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## The decline of the world's IQ

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#### Abstract

Dysgenic fertility means that there is a negative correlation between intelligence and number of children. Its presence during the last century has been demonstrated in several countries. We show here that there is dysgenic fertility in the world population quantified by a correlation of -0.73 between IQ and fertility across nations. It is estimated that the effect of this has been a decline in the world's genotypic IQ of 0.86 IQ points for the years 1950–2000. A further decline of 1.28 IQ points in the world's genotypic IQ is projected for the years 2000–2050. In the period 1950–2000 this decline has been compensated for by a rise in phenotypic intelligence known as the Flynn Effect, but recent studies in four economically developed countries have found that this has now ceased or gone into reverse. It seems probable that this "negative Flynn Effect" will spread to economically developing countries and the whole world will move into a period of declining genotypic and phenotypic intelligence. It is possible that "the new eugenics" of biotechnology may evolve to counteract dysgenic fertility.

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#### 1. Introduction

In this paper we seek to answer four questions. These are, first, what is the world's IQ? Second, is the world's IQ declining? Third, if the world's IQ is declining, what is the rate of this decline? And fourth, what is the likely future of the world's IQ? These questions are difficult to answer, but we believe that the probability that the world's IQ is declining is a sufficiently important issue to be worth tackling.

The possibility that the intelligence of the population of Britain and other economically developed nations is declining was raised by Galton (1869) and was a cause of

\* Corresponding author. E-mail address: Lynn540@aol.com (R. Lynn). widespread concern in the first half of the twentieth century. The decline of intelligence was first inferred from the negative association between intelligence and number of siblings, shown by Lentz (1927) in the United States and by Cattell (1937) and Burt (1952) in Britain, from which it was inferred that more intelligent couples were having fewer children than the less intelligent. This inference was later confirmed by a number of studies reviewed in Lynn (1996). For instance, Herrnstein and Murray (1994) showed that in the United States women with an average IQ of 111 had 1.6 children, while women with an average IQ of 81 had 2.6 children.

The negative association between IQ and number of children became known as dysgenic fertility. Since it was assumed that intelligence is to some degree inherited, it became widely believed that dysgenic fertility entailed a decline in the intelligence of the

population. Calculations of the rate of decline were made by Lentz (1927), Cattell (1937) and Burt (1952). Empirical studies were carried out to examine whether intelligence was in fact declining but these showed that, contrary to expectation, intelligence was increasing. This was reported in the United States by Tuddenham (1948), in Scotland by the Scottish Council for Research in Education (1949), and in England by Cattell (1950). These increases in intelligence subsequently became known as the Flynn Effect because of the extensive work confirming them by Flynn (1984, 1987).

These studies showing that intelligence has been increasing, contrary to the expectation that it should be declining, led to a rethink on the problem. The solution was found by Retherford and Sewell (1988) and lies in the distinction between phenotypic and genotypic intelligence. Phenotypic intelligence is measured intelligence and it is this that has been increasing. Genotypic intelligence is the genetic component of intelligence and it is this that has been declining.

Retherford and Sewell (1988) presented an estimate of the magnitude of the decline of genotypic intelligence in the United States. They used the formula for calculating the magnitude of the genotypic change (decline or increase) of a trait resulting from differential fertility worked out by population geneticists and applied it to the decline of genotypic intelligence. This formula is given by Plomin, DeFries and McClearn (1990, p. 281) as  $R = h^2 S$ , where R is the response to selection (i.e. the change in genotypic value resulting from differential fertility),  $h^2$  is the narrow heritability of the trait (i.e. the heritability attributable to additive genes, whereas broad heritability includes the effects of dominants and recessives), and S is the selection differential (the difference between the parental and the child generations (for a further explanation of this, see Plomin et al. (1990, p. 280 ff). Retherford and Sewell (1988) calculated the IQ difference between the parental and the child generations by assuming that children have on average the same IQ as their parents, and weighting the IQs of the child generation by their proportions in the child population. This gives the selection differential, which in their data set was -0.81(i.e. the mean IQ of the child generation was 0.81 IQ points lower than that of the parental generation). Adopting the narrow heritability of intelligence of 0.71 given by Jinks and Fulker (1970), there is therefore a decline of genotypic intelligence of 0.57 IQ points a generation  $(0.81 \times 0.71 = 0.57)$ . About the same magnitude of dysgenic fertility has been found in several other economically developed nations, reviewed in Lynn (1996).

#### 2. Estimating the decline of the world's genotypic IQ

Here we use the formula given above for calculating the decline of the genotypic value of a trait ( $R = h^2S$ ) and used by Retherford and Sewell (1988) to calculate the decline of genotypic intelligence in the United States, to examine the question of whether the genotypic intelligence of the world has been declining. To do this we need first to obtain estimates of the world's IQ for two successive generations to calculate the selection differential. To obtain this we have estimated the world's IQ in 1950 and in 2000. To calculate the world's IQ in 1950 we have used the IQs for all the 192 nations in the world given by Lynn and Vanhanen (2002) and weighted these by the size of the populations given by the U.S. Bureau of the Census (2006). These data are given in the appendix.

These calculations assume that national IQs were the same in 1950 and 2000. This assumption is justified by the demonstration that there is a correlation of 0.92 between two measures of national IQs obtained at different times, based on 71 countries (Lynn & Vanhanen, 2002, p. 62). This assumption can be questioned on the grounds that the immigration into the United States, Canada and Europe of non-European peoples with lower average IQs than the indigenous peoples is likely to reduce the national IQs of these countries. We accept that this is likely the case but believe that the effect is too small to have any significant effect on our calculations.

These calculations give the IQ of the world in 1950 as 92.75. Applying the same method to calculate the world's IQ in 2000, we obtain an IQ of 90.31 (note that these figures are "notional IQs", i.e. the IQs that would be present if environmental conditions for the development of intelligence had been the same in 1950 and 2000). Thus, there has been a decline of 2.44 "notional IO" points in the world's IQ from 1950 to 2000. This 50 year period represents approximately two generations, so the decline per generation is half this figure=1.22 "notional IQ" points for one generation (notice that this is a little greater than the decline of 0.81 "notional IQ" points a generation in the United States calculated by Retherford and Sewell). This is the selection differential for intelligence in the world. The principal reason for the decline in "notional IQ" lies in the negative correlation coefficient of -0.73across nations between IQ and fertility (Total Fertility Rates are given by the CIA World Factbook, 2006).

To calculate the decline of the world's genotypic intelligence, we also need to know the narrow heritability of intelligence in the world. This is more difficult to estimate. Heritability is a population statistic and the heritability of intelligence may be expected to vary in different populations. In fact, however, the narrow heritability of

intelligence has been found to approximately be the same (about 0.70) in a number of economically developed nations and in India reported in two studies (Nathawat & Puri, 1995; Pal, Shyam & Singh, 1997). The magnitude of heritability depends on the variability in environmental conditions in the population and is therefore likely to be lower for the whole world because the variability in environmental conditions is greater across the whole world than in individual nations. We propose as a reasonable assumption that the world heritability of intelligence is half that of the heritability within economically developed and economically developing nations, i.e. about 0.35. Adopting this figure, the decline of the world's genotypic IO over the period 1950-2000 is estimated at 2.44×0.35=0.86 IO points. A generation is typically around 25 years, so this represents a decline of the world's genotypic IQ of 0.43 IQ points a generation. The world heritability of intelligence of 0.35 is a "guesstimate". If we assume a higher heritability of 0.50, the decline of the world's genotypic IQ would be of 0.61 IQ points a generation. Alternatively, if we assume a lower heritability of 0.15, the decline of the world's genotypic IQ would be of 0.183 IQ points a generation.

# 3. Estimating the future decline of the world's genotypic IQ

It is possible to estimate the future rate of decline of the world's genotypic IQ for the period 2000-2050 by using the US Bureau of the Census estimates of the populations of all nations for the year 2050. These estimates are based on reasonable assumptions about fertility and mortality in different countries, including increasing rates of mortality from AIDS in sub-Saharan Africa. Using the same method as for the calculation of the world's IO in 1950 and 2000, we calculate that the world's IQ in 2050 will be 86.67. We recall that in the year 2000 the world IQ was 90.31, so we estimate a decline of 3.64 "notional IQ" points by the year 2050. Assuming a narrow heritability of intelligence for the world of.35, the decline of genotypic IQ in the world over this 50 year period is estimated at  $3.64 \times 0.35 = 1.27$ IQ points. Assuming as before that this 50 year period comprises approximately two generations, this represents a decline of half this figure=0.64 IQ points per generation. Notice that this is not greatly different from the decline of 0.57 IQ points a generation for the United States on the basis of Retherford and Sewell's data).

It will be noted that this predicted decline of the world's genotypic IQ during the years 2000–2050 is 50% greater than that for the years 1950–2000. The main reason for this is that total fertility rates are projected by the US Bureau of the Census to be lower in high IQ

countries during 2000–2050 than between the years 1950–2000.

