

Environment at a Glance 2004

China



Introduction



China is a Lower Middle Income country with per capita income of \$960. It is located in the East Asia and Pacific region. It is a very extensive country, with an area of 932,740 thousand hectares. Total population is 1,204.9 millions, of which 69% is rural. Population density is 137 people per sq. km.

Forest area accounts for 37% of total forests in East Asia and Pacific. Nationally protected areas cover 7.8% of the territory (the conventional target is 10%). China is among the ten countries with the highest number of threatened species. For example, there are 79 threatened species of mammals 74 threatened species of birds.

Fish catch is among the highest in the world, with 29,912,000 tons per year.

This map was produced by the Map Design Unit of the World Bank. The boundaries, colors, denominations and any other information shown on this map do not imply, on the part of the World Bank Group, any judgment on the legal status of any territory, or any endorsement or acceptance of such boundaries.

GOVERNMENT INVOLVEMENT: MULTINATIONAL AGREEMENTS

Vienna Convention (ozone)	1989
UNFCCC (climate change)	1993
UNCLOS (law of the sea)	1996
UNCCD (desertification)	..
Ramsar Convention (wetlands)	1992
Kyoto Protocol (CO2 emissions)	2002
Convention on Biodiversity	1993
CMS (migratory species treaty)	..
CITES (species trade treaty)	1981

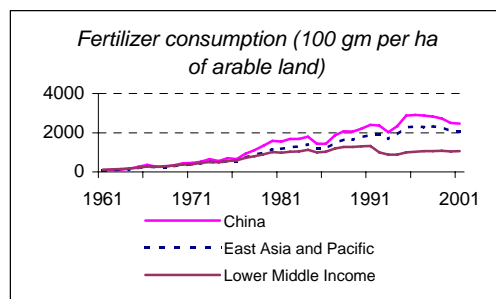
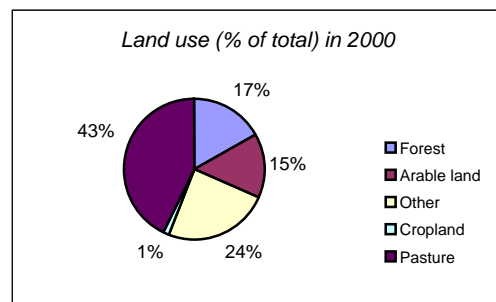
In year 2000 total emissions of CO2 represented 13.9% of global emissions. Health damages from particulate emissions (PM10) have been estimated to account for 1.0% of GNI.

Access to improved water source is 75%, which is below the regional and income group levels. Access to sanitation facilities is 40%, which is below the regional and income group levels.

Environment and Natural Resource Indicators

AGRICULTURE

	China		East Asia and Pacific	Lower Middle Income
	1995	2002	2002	2002
Population, total (millions)	1,204.9	1,280.4	1,839.2	2,633.4
Rural population (% of total)	68.6	62.4	61.8	50.6
	1995	2001	2001	2001
Land area (thousand ha)	932,740	932,740	..	..
Arable land (thousand ha)	124,060	143,620	..	..
Forest area (% of area)	15.6	17.0	27.2	31.8
Arable land (% of area)	13.3	15.4	13.3	9.9
Cropland (% of area)	1.1	1.2	2.7	0.9
Pasture (% of area)	42.9	42.9	34.4	24.4
Area under cereal production (thousand ha)	89,770	82,990	135,760	252,450
Irrigated land (thousand ha)	49,859	54,831	..	..
Fertilizer consumption (100 gm per ha of arable land)	2,868.1	2,463.0	2,076.9	1,060.1
Agriculture value added per worker (constant 1995 US\$)	284.4	342.5	..	728.7
Food production index (1989-91 = 100)	139.7	185.8	170.7	157.7



