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**INTERNATIONAL ECONOMIC CONVERGENCE:
MEASURING ECONOMIC GROWTH AND INCOME INEQUALITY
FROM 1975-1999**

By

Brian Kent Smedley

**Thesis submitted in partial fulfillment of
the requirements for the degree**

of

DEPARTMENT HONORS

in

Economics

Approved:

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**UTAH STATE UNIVERSITY
Logan, Utah**

2003

**Honors Thesis – International Economic Convergence:
Measuring Economic Growth and Income Inequality From 1975-1999
By Brian K. Smedley**

Introduction

As the world continues to be reshaped by technological advances and globalization, national borders are rapidly dissolving. Nations that are many thousands of miles away now seem closer than ever due to modern technology and transportation. The world has experienced tremendous progress and economic growth in the last few decades, and today people in many countries enjoy a higher standard of living than the world's citizens have ever known. Yet despite all that we have accomplished as a human society, somehow we are still unable to solve the most fundamental problem facing humanity: relieving the poverty and misfortune of billions of people. The recent trend toward globalization has also served to bring international problems closer to home, and today the issues facing less developed nations are becoming more pertinent to every one of us.

There has been much speculation as to whether or not less developed nations will ever reach the level of development prevalent in more highly developed nations. This paper addresses the topic of international income inequality from 1975 to 1999 within the framework established by Robert Solow, who introduced a new model of economic growth in the mid-1950s while at MIT. The Solow growth model essentially states that output per worker (or income per capita) is a function of capital per worker. Capital per worker is determined by saving, the population growth rate, and depreciation (Gillis p. 56). Each economy has a "steady state" or natural level of income based on their combination of the preceding growth factors. The two fundamental relationships in the Solow model can be expressed in the following equations:

$$Y = f(k) \quad [1]$$

$$\Delta k = sy - (n + d)k \quad [2]$$

Within the context of the Solow growth model is the implication that if all countries have the same potential (or steady-state) level of income, poorer countries will grow at faster rates than richer countries and will eventually catch up at the steady state. In this sense, there will be "convergence" of per capita incomes across the nations of the world (Gillis, p. 64-67). For instance, assume that China has a per capita income of \$900. Also assume that the United States has a per capita income of \$35,000. If China maintains an average annual growth rate of income of 9 percent and the U.S. maintains an average growth rate of 2 percent, China's per capita income will eventually catch up to that of the U.S. In fact, the two countries' incomes will converge in 55 years at a per capita income of around \$105,000. However, it is also important to note that as the two countries' incomes grow, the annual growth rates of their GNI per capita would be expected to decrease – particularly in the case of China – thus increasing the timeline of convergence.

There has indeed been some empirical evidence to corroborate the Solow model's prediction of convergence in the last 25 years. A few less developed nations in particular have experienced tremendous growth rates: the "Four Tigers of Asia" (Hong Kong, Singapore, South Korea, and Taiwan) are good examples. On the other hand, some low-income nations have experienced dismal growth in the last 25 years. Nicaragua, Zambia, Sierra Leone, and The Congo have all experienced negative average annual growth rates since 1975. Certainly many factors combine to determine the economic outcome of any nation, and many of those are intangible and immeasurable; however, a nation's environment, policy, and economic system (free market or centrally planned) are three key components (Gregory and Stuart p. 37).

In this context, one can compare per capita incomes over time to measure the degree to which convergence has or has not taken place. Has the recent trend toward globalization and technological progress served to widen the gap between the world's richest and poorest nations, or are the poorer nations catching up to the rich? To help answer these questions, gross national income (GNI) data and population totals for the 25 years from 1975 to 1999 were obtained for 177 countries from the *World Bank's World Development Indicators 2001* CD-ROM. The income data used are simply per capita averages from each country and do not address the issue of income inequality within the countries themselves. The data were analyzed using the following model.

Model

To measure the change in the inequality of world incomes (the degree to which some countries are very wealthy while others are very poor), the ordinary least squares regression model was employed. The regression model provides important insights into the relationships between two or more variables. For the purposes of this study, the focus will be on the relationship between the average world income per capita – the mean – and the relative amount of dispersion around the mean – the coefficient of variation. The coefficient of variation, which will be explained in more depth later, is effectively a measure of the amount of income disparity between the nations for which data is available. The ordinary least squares regression model will estimate the linear equation that minimizes the sum of the squared vertical distances of the individual points from the line. Combining these variables in the regression equation yields the following formula:

$$Y = a + bX \quad [3]$$

The coefficients a and b are estimated using the regression analysis. The variable Y is the dependent variable (coefficient of variation or income dispersion) and X is the independent variable (average world income). When using the regression estimation equation to infer a relationship between two variables, the sign of the b (beta) coefficient is particularly important. A positive sign is indicative of a generally positive relationship between the two variables. Therefore, an increase in the independent variable, X , would be expected to coincide with an increase in the dependent variable, Y . Likewise, a beta coefficient having a negative sign would infer that a positive change in X would result in

a negative change in Y . Determining this relationship is fundamental to answering the question posed earlier about convergence. Has the world's economic growth over the last 25 years (X variable) led to an increase or decrease in the distribution of income (Y variable)?

The data used in the regression estimation were the average world income per capita and the coefficient of variation of world incomes. To calculate the world's per capita income, data were taken from the World Bank's *World Development Indicators 2001 CD-ROM*. Data were not available for every country for the 25 years from 1975 to 1999; a total of 42 countries lacked sufficient data for inclusion in the analysis. Due to their relatively small size, however, they represent only 3.15 percent of the world's population. The sum of all reported gross national incomes (GNI) for each year was divided by the total world population for that year (minus those nations who lacked GNI data), yielding a world average income per person.

The coefficient of variation can be calculated after determining the mean (also called the expected value) and the standard deviation of a set of numbers. The standard deviation measures the dispersion of possible outcomes around the mean. To calculate the coefficient of variation, the standard deviation is divided by the mean, thus showing the amount of variation per unit of expected value. The coefficient of variation is a critical statistical measure in testing the theory of convergence. A general increase in the coefficient of variation over time would indicate that the amount of inequality of world incomes (standard deviation) was growing more quickly than the average world income per capita (mean). Data of this sort would be evidence of a trend contrary to the theory of convergence. Conversely, a downward trend would show that the amount of income disparity was falling relative to the average world income per capita, thus lending support to the theory of convergence.

The strength of the estimated linear relationship between the dependent variable and independent variable can be measured in two ways. The coefficient of determination, also called R^2 , is the ratio of explained variation to total variation. Thus, higher values of R^2 indicate that the regression coefficients in the function accurately estimate the true value of the dependent variable. The t-statistic measures the explanatory power of individual independent variables. For the purposes of this paper, it is sufficient to say that t-statistics greater than 1.96 indicate a statistically significant relationship between the dependent and independent variables.

Empirical Results

The results of the analysis were not consistent with the Solow model's prediction of convergence. The average world income per person has grown from \$3854 in 1975 to \$5543 in 1999 (all monetary figures were gathered by the World Bank using the Atlas method and are in 1995 U.S. Dollars). The world's average annual growth rate of real income per capita has been 1.52 percent in those 25 years. The world's economic growth has been even more impressive when adjustments are made for cost of living differences.

In fact, the Purchasing Power Parity (PPP) income worldwide has grown at a very brisk 5.43 percent per year on average.