### 4. The decline of genotypic IQ within countries

The negative association between IQ and fertility across nations is not the only factor responsible for a decline in the world's genotypic intelligence. An additional factor is dysgenic fertility within countries. As noted in Section 1, the Retherford and Sewell (1988) study indicated a decline of genotypic intelligence in the United States of 0.57 IQ points a generation. About the same magnitude of dysgenic fertility has been found in several other economically developed nations, reviewed in Lynn (1996).

Much less is known about whether dysgenic fertility is present in economically developing countries. The only work known to us is that of Meisenberg, Lawless, Lambert and Newton (2005) and is a study of the Afro-Caribbean population of Dominica. In this study of 352 people aged 51-62 it was found that for men the association between intelligence measured by the Progressive Matrices and number of children was slightly positive for men (r=0.06), but negative for women (r=-0.163). The greater dysgenic fertility for women than for men has typically been found in economically developed countries. If we combine the results for men and women, the correlation between intelligence and fertility in Dominica is -0.08 and is therefore slightly dysgenic. It is not possible to estimate the magnitude of the decline of genotypic intelligence from the data. All that can be inferred from this study is that dysgenic fertility is present in Dominica and this may or may not be typical of other economically developing countries. If it is, dysgenic fertility within countries is a likely a worldwide phenomenon and is increasing the magnitude of the decline of the world's genotypic intelligence estimated in Sections 2 and 3.

## 5. The rise and fall of the world's phenotypic intelligence

While the evidence suggests that the world's genotypic IQ has declined over the period 1950–2000, and can be projected to decline more strongly over the period 2000–2050, there is much evidence to indicate that the world's phenotypic IQ increased over the period 1950–2000, and may (or may not) continue to increase over the period 2000–2050. This increase over the period 1950–2000 that has become known as the Flynn Effect, is attributable to improvements in the environment for the development of intelligence. There is no consensus as to what these improvements in the environment consist of, but suggestions have included improvements in nutrition, education,

and a more cognitively stimulating environment. The magnitude of the Flynn Effect among school age children is about 3 IQ points a decade, and somewhat higher at around 5 IQ points a decade among military conscripts where later generations have had more years of education than earlier generations.

There is considerable evidence for the Flynn Effect in a number of economically developed countries (Flynn, 1984, 1987). There is much less evidence on whether similar increases in intelligence have been taking place in economically developing countries, but there is sufficient evidence to suggest that IQ increases of broadly similar magnitude have been taking place in these. For instance, in the 16 studies of the IQs of blacks in South Africa that span the years from 1929 to 2004, summarized in Lynn (2001, pp. 31-4), the IQ of 65 reported in the first study published in 1929 was barely different from the IQ of 67 in the most recent study published in 2004. This indicates that the IQ of blacks in South Africa has been increasing at just about the same rate as that of IQs in Britain, against which the IQs in South Africa have been calibrated. A Flynn Effect has been reported in Kenya (Daley et al., 2003) and in Dominica, where a gain of 18 IQ points among the adult Afro-Caribbean population has been found over 35 years, measured by the Progressive Matrices and representing an increase of 5.1 IQ points a decade (Meisenberg et al., 2005). This rate of gain is comparable to the increases among adults in economically developed nations reported by Flynn (1987).

These IQ gains of around 3 IQ points a decade (about 7.5 IQ points a generation) among school age children and 5 IQ points among adults are clearly much greater than the loss of around 0.43 IQ points a generation in the world's genotypic IQ that we have estimated for the period 1950–2000, plus a further loss arising from dysgenic fertility within countries that is unquantifiable. Thus, the situation for the world's IQ appears to be similar to that in the United States and other economically developed countries in so far as the genotypic IQ has been declining, but the phenotypic IQ has been increasing at a greater rate as a result of environmental improvements.

#### 6. The future of the world's intelligence

We have suggested that over the period 1950–2000 the increase of the world's phenotypic IQ has more than compensated for the decline of the world's genotypic IQ, just as it has in a number of individual countries. However, this compensation cannot be expected to continue indefinitely. On the contrary, the environmental improvements responsible for the Flynn Effect are likely to be subject to diminishing returns. When their impact is

exhausted, and if dysgenic fertility continues, phenotypic intelligence will begin to decline.

There is some evidence from four recent studies that the expectation that the Flynn Effect will peter out and then be superseded by a decline in phenotypic intelligence has already occurred. These are, first, a study of the intelligence of conscripts in Norway over 50 years has reported that there were the usual gains up to the mid-1990s, but from then until 2002 there has been no increase (Sundet, Barlaug & Torjussen, 2004). Second, in Australia the IQ of 6-11 year olds measured by the Colored Progressive Matrices has shown no increase from 1975-2003 (Cotton et al., 2005). Third, in Denmark where the IQs of all young men aged 18-19 conscripted for military service has been recorded since 1959, it has been found that between 1959-1989 the mean IO of the conscripts increased by 3 IQ points per decade, confirming many other studies (Teasdale and Owen, 2005). However, from 1989–1998 the mean IQ of the conscripts increased by only 1.6 IQ points, showing a slowing of the rate of increase. The IQ peaked in 1998, and from this year to 2004 the mean IQ of the conscripts declined by 1.6 IQ points, representing 2.7 IQ points per decade. Thus, phenotypic intelligence in Denmark has begun to decline at just about the same rate as its previous rate of increase.

Fourth, in Britain a decline in IQ among 11–12 year olds of 12 IQ points over the years 1975–2003, representing a decline of 4.3 IQ points a decade, has been reported by Shayer (2007). The evidence of these four studies suggests that the Flynn Effect has ceased in the economically developed nations. There is, however, a problem with these four studies that these countries have significant numbers of non-European immigrants whose mean IQs are lower than the indigenous populations and these will reduce the mean IQs of recent samples. The contribution of this to the "negative Flynn Effect" needs to be quantified.

Nevertheless, it seems probable that in the economically developed nations the phenotypic intelligence will first stabilize, as it apparently has in Norway and Australia, and then decline, as it apparently has in Denmark and Britain. In the economically developing nations phenotypic intelligence will likely increase for some years if environmental conditions improve. This will reduce the intelligence gap between the economically developed and the economically developing nations, but it must be expected that in due course the impact of environmental improvements in the economically developing nations will cease. When this happens, and if dysgenic fertility continues, it can be predicted that both genotypic and phenotypic intelligence will decline throughout the world.

The decline of the world's intelligence and the prospect of a continuation of this decline must surely be a cause for concern. Intelligence is an important determinant of scientific and cultural achievement, earnings, health and many aspects of the quality of life. All of these are likely to deteriorate as the world's intelligence declines.

We should consider whether there are any plausible alternative scenarios to the projected decline of the world's intelligence. The problem lies in the presence of dysgenic fertility worldwide and in whether this could be reversed or is likely to reverse itself spontaneously. The problem of arresting and if possible reversing dysgenic fertility within countries was extensively discussed by eugenicists in the first half of the twentieth century. Accounts of these ideas have been given by Keyles (1985) and Lynn (1996, 2001). The eugenicists considered a twofold strategy to deal with the problem, which they designated positive and negative eugenics. Positive eugenics consisted of policies designed to persuade the more intelligent to have greater numbers of children. The principal method proposed was the provision of financial incentives, as advocated by Cattell (1937), but it proved impossible in the western democracies to introduce any practical measures of this kind. Negative eugenics consisted of the dissemination of knowledge of birth control and the sterilisation of the mentally retarded, which was first introduced in Indiana in 1907 and subsequently in most of the American states and throughout most of Europe. These programs had some success but did not arrest dysgenic fertility (Lynn & van Court, 2004).

In the second half of the twentieth century, public opinion turned against eugenics and from the 1960s onwards eugenics became virtually universally condemned. Throughout western nations the eugenics societies for the promotion of eugenics dissolved themselves. It seems unlikely that any attempts to introduce eugenic programs in the western democracies will be made in the foreseeable future. The lesson to be drawn from the history of the eugenics movement is that it would be immensely difficult and probably impossible to halt or reverse dysgenic fertility by the methods of classical eugenics. The eugenicists tried to find ways of reversing dysgenic fertility in individual countries and failed. It would be even more difficult to reverse dysgenic fertility in the whole world. To achieve this ways would have to be found to increase fertility in the high IQ nations and reduce fertility in the low IQ nations. We do not see any probability of success in achieving either of these objectives.

It remains possible that "the new eugenics" of biotechnology may evolve to counteract dysgenic fertility. The most promising development would be embryo selection. This would entail the culture of a number of embryos by IVF, the genetic screening of them for intelligence (as well as other desirable qualities), and the implantation of those with the genetic potential to develop high intelligence. A futuristic scenario of this kind has been envisioned by Silver (1996). This technique is already being used to screen out embryos with the genes for genetic disorders and to implant those free of these disorders. It is not yet possible to use this technique to identify and implant embryos with high potential intelligence but it is likely that this will become possible in the future. Any attempt to do this is at present prohibited in the United States, Canada and Europe, but once the technique has become feasible it is likely that it will be permitted in some countries and couples will go to these for the treatment.