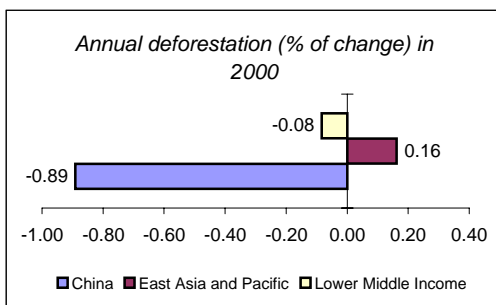
Environment at a Glance 2004

China



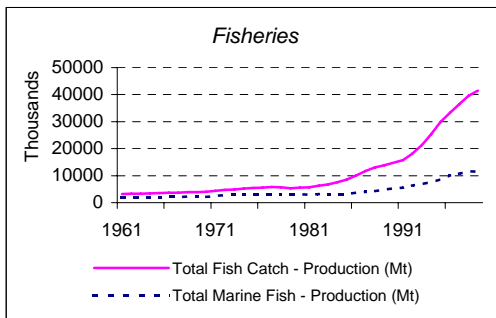
FORESTS

	China		East Asia and Pacific	Lower Middle Income
	1990	2000	2000	2000
Forest area (sq km)	1,454,200	1,589,000	4,238,100	19,065,000
Forest area (% of area)	15.6	17.0	27.2	31.8
Deforestation (sq km per annum)	..	(13,483)	11,613	14,730
Annual deforestation (% of change)	..	(0.89)	0.16	(0.08)



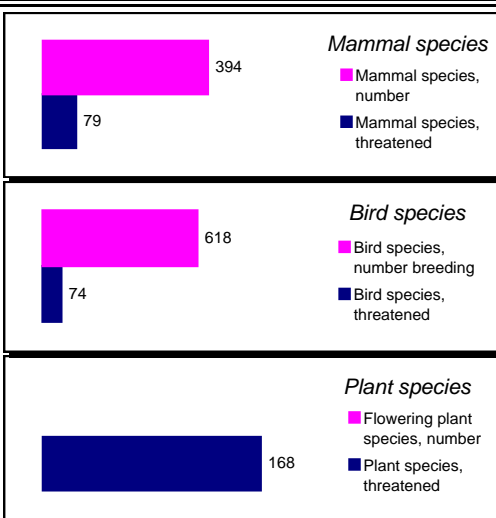
FISHERIES

	China		East Asia and Pacific	Lower Middle Income
	1989	1995	1998	1999
Total Fish Catch - Production (Mt)	13,818,000	29,912,000	39,545,000	41,513,000
Total Fish Catch - Exports (Mt)	266,160	362,560	351,790	347,060
Total Marine Fish - Production (Mt)	4,891,700	8,623,100	11,664,000	11,506,000
Total Marine Fish - Exports (Mt)	139,370	152,420	164,790	141,930
Total Marine Fish - Imports (Mt)	44,774	32,902	30,086	29,401



BIODIVERSITY

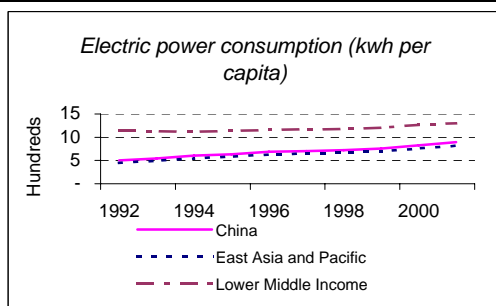
	China		East Asia and Pacific	Lower Middle Income
	1996	2003	2003	2003
Nationally protected areas (% of total area)	..	7.8	..	7.2
Mammal species, number	..	394	..	..
Mammal species, number threatened	75	79	..	..
Bird species, number breeding	..	618	..	..
Bird species, number threatened	90	74	..	..
Fish species, number	..	395	..	..
Fish species, number threatened	28	32	..	..
Flowering plant species, number	..	..	..	..
Plant species, number threatened	..	168	..	..



Note: Flowering plant species, number is for 1999.

ENERGY

	China		East Asia and Pacific	Lower Middle Income
	1995	2001	2001	2001
Electric power consumption (kwh in millions)	766,550	1,136,300	..	..
Electric power consumption (kwh per capita)	636	893	816	1,304
Electricity production (kwh in millions)	1,007,700	1,471,700	1,849,800	4,098,300
Electricity production from coal sources (% of total)	73.8	76.2	65.1	42.5

