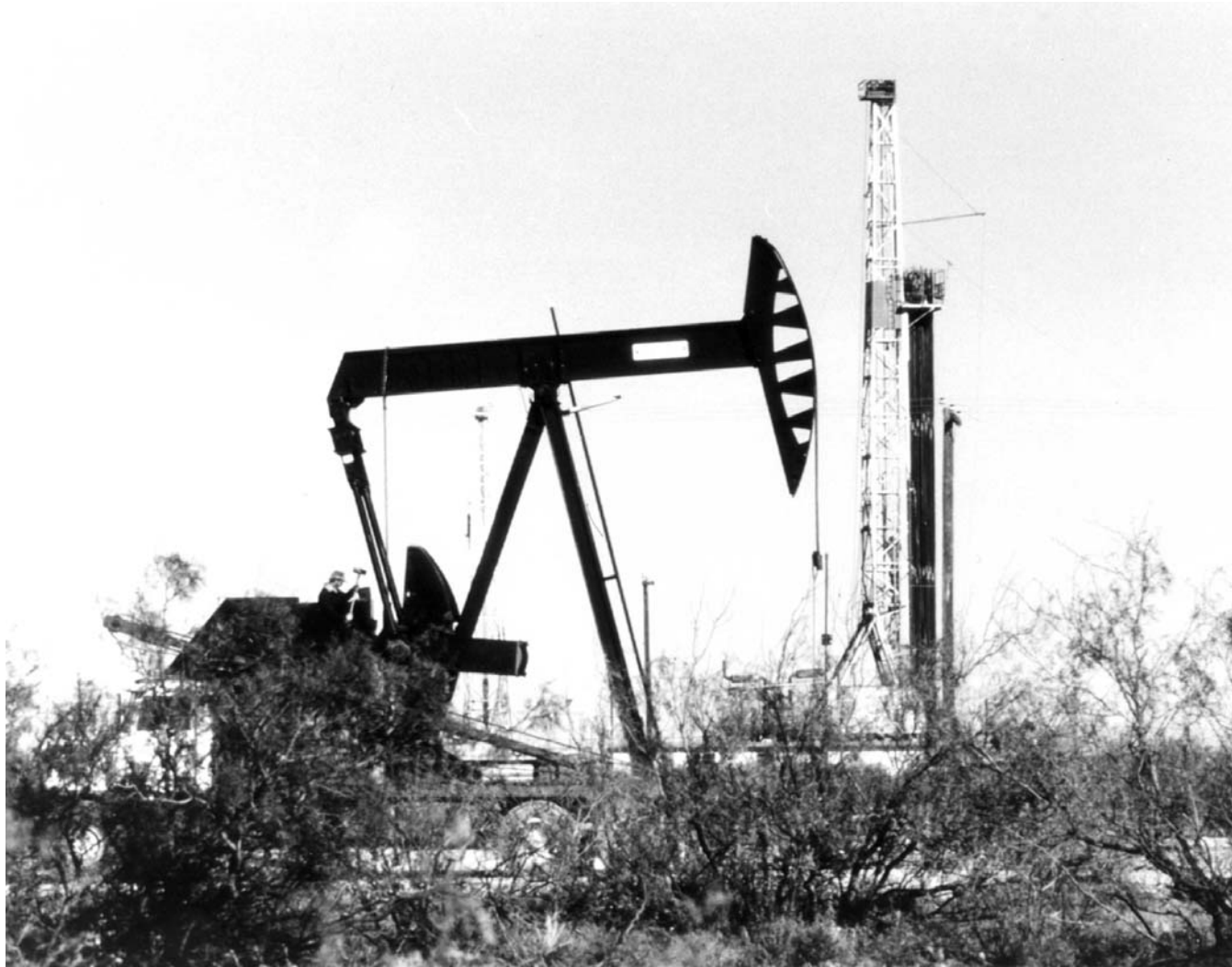


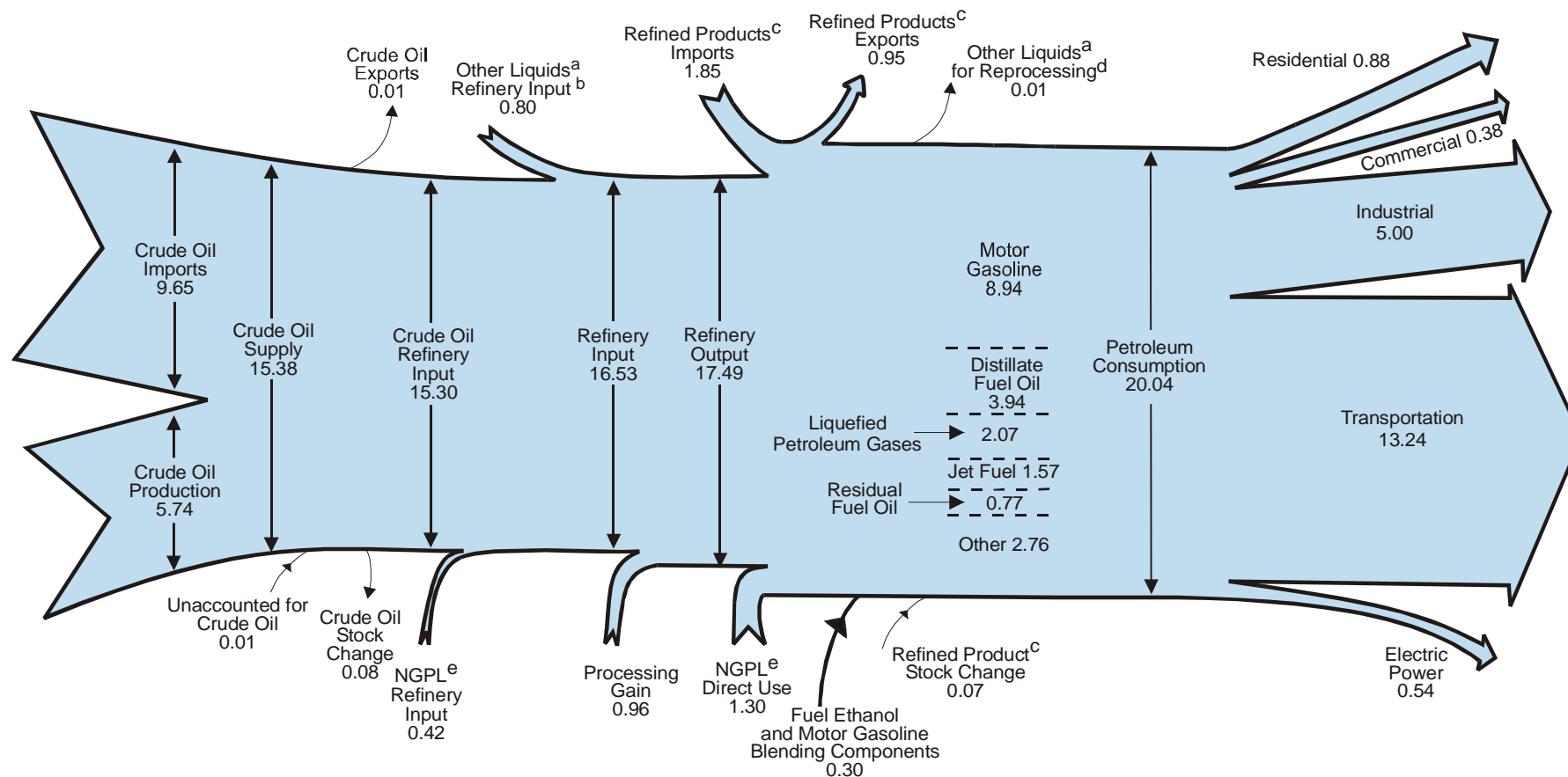
5

Petroleum



Oil pumping unit and drilling rig, Texas. Source: U.S. Department of Energy.

