

World on the Edge - Supporting Data for Chapter 9 - Oil

[World Oil Production, 1950-2009](#)

GRAPH: World Oil Production, 1950-2009

[Top 20 Oil Producing Countries, 2009](#)

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[Top 20 Oil Importing Countries, 2009](#)

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A full listing of data for the entire book is on-line at:

http://www.earth-policy.org/books/wote/wote_data

This is part of a supporting dataset for Lester R. Brown, **World On the Edge: How to Prevent Environmental and Economic Collapse** (New York: W.W. Norton & Company, 2010). For more information and a free download of the book, see Earth Policy Institute on-line at www.earth-policy.org.

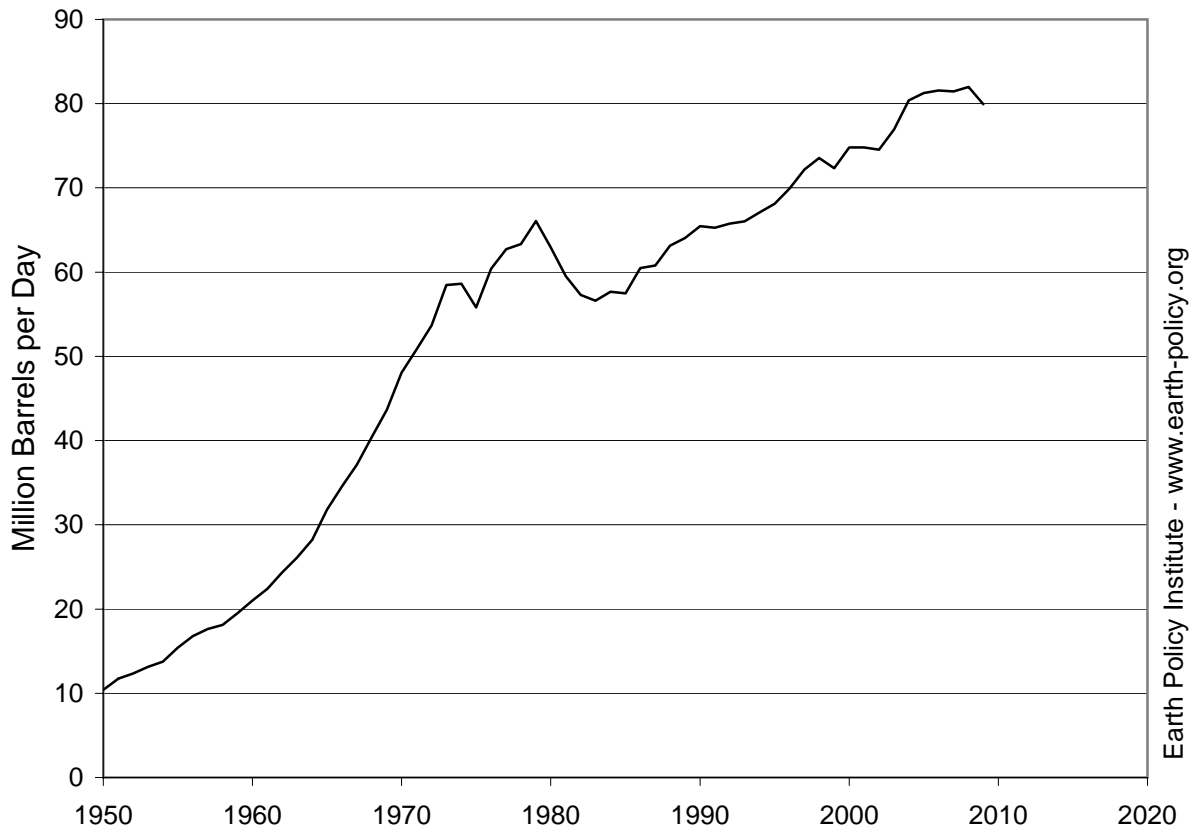
World Oil Production, 1950-2009

Year	Production*
	Million Barrels per Day
1950	10.42
1951	11.73
1952	12.34
1953	13.15
1954	13.74
1955	15.41
1956	16.78
1957	17.64
1958	18.10
1959	19.54
1960	21.03
1961	22.43
1962	24.33
1963	26.13
1964	28.25
1965	31.81
1966	34.57
1967	37.12
1968	40.44
1969	43.64
1970	48.06
1971	50.85
1972	53.67
1973	58.47
1974	58.62
1975	55.83
1976	60.41
1977	62.71
1978	63.33
1979	66.05
1980	62.95
1981	59.53
1982	57.30
1983	56.60
1984	57.69
1985	57.47
1986	60.46
1987	60.78
1988	63.15
1989	64.04
1990	65.46
1991	65.27
1992	65.77
1993	66.03
1994	67.10
1995	68.10
1996	69.90
1997	72.18
1998	73.54
1999	72.32
2000	74.82
2001	74.81
2002	74.53
2003	76.92
2004	80.37
2005	81.26
2006	81.56
2007	81.45
2008	81.99
2009	79.95

* Includes crude oil, shale oil, oil sands and natural gas liquids.

