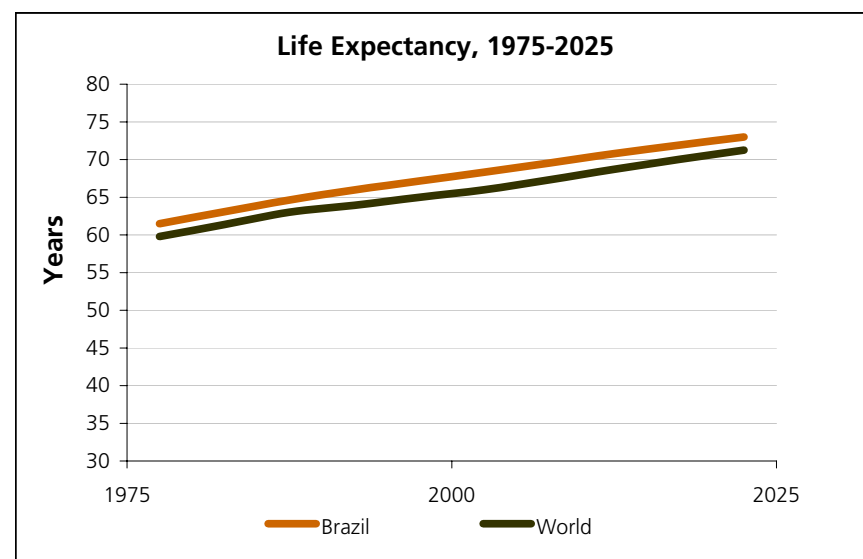
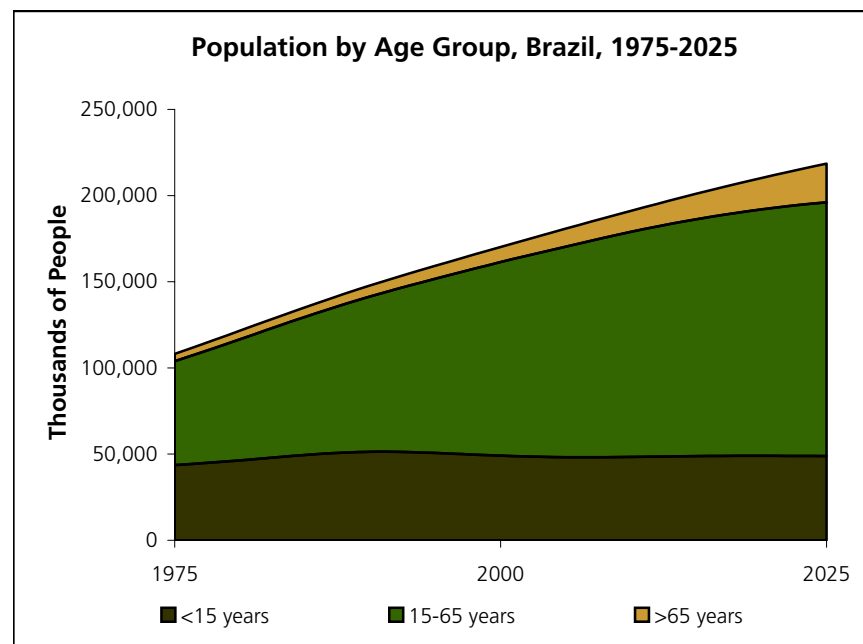
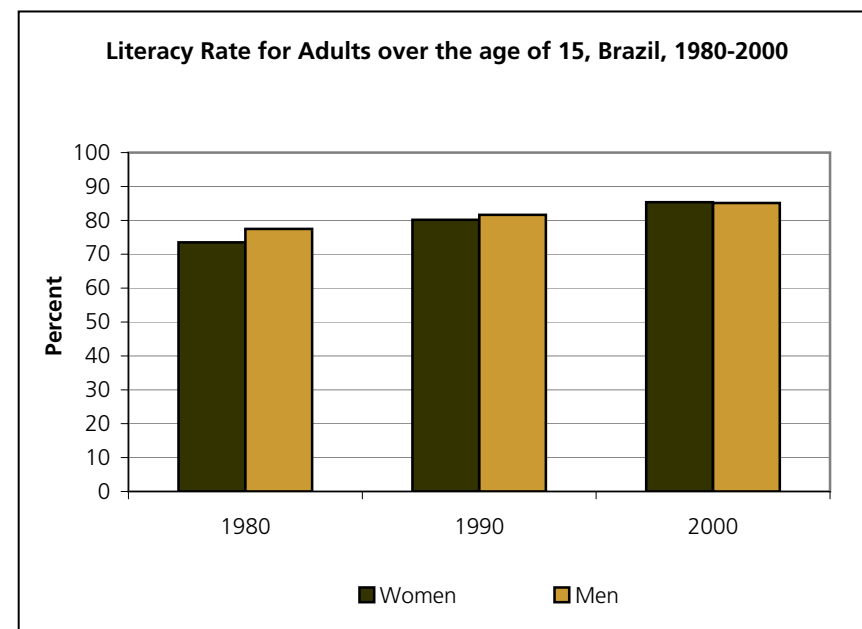