Diagram 2. Petroleum Flow, 2003
(Million Barrels per Day)

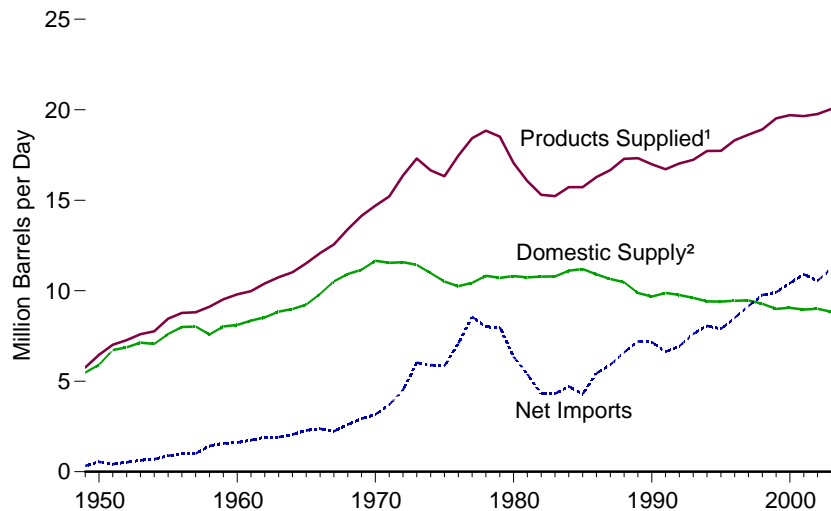


^a Unfinished oils, motor gasoline blending components, aviation gasoline blending components, and other hydrocarbons and oxygenates.
^b Field production (0.12), net imports (0.71), net change in stocks (-0.03), and reprocessing (0.01).
^c Finished petroleum products, liquefied petroleum gases, and pentanes plus.
^d Unfinished oils requiring further refinery processing, and aviation blending components.

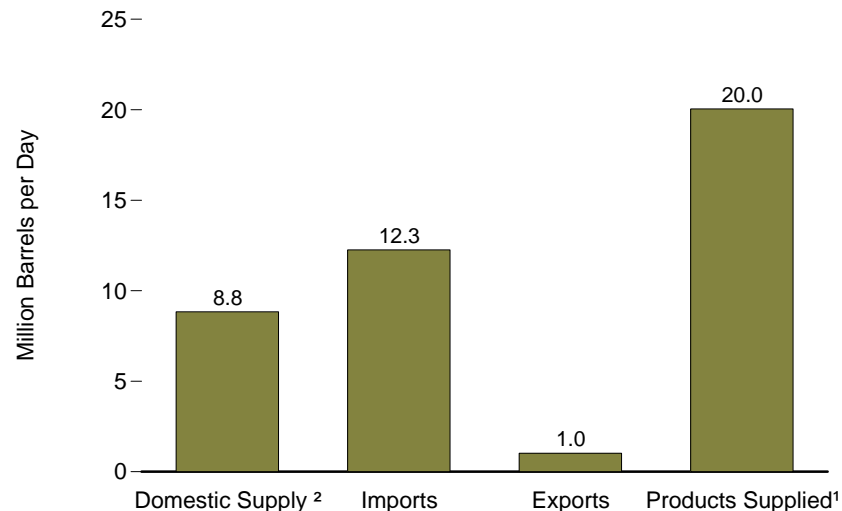
^e Natural gas plant liquids.
 Notes: • Data are preliminary. • Totals may not equal sum of components due to independent rounding.
 Sources: Tables 5.1, 5.3, 5.5, 5.8, 5.11, 5.13a-5.13d, 5.16, and *Petroleum Supply Monthly*, February 2004, Table 3.