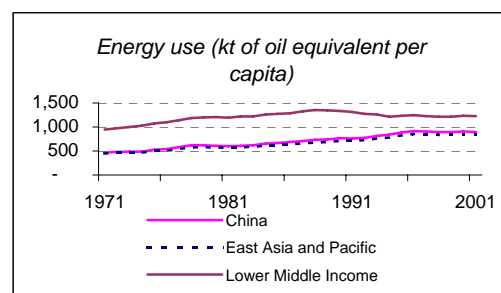
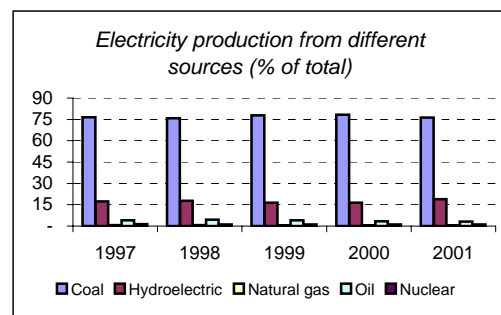


Environment at a Glance 2004

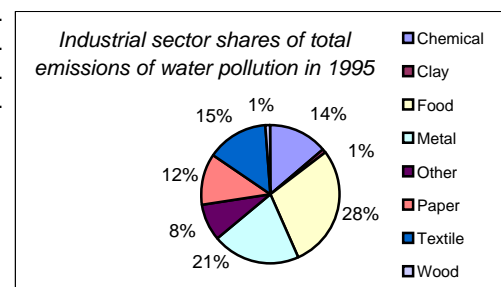
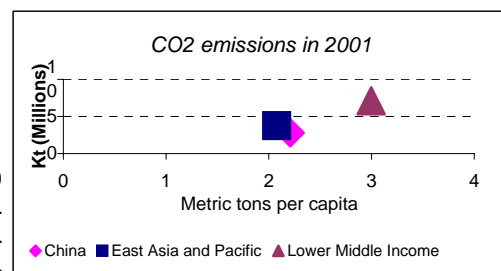
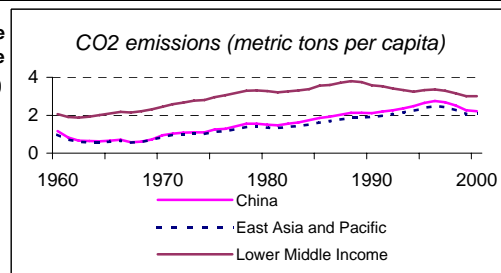
China



	1995	2001	2001	2001
Electricity production from hydroelectric sources (% of total)	18.9	18.9	18.3	23.5
Electricity production from natural gas sources (% of total)	0.3	0.4	9.5	19.7
Electricity production from nuclear sources (% of total)	1.3	1.2	0.9	6.9
Electricity production from oil sources (% of total)	5.4	3.2	5.2	6.7
Energy use (kt of oil equivalent)	1,066,600	1,139,400	1,550,600	2,929,400
Energy use (kg of oil equivalent per capita)	885	896	854	1,226
Energy production (kt of oil equivalent)	1,085,200	1,138,600	1,595,500	3,544,600
Combustible renewables and waste (% of total energy use)	19.3	19.0	21.0	11.9
GDP per unit of energy use (constant 1995 PPP \$ per kg of oil equivalent)	2.8	4.2	..	3.7
Private investment in energy (current US\$, millions)	987	591	3,730	8,522



EMISSIONS and POLLUTION	China		East Asia and Pacific	Lower Middle Income
	1995	2000	2000	2000
CO2 emissions (kt)	3,197,600	3,197,600	4,061,000	7,473,500
CO2 emissions (metric tons per capita)	2.7	2.2	2.1	3.0
CO2 emissions (kg per 1995 US\$ of GDP)	4.6	2.7	2.1	1.9
Organic water pollutant (BOD) emissions (kg per day)	7,558,400	6,204,200	..	..
Organic water pollutant (BOD) emissions (kg per day per worker)	0.1	0.1	..	..
Water pollution by industry (% of total BOD emissions)	1995	2000	2000	2000
Chemical	14.0	..	..	..
Clay	0.8	0.5	..	..
Food	28.6	28.4	..	..
Metal	20.5	20.6	..	..
Paper	12.0	10.8	..	..
Textile	14.6	14.8	..	..
Wood	1.0	0.8	..	..

