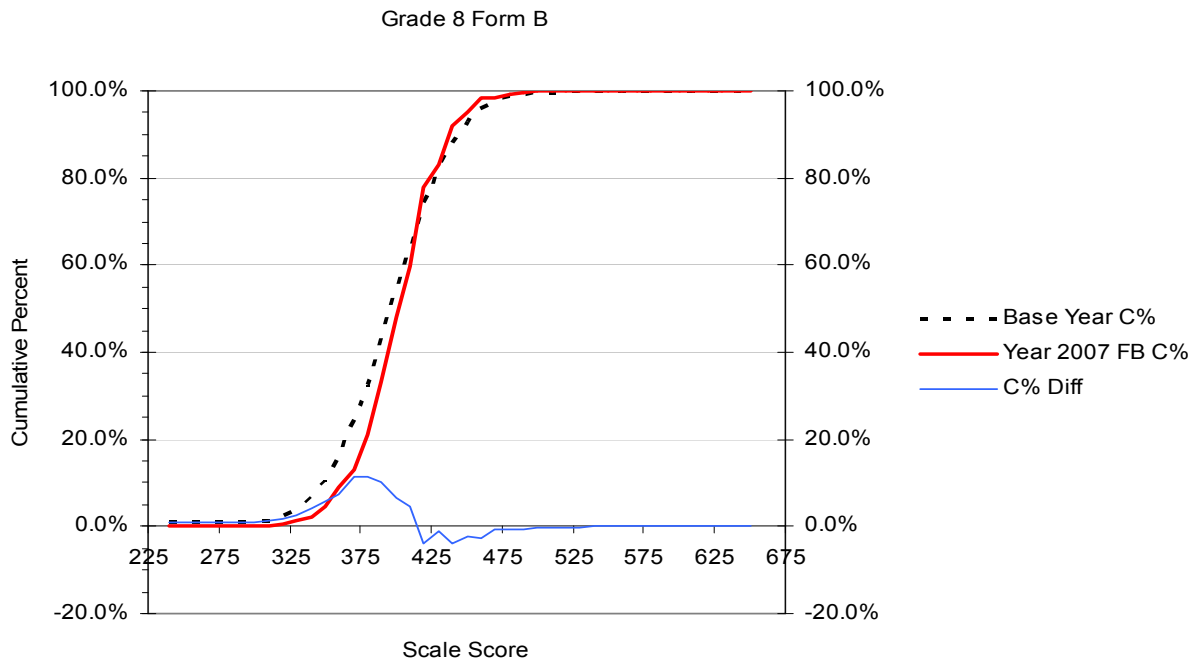
**Year 2007 Grade=8 Form=B**



**Figure B.40 Year 2007 Scale Score Distribution: Grade 8 Form B**



**Figure B.41 Cumulative Distribution Functions (CDFs) for the Year 2003 vs. Year 2007 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 2007 Scale Scores with the Cumulative Percent Differences between CDFs: Grade 8 Form B**

*Note.* The scale score distributions and the Tukey plots for 2007 generated based on raw scores from 2007 data files.