If this happens it could have a considerable effect in raising intelligence. Most couples have some alleles for high intelligence and are capable of producing children with higher intelligence than they have themselves. This technology would allow them to do so. It is likely that this technique would be used first by more intelligent and affluent couples in economically developed nations and come in time to be adopted by most of the population. This would raise intelligence in the economically developed nations and increase further the intelligence gap between the economically developed high IQ nations and the economically developing low IQ nations. Eventually it might spread to the economically developing nations.

This scenario posits that eugenic fertility may evolve spontaneously in free societies through the exercise of individual choice by couples. An alternative scenario is that the rulers of some authoritarian state will recognise the dangers of dysgenic fertility and declining intelligence and impose measures to reverse it. The most likely of these would be the requirement of licences for parenthood that would only be granted to couples with some minimum level of intelligence. Since the intelligence of parents is correlated with that of their children at around 0.5, a licensing scheme of this kind would increase the intelligence of the child generation. A scheme of this kind was proposed by Galton in an unpublished blueprint for his eugenic Utopia, an account of which is given in Lynn (2001). The Chinese came close to implementing a program of this sort in the 1980s in the one-child policy, in which couples were required to obtain a certificate to have a child and were punished by fines and other penalties for having unauthorized children (White, 2006).

Through these, or perhaps by other means, the dysgenic fertility of the twentieth and early twenty-first centuries could turn out to be only a temporary phase in the world's demographic development and the decline of the world's intelligence will be averted.

## Appendix

	Country	Fertility rates	IQ	Population 1950	Population 2000	Population 2050
1	Afghanistan	6.69	84	8,150,368	23,898,198	81,933,479
2	Albania	2.03	90	1,227,156	3,473,835	4,016,945
3	Algeria	1.89	83	8,892,718	30,409,300	43,983,870
4	Andorra	1.30	98	6176	66,824	69,129
5	Angola	6.35	68	4,117,617	10,377,267	24,746,652
6	Antigua & Barbuda	2.24	70	45,816	66,464	69,259
7	Argentina	2.16	93	17,150,336	37,497,728	48,740,060
8	Armenia	1.33	94	1,355,269	3,042,556	2,943,441
9	Australia	1.76	98	8,267,337	19,164,620	24,175,783
10	Austria	1.36	100	6,935,100	8,113,413	7,520,950
11	Azerbaijan	2.46	87	2,885,332	7,809,052	9,955,428
12	Bahamas	2.18	84	70,498	290,075	324,052
13	Bahrain	2.60	83	114,840	634,137	973,412
14	Bangladesh	3.11	82	45,645,964	130,406,594	279,955,405
15	Barbados	1.65	80	210,666	273,483	274,523
16	Belarus	1.43	97	7,722,155	1,033,697	7,738,613
17	Belgium	1.64	99	8,639,369	10,263,618	9,882,599
18	Belize	3.60	84	65.797	247.887	541,734
19	Benin	5.20	70	1.672.661	6.627.964	16.356.458
20	Bermuda	1.89	90	38.869	62.971	66.025
21	Bhutan	4.74	80	734.000	2.005.222	4.653.000
22	Bolivia	2.85	87	2.766.028	815.260	13.772.819
23	Bosnia & Herzegovina	1.22	90	2,662,000	4 035 457	3 891 669
24	Botswana	2.79	70	430.413	1.607.069	1.411.662
25	Brazil	1 91	87	53 443 075	175 552 771	228 426 737
26	Brunei	2.28	91	44 983	336 376	600 998
27	Bulgaria	1 38	93	7 250 500	7 818 495	4651 477
28	Burkina Faso	6.47	68	4 376 162	11 308 552	43 656 786
29	Burundi	6.55	69	2 362 522	6 621 166	22,852,556
30	Cambodia	3 37	91	4 471 170	12 466 262	25,089,909
31	Cameroon	4 39	64	4 887 591	15 343 036	34 908 839
32	Canada	1.61	99	14 011 422	31 278 097	41 429 579
33	Cape Verde	3 38	76	146 403	401 343	380 614
34	Central African Ren	4 41	64	1 259 816	3 935 417	6 502 151
35	Chad	6.25	68	2 607 769	8 316 481	29 547 665
35	Chile	2.00	90	6 090 833	15 153 450	19 244 843
37	China	1.73	105	562 579 779	1 268 853 362	1 424 161 948
38	Colombia	2 54	84	11 591 658	39 685 655	64 534 420
39	Comoros	5.03	77	148 057	578 400	1 835 099
40	Congo: Dem Rep of (Zaire)	6.45	65	13 568 762	52 021 832	183 177 415
41	Congo: Ben of (Brazz)	6.07	64	826 308	3 102 404	9 618 358
42	Cook Islands	3.10	89	14 575	20 407	24 930
43	Costa Rica	2 24	89	866 982	3 710 558	5 696 700
44	Cote d'Ivoire	4 50	69	2 860 288	15 563 387	32 400 664
45	Croatia	1.50	90	3 837 297	4 410 830	3 864 201
46	Cuba	1.40	85	5 784 797	11 134 273	10 477 677
40	Cyprus	1.82	01	494 000	758 363	841 102
48	Czech Republic	1.02	98	8 925 122	10 270 128	8 540 221
40	Denmark	1.21	98	4 271 000	5 337 416	5 575 147
49 50	Diibouti	5 31	68	4,271,000	430 822	993.011
51	Dominica	1 94	67	51 423	71 540	81 961
52	Dominican Depublic	2.27	07 87	2 2 2 2 0 6 9	8 410 302	146 570 62
53	Ecuador	2.65	02 88	3 360 955	12 505 204	20 332 088
54	Equat	2.00	00 Q1	2 110 7601	70 402 242	20,332,000
54 55	Egypt Fl Salvador	2.03	01 80	2,119,7091	6 122 515	120,920,512
56	Equatorial Guinca	J.12 1 55	64	211 204	473 216	12,039,149
30	Equatorial Outrea	4.33	04	211,204	473,210	1,003,071

(continued on next page)

## Appendix (continued)

	Country	Fertility rates	IQ	Population 1950	Population 2000	Population 2050
57	Eritrea	5.08	68	1,403,000	4,356,581	10,164,000
58	Estonia	1.40	99	1,095,610	1,379,835	861,913
59	Ethiopia	5.22	64	20,174,562	64,690,052	144,716,331
60	Fiji	2.73	85	287,348	832,494	1,447,573
61	Finland	1.73	99	4,008,900	5,168,595	4,819,615
62	France	1.84	98	41,828,673	59,381,628	61,017,122
63	Gabon	4.74	64	415,767	1,235,484	3,221,749
64	Gambia	5.30	66	271,369	1,367,884	4,068,861
65	Georgia	1.42	94	3,515,602	4,777,209	3,784,724
66	Germany	1.39	99	68,374,572	82,187,909	73,607,121
67	Ghana	3.99	71	5,297,454	19,736,036	38,735,638
68	Greece	1.34	92	7,566,028	10,559,110	10,035,935
69	Grenada	2.34	71	75,806	89,312	87,136
70	Guatemala	3.82	79	2,968,976	11,085,025	22,995,434
71	Guinea	5.79	67	2,585,509	8,638,858	28,713,509
72	Guinea-Bissau	4.86	67	573,268	1,278,273	2,895,666
73	Guyana	2.04	87	427,971	755,171	597,806
74	Haiti	4.94	67	3.097.220	7.443.620	19.807.275
75	Honduras	3.59	81	1,431,447	6.347.658	12.641.869
76	Hong Kong	0.95	108	2.237.000	6.658.720	6.172.725
77	Hungary	1.32	98	9.338.000	10.137.449	8.374.619
78	Iceland	1.92	101	142.938	281.043	350.922
79	India	2.73	82	369 880 000	1 004 124 224	1 807 878 574
80	Indonesia	2.40	87	82,978,392	213 829 469	313 020 847
81	Iran	1.80	84	16 357 000	63 273 255	81 490 039
82	Iraq	4 18	87	5 163 443	22,675,617	56 360 779
83	Ireland	1.86	92	2,963,018	3 791 690	5 396 215
84	Israel	2 41	95	1 286 131	5 842 454	8 516 835
85	Italy	1.28	102	47 105 000	57 719 337	50 389 841
86	Iamaica	2 41	71	1 384 550	2 615 447	3 499 068
87	Japan	1 40	105	83 805 000	126 699 784	99 886 568
88	Jordan	2.63	84	561 254	4 998 564	11 772 789
89	Kazakhstan	1.89	94	6 693 230	15 032 140	15 099 700
90	Kenya	4 91	72	6 121 184	30 507 979	65 175 864
91	Kiribati	416	85	33 448	91 985	235 342
92	Kuwait	2.91	86	144 774	1 973 572	6 374 800
93	Kyrgyzstan	2.69	90	1 738 961	4 851 054	8 237 623
94	Laos	4 68	89	1 885 984	5 497 733	13 176 153
95	Latvia	1.27	98	1 936 498	2 376 178	1 544 073
96	Lebanon	1.90	82	1 364 030	3 578 036	4 940 731
97	Lesotho	3.28	67	726 182	2 037 961	1 448 643
98	Liberia	6.02	67	823 885	2,693,780	7 072 402
99	Libva	3.28	83	961 305	5 115 450	10 817 176
100	Lithuania	1 20	91	2 553 159	3 654 387	2 787 516
101	Luxembourg	1.20	100	2,555,155	438 777	720 603
102	Macedonia	1.57	91	1 224 627	2 014 512	1 990 728
102	Madagascar	5.62	82	4 620 437	15 741 942	56 513 827
104	Malawi	5.92	69	2 816 600	11 559 538	29 820 957
105	Malaysia	3.04	92	6 433 799	21 793 293	43 122 397
106	Maldives	4 90	81	79 293	301 475	815 031
107	Mali	7.42	69	3 687 654	10 048 561	40 002 414
108	Malta	1.50	97	311 973	389 947	395 639
109	Marshall Islands	3.85	84	10 904	53 064	102 761
110	Mauritania	5.86	76	1 005 595	2 667 859	8 635 801
111	Mauritius	1.95	89	481 270	1 179 368	1 451 156
112	Mexico	2 42	88	28 485 180	99 926 620	147 907 650
113	Micronesia	3.16	84	30 715	107 754	74 296
114	Moldova	1.85	96	2 336 432	4 382 462	3 620 416
115	Mongolia	2.05	101	778 555	2 600 835	4 086 025
	mongona	ل ہے ۔ ہے	101	110,000	2,000,000	4,000,025