Source: 1950-1964 compiled by Worldwatch Institute from U.S. Department of Defense and U.S. Department of Energy data; 1965-2009 data from BP, *Statistical Review of World Energy June 2010* (London: 2010).

World Oil Production, 1950-2009



Source: BP; Worldwatch

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Top 20 Oil Producing Countries, 2009

Country	Production*
	Million Barrels per Day
Russia	10.03
Saudi Arabia	9.71
United States	7.20
Iran	4.22
China	3.79
Canada	3.21
Mexico	2.98
United Arab Emirates	2.60
Iraq	2.48
Kuwait	2.48
Venezuela	2.44
Norway	2.34
Nigeria	2.06
Brazil	2.03
Algeria	1.81
Angola	1.78
Kazakhstan	1.68
Libya	1.65
United Kingdom	1.45
Qatar	1.34
World Total	79.95

* Includes crude oil, shale oil, oil sands and natural gas liquids.

Source: BP, *Statistical Review of World Energy June 2010* (London: 2010).

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Oil Production in the United States, 1900-2009

Year	Production*
	Million Barrels per Day
1900	0.17
1901	0.19
1902	0.24
1903	0.28
1904	0.32
1905	0.37
1906	0.35
1907	0.46
1908	0.49
1909	0.50
1910	0.57
1911	0.60
1912	0.61
1913	0.68
1914	0.73
1915	0.77
1916	0.82
1917	0.92
1918	0.92
1919	1.04
1920	1.21
1921	1.29
1922	1.53
1923	2.01
1924	1.95
1925	1.70
1926	2.11
1927	2.47
1928	2.46
1929	2.76
1930	2.46
1931	2.33
1932	2.15
1933	2.48
1934	2.49
1935	2.72
1936	3.00
1937	3.50
1938	3.32
1939	3.46
1940	4.11
1941	3.85
1942	3.80
1943	4.13
1944	4.58
1945	4.70
1946	4.75
1947	5.09
1948	5.52
1949	5.05
1950	5.41
1951	6.16
1952	6.26
1953	6.46
1954	6.34
1955	6.81
1956	7.15
1957	7.17
1958	6.71