Figure 5.1 Petroleum Overview

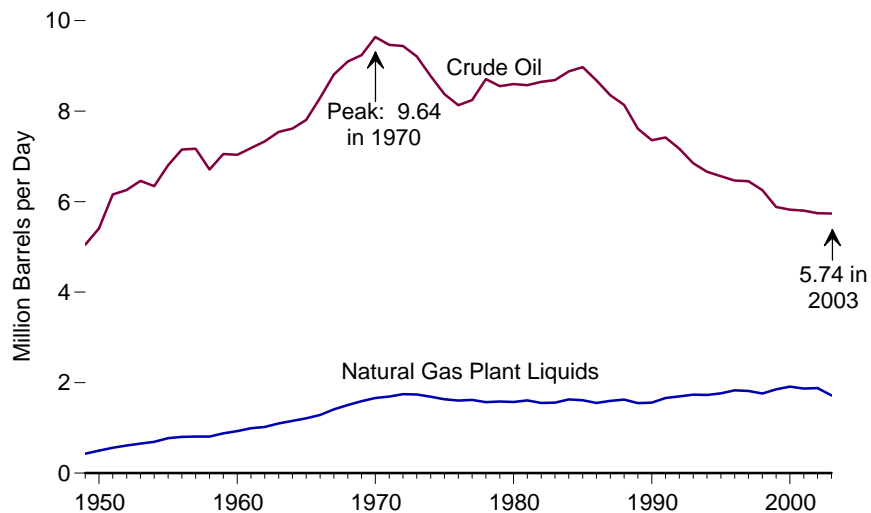
Overview, 1949-2003



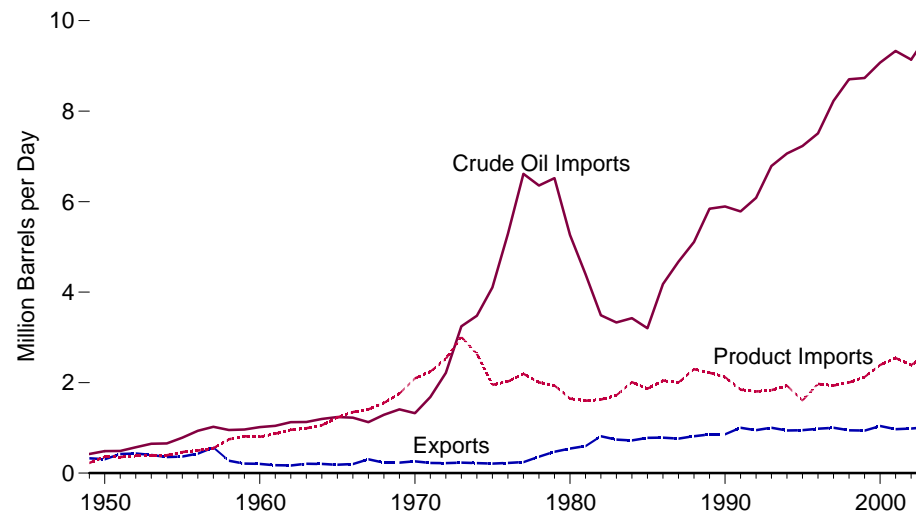
Overview, 2003



Crude Oil and Natural Gas Plant Liquids Production, 1949-2003



Trade, 1949-2003



¹ Approximate representation of petroleum consumption.

² Crude oil and natural gas plant liquids production; refinery processing gains; and field production of other hydrocarbons, hydrogen, oxygenates (ethers and alcohols), gasoline blending components, and finished petroleum products.

Note: Because vertical scales differ, graphs should not be compared.

Sources: Tables 5.1 and 5.3.

Table 5.1 Petroleum Overview, Selected Years, 1949-2003
(Thousand Barrels per Day)

