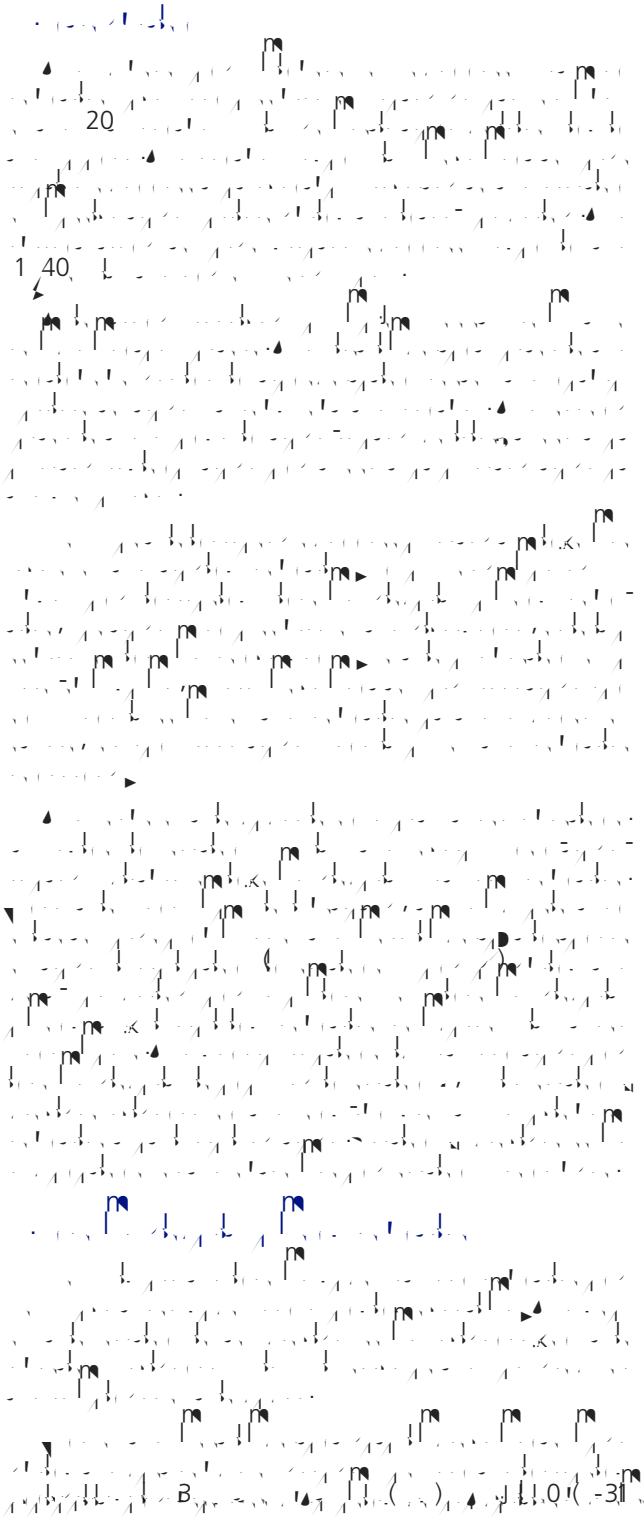

20
1 40

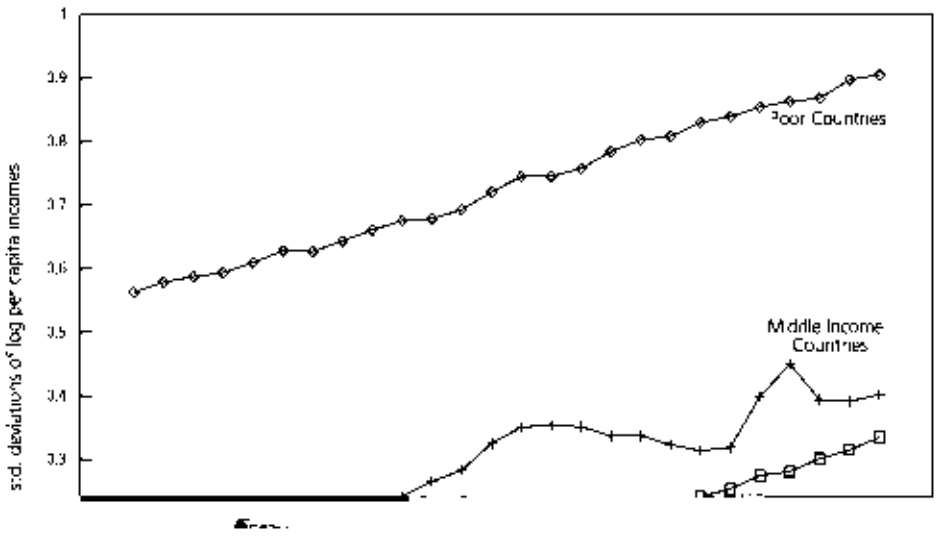
Table 1: GDP per capita in 1985, from wealthiest to poorest in US dollars
Using purchasing power parities (Summers and Heston data) and also official exchange rates (World Bank data)