## Appendix (continued)

116 Moresco 2.68 84 9.343,384 30,122,350 9.871,553   117 Morambique 4.62 6.44 6.250,443 18,125,654 44,842,274   118 Myanmar (Burma) 1.98 87 19.486,000 44,301,206 54,450,000   119 Namibà 3.06 70 46,372 19,055,59 1.755,852   120 Nepal 4.10 78 8,989,915 24,702,119 53,293,874   121 Netherlands 1.66 100 10,113,527 15,075,852 29,433,440   122 New Caledonia 2.28 85 55,060 201,816 290,682   123 New Caledonia 5,49 69 3,1796,339 114,306,700 36,553,597   124 Nicrita 6,266 69,706 143,112 56,658,888 82,858 2,533,389 82,27,623   129 Norway 1.78 100 3,265,126 4,492,400 4,663,858   129 Norway 1.78 100 3,264,129,88 2,97,023 13,30,067   131		Country	Fertility rates	IQ	Population 1950	Population 2000	Population 2050
117   Mozambique   4.62   64   6.250,443   18,124,564   41,842,274     118   Myamar (Burma)   1.96   70   463,729   1.905,659   1.705,852     120   Nepal   4.10   78   8.999,015   24,702,119   52,338,74     121   Necherlands   1.66   100   10,113,527   15,907,853   17,334,090     123   New Zealand   1.79   99   1,906,310   3,819,762   48,42,397     124   Nicargua   2.75   81   1.097,916   49,812,400   48,553,597     125   Nigeria   5.49   69   3,271,073   116,410,700   35,653,597     126   Nigeria   2.10   106   9,471,140   21,647,682   26,35,897     127   North Korea   2.10   106   9,471,140   21,647,682   26,452,897     128   Norther Mariana Isles   1.48   16,252   4492,400   4,966,385   27,702,35     129   Norean   5.77   81   482	116	Morocco	2.68	84	9,343,384	30,122,350	50,871,553
H8   Myammar (Burma)   1.98   87   19.488,000   44.301,206   54.430,000     Nepal   4.10   78   8.999,015   24.702,119   53.239,874     120   Neherlands   1.66   100   10,113,527   15.907,853   17.314,000     121   Netherlands   1.28   85   55.069   201,816   290,682     123   New Caledomin   2.28   85   55.069   201,816   290,682     124   Nicargan   2.75   81   1.097,916   4.932,420   9,437,904     125   Nigeria   5.49   69   3.1706,939   114,306,700   35,523,597     128   North Korea   2.10   106   9,471,100   21,647,682   26,65,688     130   Oman   5.77<83	117	Mozambique	4.62	64	6,250,443	18,124,564	41,842,274
119   Nambia   3.06   70   463,729   1.905,659   1.795,852     120   Nepal   4.10   78   8.989,915   24702,119   53.93874     121   Neckerlands   1.66   100   10.113,527   15.907,853   17,34,090     123   New Zealand   1.79   99   1.908,810   3.819,762   48,42,397     124   Nicaragua   2.75   81   1.097,916   4.932,420   9.437,504     125   Nigera   7.46   69   3.271,073   10.516,111   3.419,502     126   Nigeria   5.49   69   3.271,073   11.4506,700   456,352,597     127   North Kora   2.14   81   6.266   69,706   143,132     129   Norway   1.78   100   3.265,1264   49,200   4,963,459,88   4,953,142     130   Oratisan   2.68   84   89,220,46   4,92,400   4,964,950,104     132   Pausan   2.08   84   1,475,669	118	Myanmar (Burma)	1.98	87	19,488,000	44,301,206	54,430,000
120   Nepid   4.10   78   8,989,915   24,702,119   51,203,874     121   New Calodonia   2.28   85   55,069   201,816   290,682     123   New Calodonia   2.28   85   55,069   201,816   290,682     124   Nicaragua   2.75   81   1.097,916   4932,420   9,437,504     125   Nigeria   5.49   69   3.271,073   10,516,111   34,419,502     126   Northern Mariana Isles   1.24   81   6.286   69,706   143,132     129   Northern Mariana Isles   1.78   180   3,265,126   4,492,400   4,466,353     130   Oran   5.77   83   488,588   2,33,399   8,37,633     131   Paitastan   4.00   84   39,448,232   146,342,398   294,995,104     128   Nortay   3.88   83   1,412,466   4,926,994   10,670,394     137   Papua New Guinea   3.88   84   1,475,669	119	Namibia	3.06	70	463,729	1.905.659	1.795.852
121   New Calcoria   2.28   85   55,069   201.816   200,682     123   New Zealand   1.79   99   1.908,310   3,819,762   44,82,397     124   Nicaragua   2.75   81   1.097,916   4,932,420   9,437,504     125   Niger   7.46   69   3,271,073   10,516,111   34,419,502     126   Nigeria   5.49   69   3,271,073   11,436,700   356,523,597     127   North Kora   2.10   106   9,471,140   21,467,682   26,63,688     128   Norbern Marian Isles   1.24   81   6,286   69,706   143,132     129   Norway   1.78   100   3,265,212   4,892,490   4,86,538   5,338,122     131   Pakistan   4.00   84   3,94,442,322   14,63,42,958   2,94,958,104     132   Panama   2.68   84   892,502   2,889,485   5,339,122     137   Palane New Guinea   3.88   81	120	Nepal	4.10	78	8,989,915	24,702,119	53.293.874
New Caledonia   2.28   85   55,060   201,816   200,827     123   New Zealand   1.79   99   1,908,310   3,819,762   48,42,397     124   Nicaragua   2.75   81   1,097,916   4,932,420   9,437,504     125   Nigeria   5,49   69   31,796,939   114,306,700   35,652,257     127   North Korea   2.10   106   9,471,140   21,447,862   26,63,688     128   Northem Mariana Isles   1.24   81   6,286   69,706   143,132     129   Norway   1.78   100   3,265,126   4,492,490   4,965,385     130   Oman   5.77   83   488,588   2,533,389   8,237,623     141   Papua New Guinea   3.88   83   1,412,466   4,926,944   10,670,394     144   Parguay   3.89   84   1,475,669   5,558,528   14,635,743     155   Peri   2.51   85   7,632,600   2,899,475 <td< td=""><td>121</td><td>Netherlands</td><td>1.66</td><td>100</td><td>10 113 527</td><td>15 907 853</td><td>17 334 090</td></td<>	121	Netherlands	1.66	100	10 113 527	15 907 853	17 334 090
New Zealand   1.79   99   1.908,310   3,819,762   48,42,397     124   Nicaragua   2.75   81   1.097,916   4,932,420   9,437,504     125   Niger   7.46   69   3,271,073   10,516,111   34,419,502     126   Nigeria   5.49   69   3,1796,939   114,306,700   356,522,597     127   North Korea   2.10   106   9,471,140   21,447,682   26,363,688     128   Northern Mariana Isles   1.24   81   6,256   69,706   143,132     129   Nortway   1.78   100   3,265,126   4,492,400   496,6385     130   Danan   5.77   83   488,588   2,533,399   8,237,623     131   Pakistan   4.00   84   89,4252   146,634,2958   2,649,951,01     132   Panama   2.68   84   892,502   2,889,485   5,038,122     133   Panama   2.51   7,8   7,642,500   2,5497,922 <t< td=""><td>121</td><td>New Caledonia</td><td>2.28</td><td>85</td><td>55.069</td><td>201 816</td><td>290.682</td></t<>	121	New Caledonia	2.28	85	55.069	201 816	290.682
Line   Line <thline< th="">   Line   Line   <thl< td=""><td>122</td><td>New Zealand</td><td>1 79</td><td>00</td><td>1 908 310</td><td>3 810 762</td><td>48 42 397</td></thl<></thline<>	122	New Zealand	1 79	00	1 908 310	3 810 762	48 42 397
125Niger1.360.11.05 (1)1.05 (6)1.10, 16, 11134, 419, 902126Nigeria5.496931, 796, 939114, 306, 70035, 652, 357127Norther Marinan Isles1.24816, 28669, 706143, 132128Northern Marinan Isles1.24816, 28669, 706143, 132130Ornan5.7783488, 5882, 53, 8898, 237, 623131Pakistan4, 008439, 448, 332146, 342, 958294, 995, 104132Panama2, 6884892, 5022, 88, 4855038, 122133Papa Nev Guinea3, 88831, 412, 4664, 926, 98410, 670, 394134Panguay3, 89841, 472, 6695, 585, 58214, 635, 743135Peru2, 51857, 632, 5002, 5979, 72238, 300, 067136Philippines3, 11862, 11, 31, 26479, 739, 825147, 603, 822137Poland1, 25992, 424, 2003, 845, 16432, 044, 573138Portugal1, 47958, 442, 7500, 335, 5999, 3770, 496144Romania1, 379416, 311, 00022, 451, 92118, 678, 226146Gaudiar2, 831782, 218, 0003, 815, 9903, 770, 496147Gotar2, 817825, 10174, 4831, 239, 216148Romania1, 3794	123	Nicoragua	2.75	81	1,007,016	4 032 420	9 437 504
Lib   Nigeria   1.40   0.9   3.12.107.00   114.306,700   356,232.597     127   North Korea   2.10   106   9,471,140   21.647.682   26.363,688     128   Norther Mariana Isles   1.24   81   6.286   69,706   143,132     129   Norway   1.78   100   3.265,126   4.492,400   4.966,385     131   Pakistan   4.00   84   39,448,522   146,342,958   29,499,104     129   Panama   2.68   84   892,502   2,889,485   5038,122     133   Paraguay   3.89   84   1,412,466   4,926,904   10,670,334     134   Paraguay   3.89   84   1,412,466   4,926,904   32,046,70     135   Peru   2.51   85   7,632,500   2,5979,722   38,300,067     136   Philippines   3.11   86   21,611,244   79,7398,25   147,630,852     137   Polad   1.25   99   24,824,000 <td< td=""><td>124</td><td>Niger</td><td>2.75</td><td>60</td><td>3 271 073</td><td>4,932,420</td><td>34 410 502</td></td<>	124	Niger	2.75	60	3 271 073	4,932,420	34 410 502
