Online Supplementary Material (Appendices)

Pareto distributions, top incomes, and recent trends in UK income inequality

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Appendices:

A. Zipf plots, by year
B. Mean excess plots, by year
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Zipf plots, by year: size of marker proportional to survey weight (pareto11)
Zipf plots, by year: size of marker proportional to survey weight (pareto11)
Zipf plots, by year: size of marker proportional to survey weight (pareto11)

Appendix A-3
Zipf plots, by year: size of marker proportional to survey weight (pareto11)
Zipf plots, by year: size of marker proportional to survey weight (pareto11)

Appendix A-5
Zipf plots, by year: size of marker proportional to survey weight (pareto11)
Zipf plots, by year: size of marker proportional to survey weight (pareto11)
Zipf plots, by year: size of marker proportional to survey weight (pareto11)
Mean excess plots, by year (pareto03)

1995

1996

Appendix B-1
Mean excess plots, by year (pareto03)

1997

1998

Appendix B-2
Mean excess plots, by year (pareto03)

1999

2000

Appendix B-3
Mean excess plots, by year (pareto03)

2001

2002

Appendix B-4
Mean excess plots, by year (pareto03)

2003

2004
Mean excess plots, by year (pareto03)

2005

2006
Mean excess plots, by year (pareto03)

2007

2009

Appendix B-7
Mean excess plots, by year (pareto03)

2010
Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

1995

1996
Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

1997

1998

Appendix C-2
Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

1999

2000

Appendix C-3
Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

2001

2002
Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

2003

2004

Appendix C-5
Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

2005

2006
Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

2007

2009

Appendix C-7
Zenga plots, by year, threshold = £60k p.a. (pareto03; plots for other thresholds available)

2010
Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

1995

1996

Appendix D-1
Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

1997

1998

Appendix D-2
Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

1999

![1999 LR test statistic graph]

2000

![2000 LR test statistic graph]

Appendix D-3
Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

2001

2002
Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

2003

2004
Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

2005

2006
Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

2007

2009

Appendix D-7
Likelihood ratio test statistics (Pareto I versus Pareto II), by year and threshold (pareto08)

2010
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1995, threshold = £40,000

1996, threshold = £40,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1997, threshold = £40,000

1998, threshold = £40,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1999, threshold = £40,000

2000, threshold = £40,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2001, threshold = £40,000

2002, threshold = £40,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2003, threshold = £40,000

2004, threshold = £40,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2005, threshold = £40,000

2006, threshold = £40,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2007, threshold = £40,000

2009, threshold = £40,000

Appendix E-7
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2010, threshold = £40,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1995, threshold = £60,000

1996, threshold = £60,000

Appendix E-9
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1997, threshold = £60,000

1998, threshold = £60,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1999, threshold = £60,000

2000, threshold = £60,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2001, threshold = £60,000

2002, threshold = £60,000

Appendix E-12
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2003, threshold = £60,000

2004, threshold = £60,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2005, threshold = £60,000

2006, threshold = £60,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2007, threshold = £60,000

2009, threshold = £60,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2010, threshold = £60,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1995, threshold = £80,000

1996, threshold = £80,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1997, threshold = £80,000

1998, threshold = £80,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1999, threshold = £80,000

2000, threshold = £80,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2001, threshold = £80,000

2002, threshold = £80,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2003, threshold = £80,000

2004, threshold = £80,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2005, threshold = £80,000

2006, threshold = £80,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2007, threshold = £80,000

2009, threshold = £80,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2010, threshold = £80,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1995, threshold = £120,000

1996, threshold = £120,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1997, threshold = £120,000

![Graphs for 1997, threshold = £120,000]

1998, threshold = £120,000

![Graphs for 1998, threshold = £120,000]
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

1999, threshold = £120,000

2000, threshold = £120,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2001, threshold = £120,000

2002, threshold = £120,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2003, threshold = £120,000

2004, threshold = £120,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2005, threshold = £120,000

2006, threshold = £120,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2007, threshold = £120,000

2009, threshold = £120,000
PP plots by year and threshold: Pareto I on left; Pareto II on right (pareto07)

2010, threshold = £120,000
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p^{90}$, $p^{95}$, $p^{99}$, and $p^{99.5}$ (pareto10, 12, 13)