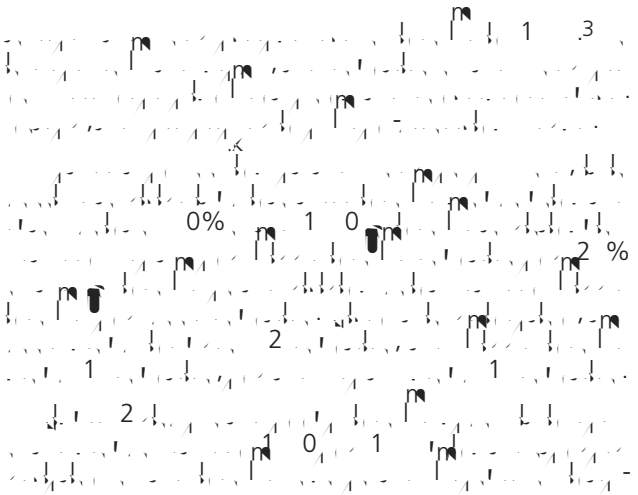
| | | Summers and Heston Data | | | World Bank Data | | | | Summers and Heston Data | | | World Bank Data | | | | Summers and Heston Data | | | World Bank Data | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | GDP Per Cap | Ratio of USA to Country | Avg ROG 0-92 | GDP Per Cap | Ratio of USA to Country | | | GDP Per Cap | Ratio of USA to Country | Avg ROG 0-92 | GDP Per Cap | Ratio of USA to Country | | | GDP Per Cap | Ratio of USA to Country | Avg ROG 0-92 | GDP Per Cap | Ratio of USA to country |
| 1 | United Arab E. | 19 48 | 0.84 | | | | 52 | Poland | 4177 | .97 | | 1908 | 8.80 | 10 | Ye en, N. | 1574 | 10.5 | | 44 | 2 .07 |
| 2 | Qatar | 1 98 | 0.98 | | 17188 | 0.98 | 5 | Malaysia | 414 | 4.00 | 4.47% | 1990 | 8.44 | 104 | Ivory Coast | 1545 | 10.72 | -0.04% | | |
| | United States | 1 570 | 1.00 | 1.88% | 1 78 | 1.00 | 54 | Gabon | 4072 | 4.07 | 2.2 % | 74 | 4.57 | 105 | Philippines | 1542 | 10.75 | 1.2 % | 5 2 | 29.88 |
| 4 | Canada | 15589 | 1.0 | 2.57% | 1 804 | 1.22 | 55 | Iran | 404 | 4.10 | 0.70% | 877 | 4. | 10 | Ca eroon | 1487 | 11.14 | 1.49% | 817 | 20.54 |
| 5 | Switzerland | 148 4 | 1.11 | 1. 5% | 14 9 | 1.17 | 5 | Brazil | 4017 | 4.12 | 2.4 % | 1 45 | 10.21 | 107 | Honduras | 1 87 | 11.95 | 0.90% | 8 0 | 20.22 |
| | Norway | 14144 | 1.17 | .2 % | 14009 | 1.20 | 57 | Uruguay | 9 9 | 4.17 | 0.84% | 15 9 | 10.70 | 108 | Laos | 1 40 | 12. 7 | | 59 | 25.48 |
| 7 | Australia | 1 58 | 1.22 | 1.95% | 10 4 | 1.58 | 58 | Czechoslovakia | 920 | 4.2 | | 2 8 | .29 | 109 | Guyana | 12 5 | 1 .10 | | 581 | 28.92 |
| 8 | Sweden | 1 451 | 1.2 | 1.9 % | 120 2 | 1. 9 | 59 | Jordan | 5 1 | 4. 5 | | 1888 | 8.89 | 110 | Pakistan | 12 2 | 1 .1 | 2.5 % | 24 | 51.84 |
| 9 | Lu e bourg | 1 175 | 1.2 | 2. 8% | 9414 | 1.78 | 0 | Pana a | 499 | 4.74 | 2. 7% | 2270 | 7.40 | 111 | China | 12 2 | 1 .1 | .07% | 72 | 45.11 |
| 10 | Kuwait | 1 114 | 1.2 | | 12527 | 1. 4 | 1 | Chile | 4 7 | 4.78 | 1. % | 1 58 | 12. | 112 | Zi babwe | 121 | 1 . | 0.51% | 54 | 0.89 |
| 11 | Den ark | 129 9 | 1.28 | 2. 2% | 11 50 | 1.48 | 2 | St.Kitts&Nevis | 447 | 4.81 | | 1825 | 9.20 | 11 | Bangladesh | 121 | 1 . | 1.45% | 1 0 | 105.14 |
| 12 | Ger any, West | 125 5 | 1. 2 | 2.55% | 7971 | 2.11 | | Surina e | 9 | 4.88 | | 2 87 | 7.0 | 114 | Senegal | 11 | 14.25 | | 404 | 41.51 |
| 1 | Baha as | 12404 | 1. 4 | | 1000 | 1. 8 | 4 | South Africa | 22 | 4.99 | 1.0 % | 1 44 | 10.21 | 115 | Djibouti | 11 7 | 14.57 | | | |
| 14 | Iceland | 12209 | 1. | 2.9 % | 1199 | 1.40 | 5 | Fiji | 281 | 5.05 | | 1 7 | 10.2 | 11 | Benin | 1108 | 14.95 | | 259 | 4.90 |
| 15 | France | 1220 | 1. | 2.7 % | 9482 | 1.77 | | Costa Rica | 184 | 5.20 | 1. 8% | 1485 | 11. 1 | 117 | Nigeria | 10 2 | 15. 0 | 1.72% | 97 | 17.25 |
| 1 | Finland | 12051 | 1. 7 | 2.59% | 10928 | 1.54 | 7 | Seychelles | 18 | 5.21 | | 2590 | .48 | 118 | Cape Verde | 1052 | 15.75 | 2. % | 29 | 50.97 |
| 17 | Japan | 11771 | 1.41 | 5.2 % | 11124 | 1.51 | 8 | Reunion | 09 | 5. | | | | 119 | India | 1050 | 15.78 | 1. 2% | 280 | 59.9 |
| 18 | Netherlands | 115 9 | 1.44 | 2.47% | 88 7 | 1.90 | 9 | Turkey | 077 | 5. 9 | 2.70% | 1049 | 1 .00 | 120 | Lesotho | 975 | 1 .99 | .54% | 1 0 | 104.92 |
| 19 | New Zealand | 1144 | 1.45 | 1.12% | 8 | 2.45 | 70 | Algeria | 2988 | 5.55 | 1.44% | 2 82 | .2 | 121 | Nepal | 9 | 17.70 | | 150 | 112.08 |
| 20 | Belgiu | 11285 | 1.47 | 2.84% | 8099 | 2.07 | 71 | Colo bia | 29 8 | 5.58 | 2.20% | 1184 | 14.18 | 122 | Haiti | 911 | 18.19 | | 4 | 49.00 |
| 21 | United Kingdo | 112 7 | 1.47 | 1.97% | 807 | 2.08 | 72 | Ecuador | 291 | 5. 9 | 2.09% | 1 0 | 12.88 | 12 | Sierra Leone | 905 | 18. 1 | | 0 | 4 . 5 |
| 22 | Austria | 111 1 | 1.49 | 2.9 % | 8 27 | 1.95 | 7 | Tunisia | 2758 | .01 | .2 % | 1140 | 14.72 | 124 | Liberia | 85 | 19.4 | | 498 | .71 |
| 2 | Italy | 10808 | 1.5 | .2 % | 7429 | 2.2 | 74 | Congo | 2 97 | .14 | 2.18% | 1115 | 15.05 | 125 | Mauritania | 824 | 20.11 | 0.22% | 95 | 42.48 |
| 24 | Hong Kong | 10599 | 1.5 | .42% | 142 | 2.7 | 75 | Na ibia | 2 04 | . | 1. 8% | 10 7 | 1 .19 | 12 | Za bia | 808 | 20.51 | | 7 | 49.79 |
| 25 | Trinidad & Tobago | 9701 | 1.71 | | 59 | 2. 4 | 7 | Peru | 25 5 | .4 | 0.11% | 8 0 | 20.21 | 127 | Kenya | 794 | 20.87 | 1.0 % | 0 | 55.42 |
| 2 | Bahrain | 9547 | 1.74 | | 8717 | 1.9 | 77 | Do inica | 25 | .47 | | 1 50 | 12.44 | 128 | Ghana | 792 | 20.92 | 0.21% | 57 | 47.0 |
| 27 | Ger any, East | 9 7 | 1.77 | | | | 78 | Belize | 2529 | .55 | | 1258 | 1 . 4 | 129 | Sudan | 791 | 20.95 | | 4 9 | 5.80 |
| 28 | O an | 9199 | 1.80 | | 7922 | 2.12 | 79 | Thailand | 24 | .7 | 4.57% | 72 | 2 .2 | 1 0 | Rwanda | 77 | 21. 5 | 1.10% | 288 | 58. |
| 29 | Singapore | 8 1 | 1.92 | .5 % | 7125 | 2. | 80 | St. Vincent | 2411 | .87 | | 110 | 15.22 | 1 1 | Madagascar | 7 9 | 21.55 | | 28 | 58. 5 |
| 0 | Saudia Arabia | 8 1 | 1.99 | | 7002 | 2.40 | 81 | Botswana | 2 7 | 7.09 | | 1057 | 15.88 | 1 2 | Ga bia | 7 9 | 21.55 | -2.08% | 285 | 58.94 |
| 1 | Israel | 8 10 | 1.99 | . 1% | 10 | 2.75 | 82 | Ja aica | 2215 | 7.48 | | 89 | 18.80 | 1 | Moza bique | 749 | 22.12 | -1.50% | 24 | 8.19 |
| 2 | Spain | 75 | 2.20 | . 4% | 4299 | .90 | 8 | St. Lucia | 2211 | 7.49 | | 1589 | 10.5 | 1 4 | Guinea | 712 | 2 .27 | 0.88% | | |
| | Ireland | 7275 | 2.28 | . 9% | 5 14 | .1 | 84 | Swaziland | 2198 | 7.54 | | 548 | 0. 4 | 1 5 | Angola | 711 | 2 . 1 | | | |
| 4 | Puerto Rico | 7120 | 2. | | 008 | 2.79 | 85 | Do inican Rep. | 2111 | 7.85 | 2.00% | 700 | 2 .99 | 1 | Bhutan | 72 | 24. | | 150 | 111. 8 |
| 5 | U.S.S.R | 7049 | 2. 5 | | | | 8 | Guate ala | 2090 | 7.9 | 0.95% | 1221 | 1 .75 | 1 7 | So alia | 5 | 25. 8 | | 1 1 | 128.0 |
| | Cyprus | 48 | 2.55 | 4.8 % | | 4. 2 | 87 | Paraguay | 2072 | 8.00 | 1.94% | 85 | 19. 0 | 1 8 | Guinea Bissau | 50 | 25.49 | 0.7 % | 178 | 94. 1 |
| 7 | Venezuela | 225 | 2. | 0. 5% | 29 | 4. | 88 | Sri Lanka | 2045 | 8.10 | 1.78% | 84 | 4 .74 | 1 9 | Co oros | 4 | 25.77 | -0.09% | 290 | 57.91 |
| 8 | Greece | 224 | 2. | | | 4.99 | 89 | Ro ania | 1995 | 8. 1 | | | | 140 | Togo | 7 | 2 .01 | 1.1 % | 251 | .89 |
| 9 | Barbados | 1 1 | 2.70 | | 4750 | .5 | 90 | Morocco | 195 | 8.47 | .11% | 58 | 28.78 | 141 | Central Afr.Rep | 0 | 2 . 0 | -0.98% | 2 8 | 2.75 |
| 40 | Me ico | 5 21 | 2.95 | 2.50% | 24 8 | .80 | 91 | Egypt | 195 | 8.48 | 2. 5% | 74 | 22.51 | 142 | Myana ar | 599 | 27. | | 18 | 91.87 |
| 41 | Taiwan | 5449 | .04 | | | | 92 | Tonga | 1929 | 8.59 | | 4 | 25.99 | 14 | Niger | 559 | 29. 4 | | 219 | 7 .49 |
| 42 | Argentina | 5 24 | .11 | | 2925 | 5.74 | 9 | Grenada | 187 | 8.85 | | 12 1 | 1 . | 144 | Uganda | 540 | 0. 9 | -0.28% | 172 | 97. 4 |
| 4 | Malta | 5 21 | .11 | | 2959 | 5. 7 | 94 | Mongolia | 1858 | 8.92 | | 1 2 | 12. 9 | 145 | Mali | 5 2 | 1.15 | | 1 8 | 99.71 |
| 44 | Hungary | 5278 | .14 | | 19 5 | 8. 7 | 95 | El Salvador | 18 1 | 9.05 | 0.8 % | 857 | 19. 0 | 14 | Burundi | 527 | 1.44 | -0. 7% | 242 | 9. 4 |
| 45 | Yugoslavia | 5172 | .20 | | | | 9 | Vanuatu | 1829 | 9.0 | | 91 | 18. 2 | 147 | Malawi | 518 | 1.99 | 0.84% | 157 | 10 . |
| 4 | Portugal | 5070 | .27 | | 204 | 8.22 | 97 | Nicaragua | 1790 | 9.2 | | 8 1 | 20.20 | 148 | Burkino Faso | 495 | .47 | 0. 7% | | |
| 47 | Bulgaria | 477 | .47 | | 19 4 | 8.55 | 98 | Bolivia | 1754 | 9.45 | 1.27% | 4 9 | 5.81 | 149 | Tanzania | 47 | 5.0 | | 2 | 51.45 |
| 48 | Iraq | 4249 | .90 | | 288 | 5.82 | 99 | Western Sa oa | 172 | 9. 0 | | 558 | 0.09 | 150 | Zaire | 442 | 7.49 | | 227 | 7 .90 |
| 49 | Syria | 4240 | .91 | | 1585 | 10.59 | 100 | Indonesia | 1 51 | 10.04 | .80% | 5 | 1. 4 | 151 | Chad | 409 | 40.51 | -1.91% | 145 | 115.8 |
| 50 | Mauritius | 422 | .92 | 2.4 % | 1055 | 15.91 | 101 | Solo an Islands | 1 8 | 10.12 | | 584 | 28.7 | 152 | Ethiopia | 299 | 55.42 | | 110 | 152. 1 |
| 51 | Korea | 4217 | .9 | | 2277 | 7. 7 | 102 | Papua N. Guinea | 1 19 | 10.2 | 0.82% | 701 | 2 .9 | | | | | | | |