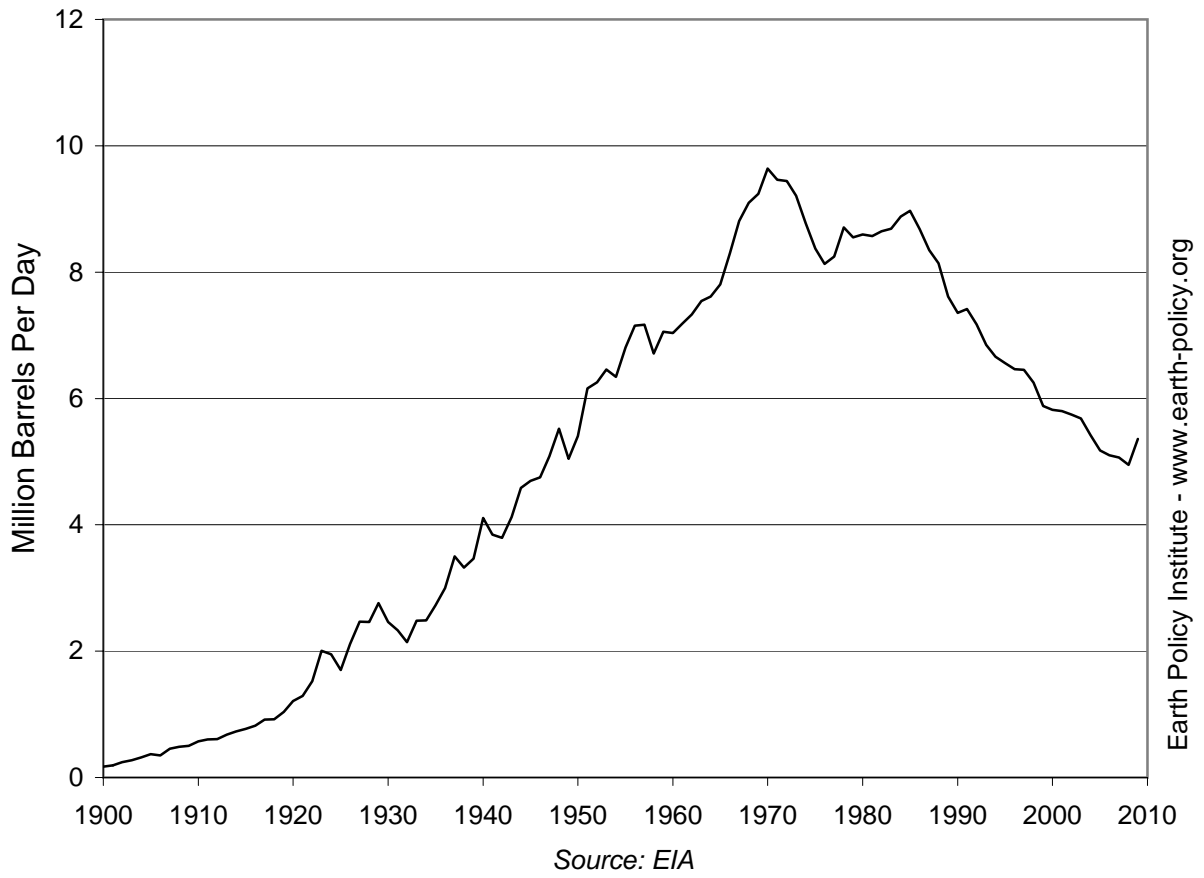
1959	7.05
1960	7.04
1961	7.18
1962	7.33
1963	7.54
1964	7.61
1965	7.80
1966	8.30
1967	8.81
1968	9.10
1969	9.24
1970	9.64
1971	9.46
1972	9.44
1973	9.21
1974	8.77
1975	8.38
1976	8.13
1977	8.25
1978	8.71
1979	8.55
1980	8.60
1981	8.57
1982	8.65
1983	8.69
1984	8.88
1985	8.97
1986	8.68
1987	8.35
1988	8.14
1989	7.61
1990	7.36
1991	7.42
1992	7.17
1993	6.85
1994	6.66
1995	6.56
1996	6.47
1997	6.45
1998	6.25
1999	5.88
2000	5.82
2001	5.80
2002	5.75
2003	5.68
2004	5.42
2005	5.18
2006	5.10
2007	5.06
2008	4.95
2009	5.36

* Includes crude oil, shale oil, and oil sands. For the full list of included items, see U.S. Department of Energy (DOE), Energy Information Administration (EIA), "Petroleum Navigator: Definitions, Sources and Explanatory Notes," at www.eia.gov/dnav/pet/TblDefs/pet_cons_psup_tbldef2.asp.

Source: DOE, EIA, *Petroleum Navigator: Crude Oil Production*, electronic database, at www.eia.gov/dnav/pet/pet_crd_crpdn_adc_mbbldpd_a.htm, updated 29 July 2010.

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Oil Production in the United States, 1900-2009



Top 20 Oil Consuming Countries, 2009

Country	Consumption*
	Million Barrels per Day
United States	18.69
China	8.63
Japan	4.40
India	3.18
Russia	2.70
Saudi Arabia	2.61
Germany	2.42
Brazil	2.40
South Korea	2.33
Canada	2.20
Mexico	1.94
France	1.83
Iran	1.74
United Kingdom	1.61
Italy	1.58
Spain	1.49
Indonesia	1.34
Netherlands	1.05
Taiwan	1.01
Singapore	1.00
World Total	84.08

* Includes ethanol and biodiesel.