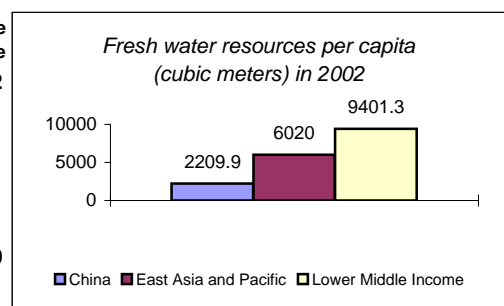


Environment at a Glance 2004

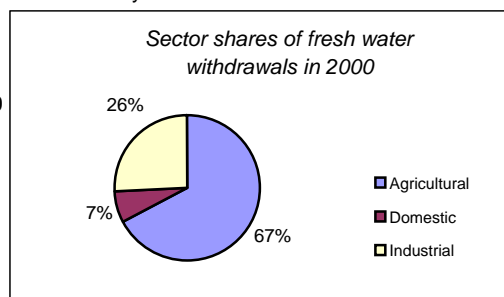
China



WATER and SANITATION	China		East Asia and Pacific	Lower Middle Income
	1990	2002	2002	2002
Freshwater resources per capita (cubic meters)	..	2,210	6,020	9,401
Freshwater use (% of total water resources)	..	18.6	7.2	5.4
Note: Freshwater use (% of total water resources) number for the country is for 2000.				
	1990	2000	2000	2000
Agricultural water use (%)	..	68.0	..	..
Domestic water use (%)	..	7.0	..	..
Industrial water use (%)	..	26.0	..	..
Access to improved water source	1990	2000	2000	2000
% of population with access	71.0	75.0	75.9	81.3
% of rural population with access	60.0	66.0	67.5	69.9
% of urban population with access	99.0	94.0	93.1	94.8
Access to improved sanitation facilities	1990	2000	2000	2000
% of population with access	29.0	40.0	47.1	59.1
% of rural population with access	18.0	27.0	35.8	41.8
% of urban population with access	57.0	69.0	72.4	81.3
Mortality rate, under-5 (per 1,000)	49	40	45	42
Private investment in water and sanitation (current US\$,	251	22	94	2,694



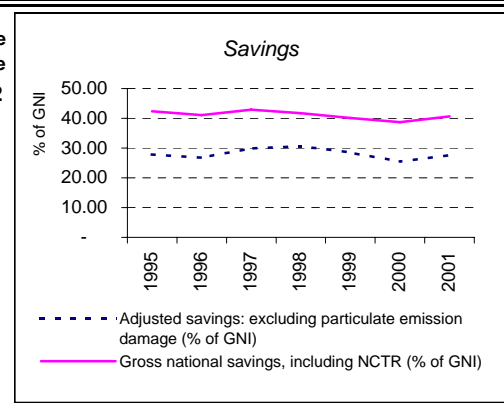
Countries with the renewable fresh water annual resources below a 1,700 m³ per capita threshold, will experience water stress, below 1,000 m³ per capita threshold will experience water scarcity, and below 500 m³ per capita threshold will experience absolute water scarcity.



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

NATIONAL ACCOUNTING AGGREGATES

	China		East Asia and Pacific	Lower Middle Income
	1995	2002	2002	2002
GDP (current US\$ billions)	700.3	1,266.1	1,833.1	3,426.3
GNI (current US\$ billions)	688.5	1,251.1	1,805.4	3,371.9
GNI per capita, Atlas method (current US\$)	520	960	960	1,400
Gross national savings, including NCTR (% of GNI)	42.4	43.7	36.3	27.0
Consumption of fixed capital (% of GNI)	8.6	9.0	9.2	9.9
Net national savings (% of GNI)	33.8	34.7	29.6	20.9
Education expenditure (% of GNI)	2.0	2.0	2.2	3.2
Energy depletion (% of GNI)	4.6	2.7	3.4	6.6
Mineral depletion (% of GNI)	0.4	0.2	0.3	0.3
Net forest depletion (% of GNI)	0.3	0.0	0.1	0.1
CO2 damage (% of GNI)	2.5	2.2	1.8	1.7
Particulate emission damage (% of GNI)	..	1.0	0.8	0.7
Adjusted net savings (% of GNI)	27.9	30.7	25.5	14.6



Adjusted net savings is a sustainability indicator that measures the true rate of savings in an economy after taking into account net national savings, investments in human capital, depletion of natural resources, and damage caused by pollution.

Note: for 1995, Adjusted net savings exclude particulate emissions damage.

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

The World Bank, Environment Department, 1818 H street, N.W. Washington D.C. 20433 USA