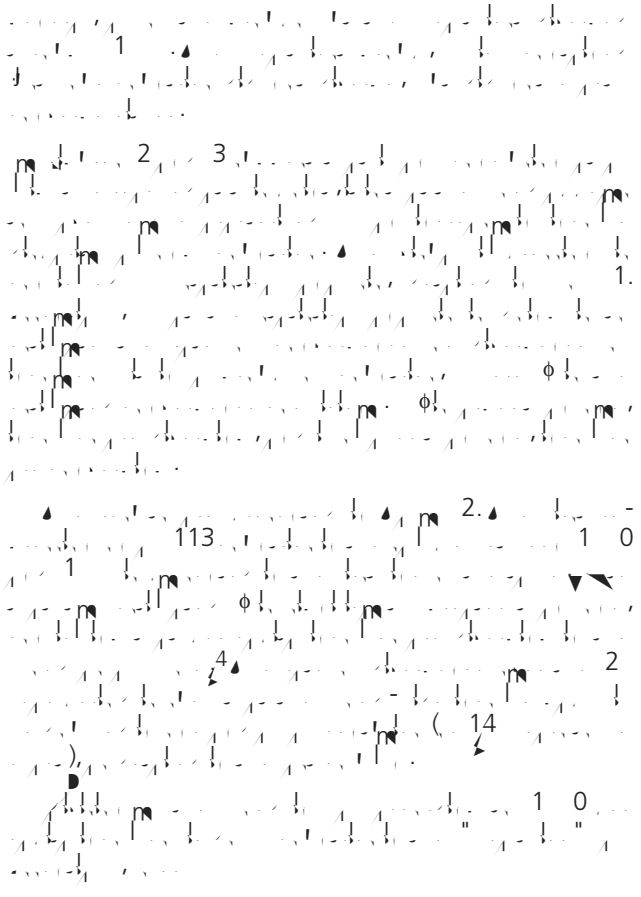
Avg ROG 0-92 = average annual rate of growth, 19 0-92.

*Source of Table*: Ben-David, Dan, Free Trade and Econo ic Growth, MIT Press, forthco ing. Sources of Data: Su ers, Robert and Alan Heston 1995), "The Penn World Table Mark 5. )" World Bank 1994), *World Tables*, CD-ROM

Figure 2: Disparity within three income groups: 1960-85

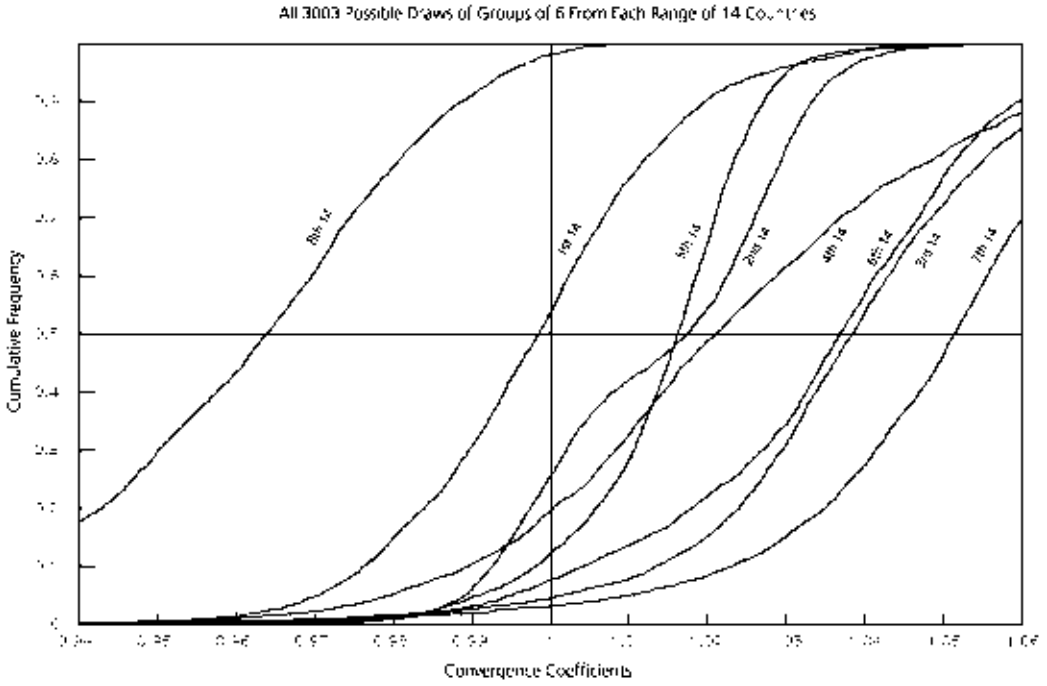






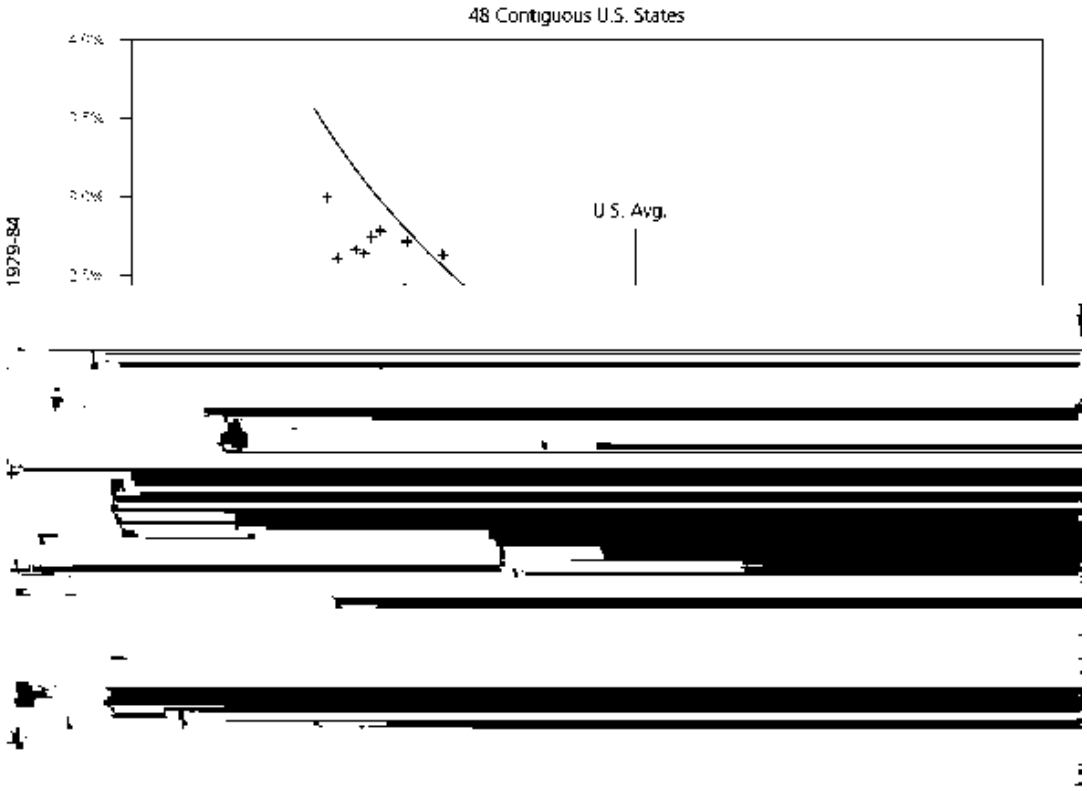
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 1 | 113 | 1.004 | (1.00 33) | 4.0 | ( 4.4 ) | 3 | 23 3 | 0. | 14 | | |
| 1 | | 0. 03 | (0. 2) | -0. 4 | (-0.43) | 2 | 11 | 0. 2 | -3 2 | | |
| | 113 | 1.00 | | 2. 3 | | 3 | 11 | 0. 0 | | | |
| 1 | 3 | 0. 4 | (0. ) | -0. 0 | (-0. ) | 2 | | 0. | -2 2 | | |
| 3 | | 1.02230 | | 4. | | 1 | | 0. | 31 | | |
| | 113 | 1.0021 | | 0.3 | | 3 | | 0. | 321 | | |
| 1 | 2 | 1.00 2 | (1.00 ) | 1.4 | ( 1.2 ) | 2 | 0 | 0. 1 | | | |
| 30 | | 1.01 4 | | 2. 1 | | 4 | | 0. | 3 | | |
| | | 1.0213 | | 3. 2 | | 1 | | 0. 4 | 33 | | |
| | 113 | 1.00343 | | 0.4 | | 4 | | 0. | 202 | | |
| 1 | 123 | 1.00 4 | (1.004 0) | 0. 0 | ( 0. 2) | 4 | 4 3 | 0. | 12 | | |
| 24 | 4 | 1.01 2 | | 1. | | 2 | 4 2 | 0. 4 | 3 | | |
| 4 | | 1.011 4 | | 1.1 | | 2 | 4 2 | 0. | | | |
| | | 1.02 1 | | 3. 0 | | 1 | 4 2 | 0. 1 | 2 | | |
| 0 | 111 | 1.010 | | 1.4 | | 0 | 4 2 | 0. | | | |
| 1 | 1 | 1.010 | (0. 404) | 1.1 | (-0. ) | 4 | 3 | 0. | | | |
| 20 | 3 | 1.00 2 | | 0. | | 2 | 3 | 0. | 11 | | |
| 3 | | 1.04 4 | | .2 | | 0 | 3 | 0. 1 | 14 | | |
| | 3 | 1.003 4 | | 0.43 | | 1 | 3 | 0. | 1 | | |
| 4 | 1 | 1.040 1 | | 4.2 | | 4 | 3 | 0. 4 | 1 | | |
| 2 | 10 | 1.00 04 | | 0. 4 | | 0 | 3 | 0. | 13 | | |
| 1 | 1 | 1.02 | (0. 243) | 2. | (-0. ) | 1 | 3 | 0. | 2 | | |
| 3 13 | 33 | 0. | * J 4.44 ( ) 1 32.30 0 -0.1 (3 * 1. 44 4.1 2.003 0 - 3 0.0 | | | | | | | | |
| | 0. ) | ( 1 ) J 4 . 4 4 ( ) J - 4 3 2 . 3 2 . 3 0 0 - 4 | | | | | | | | | |