The coefficient of variation has also grown since 1975, especially during the years from 1975 to 1985. The coefficient of variation rose from 1.81 in 1975 to 1.92 in 1999, a 6 percent increase during the 25-year period. This trend refutes the claim that the disparity of world incomes is, overall, shrinking over time. The coefficients of variation were regressed on the respective yearly values of average income per capita, estimating the following linear function:

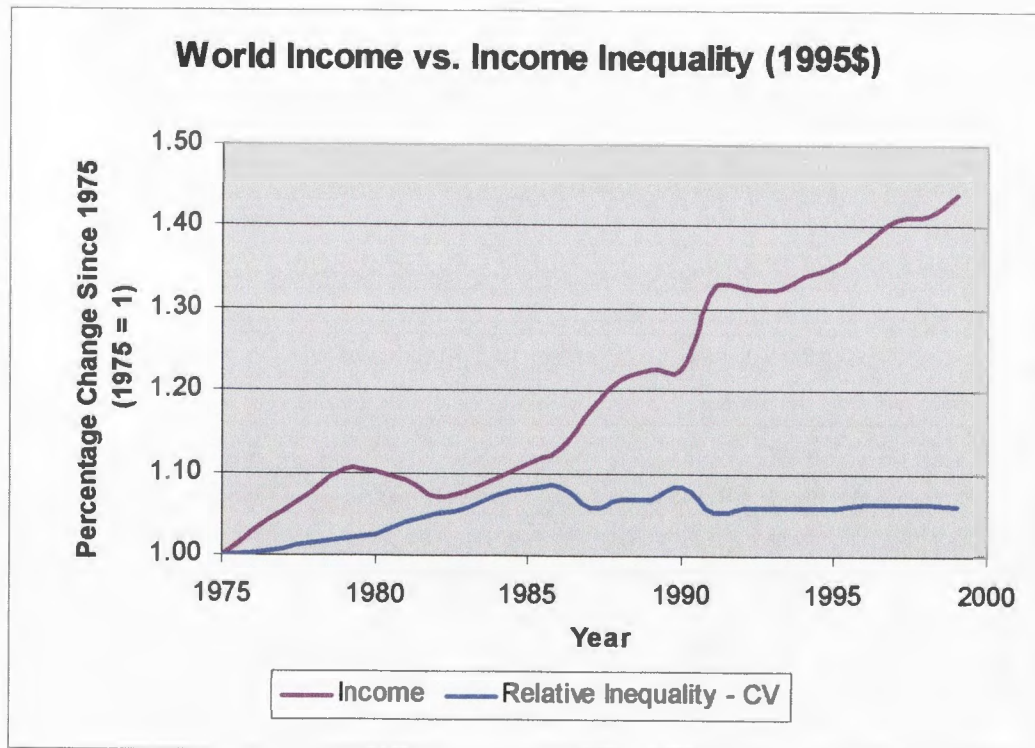
$$Y = 1.696 + .0000443(X) \quad R^2 = 0.276 \quad [4]$$

(0.0698) (0.0000149) N = 25

t-statistics: (24.317) (2.9644)

The positive sign of the beta coefficient indicates that over the last 25 years, an increase in the relative amount of income disparity has coincided with the increase of income per capita. The coefficient of determination is 0.276 and t-statistics were 24.32 and 2.96 for coefficients *a* and *b*, respectively. Based on these measures of statistical significance, there has indeed been a positive relationship between the world's average income and the degree of income disparity over the last 25 years. The graph in Figure 1 plots the change in the world's average income and coefficient of variation of incomes over the last 25 years. The trend toward higher average incomes and higher income disparity between nations is clearly evident in the graph.

Figure 1

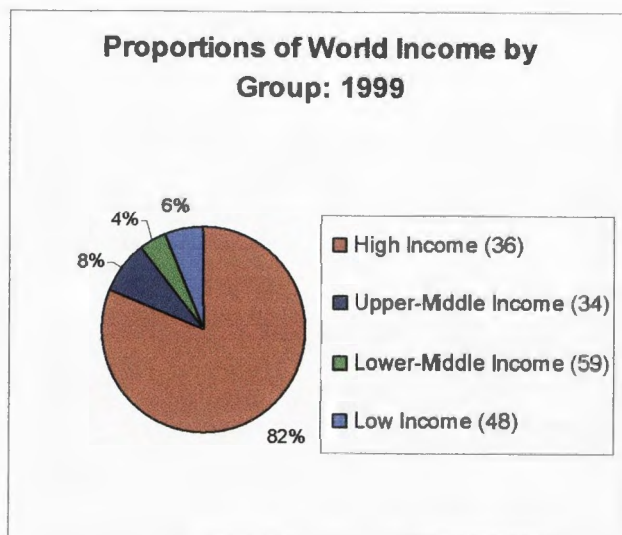


Conditional Convergence

Despite the encouraging trend toward overall economic growth and development, many nations are still enslaved by the chains of poverty, while the wealth of some nations just a few borders away is vast. Although incomes in many less developed nations have grown at high rates for the last 25 years, the individual economic outcomes of all nations are still ultimately subject to their respective environments, economic systems, and policies. Another important insight into the study of income distribution and economic growth deals with conditional convergence, or the idea that similar nations tend to experience a greater degree of convergence than dissimilar countries (“similarity” is measured by variables such as population growth, rates of saving, production functions, depreciation, technology growth, natural resources, policy decisions, etc.).

To test the strength of this idea, economic data were also analyzed within income classes. The World Bank classifies nations today into four income groups: low income, \$745 or less; lower middle income, \$746 - \$2,975; upper middle income, \$2,976 - \$9,205; and high income, \$9,206 or more (www.worldbank.org). To test whether conditional convergence has occurred since 1975, countries were grouped together by income class, not as they would fit today, but as they were organized in 1975. The income parameters used to group 1975 incomes were: low income, \$525 or less; lower middle income, \$526 - \$1,975; upper middle income, \$1,976 - \$6,500; and high income, \$6,501 or more. Data were grouped and evaluated in the same way that was done on a worldwide scale: average incomes and coefficients of variation were measured for the 25-year period from 1975 to 1999. The proportions of the total world income contributed by each income group are summarized in Figure 2 below. The number of countries included in each income class for the purposes of this paper is in parentheses next to the income group. Notice that the richest 36 nations (15.5 percent of the world’s total population) earned 82 percent of the world’s total income in 1999.

Figure 2



In contrast with the idea of conditional convergence, each income class experienced greater income divergence than the world average. Figure 3 illustrates some key statistical data for each group. Also included is data for the Low Income class excluding China to allow accurate analysis of the group without the overwhelming influence of China's data. China, with a population of 1.25 billion people in 1999, represented about 45 percent of the group in 1975 and 36.7 percent of the group in 1999. The large influence of China's data has a tendency to overshadow the trend of the other 47 Low Income countries.

Figure 3

Comparisons of World Income Groups					
INCOME GROUP	1999 Income Per Capita	Avg. Annual Growth: 1999-1975	% Change in CV Since 1975	Population Share in 1999	Income Share in 1999
High (36)	\$28,165	1.940%	13%	15.48%	81.23%
Upper-Middle (34)	\$4,457	1.138%	116%	9.82%	6.18%
Lower-Middle (59)	\$1,766	1.787%	46%	13.47%	8.15%
Low (48)	\$571	4.584%	-7%	58.05%	4.43%
-without China (47)	\$465	2.440%	66%	36.77%	3.19%
Insufficient Data (30)	3.19%	..
WORLD TOTAL (208)	\$5,543	1.524%	6.03%	100%	100%

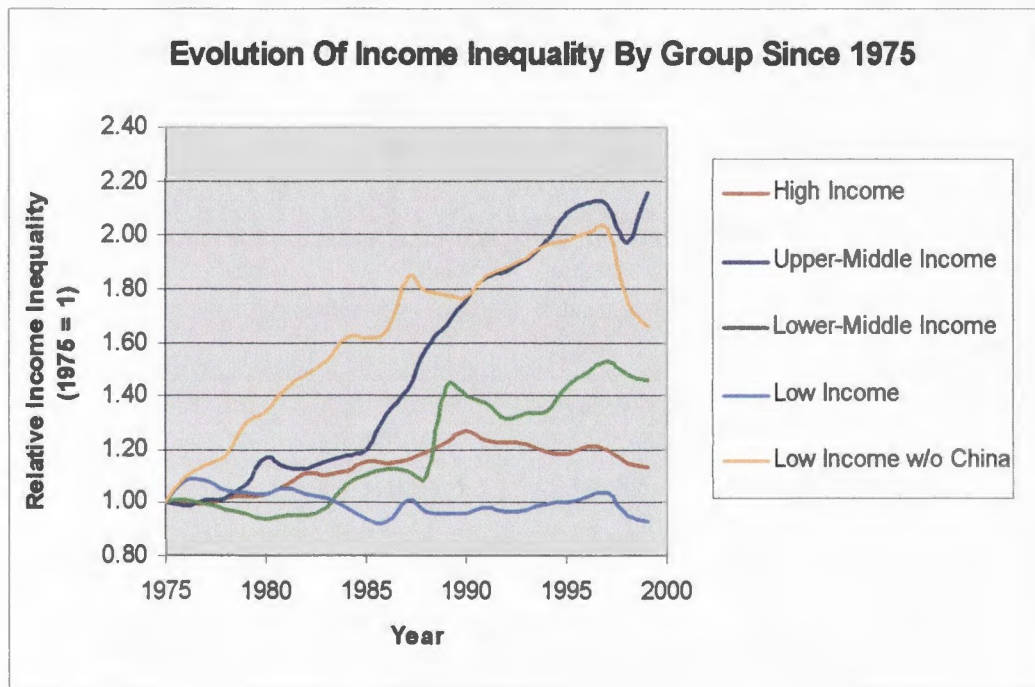
Source: World Development Indicators 2001 CD-ROM

Particularly relevant to the study of conditional convergence is the trend of the coefficient of variation (% Change in CV) within the income groups. The large percentage increases suggest that countries in the same income classes are more widely dispersed around the mean group income than they were in 1975. It is likely that nations within an income class do have some important variables in common. For example, many nations in the High Income group have similar trade policies (low trade barriers). Many Low Income countries are located in Africa and are subject to similar geographic and environmental factors. However, contrary to conditional convergence theory, these nations have experienced high degrees of divergence.

