

#### Introduction



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GOVERNMENT INVOLVEMENT: MULTINATIONAL
AGREEMENTS

Vienna Convention (ozone)	1989
UNFCCC (climate change)	1994
UNCLOS (law of the sea)	1996
UNCCD (desertification treaty)	
Ramsar Convention (wetlands)	1995
Kyoto Protocol (CO2 emissions)	
	2002
Convention on Biodiversity	1994
CMS (migratory species treaty)	
CITES (species trade treaty)	1977

#### **Environment and Natural Resource Indicators**

Land use (% of total) in 2000 East Asia and Upper Middle AGRICULTURE Malaysia Pacific Income 1% 18% 1995 2002 2002 2002 Population, total (millions) 20.6 24.3 1,839.2 329.5 Eorest Rural population (% of total) 46.3 41.3 61.8 24.9 Arable land 1995 2001 2001 2001 58% Other Land area (thousand ha) 32,855 32,855 .. .. Cropland 6% Arable land (thousand ha) 1,820 1,800 .. Pasture Forest area (% of area) 65.9 27.2 58.7 34.5 Arable land (% of area) 5.5 5.5 13.3 8.0 Cropland (% of area) 17.6 17.6 2.7 1.0 Fertilizer consumption (100 gm per ha Pasture (% of area) 34.4 39.0 0.9 0.9 of arable land) Area under cereal production 10000 (thousand ha) 696 689 135,760 42,127 363 Irrigated land (thousand ha) 365 5000 Fertilizer consumption (100 gm 0 per ha of arable land) 6,000.0 6,281.8 2,076.9 807.4 1961 1971 2001 1981 1991 Agriculture value added per Malaysia worker (constant 1995 US\$) 6,092.9 6,929.9 4,114.1 East Asia and Pacific ... Food production index (1989-91 = Upper Middle Income 100) 124.6 142.9 170.7 120.2 Environment Department

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Malaysia is an Upper Middle Income country with per capita income of \$3,540. It is located in the East Asia and Pacific region. Its land area is 32,855 thousand hectares. Total population is 20.6 millions, of which 46% is rural. Population density is 74 people per sq. km.

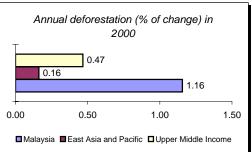
Forest area accounts for 5% of total forests in East Asia and Pacific. Between 1990 and 2000 the deforestation rate has been 1.2% per year.

Nationally protected areas cover 5.7% of the territory (the conventional target is 10%). Malaysia is among the ten countries with the highest number of threatened species. For example, there are 50 threatened species of mammals 681 threatened species of plants.

Fish catch is among the 10 highest in the world, with 1,245,100 tons per year.



FORESTS	Malaysia		East Asia and Pacific	Upper Middle Income
	1990	2000	2000	2000
Forest area (sq km)	216,530	192,760	4,238,100	2,428,200
Forest area (% of area)	65.9	58.7	27.2	34.5
Deforestation (sq km per annum) Annual deforestation (% of		2,377	11,613	15,139
change)		1.16	0.16	0.47



FISHERIES	Malaysia		East Asia and Pacific	Upper Middle Income	Fisheries
	1989	1995	1998	1999	spin
					្រទ្ឋ 1000 +
Total Fish Catch - Production (Mt)	937,220	1,245,100	1,287,400	1,406,900	
Total Fish Catch - Exports (Mt)	74,579	106,420	39,027	45,622	
Total Fish Catch - Imports (Mt)	130,700	147,250	168,040	182,730	0
Total Marine Fish - Production					1961 1971 1981 1991
(Mt)	671,200	921,210	989,780	1,057,200	
Total Marine Fish - Exports (Mt)	20,327	26,120	18,856	24,881	Total Marine Fish - Production (Mt)
Total Marine Fish - Imports (Mt)	107,730	122,290	146,780	160,840	

BIODIVERSITY	Malaysia 1996	2003	East Asia and Pacific 2003	Upper Middle Income 2003	300	Mammal species
Nationally protected areas (% of					50	Mammal species,
total area)		5.7			_	threatened
	1996	2002	2002	2002		
Mammal species, number		300				Bird species
Mammal species, number					254	Bird species,
threatened	42	50				number breeding
Bird species, number breeding		254			37	Bird species, threatened
Bird species, number threatened	34	37				
Fish species, number		368				Plant species
Fish species, number threatened	14	20			125	Flowering plant species, number
					681	Plant species, threatened
Flowering plant species, number	12,500					uneaterieu
Plant species, number threatened		681			Note: Flowering plant species	number is for 1999.