Figure 5: Distribution of convergence coefficients




Source: Ben-David, Dan (1995), "Convergence Clubs and Diverging Economies," Foerder Institute working paper 40-95.

Figure 6: Growth vs. real per capita incomes

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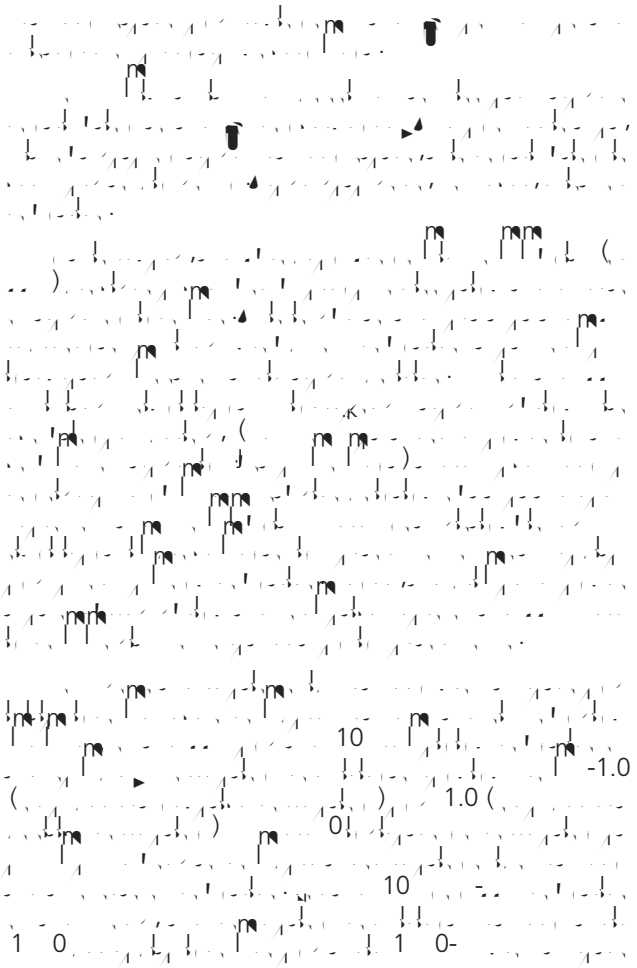


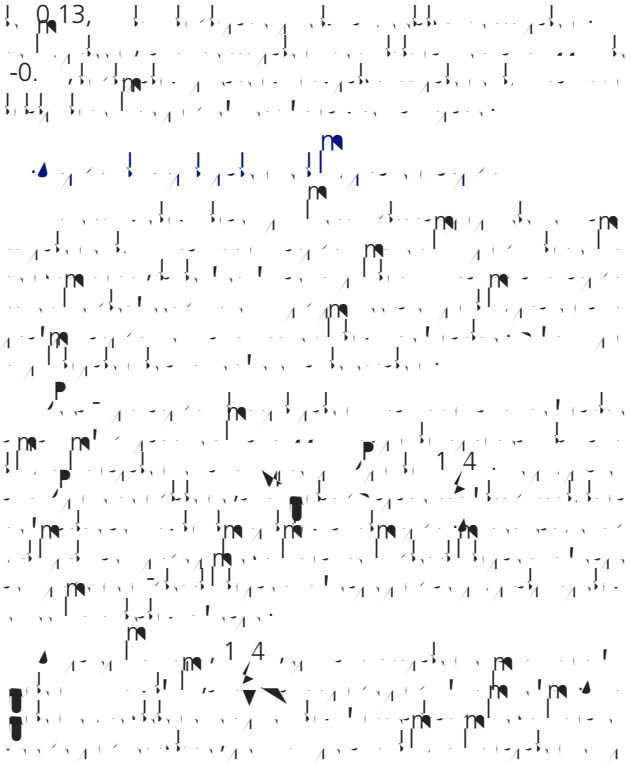


Figure 8: Ratio of intra-EEC trade to EEC GDP

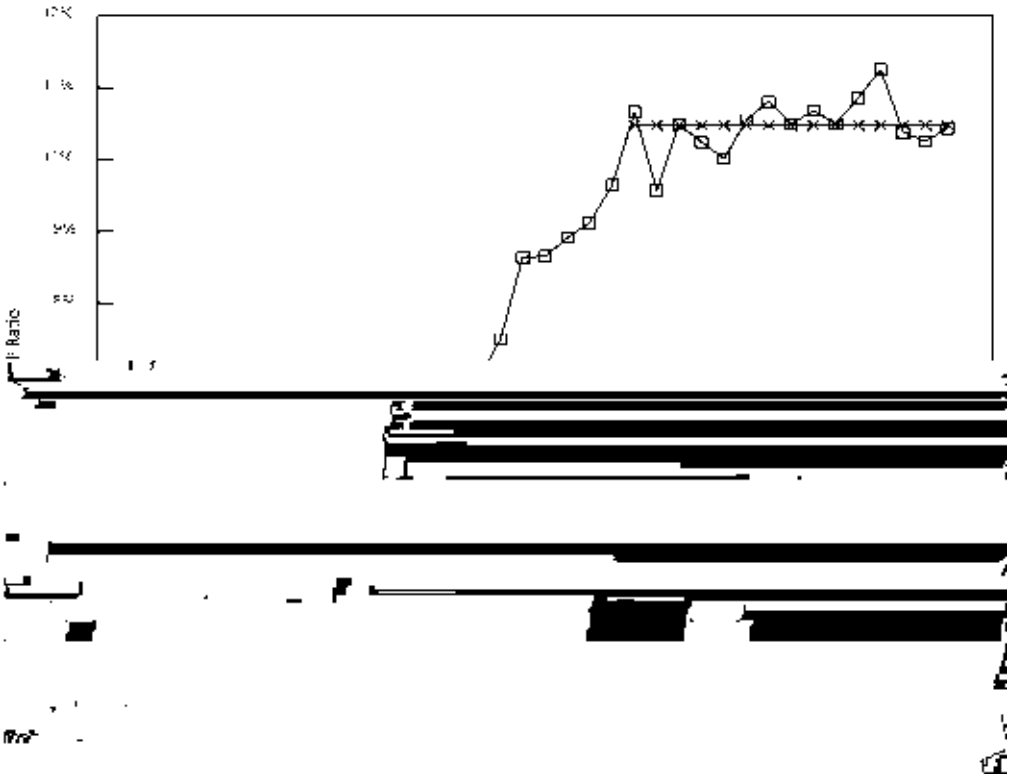
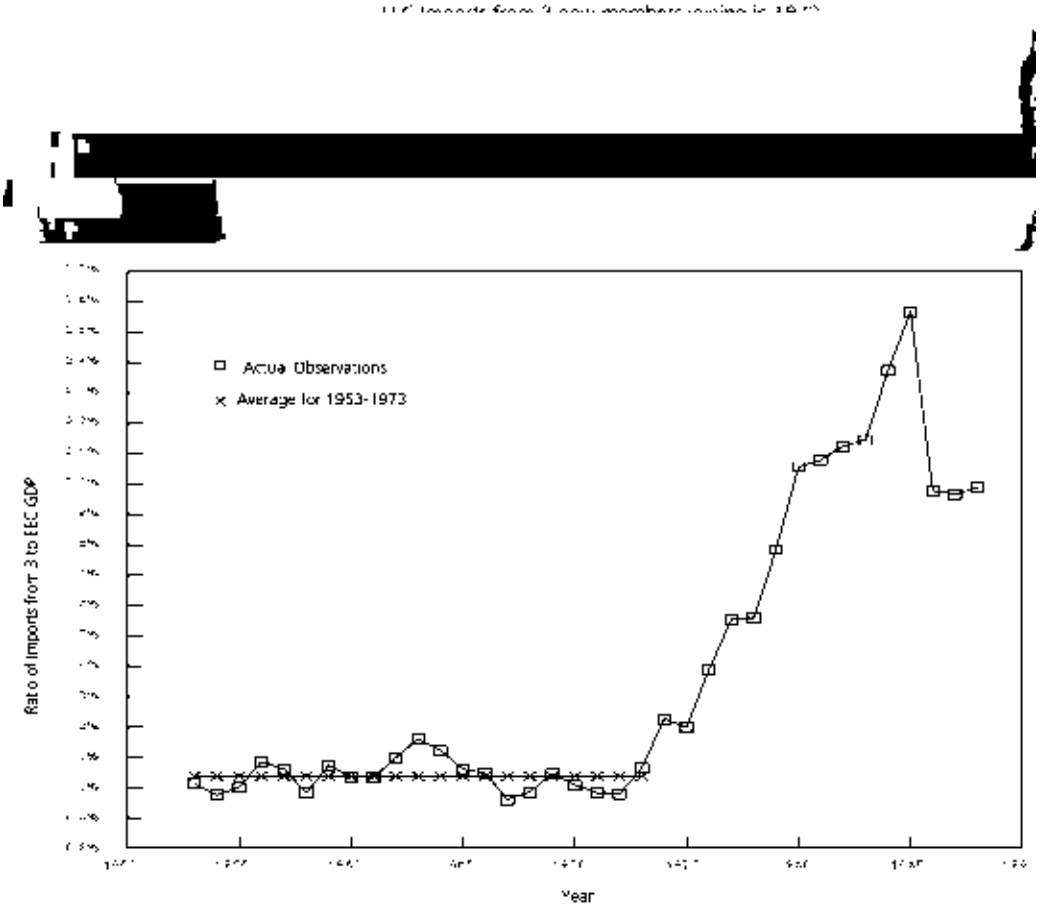