The cause of such wide income disparity may be explained by analyzing the paths the nations within each class have taken since 1975. For example, the Upper-Middle Income class includes 34 nations and has experienced the highest level of income divergence. Why has this trend been so striking within this group? The answer: some nations have achieved tremendous growth and moved into the High Income group (Portugal, Cyprus, Malta, and the Republic of Korea). In contrast, some nations have fared far more poorly, even recording negative rates of average annual income growth (Gabon, South Africa, Venezuela, and Iran). Figure 4 plots the income disparity within the four groups since 1975, including the Low Income group without China. Notice that without China the Low Income group experienced dramatic income divergence. Including China, however,

the group's relative income disparity as measured by the coefficient of variation has remained fairly constant since 1975. The cause of such contradiction is that although significant divergence did occur within the group, China's dramatic economic growth over the period (8.19 percent per annum) and dominant weight within the group (45 percent in 1975) served to increase the mean income of the group at a rate nearly equal to the rate of increase of the standard deviation. Thus, the income inequality as measured by the coefficient of variation has remained roughly the same since 1975. When observing the group without China, the increase of the mean income is much smaller in proportion to the increase of the standard deviation, thus resulting in a rising coefficient of variation.

Figure 4



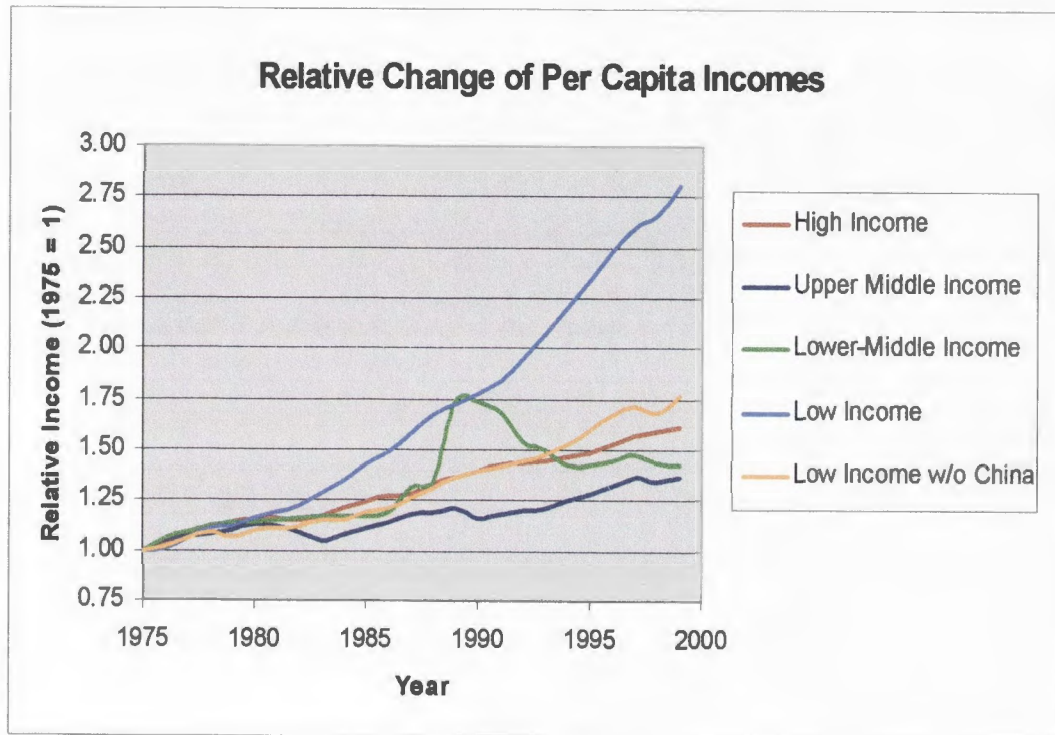
**Note: Indicates the amount of relative income inequality since 1975 as measured by the coefficient of variation of incomes for each group.*

Notes on Population

The graph in Figure 4 shows how per capita incomes have grown in each group since 1975. One notable feature of Figure 5 is the tremendous income growth of the Lower-Middle income group. China, one of 48 countries in the group, has experienced the highest per capita income growth of any country in the world in the last 25 years. The average income in China has grown from just \$130 in 1975 to \$755 in 1999, or an average annual growth rate of 8.19 percent per year. Since one out of every five people in the world is a citizen of China, the nation's rapid economic growth has played a

significant role in the calculation of the world's income growth and disparity for the purposes of this paper. The Lower-Middle income group is also plotted without China below.

Figure 5



The weighty influence of China's income growth is evident in Figure 5. Since one aspect of this study was to measure the average world income, it is important to note the significant impact that large countries such as China have on the results of this study. Also relevant is the fact that, in some cases, hundreds of millions of people within one country's borders are subject to similar living conditions, environments, and national policies. With about 63 percent of the world's total population living in the ten most populous countries, the outcomes and conditions in those nations are particularly important to any study of the overall global situation. Figure 6 ranks the world's ten largest countries according to population. Profiles of each nation's population growth, income per capita, and average annual per capita income growth are also included.

Figure 6

Profiles of the World's Ten Most Populous Countries				
COUNTRY	1999 Population	Population Growth Rate	1999 Income Per Capita	Average Income Growth Per Capita: 1975-1999
China	1,253,595,008	1.36%	\$755	8.19%
India	997,515,200	2.05%	\$448	3.08%
United States	278,230,368	1.04%	\$30,697	1.95%
Indonesia	207,021,616	1.84%	\$907	4.50%
Brazil	167,966,672	1.85%	\$4,276	0.45%
Russian Fed.	146,200,000	0.42%	\$2,051	-6.64%
Pakistan	134,790,000	2.68%	\$511	3.05%
Bangladesh	127,668,808	2.19%	\$374	2.51%
Japan	126,570,000	0.50%	\$42,783	2.84%
Nigeria	123,896,520	3.01%	\$229	-0.85%
WORLD TOTAL	5,954,510,147	1.65%	\$5,543	1.52%

Source: World Development Indicators 2001 CD-ROM

Of the ten largest countries, only two (the United States and Japan) are considered to be high-income countries today. Four (China, Indonesia, Brazil, and the Russian Federation) are classified as middle-income, and four are low-income nations (India, Pakistan, Bangladesh, and Nigeria). Fortunately, however, seven of the ten largest countries experienced income growth rates greater than the world average (1.52 percent per year) over the last 25 years.

Conclusion

In today's dynamic global economy, a huge gap exists between the world's richest and poorest nations. As evidenced by the income data available for 177 of the world's nations since 1975, the gap between rich and poor has widened in recent decades. Based on the data available from 1975 to 1999, convergence has not occurred. Certain nations are growing at a remarkable pace, while many others are still languishing in stagnant economic conditions. Within many nations there also exists considerable income inequality – sometimes only a fortunate few reap the rewards of a nation's economic growth. The answers to why some countries succeed economically while others fail is beyond the scope of this paper, but undoubtedly a nation's environment, economic system, and policy choices are primary determinants.

Although the theory of convergence has not been corroborated by the data in this study, perhaps today's laggards will prove to be tomorrow's stars. Japan has shone brilliantly in the last century, but 100 years ago it was one of the world's poorest nations. South Korea has enjoyed extraordinary growth in the last half century. No one knows which nations will be the success stories of tomorrow, but perhaps someday we may solve the world's most fundamental problem: relieving the poverty and misfortune of billions of people.

Works Cited

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www.worldbank.org, April 3, 2003.