Demographic and Health Indicators	Brazil	South America	World
Total Population (in thousands of people)			
1950	53,975	112,995	2,519,495
2002	174,706	355,695	6,211,082
2025 (projected)	218,980	460,770	7,936,741
Population Density (people per square km), 2000:	19.9	19.4	45.1
Average Annual Population Growth Rate, 1980-2000			
Total	1.7%	1.8%	1.6%
In rural areas	-1.3%	-0.5%	0.9%
In urban areas	2.7%	2.6%	2.4%
Percentage of Population:			
Under age 15, 2002	28%	30%	29%
Over age 65, 2002	5%	6%	7%
Living in Urban Areas, 2000	81%	80%	47%
Average Total Fertility Rate {a}			
1975-1980	4.3	4.3	3.9
2000-2005	2.2	2.4	2.7
Infant Mortality Rate {b}, 2000-2005	38	33	55
Under-Five Mortality Rate {b}, 2000	38	37	83
Life Expectancy at birth (years), 2000-05			
Female	72.6	74.0	68.1
Male	64.7	67.1	63.9
Births Attended by Trained Personnel, 1994-2000 {c}	92%	84%	57%
Adults and Children Infected with HIV/AIDS, 2001 (number)	610,000	1,005,600	40,000,000
Percent of Adults Ages 15-49 infected with HIV or AIDS, 2001	0.7%	0.6%	1.2%
Number of Children Orphaned by AIDS since the beginning of epidemic, 2001	130,000	580,000	14,000,000
<b>Safe Water and Sanitation {c}</b>			
Access to Improved Sanitation, 2000			
Urban	84%	86%	85%
Rural	43%	51%	40%



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	Brazil	South America	World
<b>Safe Water and Sanitation {c}</b>			
Access to an Improved Water Source, 2000			
Urban	95%	94%	95%
Rural	53%	59%	71%
<b>School Enrollment and Literacy {c}</b>			
Net Primary School Enrollment, both sexes			
1980	X	X	X
1997-1999 {c}	98%	X	X
Net Secondary School Enrollment, 1997-1999 {c}			
Female	67%	X	X
Male	65%	X	X
Gross Tertiary School Enrollment, 1996-99 {c}	14%	X	X
Adult Literacy Rate, 2002			
Female	88%	89%	75%
Male	88%	90%	86%
Youth Literacy Rate (ages 15-24), both sexes			
1980	87%	90%	80%
2002	93%	95%	87%



**Other Resources:**

Country Profiles of the Food and Agriculture Organization of the United Nations, Economic Situation:

<http://www.fao.org/countryprofiles/index.asp?subj=3&iso3=BRA>

**Footnotes:**

- a. Total fertility rate is an estimate of the number of children an average woman would have if current age-specific fertility rates remain constant during her reproductive years.
- b. In deaths per 1,000 live births. Infant mortality rate refers to children under one year of age.
- c. Data are for the most recent year within the range specified.