Figure 9


Actua Observations
Average for 1953-1973
Ratio of Imports from 3 to EEC GDP
Year

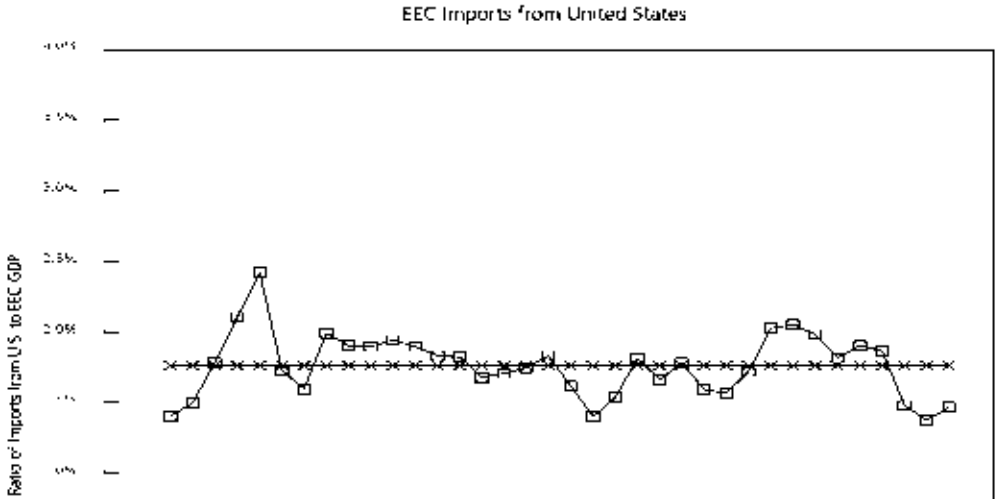

EEC Imports from United States
Ratio of Imports from U.S. to EEC GDP

Figure 10: Per capita income dispersion

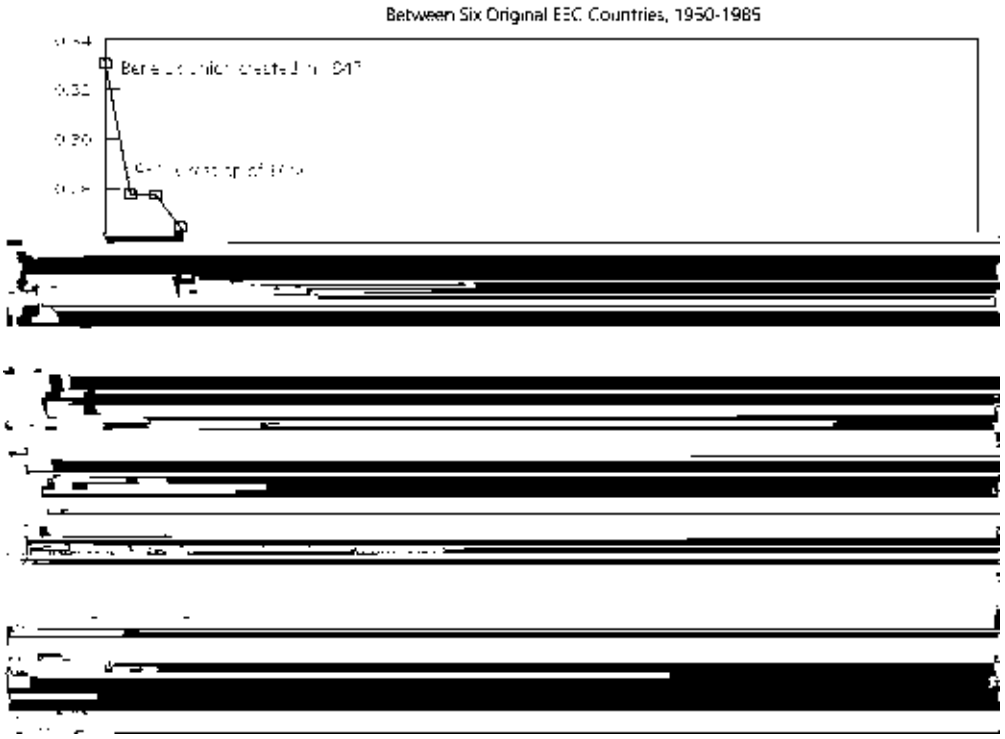
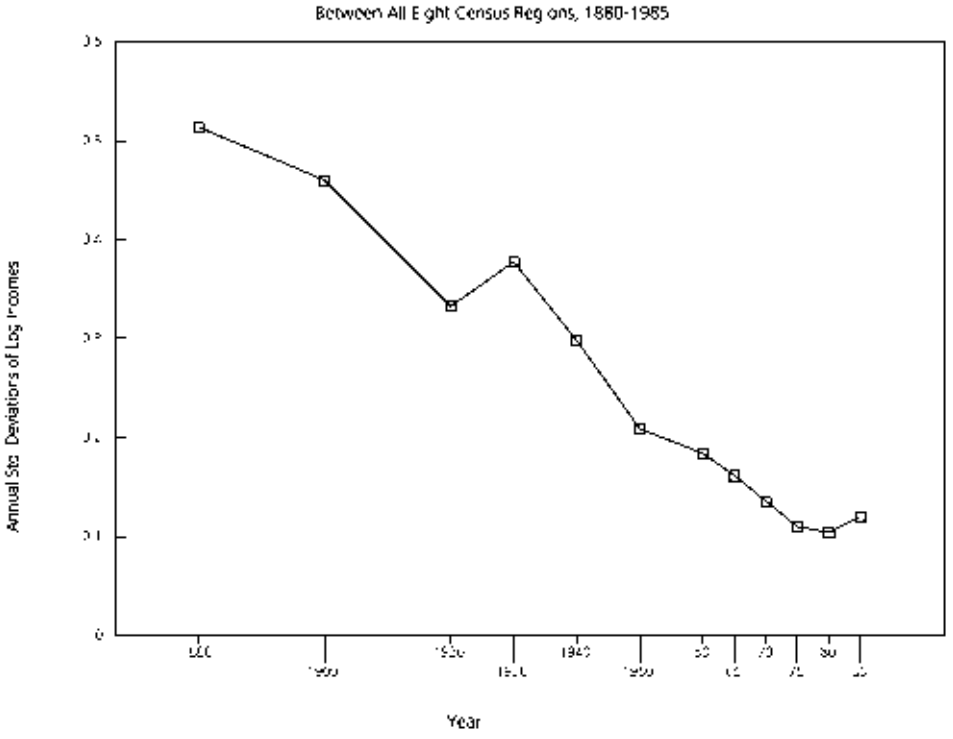



Figure 11: Per capita income dispersion within the US




Source: Ben-David, Dan (1990), "From Liberalization to Equalization: Some Evidence on the Impact of Free Trade on Income Differentials," unpublished University of Chicago Ph.D. dissertation