The World Bank, *World Development Indicators 2001 CD-ROM*, (Washington, D.C.: IBRD, World Bank, 2001)

Appendix 1: Gross National Income

1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Country Name
		2758282	1972545	1810538	2007613	2192741	2537189	2771515	2570282	2787917	2878005	Afghanistan
37770084	39609868	39122678	38053261	3885580	38352990	37678567	39065944	40478962	41030836	43471282	44765270	Albania
												Algeria
												American Samoa
												Andorra
4885000	4903576	4724942	4816124	4461040	3566703	1630894	2428432	2421111	2930159	2938871	2875016	Angola
375625	384772	395046	419948	427472	460167	487828	468907	498683	524101	547790	577319	Antigua and Barbuda
199286581	176221651	179893125	205478756	232888959	248207180	282397087	253818390	267105927	288302039	298529751	287986713	Argentina
		5230001	4816818	2278418	2560067	2699252	2883057	3060280	3161602	3499823	3593229	Armenia
												Aruba
296544207	305904681	304244457	308275020	321346830	334470578	346655392	362170548	376681595	396283937	415321522	433631265	Australia
193447461	201651143	211112222	217748799	221119611	222311845	228133847	232923677	239139275	241767580	247880040	250390892	Austria
9576845	8973276	7923444	7687970	5098448	3920720	3281529	2887074	2920750	3015191	3246302	3156356	Azerbaijan
3134477	3208419	3253987	3113888	3098688	3169501	3140866	3131400	3262919	3370595	3471713		Bahamas, The
3670535	3831189	3678704	3671955	4189950	4577258	4524304	4888564	4984630	5138597	5248038		Bahrain
27277226	28147327	31242562	32301912	34026717	35685405	37289452	39098766	40875491	43185119	45444059	47750885	Bangladesh
1836357	1932958	1838767	1774799	1708224	1711436	1788919	1811714	1843683	1970731	2047758	2073132	Barbados
28441350	30829021	30154856	29803727	26931503	25597217	22296615	19944059	20540975	22823305	25214899	26866139	Belarus
241764581	250842677	257564967	262971556	266418325	265051062	272004219	278561882	282031555	290988787	298866409	306692456	Belgium
373174	419706	472844	486057	526053	541372	550365	570524	581000	603238	625879	654755	Belize
1603706	1544262	1596536	1681073	1728595	1806340	1877874	1964971	2076486	2210679	2329417	2440369	Benin
												Bermuda
195722	200677	212110	222936	230961	241354	253663	270155	282742	298862	315199	334111	Bhutan
5022909	5213264	5184758	5489665	5641377	5890085	6189523	6487967	6815191	7100246	7567767	7574524	Bolivia
												Bosnia and Herzegovina
3070510	3511828	3966068	4379682	4834691	4550121	4537309	4866471	5175538	5211403	5404029	5658379	Botswana
630852092	658441175	595784630	601964937	618033775	626216862	663789830	693280190	715516019	739128050	738849696	718159217	Brazil
		7681245	7589070	7285508	7117941	7742219	7685334	7958091	8394211	8427759		Bulgaria
16653411	15935662	13732683	12296581	12476002	12276866	12460292	12679560	11317244	10572816	11296722	11567911	Burkina Faso
2002797	2022476	1986647	2193953	2246773	2226936	2248034	2343684	2488480	2599817	2763022	2922637	Burundi
1050341	1070414	1111321	1170688	1176228	1111287	1065575	988018	902767	907204	949833	944887	Cambodia
2070848	2142901	2167808	2332373	2496048	2598345	2701532	2907018	3110720	3141854	3140075	3281378	Cameroon
9265053	8992786	8408040	7910076	7772404	7462772	7188111	7437223	7838245	8214044	8759594	9196990	Canada
501059289	512089864	512416940	504072831	507140243	519842824	543467602	558869185	567908958	594378182	613777998	642892562	Cape Verde
357063	380474	382744	386561	3989802	422444	452481	485295	503399	528126	571492	619011	Cayman Islands
												Central African Republic
1046030	1068001	1051071	1048821	108821	981892	981674	1021387	1100910	1054816	1115116	1165102	Chad
1292630	1361281	1297096	1425910	1546174	1286454	1392335	1410398	1463154	1522073	1628723	1615679	Channel Islands
												Chile
35311997	39492907	41575604	44704276	50755387	54773256	58349934	62427374	67163148	72352571	78483202	77470024	China
368941307	382352851	398411661	434667127	495955182	560925311	631601889	688446112	755913785	820166459	884139491	946913346	China
68340605	69876244	72634245	72634245	78249697	82971402	88009712	89491284	89484141	98652824	990932759	94197178	Columbia
216791	213556	222365	210530	232262	237425	223674	215631	214797	215732	214782	211182	Comoros
8218001	8196642	7621203	6978548	6163919	5482836	4933437	4876709	5026570	4739009	4927482		Congo, Dem. Rep.
2075546	2063803	2039187	2103287	2247815	2199085	2066013	1541066	1288415	1331351	1783995	1800448	Congo, Rep.
7708234	8140371	8753797	8944414	9712110	10343858	10992389	11355478	11448487	12057298	12853982	12389703	Costa Rica
8143888	8055121	8008731	8084882	8125214	8006469	8403281	9004909	9782120	10513737	11041283	11349038	Cote d'Ivoire
		21732002	17184680	15004305	13878704	14774440	15817393	16795939	17829018	18158475	17924948	Croatia
												Cuba
8191515	6699442	7201037	7257659	7804379	7972328	8414252	8924336	9048901	9296866	9705768	10113990	Cyprus
157793960	157514940	158608654	160267190	162130887	163362439	172496503	177973887	182321005	187566342	192308953	196653171	Czech Republic
												Denmark
												Djibouti
195456	191997	201319	199879	204843	209714	208460	210681	211672	217109	227768	227518	Dominica
9289946	9878590	9293655	9352605	10144441	10146844	10645064	11170460	12108469	13125615	14037068	15224422	Dominican Republic
14166189	14101122	14460256	15472617	16217694	16703948	16805808	17013826	17586344	18163407	18906477	18506150	Ecuador
45625180	47576494	49703956	50796384	53822860	55064682	56963875	60300169	63669371	67490746	71374881	75425948	Egypt, Arab Rep.
6465177	6534388	6890724	7150220	7765996	8368477	8827675	9404629	9545809	9984111	10346911	10570693	El Salvador
108200	105233	110168	1091919	123515	134532	131659	153055	166051	301857	391098	424329	Equatorial Guinea
												Eritrea
7360311	7588066	7050221	6486214	5048546	4645691	4532235	4792476	4987844	5331560	5674582	5589228	Estonia
4913177	4960269	5094431	4855640	4602079	5181065	5368010	5718889	6346578	6622840	6566254	6987711	Ethiopia
												Faeroe Islands
1427255	1607376	1708685	1726378	1772003	1802180	1859390	1877622	1941461	1906515	1825835	2077153	Fiji
125098279	130578989	130095497	120666604	115258081	113104445	119200424	124565037	130607809	140112200	147119374	153549128	Finland
1374842257	1430561096	1467391672	1479823665	1504632373	1495363355	1521760785	1544925610	1569351795	1603864887	1655834149	1706531095	France
3524898	3630644	3710519	3892334	3927365	3931292	3962743	3982556	3994504	4070400	4322764	4495675	French Polynesia
3458086	3821155	3801042	4051367	3818420	3980316	4099497	4240809	4370140	4778244	5027689	4685466	Gabon
319919	313363	317602	339848	361446	373372	373282	377139	384166	401014	421630	448454	Gambia, The
												Georgia
4695774	4950679	5133532	5405268	5628169	5900862	6085247	6324472	6618337	6912507	7237417	7562146	Germany
106975912	111002878	112217997	116077388	116831699	116306502	119132914	121284092	123702854	128300409	132974223	136856937	Ghana
												Greece
												Greenland
228690	239878	249963	262531	263705	252386	260585	264481	270002	282428	296489	319976	Grenada
												Guam
10852840	11293877	11654560	12180153	12779909	13296261	13811169	14483662	14890388	15548328	16385059	16947164	Guatemala
2689361	2745875	2917139	2986377	3125559	3335020	3481680	3607553	3828736	3998993	4164145	4281861	Guinea
181192	192361	206507	212679	217125	219819	227868	235960	247084	263752	287400	196520	Guinea-Bissau
369259	307164	306192	286601	379097</								