ENERGY	Malaysia 1995	2001	East Asia and Pacific 2001	Upper Middle Income 2001	Electric power consumption (kwh per capita)	
Electric power consumption (kwh in millions)	39,225	65,003			<sup>5</sup> <sup>20</sup> 10	
Electric power consumption (kwh per capita)	1,903	2,731	816	2,505	<u><u> </u></u>	
Electricity production (kwh in millions)	45,431	71,384	1,849,800	1,035,400	Malaysia	
Electricity production from coal sources (% of total)	4.2	3.4	65.1	24.0	— - — - Upper Middle Income	
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	M	alay	sia	
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	1995	2001	2001	2001	
					Electricity production from different
Electricity production from hydroelectric sources (% of total)	13.7	9.9	18.3	18.6	Electricity production from different sources (% of total)
Electricity production from natural gas sources (% of total)	52.5	78.1	9.5	25.8	
Electricity production from nuclear sources (% of total)			0.9	7.1	
Electricity production from oil sources (% of total)	29.6	8.6	5.2	23.4	1997 1998 1999 2000 2001 ■Coal ■Hydroelectric ■Natural gas ■Oil ■Nuclear
Energy use (kt of oil equivalent) Energy use (kg of oil equivalent	38,255	51,608	1,550,600	709,940	l [
per capita) Energy production (kt of oil	1,856	2,168	854	2,176	Energy use (kt of oil equivalent per capita)
equivalent) Combustible renewables and	64,702	77,623	1,595,500	1,408,400	3,000
waste (% of total energy use)	6.1	4.6	21.0	4.2	
GDP per unit of energy use (constant 1995 PPP \$ per kg of oil equivalent) Private investment in energy	3.8	3.6		4.0	1971 1981 1991 2001 ————Malaysia —————East Asia and Pacific ——————Upper Middle Income
(current US\$, millions)	1,200	1,711	3,730	4,454	
				·	
			East ∆sia and	Upper Middle	(
EMISSIONS and POLLUTION	Malaysia		East Asia and Pacific	Upper Middle Income	CO2 emissions (metric tons per capita)
	1995	2000	Pacific 2000	Income 2000	10
CO2 emissions (kt)	-	<b>2000</b> 118,990	Pacific	Income	
CO2 emissions (kt) CO2 emissions (metric tons per capita)	1995		Pacific 2000	Income 2000	10 5 0 1960 1970 1980 1990 2000
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP)	<b>1995</b> 118,990	118,990	Pacific 2000 4,061,000	Income 2000 1,867,900	10 5 0 1960 1970 1980 1990 2000 Malaysia East Asia and Pacific
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$	<b>1995</b> 118,990 5.8	118,990 6.2	Pacific 2000 4,061,000 2.1	Income 2000 1,867,900 6.2	10 5 0 1960 1970 1980 1990 2000 Malaysia
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP) Organic water pollutant (BOD) emissions (kg per day)	<b>1995</b> 118,990 5.8 1.3	118,990 6.2 1.3	Pacific 2000 4,061,000 2.1	Income 2000 1,867,900 6.2	10 5 0 1960 1970 1980 1990 2000 Malaysia East Asia and Pacific
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP) Organic water pollutant (BOD) emissions (kg per day) Organic water pollutant (BOD) emissions (kg per day per worker)	<b>1995</b> 118,990 5.8 1.3 158,530	118,990 6.2 1.3	Pacific 2000 4,061,000 2.1	Income 2000 1,867,900 6.2	10         5
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP) Organic water pollutant (BOD) emissions (kg per day) Organic water pollutant (BOD) emissions (kg per day per worker) Water pollution by industry (% of total BOD emissions)	1995 118,990 5.8 1.3 158,530 0.1 1995	118,990 6.2 1.3   <b>2000</b>	Pacific 2000 4,061,000 2.1	Income 2000 1,867,900 6.2 1.3	$ \begin{array}{c} 10 \\ 5 \\ 0 \\ 1960 \\ 1970 \\ 1980 \\ 1990 \\ 2000 \\ Malaysia \\ \hline CO2 emissions in 2001 \\ \hline \hline 2 \\ 0 \\ 0 \\ 2 \\ 4 \\ 6 \\ 8 \\ \end{array} $