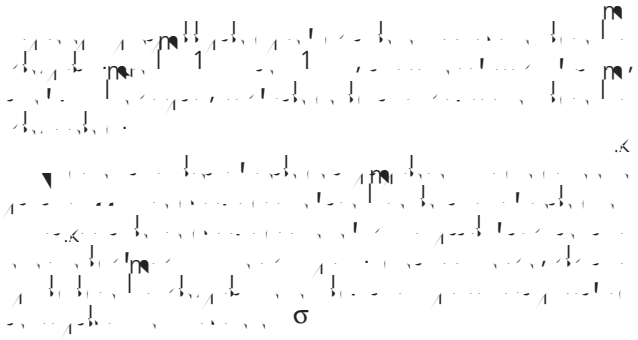


Figure 12: Income dispersion between 5 future EEC founders

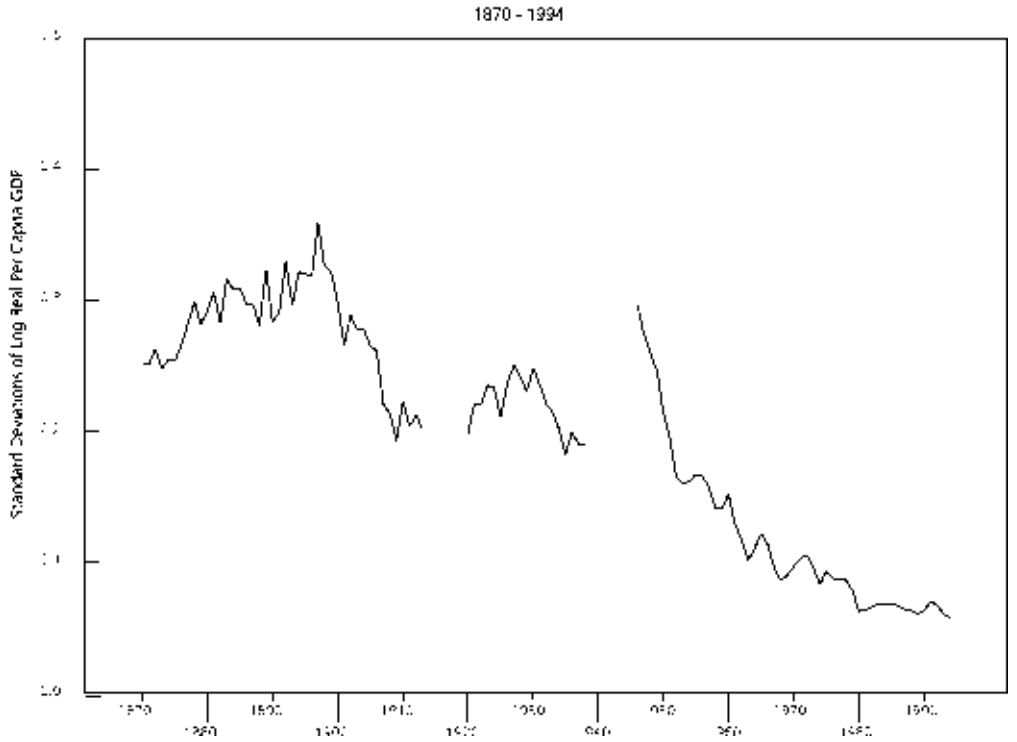
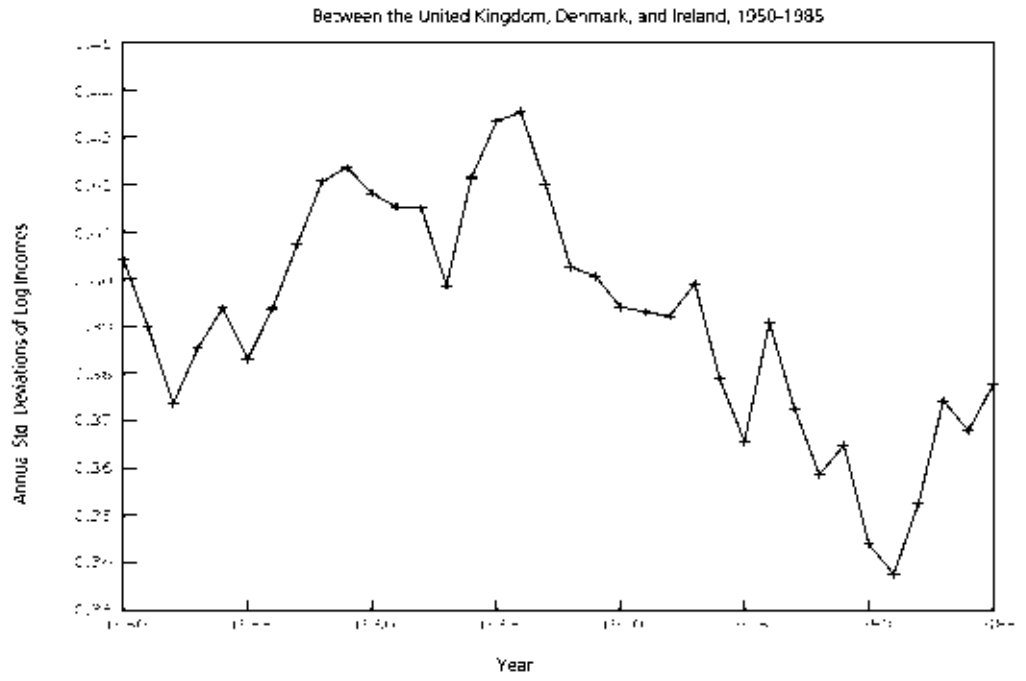



Figure 13: Per capita income dispersion




Source: Ben-David, Dan (1993), "Equalizing Exchange: Trade Liberalization and Income Convergence." *Quarterly Journal of Economics. 108*, 653-79.

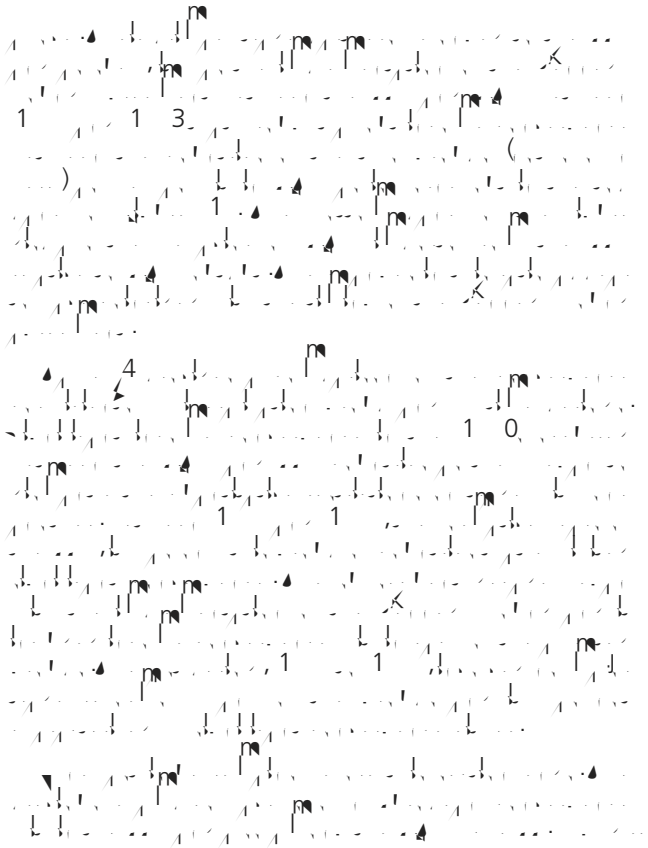


Figure 15: Gap in per capita incomes and bilateral trade to GDP, United States and Canada, 1950-1985