Appendix 1: Gross National Income

1147630	5897053	7168501	9016140	9138598	9778300	10560563	11247001	11696880	12164755	12408034	12532114	Lebanon
	1184736	1262683	1234853	1260069	1290781	1297514	1321901	1453377	1534188	1396008	1384840	Lesotho
												Liberia
												Libya
												Liechtenstein
9824563	10152047	11113198	10482572	8267695	6935311	6252058	6430882	6672888	7093784	7432992	7115369	Lithuania
15363715	16690538	17532609	18796210	18690439	18968248	18874137	19356125	19791628	20814212	20388424	21913932	Luxembourg
4426067	4677548	5136121	5323344	6032073	6344899	6616184	6873690	8844871	6825757	6508950	6322594	Macao, China
												Macedonia, FYR
2766970	2873975	3057840	2796820	2894054	2970365	2950202	2992991	3091071	3241378	3398988	3575480	Madagascar
1142150	1166583	1244197	1356555	1266883	1401268	1180623	1381228	1507764	1584564	1579608	1653918	Malawi
46233407	50250572	55470375	60264563	64510362	71000465	77424001	84688945	92819317	99473121	94268409	97763557	Malaysia
139925	144760	166973	170040	181580	187544	208432	224615	242050	257181	275442	295274	Maldives
1919482	2154725	2119995	2186294	2343452	2301032	2292028	2418821	2496708	2659886	2755287	2913770	Mali
2247899	2445447	2646221	2782438	2898478	2999402	3114827	3279968	3380135	3545686	3691059	3819880	Malta
												Marshall Islands
799489	847327	835653	859339	871564	902912	969588	1015478	1073373	1109415	1159818	1213413	Mauritania
2738939	2887403	3065849	3262370	3469805	3650154	3768579	3954331	4180571	4410780	4549075	4760668	Mauritius
												Mayotte
232661631	243021922	256427246	268785205	278800892	283650785	295367967	272877126	288290996	310965764	326423448	339485819	Mexico
			212275	206530	214632	214190	216400	217915	209198	207943	208359	Micronesia, Fed. Sts.
				4594719	4539786	3118415	3063935	3005091	3029594	2831657	2724663	Moldova
												Monaco
1007760	1067260	1038932	1006167	928236	859546	886192	943795	973049	1010803	1046687	1074947	Mongolia
28265032	28854909	30304414	32330482	31121789	30553506	33947656	31668423	35693920	34918466	37537001	37319672	Morocco
1787823	1855729	1918025	2002335	1779430	1952290	2089454	2207880	2410807	2698372	3009286	3203436	Mozambique
												Myanmar
2154423	2364234	2619546	2891143	3003892	2993808	3175568	3362904	3377491	3464938	3543213	3649566	Namibia
1386160	3313570	3472122	3690097	3842856	3903467	4323874	4485222	4688838	4936680	5096607	5362928	Nepal
344135664	362863133	377265029	385845395	392789428	396943786	411300102	419786064	429546701	451487171	464928539	480126140	Netherlands
												Netherlands Antilles
2738851	3040124	3149569	3303898	3321078	3338673	3425151	3628606	3644931	3718090	3599101	3631499	New Caledonia
48950776	48450056	48651915	47948923	49524298	52211966	54678626	56181699	58440361	58413064	57941914	60536123	New Zealand
1405902	1291480	1426940	1274169	1303400	1348655	1279207	1530550	1655830	1813711	1981690	2126691	Nicaragua
1783133	1851617	1771098	1826398	1714603	1736107	1796917	1830106	1917370	1971958	2176715	2164357	Niger
18797605	20092107	21183828	22706754	23445338	24116220	24778729	25888231	26363222	27311727	27557663	28389085	Nigeria
												Northern Mariana Islands
115759522	116450910	118508913	121765642	127313494	130556682	138664886	144728228	151974035	159349228	163104670	163907207	Norway
7034618	7384412	8141191	8849265	9214556	9859535	10204162	10531079	9859535	10204162	10531079	9859535	Oman
43481453	45886665	48056127	52374249	56000750	56927605	58918547	62189974	64053207	64462508	66236121	68922311	Pakistan
												Palau
5396468	5269134	5717053	6132160	6689870	7249059	7539725	7532800	7805413	8088490	8364377	8469900	Panama
3066038	3033077	2943018	3241096	3568938	4224108	4563958	4450437	4757524	4571499	4399143	4537857	Papua New Guinea
7070942	7587010	7857939	8014022	8074894	8439202	8743179	9124898	9245058	9469924	9425657	9297060	Paraguay
43639316	37220635	39799480	39233090	40426291	42171019	47583011	51823493	53502976	57357079	56872129	57464275	Peru
60266385	63808778	66225857	66529556	67562521	68996735	72619213	76165390	81680269	85969420	86169772	89194594	Philippines
												Poland
8800332	93137625	97812513	100224393	103305880	102048667	104212636	106744627	110140408	113728250	117868913	121406677	Portugal
23220802	24758577	25387366	25608804	256892043	26694377	27361739	28292037	29225675	30168896			Puerto Rico
7783122	8041293	8251804	8187778	8976634	8920842	8564868	8375021					Qatar
39947510	37791654	35722580	30998538	28167401	28537045	29685512	31686124	32861514	30657104	29018771	28147753	Romania
2068090	2078070	2020014	2020014	2083207	1904774	951744	1291409	1474380	1664905	1832941	1941628	Russian Federation
190077	193211	185099	191738	184177	193948	178820	196037	207460	210725	213465	215703	Rwanda
												Samoa
35993	37681	37401	37374	38114	38234	39226	40012	41189	41200	41520	43600	San Marino
116327006	115044237	123062507	131116753	133085168	130827485	128819905	130627232	131847758	135598121	138072588	138624877	Sao Tome and Principe
3869605	3812925	4001315	3986743	4127822	3984735	4088582	4320708	4614434	4850862	5125988	5399714	Saudi Arabia
343948	364670	425029	439864	474960	503525	501064	490891	518433	545160	583764	546720	Senegal
963532	1024205	964009	894684	781753	834528	845327	841290	887697	734500	724756	665553	Seychelles
45024104	49864516	54276211	57860780	62628504	69657526	79118836	85965660	93100171	103638426	105071485	110824071	Sierra Leone
21676636	21840112	21401618	18215703	16994785	16359551	17077374	18363142	19475155	20809413	21417974	21656322	Singapore
												Slovak Republic
												Slovenia
230496	246009	246695	255481	279506	285064	299934	320738	332422	325358	326731	325358	Solomon Islands
												Somalia
136568193	139768545	138944397	139445404	137069535	139064639	143923773	148238123	153969607	157865591	158711726	160804913	South Africa
501121810	525740442	545090306	556785074	559454224	554945217	561628054	582729859	594172117	615874888	639673565	661176517	Spain
8885314	9088480	9670143	10114970	10560028	11362590	11976169	12682764	13075929	13859612	14608199	15170538	Sri Lanka
168196	175126	185691	183922	187296	198935	209372	219678	224833	238421	236607	244670	St. Kitts and Nevis
406427	446641	443452	450798	488721	497378	507711	521211	531284	539494	547832	571847	St. Lucia
200803	212386	219257	221446	243358	242533	233340	252265	263245	271506	286294	292641	St. Vincent and the Grenadines
												Sudan
552366	370057	373934	385567	371753	346792	334384	356686	366422	386778	397442		Suriname
977372	986431	1196825	1235110	1271183	1284114	1226511	1348567	1421842	1489910	1516880	1547012	Swaziland
219411628	223616287	225189003	222932208	217933300	212402717	225017905	232639513	234988847	240649077	249861079	258007807	Sweden
298582620	311643832	321173651	318750556	317234676	317249487	316414198	320564855	322617639	331723932	338734023	343671800	Switzerland
11930897	10469694	11385129	12254143	13351795	14183970	15761374	16831221	16584881	15423045	16255867	16012114	Syrian Arab Republic
												Tajikistan
4177124	4311408	4599460	4719498	4737035	4808777	4902799	5130587	5393925	5614934	5880990	6175940	Tanzania
87645946	98652201	109723271	118887236	127481430	138610852	151716741	165258953	174205436	170920198	152513413	160022887	Thailand
1210169	1270850	1280337	1271043	1224177	1017525	1150526	1284859	1405068	1473171	1439186	1468846	Togo

Appendix 2: Population (thousands)