120North Korea2.1910531, 29, 259114, 30, 10021, 547, 58226, 563, 688128Northern Marina Isles1.24816, 22669, 706143, 132129Norway1.781003, 265, 1264, 492, 4004, 966, 385130Oman5, 7783488, 5882, 533, 8988, 233, 8988, 233, 8988, 234, 898131Pakistan4, 008439, 448, 522146, 542, 9585, 938, 122132Panama2, 6884892, 5022, 889, 4855, 038, 122134Paraguay3, 88841, 412, 4664, 926, 98410, 670, 394134Paraguay3, 89841, 412, 4664, 926, 98410, 670, 394135Peru2, 51857, 632, 5002, 597, 97, 2238, 300, 667136Philippines3, 11862, 131, 12, 4479, 739, 825147, 630, 852137Poland1, 259924, 824, 7003, 81, 59093, 770, 496138Portugal1, 47958, 442, 75010, 335, 5979, 933, 334139Puetro Rico1, 75842, 218, 0003, 81, 59093, 770, 496144Romania1, 379416, 511, 0002, 451, 92118, 678, 226147Romania1, 379416, 511, 0002, 451, 92118, 678, 226148Sao, Tome & Pincipe5, 626759, 730159, 88350, 2489 </td <td>125</td> <td>Nigoria</td> <td>5.40</td> <td>60</td> <td>31 706 020</td> <td>114 206 700</td> <td>256 522 507</td>	125	Nigoria	5.40	60	31 706 020	114 206 700	256 522 507
L2   Norther Mariana Isles   L.10   100   9,44,11,40   L1,08,20   L3,050,365     128   Nortway   1.78   100   3,265,126   4,402,400   4,966,385     129   Norway   1.78   100   3,265,126   4,402,400   4,966,385     131   Pakistan   4,00   84   39,448,522   146,342,958   29,499,104     132   Panama   2,68   48   892,502   2,889,485   5,038,122     133   Paraguay   3,89   84   1,475,669   5,585,828   14,657,343     135   Peru   2,51   85   7,632,500   25,979,722   38,300,667     136   Philippines   3,11   86   21,31,264   79,739,25   147,630,822     139   Puerto Rico   1,75   84   22,100   38,65,104   32,084,470     138   Portugal   1,47   95   8,442,750   10,355,997   9,33,334     144   Romania   1,37   94   16,311,000 <td< td=""><td>120</td><td>Nigeria North Koree</td><td>2.10</td><td>106</td><td>0 471 140</td><td>21 647 682</td><td>26 262 699</td></td<>	120	Nigeria North Koree	2.10	106	0 471 140	21 647 682	26 262 699
L28   Norway   1.24   81   0.268   09,000   143,12     29   Norway   1.78   100   3.265,126   4,492,400   4,966,385     130   Oman   5.77   83   488,588   2,533,389   8,237,623     131   Pakistan   4.00   84   39,448,322   146,342,958   29,499,5104     132   Panana   2.68   84   892,502   2,889,485   5,038,122     134   Paraguay   3.89   84   1,472,669   5,585,828   14,657,943     135   Pertu   2.51   85   7,632,500   2,597,9722   38,300,067     138   Potrugal   1.47   95   8,442,750   10,335,599   3,770,496     139   Puetro Rico   1.75   84   2,218,000   3,815,099   3,770,496     144   Romania   1.37   94   16,311,000   2,2451,921   18,678,226     144   Romania   1.37   94   16,311,000   2,451,921   18,	127	Northam Mariana Islas	2.10	21	9,471,140	21,047,082	20,505,088
Lip   Nutway   1.78   100   32,203,120   44,924,400   4,906,253     130   Oman   5.77   83   448,588   2,533,389   82,376,23     131   Pakistan   4.00   84   39,448,232   146,342,958   294,995,104     132   Panama   2.68   48   892,502   2,889,485   5,038,122     133   Parugany   3.89   84   1,475,669   5,585,823   14,65,743     135   Pertu   2.51   85   7,632,500   2,5979,722   38,300,067     136   Philippines   3.11   86   2,1,12,64   79,798,253   147,630,852     137   Poland   1.25   99   2,482,4000   3,815,907   9,933,334     138   Portugal   1.47   95   8,442,700   1,38,597   9,933,334     140   Qatar   2.81   78   2,110,000   2,4483   1,239,216     144   Romania   1.37   94   16,311,000   2,3153,099	120	Normeni Mariana Isles	1.24	81 100	0,200	4 402 400	145,152
1.30   Ofman   5.77   8.3   488,588   2,53,589   8,23,7623     131   Pakistan   4.00   84   39,448,332   146,342,958   29,4995,104     132   Panama   2.68   84   892,502   2,889,485   5,038,122     134   Paraguay   3.89   84   1,412,466   4,926,984   10,670,394     135   Pera   2.51   85   7,632,500   25,979,722   38,300,667     136   Philippines   3.11   86   21,131,264   79,739,825   147,630,852     137   Poland   1.25   99   24,824,700   0,335,597   9,933,334     138   Portugal   1.47   95   8,442,750   10,335,597   9,733,343     139   Puerto Rico   1.75   84   2,218,000   3,815,099   3,770,496     141   Romania   1.37   94   16,311,000   224,483   12,872,829     144   Romania   1.37   94   16,311,000   24,919,211 </td <td>129</td> <td>Norway</td> <td>1.78</td> <td>100</td> <td>5,205,120</td> <td>4,492,400</td> <td>4,900,585</td>	129	Norway	1.78	100	5,205,120	4,492,400	4,900,585
131   Patkstan   4.00   84   39,448,252   140,542,928   294,995,104     132   Panama   2.68   84   892,502   2,889,485   5,038,122     133   Papua New Guinea   3.88   83   1,417,566   5,585,528   1,46,35,743     135   Peru   2.51   85   7,632,500   25,979,722   38,300,067     136   Philippines   3.11   86   21,131,264   7,739,825   147,630,852     137   Poland   1.25   99   2,4824,000   3,855,907   9,933,334     138   Portugal   1.47   95   8,442,750   10,335,507   9,933,334     140   Qatar   2.81   78   2,5101   7,444,483   1,239,216     144   Romania   1.37   94   16,311,000   22,451,921   18,678,226     143   Rwanda   5.43   70   2,439,435   82,78,209   25,089,909     144   Samoa   2.94   88   81,858   179,466	130	Oman	5.77	83	488,588	2,533,389	8,237,623
132 Panama 2.68 84 89/2,002 2.889,485 50.08,122   133 Panguay New Guinea 3.89 84 1,412,666 4,926,6984 10,670,394   134 Paraguay 3.89 84 1,412,666 4,926,6984 10,670,394   135 Peru 2.51 85 7,632,500 25,979,722 38,300,67   136 Philippines 3.11 86 2,1131,264 79,739,825 147,630,852   137 Poland 1.25 99 2,424,000 38,5591 9,33,334   139 Partugal 1.47 95 8,442,750 10,335,597 9,93,334   139 Patrogo 1.75 84 2,118,000 24,451,921 18,678,226   141 Romania 1.37 94 16,311,000 22,451,921 18,678,226   142 Russia 1.28 97 101,936,816 146,709,971 109,187,333   144 Samoa 2.94 88 81,858 179,466 170,739   144 Samoa 2.94 88 81,85	131	Pakistan	4.00	84	39,448,232	146,342,958	294,995,104
133   Papua New Guinea   3.88   83   1,412,466   922,094   10,670,394     134   Paraguay   3.89   84   1,475,669   5,585,528   14,635,743     135   Peru   2.51   85   7,632,500   25,979,722   38,300,067     136   Philippines   3.11   86   21,131,264   79,739,825   147,630,852     137   Poland   1.25   99   24,824,000   38,654,164   32,084,570     138   Portugal   1.47   95   8,442,750   10,335,597   9,933,334     139   Puerto Rico   1.75   84   2,218,000   3,815,909   3,770,496     140   Qatar   2.81   78   25,101   74,44,83   1,239,216     144   Romania   1.37   94   16,311,000   22,451,921   18,678,226     142   Russia   1.28   97   10,1936,813   179,466   170,739     143   Romania   5.42   67   59,730   159,883	132	Panama	2.68	84	892,502	2,889,485	5,038,122
134   Paraguay   3.89   84   1,475,609   5,585,828   14,635,743     135   Peru   2.51   85   7,632,500   25,979,722   38,300,067     136   Philippines   3.11   86   21,131,264   79,739,825   147,630,852     137   Poland   1.25   99   24,824,000   38,654,164   32,084,570     138   Portugal   1.47   95   8,442,750   10,335,597   9,933,334     139   Puerto Rico   1.75   84   2,216,000   3,815,909   3,770,496     144   Romania   1.37   94   16,311,000   22,451,921   18,678,226     144   Rusaia   1.28   97   10,336,816   146,709,971   109,187,353     144   Sarnoa   2.94   88   81,828   179,466   170,739     144   Sarnoa   2.94   88   81,858   179,466   170,739     145   Sarota   5.62   67   59,730   158,863 <td< td=""><td>133</td><td>Papua New Guinea</td><td>3.88</td><td>83</td><td>1,412,466</td><td>4,926,984</td><td>10,670,394</td></td<>	133	Papua New Guinea	3.88	83	1,412,466	4,926,984	10,670,394
135 Peru 2.51 85 7,632,500 25,979,722 338,300,667   136 Philippines 3.11 86 21,131,264 79,739,825 147,630,882   137 Poland 1.25 99 24,824,000 38,654,164 32,084,570   138 Portugal 1.47 95 8,442,750 3,315,909 3,770,496   140 Qatar 2.81 78 25,101 744,483 1,239,216   144 Russia 1.28 97 101,936,816 146,709,971 109,187,353   143 Rwanda 5.43 70 2,439,435 8,278,209 25,089,009   144 Samoa 2.94 88 81,858 179,466 170,739   145 Sao Tome & Principe 5.62 67 59,730 159,883 502,489   146 Saudi Arabia 4.00 84 3,859,801 23,153,090 49,706,851   147 Senegal 4.38 66 2,055,657 10,032,013 27,519,852   148 Serbia 1.74 86 32,003 </td <td>134</td> <td>Paraguay</td> <td>3.89</td> <td>84</td> <td>1,475,669</td> <td>5,585,828</td> <td>14,635,743</td>	134	Paraguay	3.89	84	1,475,669	5,585,828	14,635,743
136   Philippines   3.11   86   21,13,1264   79,739,825   147,630,852     137   Poland   1.25   99   24,824,000   38,654,164   32,084,570     138   Portugal   1.47   95   8,442,750   10,335,597   9,933,334     139   Puetro Rico   1.75   84   2,218,000   3,815,009   3,770,496     141   Romania   1.37   94   16,311,000   22,451,921   18,678,226     142   Russia   1.28   97   101,936,816   146,709,971   109,187,353     144   Samoa   2.94   88   81,858   179,466   170,739     144   Samoa   2.94   88   81,858   129,883   502,489     144   Samoa   2.94   88   81,858   139,803   25,108,900     144   Samoa   2.94   88   81,858   10,332,013   27,519,852     147   Senegal   4.38   66   2,623,637   10,332,013   27,	135	Peru	2.51	85	7,632,500	25,979,722	38,300,067