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP) Organic water pollutant (BOD) emissions (kg per day) Organic water pollutant (BOD) emissions (kg per day per worker) Water pollution by industry (% of total BOD emissions) Chemical	<b>1995</b> 118,990 5.8 1.3 158,530 0.1 <b>1995</b> 14.8	118,990 6.2 1.3 	Pacific 2000 4,061,000 2.1 2.1 	Income 2000 1,867,900 6.2 1.3 	10
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP) Organic water pollutant (BOD) emissions (kg per day) Organic water pollutant (BOD) emissions (kg per day per worker) Water pollution by industry (% of total BOD emissions) Chemical Clay	1995 118,990 5.8 1.3 158,530 0.1 1995 14.8 0.2	118,990 6.2 1.3   <b>2000</b>	Pacific 2000 4,061,000 2.1 2.1 	Income 2000 1,867,900 6.2 1.3   2000	$ \begin{array}{c} 10 \\ 5 \\ 0 \\ 1960 \\ 1970 \\ 1980 \\ 1990 \\ 2000 \\ Malaysia \\ \hline East Asia and Pacific \\ Upper Middle Income \end{array} $
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP) Organic water pollutant (BOD) emissions (kg per day) Organic water pollutant (BOD) emissions (kg per day per worker) Water pollution by industry (% of total BOD emissions) Chemical Clay Food	1995 118,990 5.8 1.3 158,530 0.1 1995 14.8 0.2 32.3	118,990 6.2 1.3   <b>2000</b>	Pacific 2000 4,061,000 2.1 2.1    2000 	Income 2000 1,867,900 6.2 1.3   2000	$ \begin{array}{c} 10 \\ 5 \\ 0 \\ 1960 \\ 1970 \\ 1980 \\ 1990 \\ 2000 \\ Malaysia \\ \hline East Asia and Pacific \\ Upper Middle Income \end{array} $
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP) Organic water pollutant (BOD) emissions (kg per day) Organic water pollutant (BOD) emissions (kg per day per worker) Water pollution by industry (% of total BOD emissions) Chemical Clay Food Metal	1995 118,990 5.8 1.3 158,530 0.1 1995 14.8 0.2 32.3 6.7	118,990 6.2 1.3   <b>2000</b>	Pacific 2000 4,061,000 2.1 2.1    2000 	Income 2000 1,867,900 6.2 1.3   2000   	10 5 0 1960 1970 1980 1990 2000 Malaysia 
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP) Organic water pollutant (BOD) emissions (kg per day) Organic water pollutant (BOD) emissions (kg per day per worker) Water pollution by industry (% of total BOD emissions) Chemical Clay Food Metal Paper	1995 118,990 5.8 1.3 158,530 0.1 1995 14.8 0.2 32.3 6.7 14.2	118,990 6.2 1.3   <b>2000</b>	Pacific 2000 4,061,000 2.1 2.1    2000 	Income 2000 1,867,900 6.2 1.3          	10 5 0 1960 1970 1980 1990 2000 Malaysia 
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP) Organic water pollutant (BOD) emissions (kg per day) Organic water pollutant (BOD) emissions (kg per day per worker) Water pollution by industry (% of total BOD emissions) Chemical Clay Food Metal Paper Textile	<b>1995</b> 118,990 5.8 1.3 158,530 0.1 <b>1995</b> 14.8 0.2 32.3 6.7 14.2 9.2	118,990 6.2 1.3   <b>2000</b>	Pacific 2000 4,061,000 2.1 2.1    2000 	L. Income 2000 1,867,900 6.2 1.3            	10 5 0 1960 1970 1980 1990 2000 Malaysia 
CO2 emissions (kt) CO2 emissions (metric tons per capita) CO2 emissions (kg per 1995 US\$ of GDP) Organic water pollutant (BOD) emissions (kg per day) Organic water pollutant (BOD) emissions (kg per day per worker) Water pollution by industry (% of total BOD emissions) Chemical Clay Food Metal Paper	1995 118,990 5.8 1.3 158,530 0.1 1995 14.8 0.2 32.3 6.7 14.2	118,990 6.2 1.3   <b>2000</b> 16.5   	Pacific 2000 4,061,000 2.1 2.1    2000 	Income 2000 1,867,900 6.2 1.3          	10 5 0 1960 1970 1980 1990 2000 Malaysia 