Pareto I

1995

Appendix F-1
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): \( p_{90}, p_{95}, p_{99}, \) and \( p_{99.5} \) (pareto10, 12, 13)

1997

1998

Appendix F-2
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): \( p^{90}, p^{95}, p^{99}, \) and \( p^{99.5} \) (pareto10, 12, 13)

1999

2000

Appendix F-3
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

2001

Appendix F-4
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): \( p_{90}, p_{95}, p_{99}, \) and \( p_{99.5} \) (pareto10, 12, 13)

**2003**

**2004**

Appendix F-5
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

2005

2006

Appendix F-6
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

2007

![Graph of Pareto I and II parameters for 2007]

2009

![Graph of Pareto I and II parameters for 2009]
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p^{90}$, $p^{95}$, $p^{99}$, and $p^{99.5}$ (pareto10, 12, 13)

2010
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

Pareto II (Generalized Pareto)

1995
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

1996

Appendix F-10
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

1997
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): \( p_{90}, p_{95}, p_{99}, \) and \( p_{99.5} \) (pareto10, 12, 13)

1998
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): \( p^{90}, p^{95}, p^{99}, \) and \( p^{99.5} \) (pareto10, 12, 13)

1999

Appendix F-13
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

2000
Estimates of Pareto I and II parameters, by estimator, threshold, and year

Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

Appendix F-15
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

2002
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p^{90}$, $p^{95}$, $p^{99}$, and $p^{99.5}$ (pareto10, 12, 13)

2003

Appendix F-17
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): \( p_{90} \), \( p_{95} \), \( p_{99} \), and \( p_{99.5} \) (pareto10, 12, 13)

2004

Appendix F-18
Estimates of Pareto I and II parameters, by estimator, threshold, and year

Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

2005

Appendix F-19
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): \( p_{90}, p_{95}, p_{99}, \) and \( p_{99.5} \) (pareto10, 12, 13)

2006
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

2007

Appendix F-21
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

2009

Appendix F-22
Estimates of Pareto I and II parameters, by estimator, threshold, and year
Vertical dashed lines show (from left to right): $p_{90}$, $p_{95}$, $p_{99}$, and $p_{99.5}$ (pareto10, 12, 13)

2010
Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

Statistics derived from tax return data (SPI) can be identified by their suffixes:
- “ml”: Pareto I, ML estimator
- “mlo”: Pareto I, ML-OBRE estimator
- “gpd”: Pareto II, ML estimator

Estimates derived from the survey data (FRS-HBAI) can be identified by their suffixes:
- “100”: poorest 100%
- “99”: poorest 99%
- “95”: poorest 95%
- “90”: poorest 90%

Pareto I and Pareto II models: estimates of parameter and SEs (threshold = p99 in the survey)