137   Poland   1.25   99   24,824,000   38,654,164   32,084,570     138   Portugal   1.47   95   8,442,750   10,335,597   99,333,334     139   Puerto Rico   1.75   84   2,218,000   3,815,909   3,770,496     140   Qatar   2.81   78   25,101   744,483   1,239,216     141   Romania   1.37   94   16,311,000   22,451,921   18,678,226     142   Russia   1.28   97   101,936,816   146,709,971   109,187,353     143   Rwanda   5.43   70   2,439,435   8,278,209   25,089,909     144   Samoa   2.94   88   81,858   179,466   170,739     145   Sao Tome & Principe   5.62   67   59,730   159,883   502,489     146   Saudi Arabia   4.00   84   3,859,801   23,153,090   42,767     147   Senegal   1.78   89   6,710,261   10,117,908	136	Philippines	3.11	86	21,131,264	79,739,825	147,630,852
138   Portugal   1.47   95   8,442,750   10,335,597   9,933,334     139   Pueto Rico   1.75   84   2,218,000   3,815,909   3,770,496     140   Qatar   2.81   78   25,101   744,483   1,239,216     141   Romania   1.37   94   16,311,000   22,451,921   18,678,226     143   Rwanda   5,43   70   2,439,435   8,278,209   25,089,909     144   Samoa   2.94   88   81,858   179,466   170,739     145   Sao Tome & Principe   5.62   67   59,730   159,883   502,489     146   Saudi Arabia   4.00   84   3,859,801   23,153,090   49,706,851     147   Senegal   4.38   66   2,653,637   10,332,013   27,519,852     148   Seychelles   1.74   86   32,903   79,326   89,713     150   Sierra Leone   6.08   6.42,987,055   4,808,817   13,998,936 <td>137</td> <td>Poland</td> <td>1.25</td> <td>99</td> <td>24,824,000</td> <td>38,654,164</td> <td>32,084,570</td>	137	Poland	1.25	99	24,824,000	38,654,164	32,084,570
139   Puerto Rico   1.75   84   2,218,000   3,815,009   3,770,496     140   Qatar   2,81   78   25,101   744,483   1,239,216     141   Romania   1,37   94   16,311,000   22,451,921   18,678,226     142   Russia   1,28   97   101,936,816   146,709,971   109,187,353     143   Rwanda   2,94   88   81,858   179,466   170,739     144   Samoa   2,94   88   81,858   179,466   170,739     145   Sao Tome & Principe   5,62   67   59,730   159,883   502,489     146   Saudi Arabia   4,00   84   3,859,801   23,153,090   49,766,851     147   Seenegal   4,38   66   2,653,637   10,32,013   27,159,852     148   Serbia   1,74   86   3,203   79,326   89,713     150   Sierra Leone   6.08   64   2,087,055   4,808,817   13,99	138	Portugal	1.47	95	8,442,750	10,335,597	9,933,334
140 Qatar 2.81 78 25,101 744,483 1,239,216   141 Romania 1.37 94 16,311,000 22,451,921 18,678,226   142 Russia 1.28 97 101,936,816 146,709,971 109,187,353   143 Samoa 2.94 88 81,858 179,466 170,739   144 Samoa 2.94 88 81,858 179,466 170,739   144 Samoa 2.94 88 81,858 179,466 170,739   144 Samoa 4.00 84 3,859,801 23,153,090 49,706,851   147 Senegal 4.38 66 2.63,637 10,332,013 27,519,852   148 Serbia 1.74 86 32,903 79,326 89,713   150 Sierra Leone 6.08 64 2.087,055 4,808,817 13,998,936   151 Singapore 1.06 108 1,022,100 4,036,753 4,635,110   152 Slovakia 1.33 96 3,463,446 5,400,320	139	Puerto Rico	1.75	84	2,218,000	3,815,909	3,770,496
141   Romania   1.37   94   16,311,000   22,451,921   18,678,226     142   Russia   1.28   97   101,936,816   146,709,971   109,187,353     143   Rwanda   5.43   70   2,494,455   82,78,209   25,089,909     144   Samoa   2.94   88   81,858   179,466   170,739     145   Sao Tome & Principe   5.62   67   59,730   159,883   502,489     144   Sanoa   4.00   84   3,859,801   23,153,090   49,706,851     147   Senegal   4.38   66   2,653,637   10,332,013   27,519,852     148   Serbia   1.74   86   32,003   79,326   89,713     150   Signapore   1.06   108   1,022,100   4,036,753   4,635,110     151   Singapore   1.06   108   1,427,792   2,010,057   1,596,947     154   Solomon Islands   3.91   84   106,647   466,194	140	Qatar	2.81	78	25,101	744,483	1,239,216
142 Russia 1.28 97 101,936,816 146,709,971 109,187,353   143 Rwanda 5.43 70 2,439,435 8,78,209 25,089,909   144 Samoa 2.94 88 81,858 179,466 170,739   145 Sao Tome & Principe 5.62 67 59,730 159,883 502,489   146 Saudi Arabia 4.00 84 3,859,801 2,153,090 49,706,851   147 Senegal 4.38 66 2,653,637 10,332,013 27,519,852   148 Serbia 1.74 86 32,903 79,326 89,713   150 Sierra Leone 6.08 64 2,087,055 4,808,817 13,998,936   151 Singapore 1.06 108 1,022,100 4,036,753 4,635,110   152 Slovakia 1.33 96 3,463,446 5,400,320 4,943,616   153 Slovenia 1.25 96 1,467,759 2,010,057 1,596,947   154 Solomon Islands 3.91 84 106,	141	Romania	1.37	94	16,311,000	22,451,921	18,678,226
143Rwanda5.43702.439,4358.278,20925,089,909144Samoa2.948881,558179,466170,739145Sao Tome & Principe5.626759,730159,883502,489146Saudi Arabia4.00843,859,80123,153,09049,706,851147Senegal4.38662,653,63710,332,01327,519,852148Serbia1.78896,710,26110,117,9089,274,767149Seychelles1.74863,290379,32689,713150Sierra Leone6.08642,087,0554,808,81713,998,936151Singapore1.061081,022,1004,936,7534,635,110152Slovakia1.33963,463,4465,400,3204,943,616153Slovenia1.25961,467,7592,010,0571,596,947154Solomon Islands3,9184106,647466,19733,002,952155Somalia6.76682,437,9327,253,13725,128,735156South Africa2.207213,595,84044,066,19733,002,952157South Korea1.2710620,845,77147,351,08345,224,224158Spia1.289828,062,96340,016,8135,642,93159Sri Lanka1.84797,533,09719,435,86924,920,558160St Kitts & Nevis2.31	142	Russia	1.28	97	101,936,816	146,709,971	109,187,353
144 Samoa 2.94 88 81,858 179,466 170,739   145 Sao Tome & Principe 5.62 67 59,730 159,883 502,489   146 Saudi Arabia 4.00 84 3,859,801 23,153,000 49,706,851   147 Senegal 4.38 66 2,653,637 10,332,013 27,519,852   148 Serbia 1.78 89 6,710,261 10,117,908 9,274,767   149 Seychelles 1.74 86 32,903 79,326 89,713   150 Sierra Leone 6.08 64 2,087,055 4,808,817 13,998,936   151 Singapore 1.06 108 1,022,100 4,03,753 4,635,110   152 Slovakia 1.23 96 1,467,759 2,010,057 1,596,947   154 Solomon Islands 3.91 84 106,647 466,194 1,110,514   155 Somalia 6.76 68 2,437,932 7,253,137 25,128,735   156 South Korea 1.27 106 2,0	143	Rwanda	5.43	70	2,439,435	8,278,209	25,089,909
145Sao Tome & Principe5.626759,730159,883502,489146Saudi Arabia4.00843,859,80123,153,09049,706,851147Senegal4.38662,653,63710,332,01327,519,852148Serbia1.78896,710,26110,117,9089,274,767149Seychelles1.748632,90379,32689,713150Sierra Leone6.08642,087,0554,808,81713,998,936151Singapore1.061081,022,1004,03,67,534,635,110152Slovakia1.33963,463,4465,400,3204,943,616153Slovenia1.25961,467,7592,010,0571,596,947154Solomon Islands3.9184106,647466,1941,110,514155South Africa2.207213,595,84044,066,19733,002,952156South Africa2.207213,595,84044,066,19733,002,952157South Korea1.2710620,845,77147,351,08345,224,224158Spain1.289828,062,9634,016,08135,564,293159Sri Lanka1.84797,533,09719,435,8692,492,0558160St Kitts & Nevis2.316744,34138,81952,348161St Lucia2.3289208,068432,485617,249163Sudan4.	144	Samoa	2.94	88	81,858	179,466	170,739
146Saudi Arabia4.00843,859,80123,153,09049,706,851147Senegal4.38662,653,63710,332,01327,519,852148Serbia1.78896,710,26110,117,9089,274,767149Seychelles1.748632,90379,32689,713150Sierra Leone6.08642,087,0554,808,81713,998,936151Singapore1.061081,022,1004,036,7534,635,110152Slovakia1.25963,463,4465,400,3204,943,616153Slovenia1.25961,467,7592,010,0571,596,947154Solomon Islands3.9184106,647466,1941,110,514155Somalia6.76682,437,9327,253,13725,128,735156South Africa2.207213,595,84044,066,19733,002,952157South Korea1.2710620,845,77147,351,08345,224,224158Spain1.289828,062,96340,016,08135,564,293159Sri Lanka1.84797,533,09719,435,86924,920,558160St Kitts & Nevis2.316744,34138,81952,348161St Lucia2.186279,050156,260235,420162St Vincent1.837166,452115,46192,335163Sudan4.7271	145	Sao Tome & Principe	5.62	67	59,730	159,883	502,489
147Senegal4.38662.653,63710,332,01327,519,852148Serbia1.78896,710,26110,117,9089,274,767149Seychelles1.748632,90379,32689,713150Sierra Leone6.08642,087,0554,808,81713,998,936151Singapore1.061081,022,1004,036,7534,635,110152Slovakia1.33963,463,4465,400,3204,943,616153Slovenia1.25961,467,7592,010,0571,596,947154Solomon Islands3.9184106,647466,1941,110,514155Somalia6.76682,437,9327,253,13725,128,735156South Africa2.207213,595,84044,066,19733,002,952157South Korea1.2710620,845,77147,351,08345,224,224158Spain1.289828,062,96340,016,08135,564,293159Sri Lanka1.84797,533,09719,435,86924,920,558160St Kitts & Nevis2.31674,34138,81952,348161St Lucia2.186279,050156,260235,420164Suriname2.3289208,068432,485617,249164Suriname3.5368277,3841,109,750720,603164Swaziland3.5368277	146	Saudi Arabia	4.00	84	3,859,801	23,153,090	49,706,851