Year	Production					Other Domestic Supply ²	Trade			Stock Change ³	Crude Oil Losses and Unaccounted for ⁴	Petroleum Products Supplied
	Crude Oil			Natural Gas Plant Liquids	Total		Imports	Exports	Net Imports			
	48 States ¹	Alaska	Total									
1949	5,046	0	5,046	430	5,477	-2	645	327	318	-8	38	5,763
1950	5,407	0	5,407	499	5,906	2	850	305	545	-56	51	6,458
1955	6,807	0	6,807	771	7,578	34	1,248	368	880	(s)	37	8,455
1960	7,034	2	7,035	929	7,965	146	1,815	202	1,613	-83	8	9,797
1965	7,774	30	7,804	1,210	9,014	220	2,468	187	2,281	-8	10	11,512
1970	9,408	229	9,637	1,660	11,297	359	3,419	259	3,161	103	16	14,697
1971	9,245	218	9,463	1,693	11,155	382	3,926	224	3,701	71	-45	15,212
1972	9,242	199	9,441	1,744	11,185	388	4,741	222	4,519	-232	-43	16,367
1973	9,010	198	9,208	1,738	10,946	483	6,256	231	6,025	135	11	17,308
1974	8,581	193	8,774	1,688	10,462	516	6,112	221	5,892	179	38	16,653
1975	8,183	191	8,375	1,633	10,008	497	6,056	209	5,846	32	-3	16,322
1976	7,958	173	8,132	1,604	9,736	515	7,313	223	7,090	-58	-63	17,461
1977	7,781	464	8,245	1,618	9,862	575	8,807	243	8,565	548	22	18,431
1978	7,478	1,229	8,707	1,567	10,275	549	8,363	362	8,002	-94	73	18,847
1979	7,151	1,401	8,552	1,584	10,135	571	8,456	471	7,985	173	6	18,513
1980	6,980	1,617	8,597	1,573	10,170	641	6,909	544	6,365	140	-20	17,056
1981	6,962	1,609	8,572	1,609	10,180	558	5,996	595	5,401	160	-78	16,058
1982	6,953	1,696	8,649	1,550	10,199	583	5,113	815	4,298	-147	-68	15,296
1983	6,974	1,714	8,688	1,559	10,246	541	5,051	739	4,312	-20	-112	15,231
1984	7,157	1,722	8,879	1,630	10,509	599	5,437	722	4,715	280	-183	15,726
1985	7,146	1,825	8,971	1,609	10,581	612	5,067	781	4,286	-103	-145	15,726
1986	6,814	1,867	8,680	1,551	10,231	674	6,224	785	5,439	202	-139	16,281
1987	6,387	1,962	8,349	1,595	9,944	703	6,678	764	5,914	41	-145	16,665
1988	6,123	2,017	8,140	1,625	9,765	708	7,402	815	6,587	-28	-196	17,283
1989	5,739	1,874	7,613	1,546	9,159	722	8,061	859	7,202	-43	-200	17,325
1990	5,582	1,773	7,355	1,559	8,914	763	8,018	857	7,161	107	-257	16,988
1991	5,618	1,798	7,417	1,659	9,076	807	7,627	1,001	6,626	-10	-195	16,714
1992	5,457	1,714	7,171	1,697	8,868	900	7,888	950	6,938	-68	-258	17,033
1993	5,264	1,582	6,847	1,736	8,582	1,020	8,620	1,003	7,618	151	-168	17,237
1994	5,103	1,559	6,662	1,727	8,388	1,025	8,996	942	8,054	15	-266	17,718
1995	5,076	1,484	6,560	1,762	8,322	1,078	8,835	949	7,886	-246	-193	17,725
1996	5,071	1,393	6,465	1,830	8,295	1,150	9,478	981	8,498	-151	-215	18,309
1997	5,156	1,296	6,452	1,817	8,269	1,192	10,162	1,003	9,158	143	-145	18,620
1998	5,077	1,175	6,252	1,759	8,011	1,267	10,708	945	9,764	239	-115	18,917
1999	4,832	1,050	5,881	1,850	7,731	1,262	10,852	940	9,912	-422	-191	19,519
2000	4,851	970	5,822	1,911	7,733	1,325	11,459	1,040	10,419	-69	-155	19,701
2001	4,839	963	5,801	1,868	7,670	1,287	11,871	971	10,900	325	-117	19,649
2002	^R 4,761	984	^R 5,746	^R 1,880	^R 7,626	^R 1,374	^R 11,530	^R 984	^R 10,546	^R -105	^R -110	^R 19,761
2003 ^P	4,763	974	5,737	1,717	7,454	1,384	12,254	1,017	11,237	45	-14	20,044

¹ United States excluding Alaska and Hawaii.

² Refinery processing gains (refinery production minus refinery inputs), and field production of finished motor gasoline, motor gasoline blending components, and other hydrocarbons and oxygenates.