<table>
<thead>
<tr>
<th>Year</th>
<th>P_R</th>
<th>alpha_ml</th>
<th>se_alpha_ml</th>
<th>alpha</th>
<th>se_alpha</th>
<th>xi</th>
<th>se_xi</th>
<th>sig</th>
<th>se_sig</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995</td>
<td>0.0085792</td>
<td>2.114052</td>
<td>0.1610938</td>
<td>2.13713</td>
<td>0.032296</td>
<td>0.557898</td>
<td>0.121082</td>
<td>36159.08</td>
<td>1580.968</td>
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<tr>
<td>1996</td>
<td>0.008958</td>
<td>1.941077</td>
<td>0.106777</td>
<td>1.953106</td>
<td>0.0237158</td>
<td>0.591126</td>
<td>0.0878998</td>
<td>40597.05</td>
<td>1630.992</td>
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<td>1997</td>
<td>0.0092068</td>
<td>1.922345</td>
<td>0.0644815</td>
<td>1.937097</td>
<td>0.0144499</td>
<td>0.582536</td>
<td>0.0542783</td>
<td>43944.39</td>
<td>1339.272</td>
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<tr>
<td>1998</td>
<td>0.0093161</td>
<td>1.901082</td>
<td>0.0444537</td>
<td>1.911827</td>
<td>0.01212</td>
<td>0.570184</td>
<td>0.0426144</td>
<td>48218.54</td>
<td>962.4487</td>
</tr>
<tr>
<td>1999</td>
<td>0.0104736</td>
<td>1.926562</td>
<td>0.0385267</td>
<td>1.94353</td>
<td>0.010403</td>
<td>0.607695</td>
<td>0.0352471</td>
<td>45540.21</td>
<td>707.3513</td>
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<td>2000</td>
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<td>1.841782</td>
<td>0.0368198</td>
<td>1.851902</td>
<td>0.0101842</td>
<td>0.630022</td>
<td>0.033269</td>
<td>52864.86</td>
<td>826.1099</td>
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<td>2001</td>
<td>0.0105668</td>
<td>1.895889</td>
<td>0.0327147</td>
<td>1.906846</td>
<td>0.0096336</td>
<td>0.616180</td>
<td>0.0292421</td>
<td>50943.27</td>
<td>757.7493</td>
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<td>2002</td>
<td>0.0110572</td>
<td>1.934508</td>
<td>0.032749</td>
<td>1.943498</td>
<td>0.0097998</td>
<td>0.585206</td>
<td>0.0293267</td>
<td>49929.41</td>
<td>664.6404</td>
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<tr>
<td>2003</td>
<td>0.011684</td>
<td>1.919675</td>
<td>0.0308324</td>
<td>1.929457</td>
<td>0.0093815</td>
<td>0.579109</td>
<td>0.0284916</td>
<td>49280.36</td>
<td>638.3967</td>
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<td>2004</td>
<td>0.0113858</td>
<td>1.877548</td>
<td>0.0352881</td>
<td>1.885559</td>
<td>0.0088971</td>
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<td>2005</td>
<td>0.0131511</td>
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<td>1.811509</td>
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<td>0.579445</td>
<td>0.0327035</td>
<td>58364.29</td>
<td>747.9828</td>
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<td>2006</td>
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<td>1.751142</td>
<td>0.0077817</td>
<td>0.588789</td>
<td>0.0292206</td>
<td>61837.9</td>
<td>722.4963</td>
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<tr>
<td>2007</td>
<td>0.0142837</td>
<td>1.733676</td>
<td>0.0283335</td>
<td>1.740903</td>
<td>0.0073744</td>
<td>0.606891</td>
<td>0.0275526</td>
<td>62273.52</td>
<td>689.8105</td>
</tr>
<tr>
<td>2009</td>
<td>0.0118367</td>
<td>1.687349</td>
<td>0.0262883</td>
<td>1.699297</td>
<td>0.0074722</td>
<td>0.679435</td>
<td>0.0278293</td>
<td>61522.91</td>
<td>673.331</td>
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<td>2010</td>
<td>0.0114712</td>
<td>1.874162</td>
<td>0.0096601</td>
<td>1.892035</td>
<td>0.0079147</td>
<td>0.602372</td>
<td>0.0087243</td>
<td>53142</td>
<td>425.3513</td>
</tr>
</tbody>
</table>

Pareto I and Pareto II models: estimates of parameter and SEs (threshold = p95 in the survey)