148Serbia1.78896,710,26110,117,9089,274,767149Seychelles1.748632,90379,32689,713150Sierra Leone6.08642,07,0554,808,81713,998,936151Singapore1.061081,022,1004,036,7534,635,110152Slovakia1.33963,463,4465,400,3204,943,616153Slovenia1.25961,467,7592,010,0571,596,947154Solomon Islands3.9184106,647466,1941,110,514155Somalia6.76682,437,9327,253,13725,128,735156South Africa2.207213,595,84044,066,19733,002,952157South Korea1.2710620,845,77147,351,08345,224,224158Spain1.289828,062,96340,016,08135,564,293159Sri Lanka1.84797,533,09719,435,86924,920,558160St Kitts & Nevis2.316744,34138,81952,348161St Lucia2.186279,050156,260235,420162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,384	147	Senegal	4.38	66	2.653.637	10.332.013	27.519.852
149Seychelles1.748632,90379,32689,713150Sierra Leone6.08642,087,0554,808,81713,998,936151Singapore1.061081,022,1004,036,7534,635,110152Slovakia1.33963,463,4465,400,3204,943,616153Slovenia1.25961,467,7592,010,0571,596,947154Solomon Islands3.9184106,647466,1941,110,514155South Africa2.207213,595,84044,066,19733,002,952156South Korea1.2710620,845,77147,351,08345,224,224158Spain1.289828,062,96340,016,08135,564,293159Sri Lanka1.84797,53,309719,435,86924,920,558160St Kitts & Nevis2.316744,34138,81952,348161St Lucia2.186279,050156,260235,420162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0	148	Serbia	1.78	89	6.710.261	10.117.908	9.274.767
Sierra Leone   6.08   64   2,087,055   4,808,817   13,998,936     151   Singapore   1.06   108   1,022,100   4,036,753   4,635,110     152   Slovakia   1.33   96   3,463,446   5,400,320   4,943,616     153   Slovenia   1.25   96   1,467,759   2,010,057   1,596,947     154   Solomon Islands   3.91   84   106,647   466,194   1,110,514     155   Somalia   6.76   68   2,437,932   7,253,137   25,128,735     156   South Africa   2.20   72   13,595,840   44,066,197   33,002,952     157   South Korea   1.27   106   20,845,771   47,351,083   45,224,224     158   Spain   1.28   98   28,062,963   40,016,081   35,564,293     159   Sri Lanka   1.84   79   7,533,097   19,435,869   24,920,558     160   St Kitts & Nevis   2.31   67   44,341   38,819	149	Sevchelles	1.74	86	32.903	79.326	89.713
Singapore   1.06   108   1,02,100   4,03,713   1,07,057     151   Singapore   1.06   108   1,022,100   4,03,713   4,633,110     152   Slovakia   1.33   96   3,463,446   5,400,320   4,943,616     153   Slovenia   1.25   96   1,467,759   2,010,057   1,596,947     154   Solomon Islands   3.91   84   106,647   466,194   1,110,514     155   Somalia   6.76   68   2,437,932   7,253,137   25,128,735     156   South Korea   1.27   106   20,845,771   47,351,083   45,224,224     158   Spain   1.28   98   28,062,963   40,016,081   35,564,293     159   Sri Lanka   1.84   79   7,533,097   19,435,869   24,920,558     160   St Kitts & Nevis   2.31   67   44,341   38,819   52,342     161   St Lucia   2.18   62   79,050   156,260   235,	150	Sierra Leone	6.08	64	2.087.055	4 808 817	13 998 936
Slovakia 1.33 96 3,463,446 5,400,320 4,943,616   153 Slovakia 1.25 96 1,467,759 2,010,057 1,596,947   154 Solomon Islands 3.91 84 106,647 466,194 1,110,514   155 Somalia 6.76 68 2,437,932 7,253,137 25,128,735   156 South Africa 2.20 72 13,595,840 44,066,197 33,002,952   157 South Korea 1.27 106 20,845,771 47,351,083 45,224,224   158 Spain 1.28 98 28,062,963 40,016,081 35,564,293   159 Sri Lanka 1.84 79 7,533,097 19,435,869 24,920,558   160 St Kits & Nevis 2.31 67 44,341 38,819 52,342   161 St Lucia 2.18 62 79,050 156,260 235,420   162 St Vincent 1.83 71 66,452 115,461 92,335   163 Sudan 4.72 71 8,051,151 3	151	Singapore	1.06	108	1 022 100	4 036 753	4 635 110
123Slovenia1.25961,467,7592,010,0571,596,947154Solomon Islands3.9184106,647466,1941,110,514155Somalia6.76682,437,9327,253,13725,128,735156South Africa2.207213,595,84044,066,19733,002,952157South Korea1.2710620,845,77147,351,08345,224,224158Spain1.289828,062,96340,016,08135,564,293159Sri Lanka1.84797,533,09719,435,86924,920,558160St Kitts & Nevis2.316744,34138,81952,348161St Lucia2.186279,050156,260235,420162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Syria3.40833,495,00016,305,6593,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,123,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,04	152	Slovakia	1 33	96	3 463 446	5 400 320	4 943 616
154Solomon Islands3.9184106,647466,1971,0507155Somalia6.76682,437,9327,253,13725,128,735156South Africa2.207213,595,84044,066,19733,002,952157South Korea1.2710620,845,77147,351,08345,224,224158Spain1.289828,062,96340,016,08135,564,293159Sri Lanka1.84797,533,09719,435,86924,920,558160St Kitts & Nevis2.316744,34138,81952,348161St Lucia2.186279,050156,260235,420162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,9	153	Slovenia	1.35	96	1 467 759	2 010 057	1 596 947
1545000000000000000000000000000000000000	154	Solomon Islands	3.01	84	106 647	466 194	1,110,514
155South Africa2.207213,595,84044,066,19733,002,952157South Korea1.2710620,845,77147,351,08345,224,224158Spain1.289828,062,96340,016,08135,564,293159Sri Lanka1.84797,533,09719,435,86924,920,558160St Kitts & Nevis2.316744,34138,81952,348161St Lucia2.186279,050156,260235,420162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387 <td< td=""><td>155</td><td>Somalia</td><td>6.76</td><td>68</td><td>2 437 032</td><td>7 253 137</td><td>25 128 735</td></td<>	155	Somalia	6.76	68	2 437 032	7 253 137	25 128 735
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157South Kotea1.2710020,043,77147,531,08343,224,224158Spain1.289828,062,96340,016,08135,564,293159Sri Lanka1.84797,533,09719,435,86924,920,558160St Kitts & Nevis2.316744,34138,81952,348161St Lucia2.186279,050156,260235,420162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	150	South Korea	1.27	106	20 845 771	47,000,197	45 224 224
138Spain1.289828,002,90340,010,08133,04,293159Sri Lanka1.84797,533,09719,435,86924,920,558160St Kitts & Nevis2.316744,34138,81952,348161St Lucia2.186279,050156,260235,420162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	159	South Kolea	1.27	100	20,643,771	47,551,085	45,224,224
159Sri Lanka1.84797,535,09719,455,86924,20,58160St Kitts & Nevis2.316744,34138,81952,348161St Lucia2.186279,050156,260235,420162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	150	Spain Sui Loules	1.20	98	28,002,905	40,010,081	33,304,293
160St Klus & Nevis2.316744,34138,81952,348161St Lucia2.186279,050156,260235,420162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	159	Sri Lanka	1.84	/9	/,535,09/	19,435,809	24,920,558
161St Lucia2.186279,050156,260255,420162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	160	St Kitts & Nevis	2.31	67	44,341	38,819	52,548
162St Vincent1.837166,452115,46192,335163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	161	St Lucia	2.18	62	79,050	156,260	235,420
163Sudan4.72718,051,15135,079,81484,192,309164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	162	St Vincent	1.83	71	66,452	115,461	92,335
164Suriname2.3289208,068432,485617,249165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	163	Sudan	4.72	71	8,051,151	35,079,814	84,192,309
165Swaziland3.5368277,3841,109,750720,603166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	164	Suriname	2.32	89	208,068	432,485	617,249
166Sweden1.66997,014,0058,923,5699,084,788167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	165	Swaziland	3.53	68	277,384	1,109,750	720,603
167Switzerland1.431014,694,0007,266,9207,296,092168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	166	Sweden	1.66	99	7,014,005	8,923,569	9,084,788
168Syria3.40833,495,00016,305,65934,437,235169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	167	Switzerland	1.43	101	4,694,000	7,266,920	7,296,092
169Taiwan1.571057,981,45422,151,23723,203,650170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	168	Syria	3.40	83	3,495,000	16,305,659	34,437,235
170Tajikistan4.00871,530,0476,229,69712,132,365171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	169	Taiwan	1.57	105	7,981,454	22,151,237	23,203,650
171Tanzania4.97727,934,92433,065,14271,949,135172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	170	Tajikistan	4.00	87	1,530,047	6,229,697	12,132,365
172Thailand1.649120,041,62861,862,92869,268,817173Timor-Leste3.5387435,529846,5991,942,734	171	Tanzania	4.97	72	7,934,924	33,065,142	71,949,135
173Timor-Leste3.5387435,529846,5991,942,734	172	Thailand	1.64	91	20,041,628	61,862,928	69,268,817
	173	Timor-Leste	3.53	87	435,529	846,599	1,942,734