Country Name	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Country Name	
Afghanistan																3282	3277	3225	3179	3185	3225	3266	3304	3339	3375	Afghanistan	
Albania																											Albania
Algeria	16018	16516	17029	17557	18104	18669	19261	19879	20527	21204	21879	22506	23150	23776	24389	25022	25643	26271	26894	27496	28060	28566	29045	29507	29950	Algeria	
American Samoa																											American Samoa
Andorra																											Andorra
Angola											8005	8219	8444	8684	8945	9230	9589	9939	10283	10626	10972	11318	11662	12006	12357	Angola	
Antigua and Barbuda			62	61	61	61	61	61	62	62	62	62	63	63	64	64	64	64	65	65	65	66	66	67	67	Antigua and Barbuda	
Argentina	26049	26463	26867	27268	27675	28094	28523	28959	29402	29852	30305	30760	31213	31662	32101	32527	32960	33400	33848	34304	34768	35220	35672	36125	36580	Argentina	
Armenia																3545	3612	3686	3732	3748	3760	3774	3786	3795	3809	Armenia	
Aruba																											Aruba
Australia	13893	14033	14192	14358	14514	14692	14927	15178	15369	15544	15758	16018	16264	16532	16814	17065	17284	17492	17662	17847	18063	18312	18532	18751	18967	Australia	
Austria	7556	7552	7559	7553	7550	7553	7565	7574	7552	7552	7555	7565	7573	7595	7631	7726	7826	7911	7989	8028	8047	8059	8072	8078	8092	Austria	
Azerbaijan													6893	7004	7085	7159	7271	7382	7495	7597	7685	7763	7838	7910	7983	Azerbaijan	
Bahamas, The	189	193	197	201	206	210	214	219	224	229	232	236	240	245	250	256	259	262	267	272	278	284	289	294	299	Bahamas, The	
Bahrain																448	458	473	489	503	519	537	557	579	603	Bahrain	
Bangladesh	76582	78573	80556	82556	84596	86700	88632	90825	93186	95618	98208	100957	103571	105954	108192	110368	112427	114312	116107	117898	119768	121679	123633	125629	127669	Bangladesh	
Barbados	246	246	247	248	247	249	250	251	252	253	254	255	256	257	258	260	262	264	266	268	270	272	274	276	278	Barbados	
Belarus													10111	10170	10185	10201	10223	10266	10309	10308	10281	10250	10220	10125	10032	Belarus	
Belgium	9795	9811	9822	9830	9837	9847	9852	9856	9856	9853	9858	9862	9870	9902	9938	9967	10005	10045	10085	10116	10137	10157	10181	10203	10226	Belgium	
Belize	129	131	135	138	142	146	150	154	157	162	166	171	175	180	184	189	194	200	205	211	217	222	230	239	247	Belize	
Benin	3029	3107	3188	3275	3366	3464	3568	3678	3794	3916	4043	4174	4310	4449	4592	4737	4883	5029	5177	5325	5475	5629	5787	5948	6114	Benin	
Bermuda																											Bermuda
Bhutan						488	498	508	518	528	539	550	562	575	588	600	618	636	655	675	695	716	737	759	782	Bhutan	
Bolivia	4759	4877	4999	5121	5241	5355	5465	5570	5673	5780	5895	6016	6144	6280	6423	6573	6733	6897	7065	7237	7414	7588	7767	7950	8138	Bolivia	
Bosnia and Herzegovina																											Bosnia and Herzegovina
Botswana	759	786	814	844	874	906	939	973	1008	1044	1081	1119	1158	1197	1237	1276	1315	1353	1390	1425	1460	1496	1533	1562	1588	Botswana	
Brazil	108167	110774	113451	116180	118927	121672	124413	127146	129863	132558	135224	137855	140446	142993	145492	147940	150337	152680	154965	157188	159346	161504	163660	165815	167967	Brazil	
Brunei																257	265	272	279	287	294	301	308	315	319	Brunei	
Bulgaria						8862	8878	8894	8909	8925	8941	8957	8971	8981	8977	8718	8632	8540	8472	8435	8400	8356	8312	8257	8208	Bulgaria	
Burkina Faso	6202	6339	6484	6636	6796	6962	7135	7315	7501	7690	7881	8075	8272	8472	8675	8880	9091	9306	9528	9755	9988	10225	10474	10730	10996	Burkina Faso	
Burundi	3680	3744	3826	3920	4023	4130	4242	4360	4482	4610	4741	4876	5015	5158	5305	5456	5604	5748	5889	6025	6156	6287	6418	6548	6678	Burundi	
Cambodia													8317	8585	8861	9145	9437	9738	10048	10367	10696	11037	11378	11719	12060	Cambodia	
Cameroon	7527	7736	7953	8180	8414	8655	8903	9159	9422	9692	9970	10255	10547	10848	11156	11472	11797	12130	12471	12822	13182	13549	13922	14303	14691	Cameroon	
Canada	23209	23518	23796	24036	24277	24593	24900	25202	25456	25702	25942	26204	26550	26895	27379	27791	28172	28520	28833	29112	29354	29672	29987	30247	30491	Canada	
Cape Verde												316	322	328	335	341	347	354	363	372	382	392	404	415	428	Cape Verde	
Cayman Islands																											Cayman Islands
Central African Republic	2057	2104	2154	2205	2259	2313	2369	2426	2485	2545	2607	2671	2736	2803	2871	2942	3012	3082	3151	3220	3288	3354	3418	3480	3540	Central African Republic	
Chad	4030	4105	4186	4275	4372	4477	4593	4720	4855	4989	5116	5243	5370	5496	5621	5746	5891	6058	6248	6464	6707	6894	7086	7283	7486	Chad	
Channel Islands																											Channel Islands
Chile	10337	10498	10658	10819	10981	11147	11317	11491	11671	11856	12047	12244	12448	12658	12875	13099	13320	13545	13771	13994	14210	14419	14622	14822	15018	Chile	
China	916395	930685	943455	956165	969005	981235	993885	1006630	1023310	1036825	1051040	1066790	1084035	1101630	1118650	1135185	1150780	1164970	1178440	1191835	1204855	1217550	1230075	1242180	1253595	China	
Colombia	25381	25980	26587	27201	27821	28447	29093	29733	30371	31012	31659	32310	32963	33621	34288	34970	35663	36363	37077	37807	38558	39285	40042	40804	41539	Colombia	
Comoros						335	343	351	360	369	379	389	399	410	421	432	443	455	467	480	492	505	518	531	544	Comoros	
Congo, Dem. Rep.	23251	23937	24654	25405	26189	27009	27843	28731	29669	30650	31669	32729	33834	34979	36157	37363	38599	39865	41162	42489	43848	45254	46710	48216	49816	Congo, Dem. Rep.	
Congo, Rep.	1447	1489	1532	1577	1622	1669	1717	1766	1816	1868	1922	1978	2036	2095	2157	2220	2285	2351	2420	2489	2561	2634	2708	2783	2859	Congo, Rep.	
Costa Rica	1968	2023	2084	2148	2216	2284	2354	2425	2497	2570	2642	2714	2785	2855	2925	2994	3064	3132	3199	3266	3333	3398	3464	3526	3589	Costa Rica	
Cote d'Ivoire	6755	7025	7303	7590	7887	8194	8511	8837	9174	9521	9878	10244	10619	11004	11397	11800	12208	12620	13037	13457	13880	14301	14720	15135	15545	Cote d'Ivoire	
Croatia																4778	4784	4782	4779	4649	4669	4494	4572	4501	4464	Croatia	
Cuba																											Cuba
Cyprus	610	610	610	610	611	611	618	625	632	640	648	654	660	665	671	681	694	707	718	726	733	740	747	754	760	Cyprus	
Czech Republic																											Czech Republic
Denmark																											Denmark
Djibouti																											Djibouti
Dominica			72	72	73	73	75	74	74	74	74	73	73	73	73	72	72	72	72	72	73	7					

Appendix 2: Population (thousands)