Source: BP, *Statistical Review of World Energy June 2010* (London: 2010).

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Oil Consumption in the United States, 1950-2010

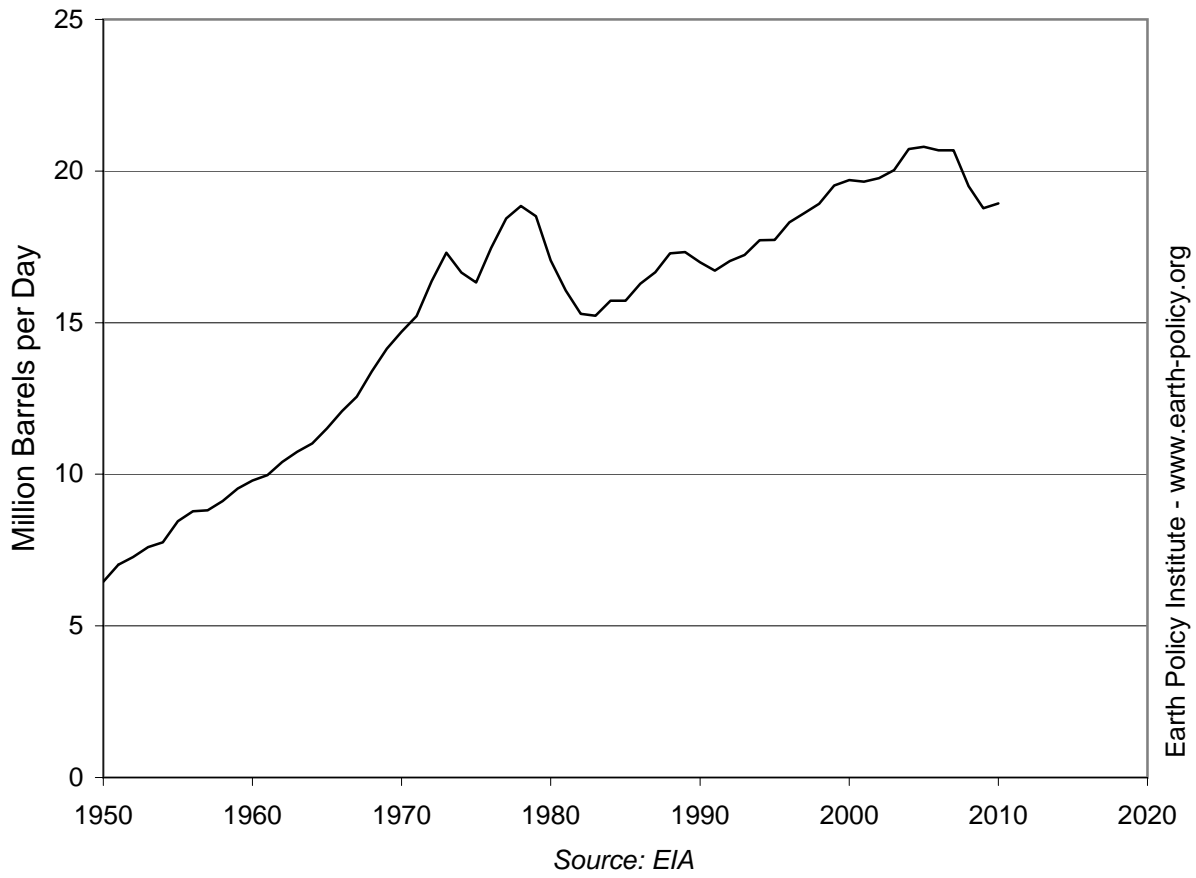
Year	Consumption*
	Million Barrels per Day
1950	6.46
1951	7.02
1952	7.27
1953	7.60
1954	7.76
1955	8.46
1956	8.78
1957	8.81
1958	9.12
1959	9.53
1960	9.80
1961	9.98
1962	10.40
1963	10.74
1964	11.02
1965	11.51
1966	12.08
1967	12.56
1968	13.39
1969	14.14
1970	14.70
1971	15.21
1972	16.37
1973	17.31
1974	16.65
1975	16.32
1976	17.46
1977	18.43
1978	18.85
1979	18.51
1980	17.06
1981	16.06
1982	15.30
1983	15.23
1984	15.73
1985	15.73
1986	16.28
1987	16.67
1988	17.28
1989	17.33
1990	16.99
1991	16.71
1992	17.03
1993	17.24
1994	17.72
1995	17.72
1996	18.31
1997	18.62
1998	18.92
1999	19.52
2000	19.70
2001	19.65
2002	19.76
2003	20.03
2004	20.73
2005	20.80
2006	20.69
2007	20.68
2008	19.50
2009	18.77
2010 **	18.93