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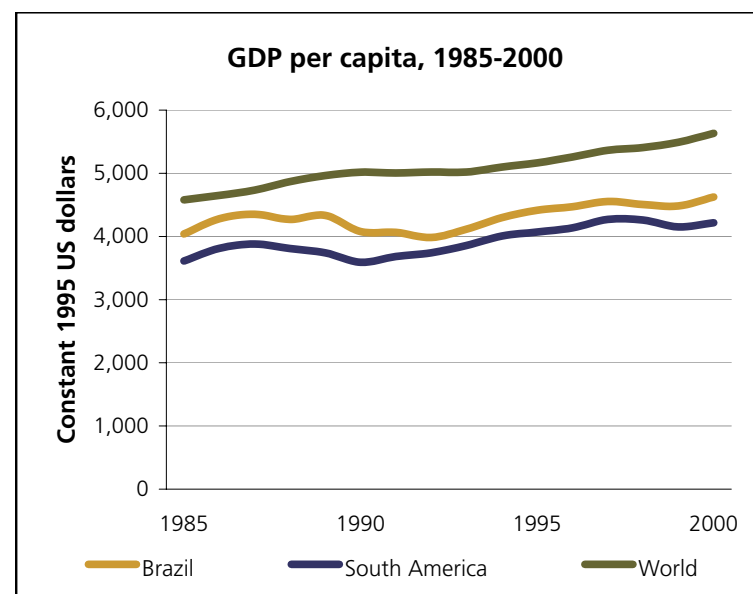
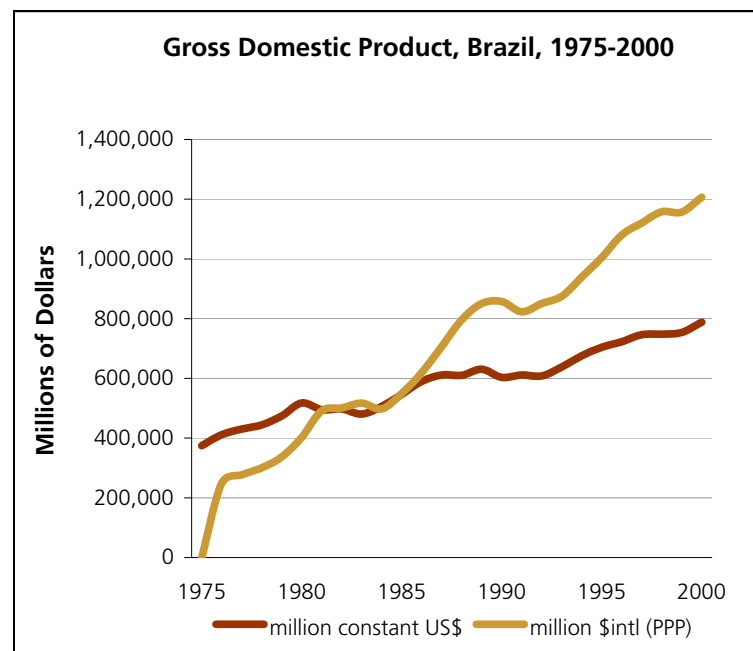
	Brazil	South America	World
<b>Gross Domestic Product, 2000</b>			
GDP in million constant 1995 US dollars	788,025	1,457,476	34,109,900
GDP PPP (million current international dollars) {a}	1,299,353	2,548,170	44,913,910
Gross National Income (PPP, in million current international dollars), 2000 {a}	1,243,299	2,457,387	44,458,520
GDP per capita, 2000			
in 1995 US dollars	4,624	4,218	5,632
in current international dollars	7,625	7,374	7,416
Average annual growth in GDP, 1991-2000			
Total	3%	3%	3%
Per capita	1%	2%	1%
Percent of GDP earned by:			
Agriculture, 2000	7%	8%	X
Industry, 2000	29%	29%	X
Services, 2000	64%	63%	X

## International Trade

	Brazil	South America	World
Trade in Goods and Services (million current \$US)			
Imports, 2000	73,738	108,059	X
Exports, 2000	64,160	113,669	X
Exports as a percent of GDP, 2000	11%	15%	X
Balance of Trade, 2000 (million current \$US)	-7,486	5,934	X