Country Name	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Country Name	
Pakistan	71033	73305	75626	77982	80354	82730	85096	87436	89832	92284	94794	97354	99953	102622	105270	107975	110750	113562	116444	119402	122375	125410	128457	131582	134790	Pakistan	
Palau																											Palau
Panama	1723	1768	1814	1860	1905	1950	1994	2037	2080	2123	2167	2212	2257	2304	2350	2398	2445	2492	2539	2585	2631	2674	2719	2764	2811	Panama	
Papua New Guinea	2729	2797	2868	2941	3014	3086	3155	3225	3296	3368	3442	3518	3595	3674	3755	3839	3926	4015	4107	4202	4301	4401	4502	4603	4705	Papua New Guinea	
Paraguay	2659	2739	2828	2922	3018	3114	3209	3304	3400	3501	3609	3723	3841	3964	4091	4219	4346	4470	4593	4712	4828	4955	5085	5219	5359	Paraguay	
Peru	15161	15582	16012	16448	16886	17324	17762	18198	18632	19064	19492	19916	20337	20752	21163	21569	21971	22369	22762	23150	23532	23947	24371	24801	25230	Peru	
Philippines	43103	44181	45244	46289	47314	48317	49340	50400	51400	52262	53456	54668	55867	57020	58177	59383	60687	62148	63645	65177	66747	68354	69914	71421	72871	Philippines	
Poland																											Poland
Portugal	9093	9355	9455	9558	9661	9766	9851	9912	9955	9989	10011	10011	9994	9968	9937	9896	9869	9867	9881	9902	9927	9930	9945	9968	9989	Portugal	
Puerto Rico	2994	3044	3089	3129	3168	3206	3243	3278	3312	3345	3377	3409	3440	3472	3504	3537	3571	3604	3644	3687	3731	3783	3827			Puerto Rico	
Qatar	171	181	191	200	212	229	249	273	299	328	358	387	415	441	465	485	498	492	496	500	505					Qatar	
Romania	21245	21446	21658	21855	22048	22201	22353	22478	22553	22625	22725	22824	22940	23054	23152	23207	23185	22789	22755	22731	22681	22608	22554	22503	22458	Romania	
Russian Federation																											Russian Federation
Rwanda	4384	4529	4679	4835	4996	5163	5333	5500	5672	5856	6056	6250	6438	6619	6791	6954	7150	7350	7540	7730	7920	8110	8300	8490	8680	Rwanda	
Samoa																											Samoa
San Marino																											San Marino
Sao Tome and Principe																											Sao Tome and Principe
Saudi Arabia	7251	7574	7959	8395	8869	9372	9910	10491	11104	11737	12379	13038	13721	14417	15115	15803	16301	16831	17277	17735	18205	18687	19182	19685	20198	Saudi Arabia	
Senegal	4806	4945	5087	5234	5384	5538	5696	5859	6026	6198	6375	6557	6742	6933	7128	7327	7501	7692	7897	8111	8330	8557	8795	9039	9285	Senegal	
Seychelles	60	61	62	63	64	64	65	66	66	67	67	68	68	69	69	70	71	72	73	74	75	76	77	79	80	Seychelles	
Sierra Leone	2931	2989	3049	3110	3172	3236	3302	3369	3439	3511	3585	3662	3741	3824	3910	3999	4093	4191	4293	4399	4510	4630	4748	4855	4949	Sierra Leone	
Singapore	2263	2293	2325	2354	2384	2414	2533	2647	2681	2732	2736	2733	2775	2846	2931	3047	3136	3232	3315	3421	3526	3670	3794	3923	3952	Singapore	
Slovak Republic																											Slovak Republic
Slovenia																											Slovenia
Solomon Islands	190	197	204	211	219	227	235	243	252	261	270	280	289	300	310	321	332	344	355	367	379	391	404	416	429	Solomon Islands	
Somalia																											Somalia
South Africa	24728	25268	25806	26355	26941	27576	28255	28972	29724	30505	31308	32121	32933	33729	34491	35200	35933	36691	37474	38283	39120	39912	40670	41402	42106	South Africa	
Spain	35515	35937	36367	36778	37108	37386	37741	37943	38121	38273	38408	38519	38609	38691	38768	38836	38916	39006	39083	39143	39210	39271	39323	39371	39410	Spain	
Sri Lanka	13496	13717	13942	14184	14471	14738	14988	15189	15417	15599	15837	16117	16361	16587	16806	16993	17247	17405	17628	17865	18112	18300	18552	18778	18985	Sri Lanka	
St. Kitts and Nevis			44	44	44	44	45	45	45	44	43	42	42	42	42	42	42	42	41	41	41	41	41	41	41	41	St. Kitts and Nevis
St. Lucia																											St. Lucia
St. Vincent and the Grenadines			95	96	97	98	99	100	101	101	102	103	104	105	106	107	108	109	110	110	111	112	112	113	114	St. Vincent and the Grenadines	
Sudan																											Sudan
Suriname	365	354	362	367	365	355	355	366	376	387	385	390	394	397	400	402	404	406	407	408	409	410	411	412	412	Suriname	
Swaziland	482	498	514	530	547	565	583	601	620	639	659	680	701	723	746	770	794	820	846	872	900	929	960	990	1019	Swaziland	
Sweden	8193	8222	8252	8276	8294	8310	8320	8325	8331	8337	8350	8370	8399	8436	8493	8559	8617	8668	8719	8781	8831	8843	8849	8852	8857	Sweden	
Switzerland	6405	6346	6327	6337	6351	6319	6354	6391	6419	6442	6470	6504	6545	6589	6647	6712	6800	6875	6938	6994	7041	7074	7088	7110	7136	Switzerland	
Syrian Arab Republic	7438	7679	7916	8159	8419	8704	8996	9336	9678	10033	10397	10654	10969	11338	11719	12116	12515	12914	13314	13714	14112	14511	14911	15312	15711	Syrian Arab Republic	
Tajikistan																											Tajikistan
Tanzania																											Tanzania
Thailand	41359	42462	43566	44654	45710	46718	47689	48633	49535	50378	51146	51952	52799	53687	54619	55595	56454	57190	57797	58272	58610	58976	59370	59794	60246	Thailand	
Togo	2285	2345	2407	2473	2543	2615	2691	2770	2852	2937	3026	3117	3211	3309	3409	3512	3635	3750	3870	3990	4110	4230	4345	4458	4567	Togo	
Tonga																											Tonga
Trinidad and Tobago	1012	1023	1035	1049	1065	1082	1101	1122	1143	1163	1178	1190	1199	1206	1211	1215	1226	1236	1245	1254	1262	1270	1278	1285	1293	Trinidad and Tobago	
Tunisia	5611	5742	5890	6049	6216	6384	6555	6730	6906	7044	7262	7494	7686	7859	7960	8156	8341	8515	8676	8824	8958	9089	9215	9333	9457	Tunisia	
Turkey	40025	40911	41760	42605	43502	44484	45548	46696	47873	49079	50286	51440	52569	53723	54902	56126	57064	57931	58812	59706	60500	61425	62411	63373	64385	Turkey	
Turkmenistan																											Turkmenistan
Uganda																											Uganda
Ukraine																											Ukraine
United Arab Emirates																											United Arab Emirates
United Kingdom																											United Kingdom
United States	215973	218035	220239	222585	225065	227225	229466	231664	233792	235825	237924	240133	242289	244499	246819	249440	252206	255120	258167	261412	264800	268177	271542	274894	278230	United States	
Uruguay	2829	2845	2862	2879	2896	2914	2932	2951	2970	2989	3009	3025	3042	3060	3077	3106	3126	3148	3171	3195	3218	3242	3265	3289	3313	Uruguay	
Uzbekistan																											Uzbekistan
Vanuatu																											Vanuatu
Venezuela, RB	12734	13193	13674	14162	14639	15091	15524	15941	16345	16742	17138	17543	17967	18425	18931	19502	19972	20441	20910	21377	21844	22311	22777	23242	23707	Venezuela, RB	
Vietnam																											Vietnam
Virgin Islands (U.S.)																											Virgin Islands (U.S.)
West Bank and Gaza																											West Bank and Gaza
Yemen, Rep.																											Yemen, Rep.
Yugoslavia, FR (S/M)																											Yugoslavia, FR (S/M)
Zambia	4841	5002	5177	5362	5550	5738	5927	6117	6309	6503	6700																