* Includes ethanol, distillate fuel oil, residual fuel oil, petrochemical feedstocks, asphalt, and other petroleum products. For the full list of included items, see U.S. Department of Energy (DOE), Energy Information Administration (EIA), "Petroleum Navigator: Definitions, Sources and Explanatory Notes," at www.eia.gov/dnav/pet/TblDefs/pet_cons_psup_tbldef2.asp.

** Consumption for 2010 is a projection.

Source: 1950-2005 from "Petroleum Products Supplied by Type, 1949-2008," Table 5.11 in DOE, EIA, "Annual Energy Review: Petroleum," at www.eia.doe.gov/aer/petro.html, updated 26 June 2009; 2006-2010 from DOE, EIA, "Short Term Energy Outlook," at www.eia.doe.gov/emeu/steo, updated 8 September 2010.

Oil Consumption in the United States, 1950-2010



Oil Consumption in China, 1965-2009

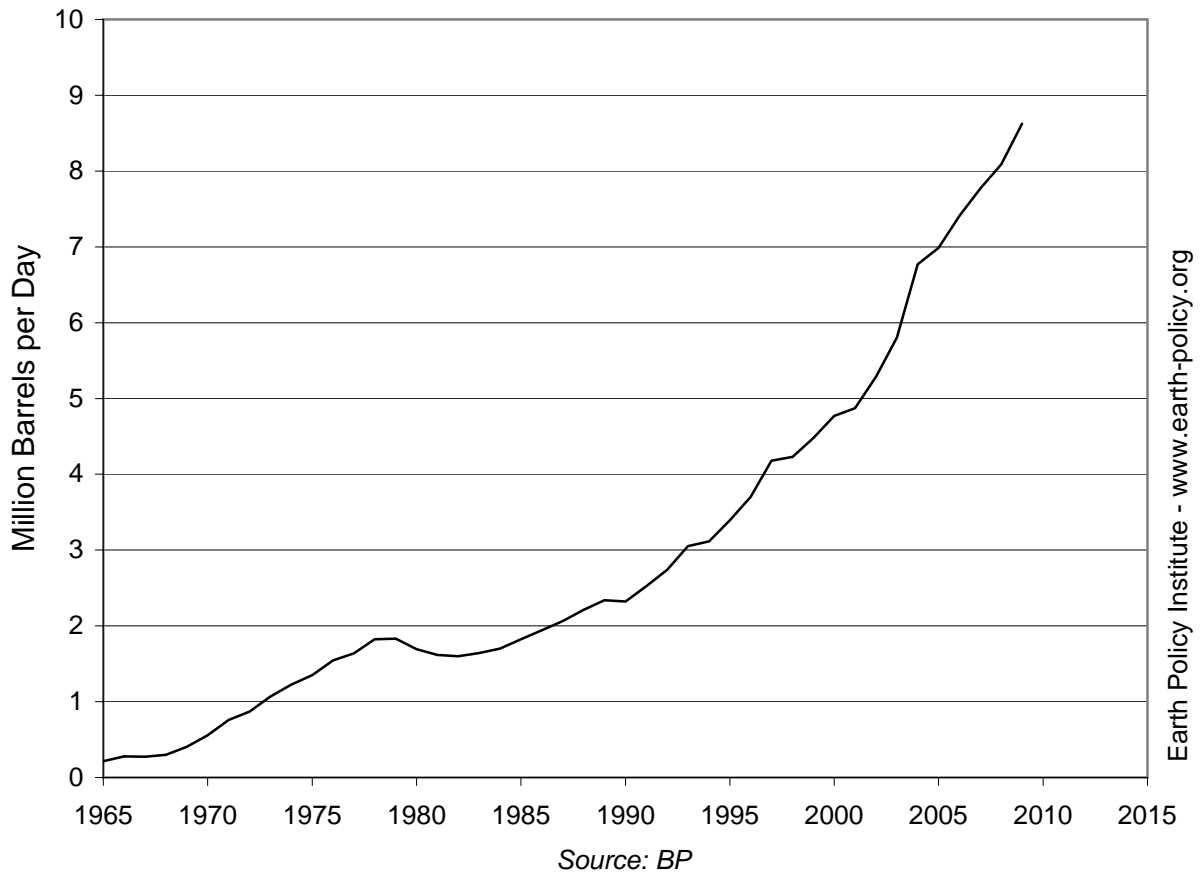
Year	Consumption*
	Million Barrels per Day
1965	0.22
1966	0.28
1967	0.28
1968	0.30
1969	0.40
1970	0.56
1971	0.76
1972	0.87
1973	1.07
1974	1.23
1975	1.35
1976	1.55
1977	1.64
1978	1.82
1979	1.83
1980	1.69
1981	1.62
1982	1.60
1983	1.64
1984	1.70
1985	1.82
1986	1.94
1987	2.06
1988	2.21
1989	2.34
1990	2.32
1991	2.52
1992	2.74
1993	3.05
1994	3.12
1995	3.39
1996	3.70
1997	4.18
1998	4.23
1999	4.48
2000	4.77
2001	4.87
2002	5.29
2003	5.80
2004	6.77
2005	6.98
2006	7.41
2007	7.77
2008	8.09
2009	8.63