## Official Development Assistance (ODA ) and Financial Flows

	Brazil	South America	World
ODA in million US dollars, 1998-2000 {b}	281	2,234	59,073
ODA per capita in US dollars, 1998-2000 {b}	2	13	10
Current Account Balance (million \$US), 2000	-24,632	X	X
Total external debt, million \$US, 1998-2000 {b}	240,871	319,079	X
Debt service as a % of export earnings, 1995-97 {b}	45.5%	X	X
Foreign Direct Investment, net inflows (million current \$US), 2000	32,779	57,529	X
International Tourism Receipts, 1995-1997 (million \$US)	2,389	X	X



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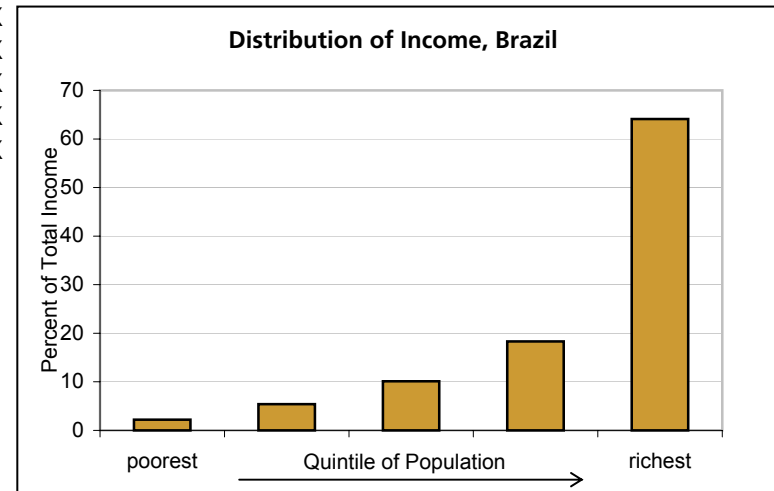
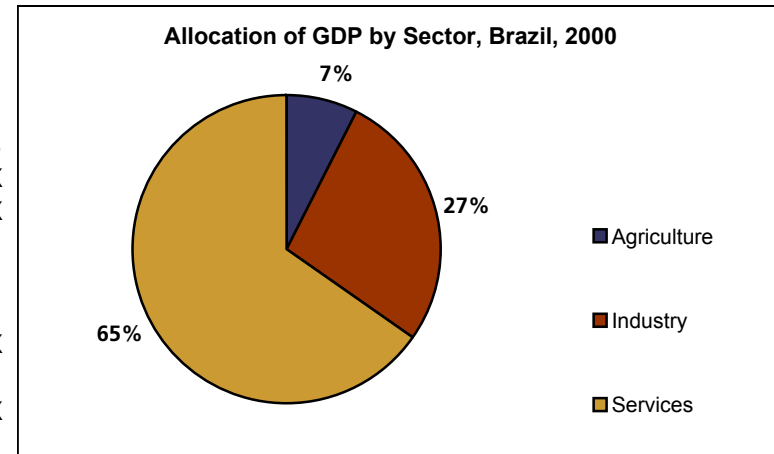
## Economic Indicators -- Brazil

	Brazil	South America	World
<b>National Savings (as a percent of Gross National Income)</b>			
Gross National Savings, 2000	16%	17%	23%
Net National Savings, 2000	5%	6%	X
Adjusted Net Savings, 2000	6%	4%	X
<b>Income Distribution (years vary)</b>			
Gini coefficient (0=perfect equality; 100=perfect inequality)	61	X	X
Percent of total income earned by the richest 20% of the population:	64.1%	X	X
Percent of total income earned by the poorest 20% of the population:	2.2%	X	X
National Poverty Rate	17.4%	X	X
Poverty Rate, Urban Population	13.1%	X	X
Percent of population living on less than \$1 a day	11.6%	X	X
Percent of population living on less than \$2 a day	26.5%	X	X

### Other Resources:

Country Profiles of the Food and Agriculture Organization of the United Nations, Economic Situation:

<http://www.fao.org/fi/fcp/en/BRA/profile.htm>



a. Data are in international dollars, adjusted for purchasing power parity (PPP). PPP rates provide a standard measure allowing comparison of real price levels between countries. b. Data are averaged for the range of years listed.