³ A negative number indicates a decrease in stocks and a positive number indicates an increase. Distillate stocks in the "Northeast Heating Oil Reserve" are not included.

⁴ "Unaccounted for" represents the difference between crude oil supply and disposition.

R=Revised. P=Preliminary. (s)=Less than 500 barrels per day.

Notes: • Crude oil includes lease condensate. • See Note 1, "Petroleum Products Supplied and Petroleum Consumption," Note 2, "Adjustment to Total Petroleum Products Supplied," and Note 3,

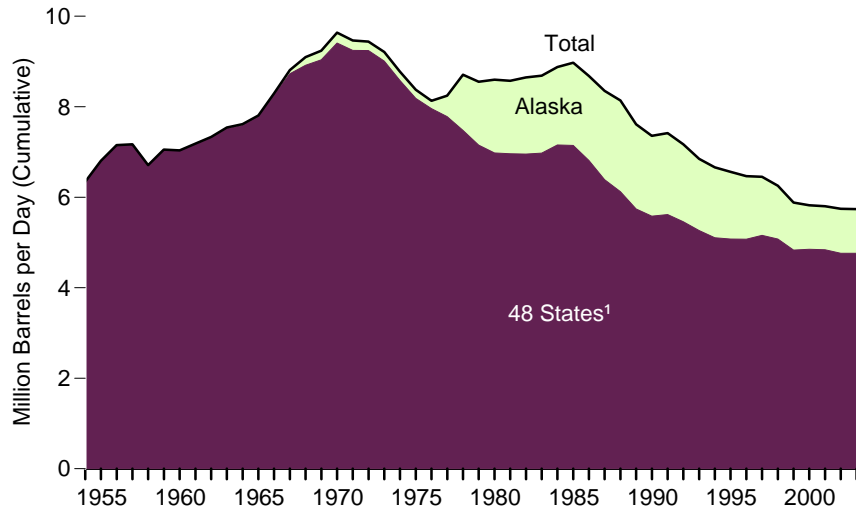
"Changes Affecting Petroleum Production and Product Supplied Statistics," at end of section. • Totals may not equal sum of components due to independent rounding.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>. • For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html.

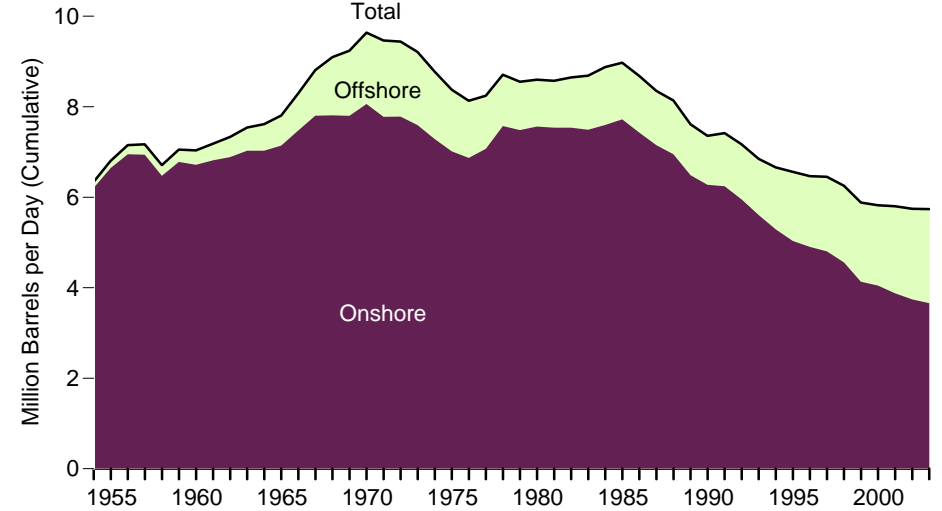
Sources: • 1949-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.2 Crude Oil Production and Crude Oil Well Productivity, 1954-2003