* Includes ethanol and biodiesel.

Source: BP, *Statistical Review of World Energy June 2010* (London: 2010).

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Oil Consumption in China, 1965-2009



Oil Consumption in the European Union, 1965-2009

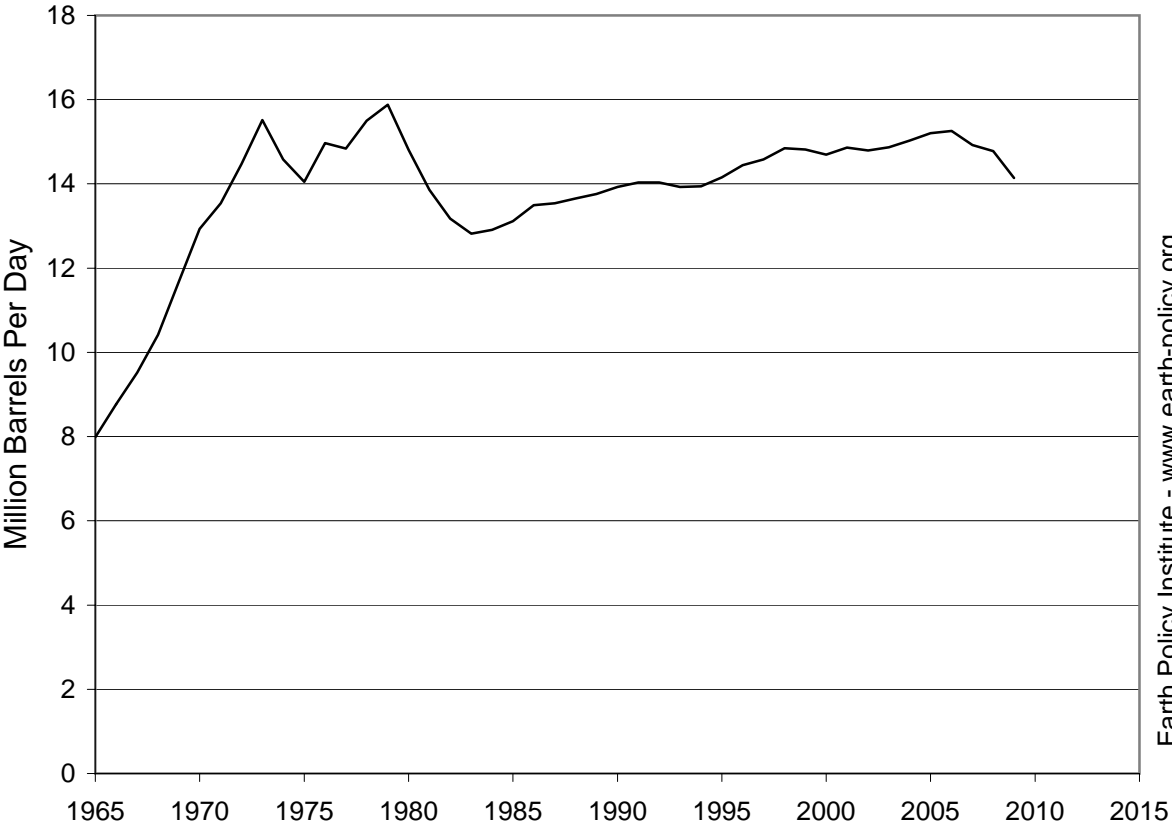
Year	Consumption*
	Million Barrels per Day
1965	7.99
1966	8.77
1967	9.52
1968	10.42
1969	11.68
1970	12.94
1971	13.54
1972	14.48
1973	15.51
1974	14.58
1975	14.05
1976	14.97
1977	14.84
1978	15.50
1979	15.88
1980	14.81
1981	13.86
1982	13.17
1983	12.82
1984	12.91
1985	13.11
1986	13.50
1987	13.54
1988	13.65
1989	13.76
1990	13.93
1991	14.03
1992	14.04
1993	13.93
1994	13.94
1995	14.16
1996	14.44
1997	14.58
1998	14.85
1999	14.81
2000	14.69
2001	14.86
2002	14.80
2003	14.87
2004	15.03
2005	15.20
2006	15.26
2007	14.93
2008	14.77
2009	14.14