<table>
<thead>
<tr>
<th>Year</th>
<th>P_R</th>
<th>alpha_ml</th>
<th>se_alpha_ml</th>
<th>alpha</th>
<th>se_alpha</th>
<th>xi</th>
<th>se_xi</th>
<th>sig</th>
<th>se_sig</th>
</tr>
</thead>
<tbody>
<tr>
<td>1995</td>
<td>0.0349138</td>
<td>2.279984</td>
<td>0.0662971</td>
<td>2.304698</td>
<td>0.0192333</td>
<td>0.5070741</td>
<td>0.0567215</td>
<td>18653.35</td>
<td>562.1927</td>
</tr>
<tr>
<td>1996</td>
<td>0.0341588</td>
<td>2.212221</td>
<td>0.0543265</td>
<td>2.251051</td>
<td>0.016354</td>
<td>0.566063</td>
<td>0.044089</td>
<td>19138.83</td>
<td>385.5171</td>
</tr>
<tr>
<td>1997</td>
<td>0.0359085</td>
<td>2.111353</td>
<td>0.030254</td>
<td>2.136568</td>
<td>0.0117075</td>
<td>0.5546948</td>
<td>0.0263121</td>
<td>20964.23</td>
<td>358.2605</td>
</tr>
<tr>
<td>1998</td>
<td>0.0370005</td>
<td>2.092855</td>
<td>0.0208853</td>
<td>2.117316</td>
<td>0.0095908</td>
<td>0.5605036</td>
<td>0.0192076</td>
<td>22168.79</td>
<td>321.0485</td>
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<td>1999</td>
<td>0.0408321</td>
<td>2.105451</td>
<td>0.0185803</td>
<td>2.134624</td>
<td>0.0083306</td>
<td>0.5618327</td>
<td>0.0165027</td>
<td>22191.23</td>
<td>288.6397</td>
</tr>
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<td>2000</td>
<td>0.0434905</td>
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<td>0.5853383</td>
<td>0.0151656</td>
<td>22965.56</td>
<td>269.4211</td>
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<td>2001</td>
<td>0.0428005</td>
<td>2.079124</td>
<td>0.0145701</td>
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<td>0.0069765</td>
<td>0.5715815</td>
<td>0.0135066</td>
<td>23987.99</td>
<td>222.5352</td>
</tr>
</tbody>
</table>

Appendix G-1
Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

<table>
<thead>
<tr>
<th>Year</th>
<th>$P_R$</th>
<th>$\alpha_{ml}$</th>
<th>$se_{alpha-l}$</th>
<th>$\alpha_{ml}$</th>
<th>$se_{alpha}$</th>
<th>$\xi$</th>
<th>$se_{xi}$</th>
<th>$\sigma$</th>
<th>$se_{sigma}$</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>.0436872</td>
<td>2.101361</td>
<td>.0141596</td>
<td>2.12654</td>
<td>.0068907</td>
<td>.5617445</td>
<td>.0134007</td>
<td>23712.9</td>
<td>195.8426</td>
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Pareto I and Pareto II models: estimates of parameter and SEs (threshold = $p_{90}$ in the survey)

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Pareto I and Pareto II models: estimates of means and income shares of Rich (threshold = $p_{99}$ in the survey)
Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

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Pareto I and Pareto II models: estimates of means and income shares of Rich (threshold = p95 in the survey)

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Pareto I and Pareto II models: estimates of means and income shares of Rich (threshold = p90 in the survey)

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Pareto I and Pareto II models: estimates of Gini coefficients, total (G), between-group (GB), among the Rich (threshold = p99 in the survey)

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Appendix G-4
Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

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Pareto I and Pareto II models: estimates of MLD, total (L), between-group (LB), among the Rich (threshold = p99 in the survey)

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Appendix G-5
Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

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Pareto I and Pareto II models: estimates of MLD, total (L), between-group (LB), among the Rich (threshold = p95 in the survey)

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Pareto I and Pareto II models: estimates of MLD, total (L), between-group (LB), among the Rich (threshold = p90 in the survey)

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Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

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Pareto I and Pareto II models: estimates of Theil, total (T), between-group (TB), among the Rich (threshold = p99 in the survey)

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Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

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<th>T_mlo</th>
<th>T_gpd</th>
<th>TB_mlo</th>
<th>TB_gpd</th>
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Pareto I and Pareto II models: estimates of Theil, total (T), between-group (TB), among the Rich (threshold = p90 in the survey)

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<th>Year</th>
<th>Theil90</th>
<th>Theil100</th>
<th>T_mlo</th>
<th>T_gpd</th>
<th>TB_mlo</th>
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Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

Gini coefficient (indexed 1996/97 = 100), by threshold

Appendix G-9
Approach C estimates, by threshold, with graphs of trends at the end (pareto14);
Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

Mean Logarithmic deviation *(indexed 1996/97 = 100)*, by threshold

![Graph 1](image1)

![Graph 2](image2)
Approach C estimates, by threshold, with graphs of trends at the end (pareto14);
Approach C estimates, by threshold, with graphs of trends at the end (pareto14);

Theil coefficient (indexed 1996/97 = 100), by threshold
Approach C estimates, by threshold, with graphs of trends at the end (pareto14);