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Carbon Dioxide (CO <sub>2</sub> ) Emissions {a} (in thousand metric tons of CO <sub>2</sub> )	Brazil	South America	World
Total Emissions, 1998	299,556	801,222	24,215,376
Percent change since 1990	48%	40%	8%
Emissions as a percent of global CO <sub>2</sub> production	1.2%	3.3%	
Emissions in 1998 from:			
solid fuels	46,676	83,092	8,654,368
liquid fuels	214,776	485,249	10,160,272
gaseous fuels	12,373	174,278	4,470,080
gas flaring	4,304	18,431	172,208
cement manufacturing	21,427	40,172	758,448

Per capita CO <sub>2</sub> emissions, 1998 (thousand metric tons of CO <sub>2</sub> )	1.8	2.4	4.1
Percent change since 1990	33%	23%	-2%
CO <sub>2</sub> emissions (in metric tons) per million dollars Gross Domestic Product {b}, 1998	401	X	773
Percent change since 1990	19%	X	-10%
Cumulative CO <sub>2</sub> emissions, 1900-1999 (in billion metric tons)	7,212	21,230	933,686

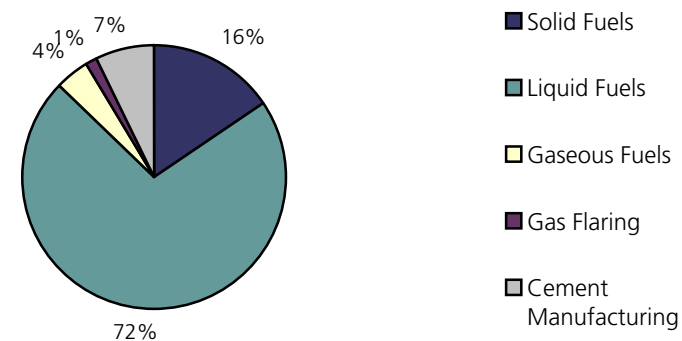
### CO<sub>2</sub> Emissions by Sector, 1999 {c} (in million metric tons of CO<sub>2</sub>)

Public electricity, heat production, and autoproducers	27	106	8,693
Other Energy Industries	19	79	1,205
Manufacturing Industries and Construction	87	183	4,337
Transportation	123	258	5,505
Residential	17	52	1,802
Other Sectors {d}	27	64	5,640
<b>Total Emissions All Sectors:</b>	<b>300</b>	<b>742</b>	<b>27,180</b>

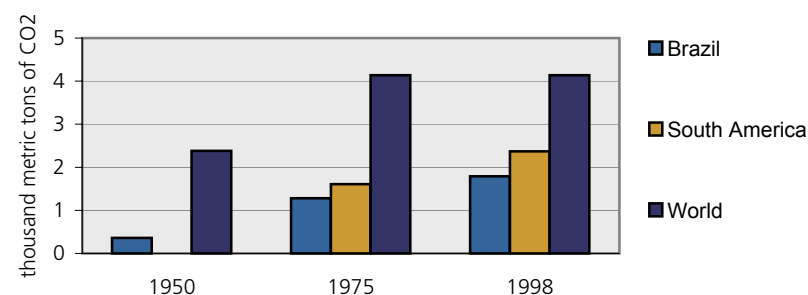
### CO<sub>2</sub> Intensity, 1999

Emissions per total energy consumption (metric tons CO <sub>2</sub> per terajoule energy)	41	46	56
Emissions per Gross Domestic Product {e} (metric tons of CO <sub>2</sub> /million \$PPP)	271	330	582