* Includes ethanol and biodiesel.

Source: BP, *Statistical Review of World Energy June 2010* (London: 2010).

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Oil Consumption in the European Union, 1965-2009



Source: BP

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Top 20 Oil Importing Countries, 2009

Country	Imports*
	Million Barrels per Day
United States	9.01
China	3.88
Japan	3.44
India	2.62
South Korea	2.32
Germany	1.97
Italy	1.54
France	1.44
Spain	1.06
Netherlands	0.97
United Kingdom	0.96
Taiwan	0.95
Singapore	0.86
Canada	0.81
Thailand	0.79
Belgium	0.64
South Africa	0.44
Belarus	0.43
Poland	0.40
Australia	0.40
World Total	42.23

* Includes crude oil, shale oil, and oil sands. For the full list of included items, see U.S. Department of Energy (DOE), Energy Information Administration (EIA), "International Energy Glossary," at www.eia.gov/emeu/iea/glossary.html#CrudeOil.

Source: U.S. Department of Energy, Energy Information Administration, *International Energy Statistics*, electronic database, at <http://tonto.eia.doe.gov/cfapps/ipdbproject/IEDIndex3.cfm>, updated 31 October 2010.

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World's 20 Largest Oil Discoveries

Field	Country	Discovery	Size of Field Billion Barrels
Bolivar Coastal	Venezuela	1917	14 - 30
Kirkuk	Iraq	1927	15 - 25
Gashsaran	Iran	1928	12 - 14
Greater Burgan	Kuwait	1938	32 - 75
Abqaiq	Saudi Arabia	1941	13 - 19
Ghawar	Saudi Arabia	1948	66 - 150
Romashkino	Russia	1948	17
Safaniya	Saudi Arabia	1951	21 - 55
Rumaila North & South	Iraq	1953	19 - 30
Manifa	Saudi Arabia	1957	11 - 23
Khurais	Saudi Arabia	1957	13 - 19
Ahwaz	Iran	1958	13 - 15
Daqing	China	1959	13 - 18
Samotlor	Russia	1961	28
Berri	Saudi Arabia	1964	10 - 25
Zakum	United Arab Emirates	1964	17 - 21
Zuluf	Saudi Arabia	1965	11 - 20
Shaybah	Saudi Arabia	1968	7 - 22
Cantarell	Mexico	1976	11 - 20
East Baghdad	Iraq	1979	11 - 19

Source: Fredrik Robelius, *Giant Oil Fields - The Highway to Oil* (Uppsala, Sweden: Uppsala University Press, 2007), p. 79.

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