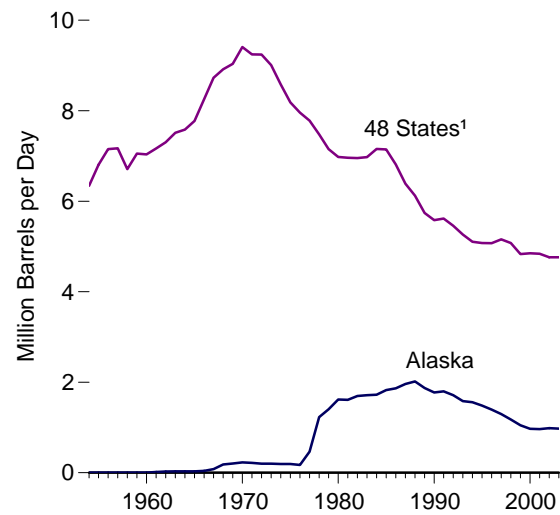
By Geographic Location



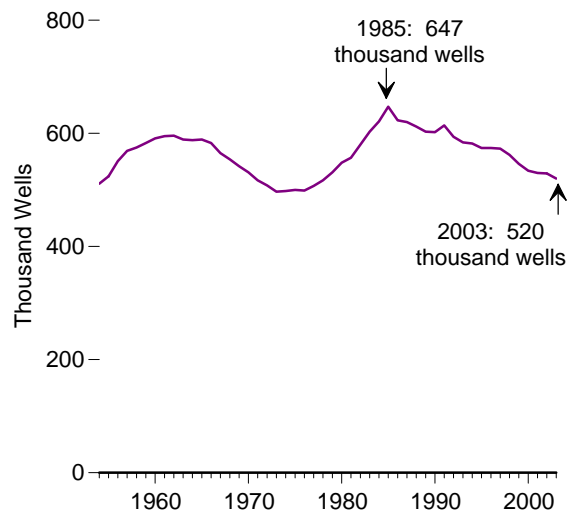
By Site



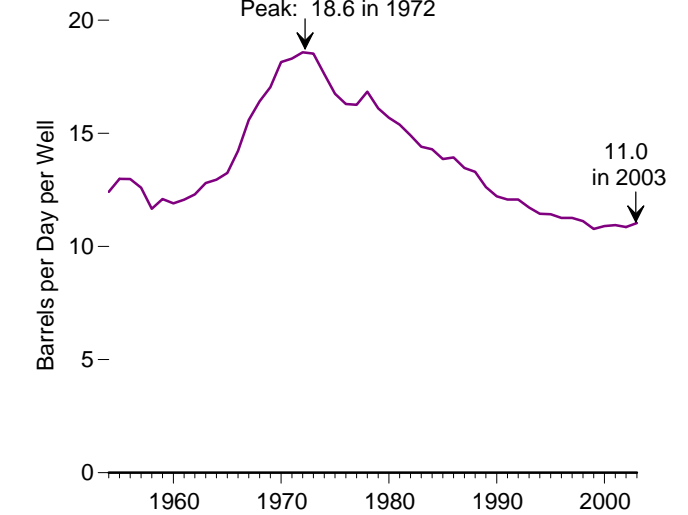
48 States¹ and Alaska



Number of Producing Wells



Average Productivity



¹ United States excluding Alaska and Hawaii.
Note: Crude oil includes lease condensate.

Source: Table 5.2.

Table 5.2 Crude Oil Production and Crude Oil Well Productivity, 1954-2003
(Thousand Barrels per Day, Except as Noted)