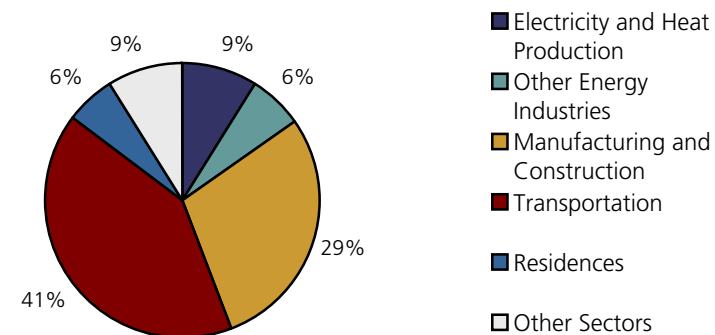
CO<sub>2</sub> Emissions by Source, Brazil, 1998



Per Capita CO<sub>2</sub> Emissions: 1950, 1975 and 1998



CO<sub>2</sub> Emissions by Sector, Brazil, 1999



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## Atmosphere and Climate-- Brazil

	Brazil	South America	World
<b>Non-CO2 Air Pollution, thousand metric tons</b>			
Sulfur dioxide emissions, 1995	2,050	7,062	141,875
Nitrogen oxide emissions, 1995	3,870	6,722	99,271
Carbon monoxide emissions, 1995	61,710	100,454	852,415
Non-methane VOC emissions {f}, 1995	5,694	12,143	159,634

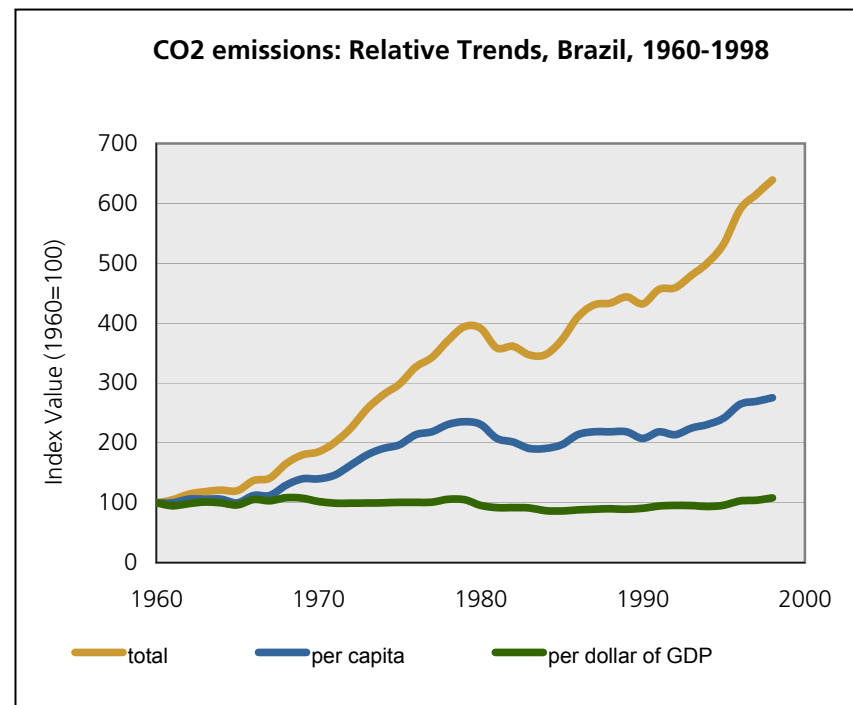
### Multilateral Agreements Status as of September 2002

Data show the year each country ratified the agreement, unless labeled as "signed only".

Kyoto Protocol	2002
United Nations Framework Convention on Climate Change (UNFCCC)	1994
Vienna Convention	1990

### Other Resources:

Sustainable Development Country Profile of the Food and Agriculture Organization of the United Nations:  
<http://www.fao.org/countryprofiles/index.asp?subj=2&iso3=>



### Footnotes:

Some footnotes are not incorporated here. Please refer to the Data Tables section of EarthTrends for a full listing.