Appendix 3: Per Capita Incomes by Group

Country Name	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Country Name	
Total World Output	1.27E+13	1.34E+13	1.39E+13	1.45E+13	1.52E+13	1.59E+13	1.66E+13	1.73E+13	1.80E+13	1.87E+13	1.94E+13	2.01E+13	2.08E+13	2.15E+13	2.22E+13	2.29E+13	2.36E+13	2.43E+13	2.50E+13	2.57E+13	2.64E+13	2.71E+13	2.78E+13	2.85E+13	2.92E+13	2.99E+13	Total World Output
Total World Population	3.3E+09	3.37E+09	3.43E+09	3.49E+09	3.56E+09	3.62E+09	3.68E+09	3.75E+09	3.81E+09	3.88E+09	3.94E+09	4.01E+09	4.07E+09	4.14E+09	4.21E+09	4.27E+09	4.34E+09	4.41E+09	4.47E+09	4.54E+09	4.61E+09	4.68E+09	4.75E+09	4.81E+09	4.88E+09	4.95E+09	Total World Population
World GDP per capita	3853.947	3968.029	4054.518	4157.284	4256.894	4244.154	4202.213	4225.507	4158.97	4220.261	4284.618	4348.478	4546.968	4670.953	4725.348	4732.498	5103.842	5102.761	5088.409	5166.366	5215.986	5325.918	5429.7588	5450.3823	5543.0015	World GDP per capita	
Standard Deviation	8333.83	8515.07	8222.51	8323.12	8612.67	2.02	2.18	2.08	2.00	1.98	1.92	1.84	1.81	1.86	1.84	1.96	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.87	Standard Deviation
Coefficient of Variation	2.16	2.15	2.03	2.00	2.02	2.18	2.08	2.00	1.98	1.92	1.84	1.81	1.86	1.84	1.84	1.96	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.84	1.87	Coefficient of Variation	
Growth in CV over Time	0.00%	-0.76%	-0.22%	-0.42%	-0.44%	-0.78%	-0.32%	-0.31%	-0.91%	-0.16%	-0.55%	-0.12%	-0.95%	-0.12%	-0.64%	-0.45%	-0.44%	-0.13%	-0.14%	-0.86%	-0.73%	-0.79%	-0.17%	-0.63%	-0.30%	Growth in CV over Time	
High Income																											
Total Output	1.08E+13	1.14E+13	1.18E+13	1.23E+13	1.28E+13	1.31E+13	1.35E+13	1.39E+13	1.43E+13	1.48E+13	1.52E+13	1.56E+13	1.60E+13	1.64E+13	1.68E+13	1.72E+13	1.76E+13	1.80E+13	1.84E+13	1.88E+13	1.92E+13	1.96E+13	2.00E+13	2.04E+13	2.08E+13	2.12E+13	Total Output
Total Population	6.21E+08	6.37E+08	6.43E+08	6.49E+08	6.55E+08	6.61E+08	6.67E+08	6.73E+08	6.79E+08	6.85E+08	6.91E+08	6.97E+08	7.03E+08	7.09E+08	7.15E+08	7.21E+08	7.27E+08	7.33E+08	7.39E+08	7.45E+08	7.51E+08	7.57E+08	7.63E+08	7.69E+08	7.75E+08	7.81E+08	Total Population
High Income per capita	17459	18116	18550	19284	19912	20063	20229	20554	20470	21254	21783	22222	22365	23275	23906	24355	24909	25168	25236	25709	26887	26717	27375	27717	28165	28165	High Income Countries
Standard Deviation	8040	8400	8423	8276	8520	8589	8468	8549	8087	8328	8622	8623	8567	8920	9356	9657	9877	9559	9420	8426	9560	8983	9422	10322	10322	10322	High Income Standard Deviation
Coefficient of Variation	0.512	0.499	0.452	0.429	0.428	0.478	0.468	0.426	0.395	0.382	0.396	0.388	0.383	0.383	0.391	0.398	0.397	0.380	0.373	0.367	0.366	0.370	0.376	0.372	0.372	0.372	High Income Coefficient of Variation
Growth in CV over Time	0.00%	-0.25%	-0.18%	-0.21%	-0.16%	-0.68%	-0.62%	-0.62%	-0.77%	-0.28%	-0.22%	-0.23%	-0.21%	-0.25%	-0.22%	-0.28%	-0.28%	-0.25%	-0.21%	-0.21%	-0.25%	-0.27%	-0.26%	-0.27%	-0.29%	-0.29%	Growth in CV over Time
Denmark																											Denmark
Germany																											Germany
Brunei																											Brunei
United Kingdom																											United Kingdom
Macao, China																											Macao, China
New Zealand																											New Zealand
Slovenia																											Slovenia
Qatar	40025	42020	34555	37482	36564	45086	43248	33129	25014	23029	19673	15114	14201	17636	17303	17014	16760	16247	17987	17110	16584						Qatar
United Arab Emirates	37783	36606	36535	31234	35981	39629	37863	32620	28883	26623	26357	24754	23585	19206	20375	22354	20541	20364	18851	18794	19475	20412	19863	17750			United Arab Emirates
Switzerland	37176	37163	38340	38337	39307	41265	42012	41113	41258	42705	43928	44075	44043	45606	46885	47851	46875	46143	45726	45241	45528	45606	46801	47642	48160		Switzerland
Luxembourg	24841	26091	26678	27758	28010	28873	29607	32514	34066	35562	36821	38495	38922	41156	44202	45909	46556	47619	47426	46741	47268	47628	48901	47793	50727		Luxembourg
Japan	23271	24021	24846	25942	27160	27664	28290	29016	29513	30492	31700	32426	33683	35627	37320	38976	40338	40734	40766	40849	41294	43379	44032	42894			Japan
Kuwait	22361	23985	22683	23749	24541	19037	16310	13419	15313	13710	12552	12714	12714	13759	14511	18981	17867	16733	19235	19710	19837	17655					Kuwait
Sweden	21782	21912	21432	21720	22515	22763	22559	22649	22950	24249	24839	25142	26009	26329	26310	26970	25142	24362	25676	25344	25673	27194	28227	29242			Sweden
Netherlands	19565	20409	20766	21041	21359	21439	21157	20858	21180	21724	22376	22832	22995	23315	24437	25232	25604	25879	25980	26741	27153	27682	28929	29617			Netherlands
Belgium	19086	20126	20152	20670	21007	21807	21515	21688	21674	22344	22394	22804	23384	24416	25241	25841	26285	26522	26283	26890	27480	27767	28581	29292	29991		Belgium
Austria	18873	19719	20590	20503	21662	22158	22106	22518	23220	23309	23857	24306	24679	25470	26424	27326	27824	27949	27829	28419	28945	29674	29951	30866	30943		Austria
Norway	18761	19850	20340	20990	21700	22773	22929	22842	23617	25045	26555	27487	27972	27503	27549	29040	28572	29702	30278	31975	33195	34689	36182	36802	36750		Norway
France	18747	19467	20010	20594	21296	21537	21630	22010	22175	22390	22655	23123	23648	24602	25348	25864	25972	26286	26020	26392	26707	27044	27563	28354	29112		France
United States	18484	19352	20062	20933	21429	21170	21444	20815	21502	22831	23431	23949	24527	25338	25983	25717	25765	26238	26613	27310	27690	28035	29141	29992	30697		United States
Finland	17928	17831	17783	18151	19373	20304	20549	21013	21460	22110	22763	23265	24180	25267	26316	26992	24066	22860	22326	23423	24386	25484	27260	28550	29723		Finland
Iceland	17234	18064	19532	20464	21270	22282	22779	22835	21089	22461	23137	24547	26584	26082	25578	26292	25687	24829	24787	25271	25335	26735	29336	29153	30014		Iceland
New Caledonia	14951	14335	14973	16256	13906	13696	12649	12908	12571	12354	12709	12501	12981	17149	18515	18477	19190	18793	18375	18306	18801	18502	18439	17557	17376		New Caledonia
Canada	14297	14839	15114	15514	15956	15961	16441	15849	15824	16539	17284	17508	18028	18630	18704	18838	17893	17782	18029	18668	19039	19140	19821	20292	21084		Canada
Australia	12361	12985	12683	13149	13586	13533	13697	16012	15417	15848	16402	16834	17000	17619	17937	18193	17828	17836	18371	18937	19424	20050	20570	21384	22149		Australia
French Polynesia	12676	13506	13354	14242	14373	14052	14853	15926	16855	17339	18952	18956	18680	18882	18835	19835	19367	18937	18648	19844	18142	18184	19012	19483			French Polynesia
Italy	11964	12679	13015	13468	14234	14596	14652	14677	14870	15274	15714	16048	16567	17199	17656	17898	18082	18137	17934	18301	18955	19052	19454	19684	20013		Italy
Spain	10520	10714	10874	10899	10826	10955	10783	10887	11056	11179	11367	11724	12366	12952	13561	14036	14307	14343	14199	14348	14862	15130	15662	16247	16777		Spain
Israel	10395	10303	10188	10405	10671	11197	11662	11583	11756	11558	11800	12227	12942	13074	12960	13454	13716	13976	14425	15046	15637	15922	15959	16079	16107		Israel
Ireland	9657	9553	10085	10513	10650	10851	11012	10850	10609	10760	10921	10929	11450	11954	12558	13847	14110	14306	14676	15581	16686	17959	19388	20653	21837		Ireland
Saudi Arabia	9603	10574	10719	10827																							