Environment Department, World Bank November 2004 Contacts: eadvisor@worldbank.org 14%

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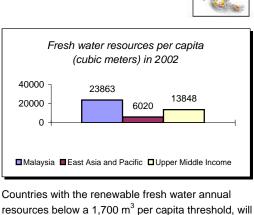
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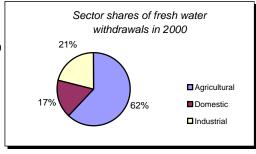
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WATER and SANITATION	Malaysia 1990	2002	East Asia and Pacific 2002	Upper Middle Income 2002
Freshwater resources per capita (cubic meters)		23,863	6,020	13,848
Freshwater use (% of total water resources)		2.2	7.2	4.4
Note: Freshwater use (% of total w	/ater resources) n	number for the	country is for 2	000.
	1990	2000	2000	2000
Agricultural water use (%)		62.0		
Domestic water use (%)		17.0		
Industrial water use (%)		21.0		
Access to improved water				
source	1990	2000	2000	2000
% of population with access			75.9	
% of rural population with access		94.0	67.5	77.4
% of urban population with access			93.1	
Access to improved sanitation			00.1	
facilities	1990	2000	2000	2000
% of population with access			47.1	
% of rural population with access		98.0	35.8	64.4
% of urban population with				
access			72.4	
Mortality rate, under-5 (per 1,000)	21	9	45	23
Private investment in water and sanitation (current US\$, mil)	172	31	94	1,705



experience water stress, below 1,000 m<sup>3</sup> per capita threshold will experience water scarcity, and below 500 m<sup>3</sup> per capita threshold will experience absolute water scarcity.



Note: Private investment in water and sanitation 1,705 (current US\$) is for 1996 in the 1990 column.

NATIONAL ACCOUNTING AGGREGATES	Malaysia 1995	2002	East Asia and Pacific 2002	Upper Middle Income 2002	Savings
GDP (current US\$ billions)	88.8	94.9	1,833.1	1,708.8	<u>9</u> 40.00
GNI (current US\$ billions)	84.7	94.9 88.4	1,805.4	1,708.8	\$ \$ 30.00
	04.7	00.4	1,605.4	1,074.4	20.00
GNI per capita, Atlas method	(				10.00
(current US\$)	4,030	3,540	960	5,110	10.00
Gross national savings, including					
NCTR (% of GNI)	35.6	34.5	36.3	18.7	1995 1996 1998 1998 1999 1999 2000 2001
Consumption of fixed capital (%					
of GNI)	11.5	11.7	9.2	10.6	<ul> <li> Adjusted savings: excluding particulate emission damage (% of GNI)</li> </ul>
Net national savings (% of GNI)	24.1	22.8	29.6	10.8	Gross national savings, including NCTR (% of GNI)
Education expenditure (% of GNI)	3.9	4.1	2.2	5.0	
Energy depletion (% of GNI)	4.9	8.9	3.4	9.7	Adjusted net savings is a sustainability indicator that
Mineral depletion (% of GNI)	0.1	0.0	0.3	0.2	measures the true rate of savings in an economy
Net forest depletion (% of GNI)	1.0	0.0	0.1	0.0	after taking into account net national savings,
CO2 damage (% of GNI)	0.8	1.0	1.8	0.7	investments in human capital, depletion of natural
Particulate emission damage (%					resources, and damage caused by pollution.
of GNI)		0.1	0.8	0.6	
,		0.1	0.0		Note: for 1995, Adjusted net savings exclude
Adjusted net savings (% of GNI)	21.1	16.8	25.5		particulate emissions damage.

Sources: WDI, FAO, FAO AQUASTAT, WRI, and IUCN.

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