- Source: Carbon Dioxide Information Analysis Center (CDIAC).
- Constant US dollars.
- Source: International Energy Agency (IEA).
- Includes the commercial sector, agriculture, the public service sector, and international bunkers
- GDP is in 1995 international dollars, adjusted for Purchasing Power Parity.
- VOC: Volatile Organic Compounds.

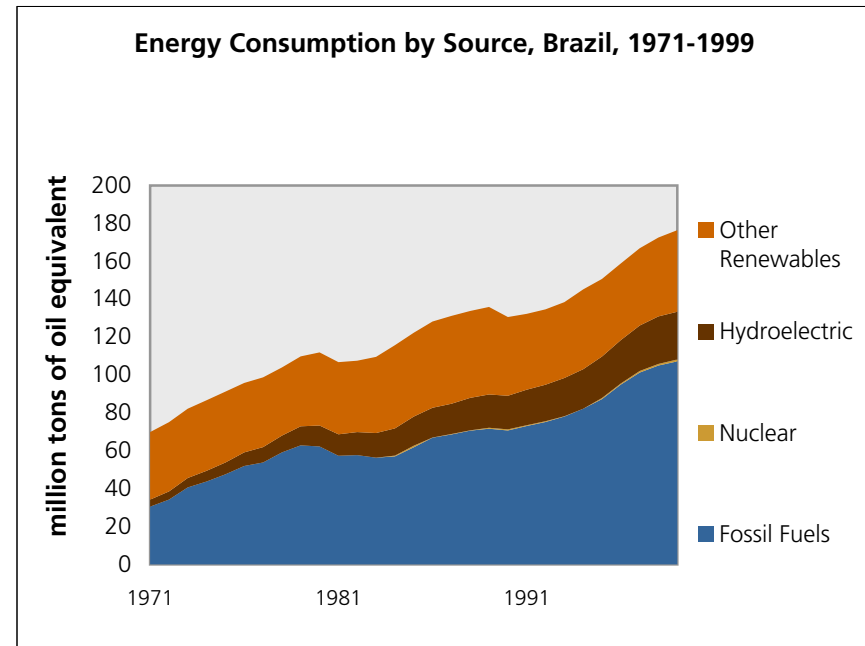
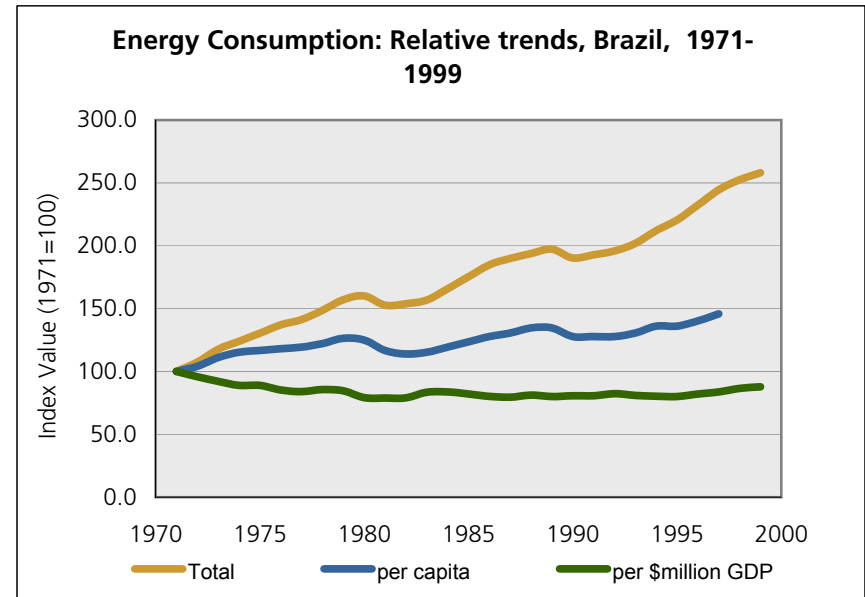
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Energy Production and Consumption (in thousand metric tons of oil equivalent) {a}	Brazil	South America	World
Total energy production, 2000	142,078	577,464	10,077,984
% change since 1980	128%	93%	37%
Energy imports, 1997	59,393	91,009	9,521,506
Energy exports, 1997	3,282	236,800	3,419,104
Total energy consumption {b}, 1999	179,701	383,514	9,702,786
Electricity consumption, 1999	26,200	46,368	1,040,770
Energy consumption per capita, 1997	1.05	1.15	1.64
% change since 1990	14%	19%	0%
Energy consumption per GDP {c}, 1999:	159	170	244
% change since 1990	9%	2%	-13%