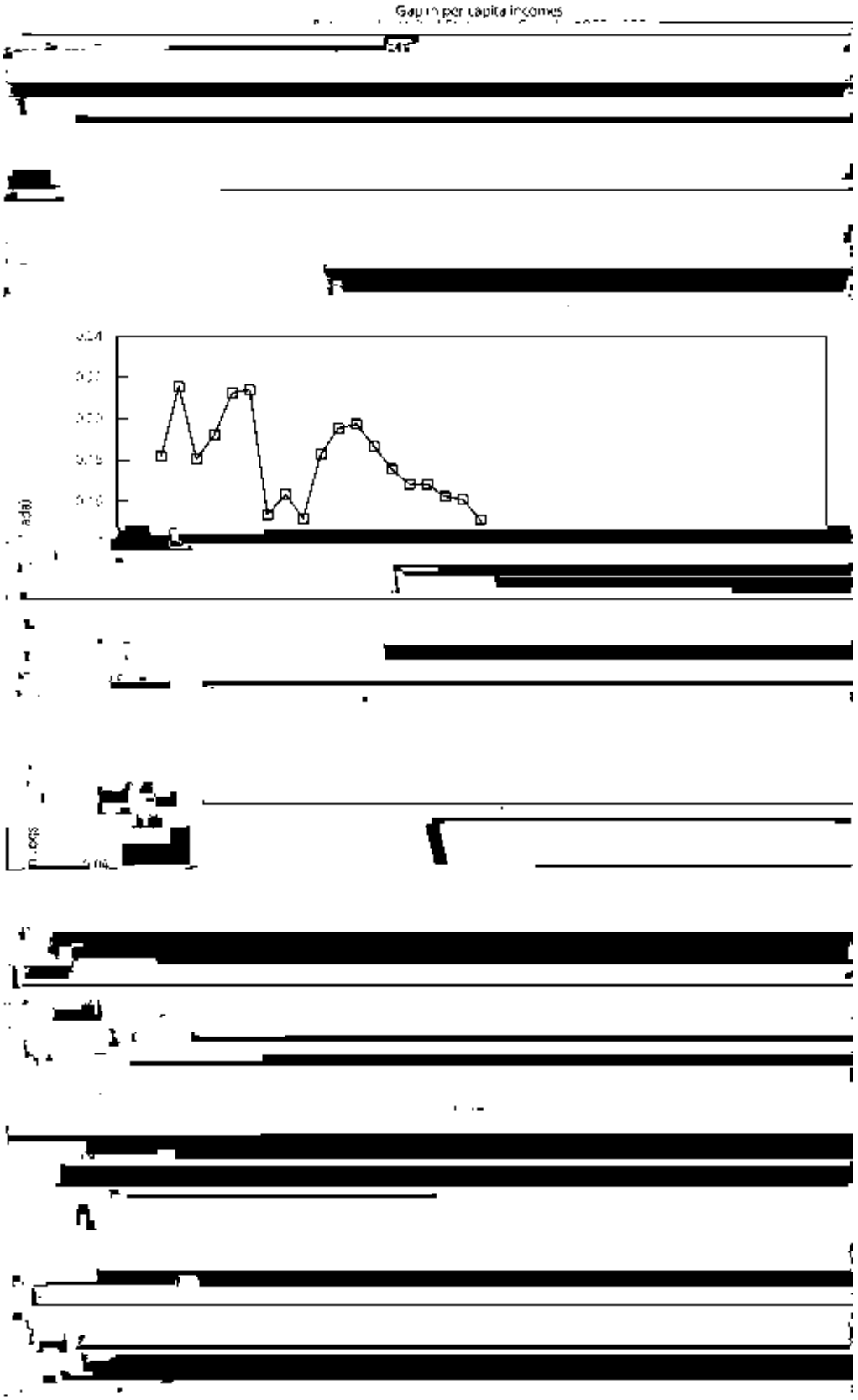


Figure 16: Per capita income dispersion among EFTA 6, ratio of EFTA 6 imports to EFTA 6 GDP

4

| | | ϕ | | *N* | $R^2$ | $H_0$: ϕ 1 | |
|---|---|---|---|---|---|---|---|
| 1 1-1 | | 0. 0 | 0.00 | 204 | 0. 1 | -4.3 ** | 23. |
| | | 0. 0 | 0.00 | 204 | 0. 1 | -1. | 3 . |
| | | 0. 34 | 0.0240 | 34 | 0. 0 | -1. | 14. |
| | | 0. | 0.00 1 | 204 | 0. | -3. ** | 21.0 |
| 1 1-1 | | 0. 2 | 0.0144 | 42 | 0. 1 | -1. 3 | 2 . |
| | | 0. | 0.01 0 | 42 | 0. | -0. | 4 . |
| | | 0. 43 | 0.0 | | 0. | -1.01 | 11. |
| | | 0. 44 | 0.01 1 | 42 | 0. 0 | -3.02* | 14. |
| 1 -1 | | 0. 4 | 0.011 | 4 | 0. 3 | -4.2 ** | 13.4 |
| | | 0. 03 | 0.0144 | 4 | 0. 0 | -0. | 1.0 |
| | | 0. 4 | 0.01 4 | | 0. | -1.01 | 44.3 |
| | | 0. 34 | 0.012 | 4 | 0. | -1.33 | 41.3 |
| 1 -1 | | 0. 3 | 0.01 4 | 4 | 0. | -0. 0 | 4.1 |
| | | 0. 4 0 | 0.0230 | 4 | 0. 0 | -2.3 * | 12. |
| | | 0. 14 | 0.041 | | 0. 0 | -4.4 ** | 3.4 |
| | | 0. 2 4 | 0.024 | 4 | 0. | -3.02* | . |
| 1 -1 | | 0. 4 | 0.01 | 42 | 0. | -1.3 | 31. |
| | | 0. 2 | 0.02 3 | 42 | 0. | -0.10 | 242. |
| | | 0. | 0.22 | 11 | 0. 2 | -1.02 | 2. |
| | | 1.0242 | 0.0313 | 42 | 0. | 0. | 2 .0 |

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1 4-1 .

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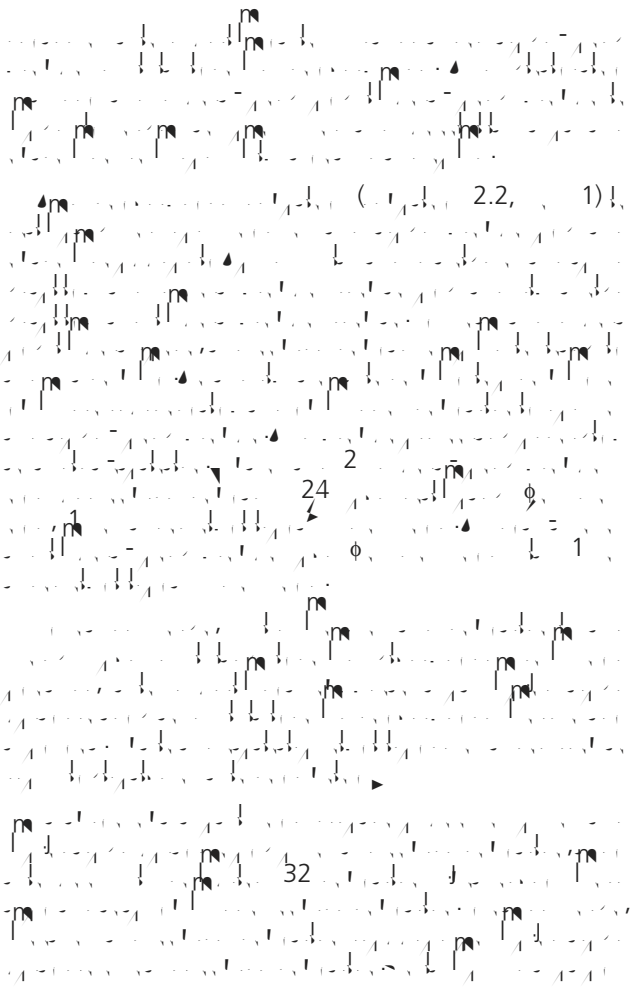

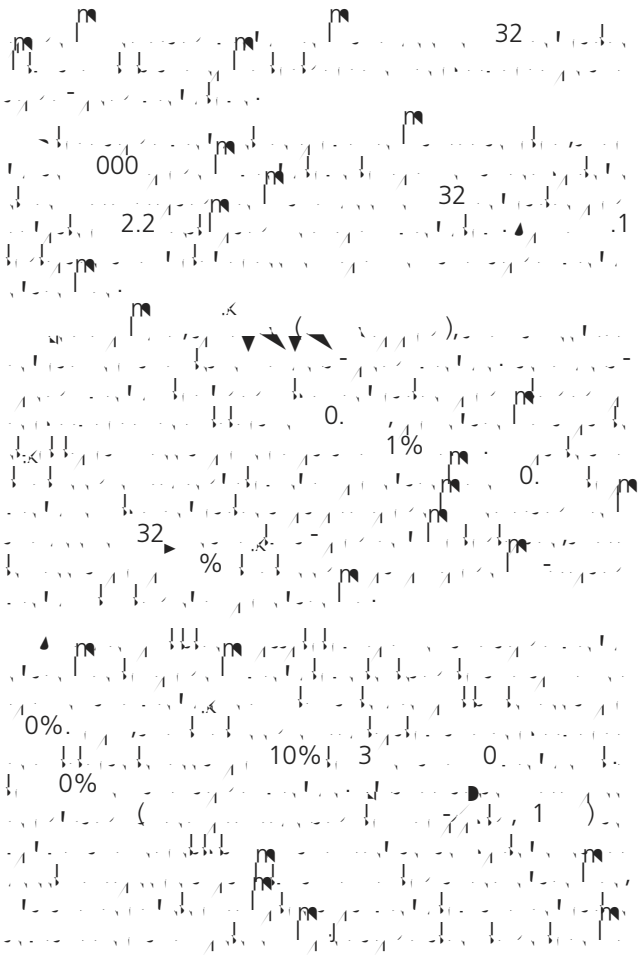

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| Export-based groups | | | | | Import-based groups | | | | |
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| 1 | 3 | 0. 3 | -4. 1*** | 1% | | 3 | 0. 3 | -4. 1*** | 1% |
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| 1 | 3 | 0. 3 | -4. 1 *** | 1% | | 3 | 0. 3 | -4. 1 *** | 1% |
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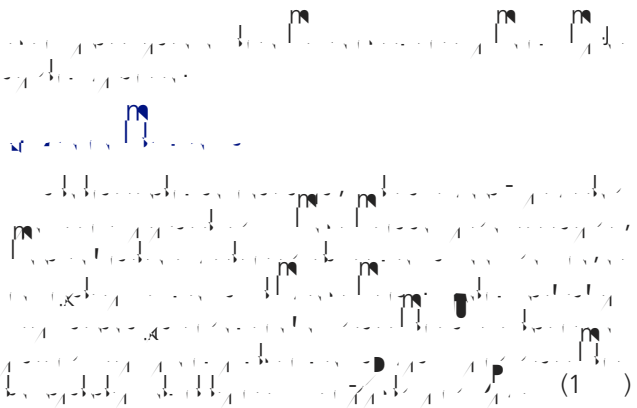