(continued on next page)

#### Appendix (continued)

	Country	Fertility rates	IQ	Population 1950	Population 2000	Population 2050
174	Togo	4.96	70	1,171,897	4,711,655	14,714,623
175	Tonga	3.00	86	45,744	102,321	188,340
176	Trinidad & Tobago	1.74	85	632,000	1,118,204	622,011
177	Tunisia	1.74	83	3,517,210	9,563,816	12,462,798
178	Turkey	1.92	90	21,121,639	65,666,677	86,473,786
179	Turkmenistan	3.37	87	1,204,075	4,518,268	9,626,193
180	Uganda	6.71	73	5,521,758	23,955,822	128,007,514
181	Ukraine	1.17	97	36,774,854	49,005,222	33,573,842
182	United Arab Emirates	2.88	84	71,250	2,369,153	3,696,962
183	United Kingdom	1.66	100	50,127,000	59,522,468	63,977,435
184	United States	2.09	98	152,271,000	282,338,631	420,080,587
185	Uruguay	1.89	96	2,194,275	3,323,876	3,728,264
186	Uzbekistan	2.91	87	6,250,443	24,755,519	48,597,111
187	Vanuatu	2.70	84	52,000	189,618	310,486
188	Venezuela	2.23	84	5,009,006	23,542,649	37,106,394
189	Vietnam	1.91	94	25,348,144	79,060,410	107,772,641
190	Yemen	6.58	85	4,777,089	17,479,206	71,119,251
191	Zambia	5.39	71	2,553,000	10,205,262	18,435,053
192	Zimbabwe	3.13	66	2,853,151	11,751,323	12,221,257

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