Energy Consumption by Source, 1999 (in thousand metric tons oil equivalent)	Brazil	South America	World
Total Fossil Fuels	107,150	272,172	7,689,047
Coal and coal products	12,876	20,749	2,278,524
Crude oil and natural gas liquids	82,804	217,212	3,563,084
Natural gas	5,422	74,583	2,012,559
Nuclear	1,036	2,888	661,901
Hydroelectric	25,188	43,346	222,223
Renewables, excluding hydroelectric:	43,060	65,288	1,097,889
Primary solid biomass (includes fuelwood)	35,645	57,856	1,035,139
Biogas and liquid biomass	7,415	7,429	14,931
Geothermal	0.0	0	43,802
Solar	0.0	0	2,217
Wind	0.2	3	1,748
Tide, wave, and ocean	0.0	0	53

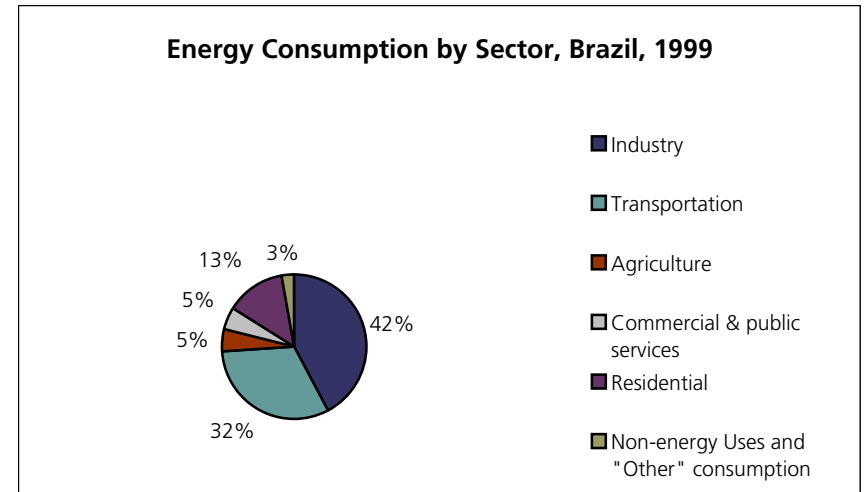
Energy Consumption by Sector, 1999 (in thousand metric tons of oil equivalent)	Brazil	South America	World
Industry	64,317	114,332	2,140,474
Transportation	48,112	96,231	1,755,505
Agriculture	7,500	13,232	166,287
Commercial & public services	7,753	15,693	511,555
Residential	20,407	52,172	1,845,475
Non-energy uses and "other" consumption	4,113	9,446	333,981
Total final energy consumption {d}	152,203	301,106	6,753,276



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## Energy and Resources-- Brazil

	Brazil	South America	World
<b>Resource Consumption</b>			
Passenger cars per 1000 people, 1998	X	X	109
Annual motor gasoline consumption, 2000 (liters per person)	99	135	179
Annual meat consumption, 1998 (kg per person)	69	61	38
Annual paper consumption, 2000 (kg per person)	38	34	53
Annual coffee consumption, 2001 (kg per person)	5	X	X



### Footnotes:

- One metric ton of oil equivalent (toe) is defined as 10 Exp. 7 kilocalories or 41.868 gigajoules, equal to the amount of energy contained in 1 metric ton of crude oil.
- In metric tons of oil equivalent per million constant 1995 international dollars.  
TPES = Energy Production + Imports - Exports - Stock Changes - Consumption by International Marine Bunkers
- In metric tons of oil equivalent per million constant 1995 international dollars.
- "Total final consumption" is calculated as the sum of energy consumption by sectors.

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