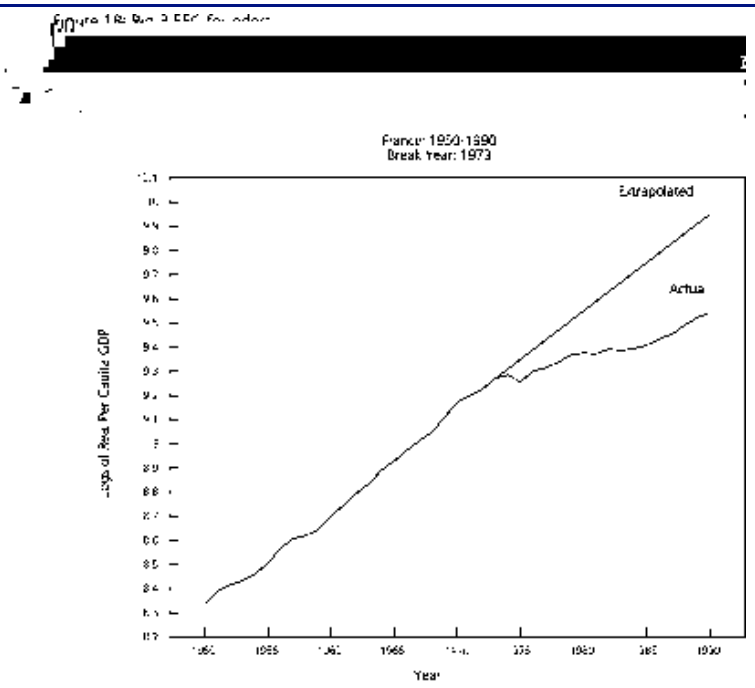
France 1950-1990
Break Year: 1973
Extrapolated
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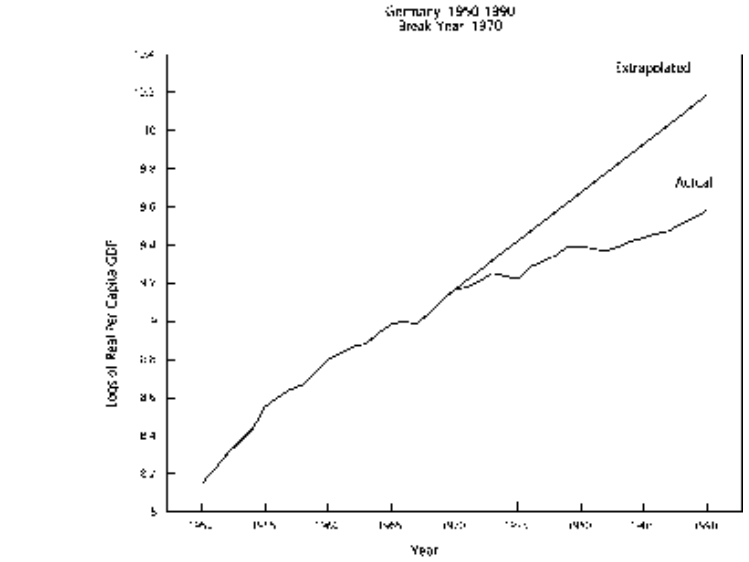
Germany 1950 1990
Break Year: 1970
Extrapolated
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Log of Real Per Capita GDP
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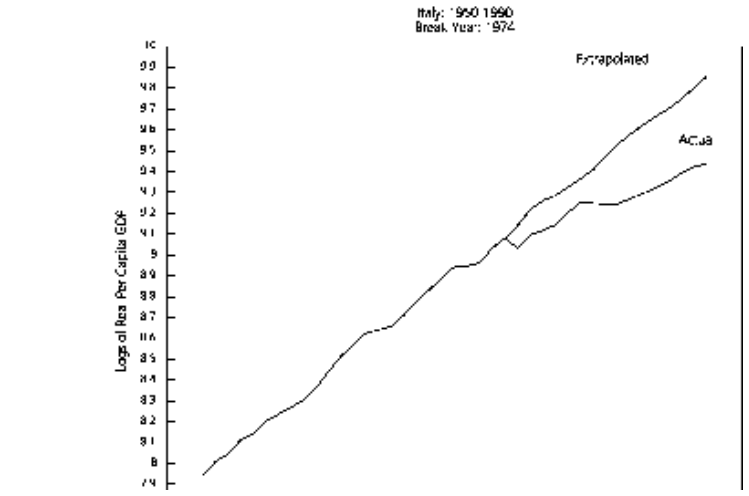
Italy: 1950 1990
Break Year: 1974
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Log of Real Per Capita GDP

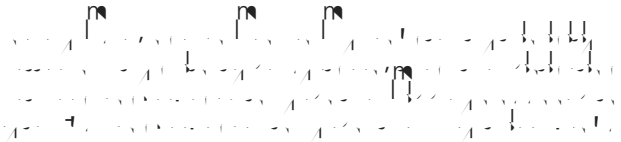
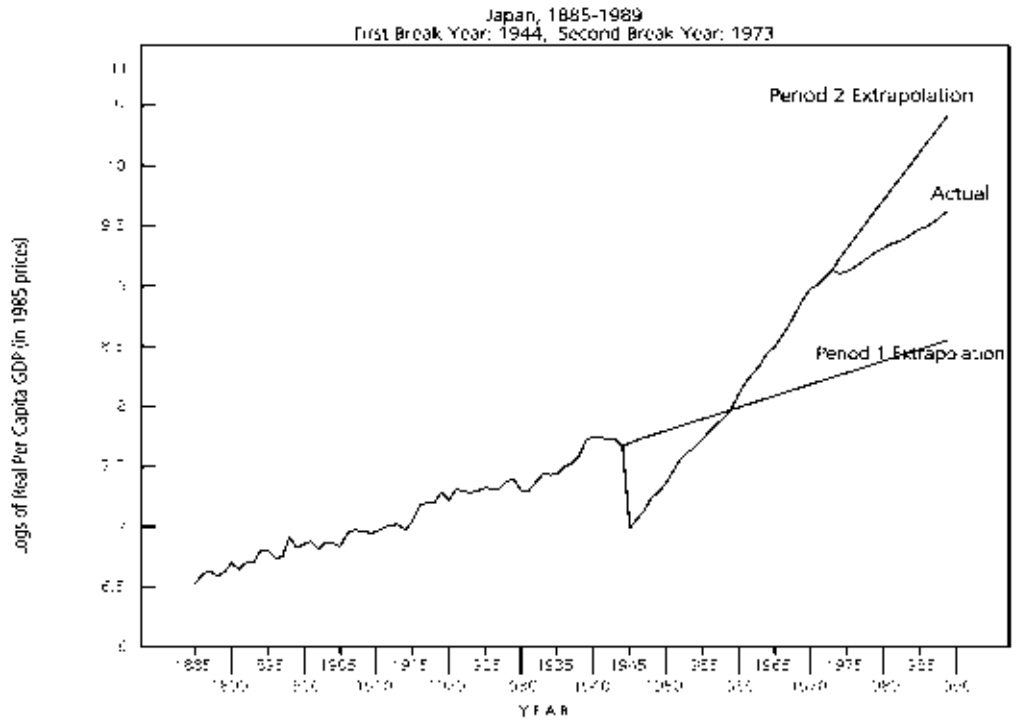


Figure 20: Logs of per capita GDP in Japan, 1885-1989




*Source*: Ben-David, Dan, Robin Lumsdaine, and David H. Papell (1999), "Unit Roots, Postwar Slowdowns and Long-Run Growth: Evidence from Two Structural Breaks," unpublished working paper.

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*Po - a (1950-1989) e p e- a (1870-1939)*

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| [illegible] | 2.0 | 1.1 |
| [illegible] | 3. 1 | 2.34 |
| [illegible] | 3.14 | 3.1 |
| [illegible] | 2.3 | 2.21 |
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| [illegible] | 1. | 1.4 |
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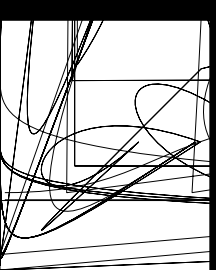

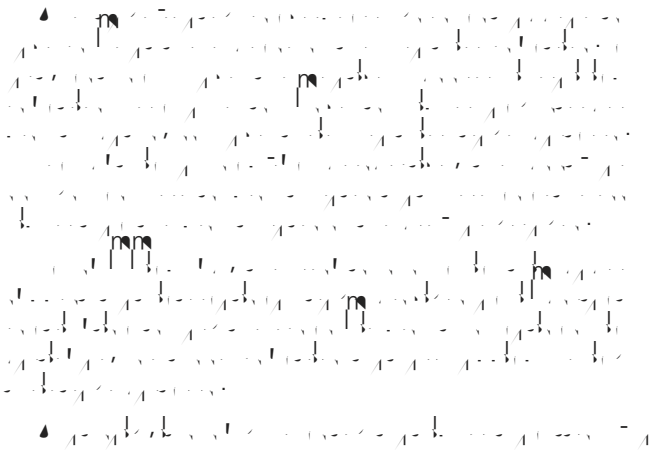

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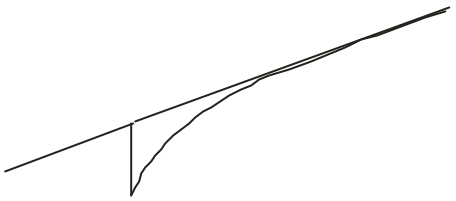

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