Year	Geographic Location		Site		Type		Total Production	Crude Oil Well ¹ Productivity	
	48 States ²	Alaska	Onshore	Offshore	Crude Oil	Lease Condensate		Producing Wells ³ (thousands)	Average Productivity ⁴ (barrels per day per well)
1954	6,342	0	6,209	133	6,342	(⁵)	6,342	511	12.4
1955	6,807	0	6,645	162	6,807	(⁵)	6,807	524	13.0
1956	7,151	0	6,951	201	7,151	(⁵)	7,151	551	13.0
1957	7,170	0	6,940	229	7,170	(⁵)	7,170	569	12.6
1958	6,710	0	6,473	236	6,710	(⁵)	6,710	575	11.7
1959	7,053	1	6,779	274	7,054	(⁵)	7,054	583	12.1
1960	7,034	2	6,716	319	7,035	(⁵)	7,035	591	11.9
1961	7,166	17	6,817	365	7,183	(⁵)	7,183	595	12.1
1962	7,304	28	6,888	444	7,332	(⁵)	7,332	596	12.3
1963	7,512	29	7,026	515	7,542	(⁵)	7,542	589	12.8
1964	7,584	30	7,027	587	7,614	(⁵)	7,614	588	12.9
1965	7,774	30	7,140	665	7,804	(⁵)	7,804	589	13.2
1966	8,256	39	7,473	823	8,295	(⁵)	8,295	583	14.2
1967	8,730	80	7,802	1,009	8,810	(⁵)	8,810	565	15.6
1968	8,915	181	7,808	1,287	8,660	436	9,096	554	16.4
1969	9,035	203	7,797	1,441	8,778	460	9,238	542	17.0
1970	9,408	229	8,060	1,577	9,180	457	9,637	531	18.1
1971	9,245	218	7,779	1,684	9,032	431	9,463	517	18.3
1972	9,242	199	7,780	1,660	8,998	443	9,441	508	18.6
1973	9,010	198	7,592	1,616	8,784	424	9,208	497	18.5
1974	8,581	193	7,285	1,489	8,375	399	8,774	498	17.6
1975	8,183	191	7,012	1,362	8,007	367	8,375	500	16.8
1976	7,958	173	6,868	1,264	7,776	356	8,132	499	16.3
1977	7,781	464	7,069	1,176	7,875	370	8,245	507	16.3
1978	7,478	1,229	7,571	1,136	8,353	355	8,707	517	16.8
1979	7,151	1,401	7,485	1,067	8,181	371	8,552	531	16.1
1980	6,980	1,617	7,562	1,034	8,210	386	8,597	548	15.7
1981	6,962	1,609	7,537	1,034	8,176	395	8,572	557	15.4
1982	6,953	1,696	7,538	1,110	8,261	387	8,649	580	14.9
1983	6,974	1,714	7,492	1,196	8,688	(⁵)	8,688	603	14.4
1984	7,157	1,722	7,596	1,283	8,879	(⁵)	8,879	621	14.3
1985	7,146	1,825	7,722	1,250	8,971	(⁵)	8,971	647	13.9
1986	6,814	1,867	7,426	1,254	8,680	(⁵)	8,680	623	13.9
1987	6,387	1,962	7,153	1,196	8,349	(⁵)	8,349	620	13.5
1988	6,123	2,017	6,949	1,191	8,140	(⁵)	8,140	612	13.3
1989	5,739	1,874	6,486	1,127	7,613	(⁵)	7,613	603	12.6
1990	5,582	1,773	6,273	1,082	7,355	(⁵)	7,355	602	12.2
1991	5,618	1,798	6,245	1,172	7,417	(⁵)	7,417	614	12.1
1992	5,457	1,714	5,953	1,218	7,171	(⁵)	7,171	594	12.1
1993	5,264	1,582	5,606	1,241	6,847	(⁵)	6,847	584	11.7
1994	5,103	1,559	5,291	1,370	6,662	(⁵)	6,662	582	11.4
1995	5,076	1,484	5,035	1,525	6,560	(⁵)	6,560	574	11.4
1996	5,071	1,393	4,902	1,562	6,465	(⁵)	6,465	574	11.3
1997	5,156	1,296	4,803	1,648	6,452	(⁵)	6,452	573	11.3
1998	5,077	1,175	4,560	1,692	6,252	(⁵)	6,252	562	11.1
1999	4,832	1,050	4,132	1,750	5,881	(⁵)	5,881	546	10.8
2000	4,851	970	4,049	1,773	5,822	(⁵)	5,822	534	10.9
2001	4,839	963	3,879	1,923	5,801	(⁵)	5,801	530	10.9
2002	R ⁴ 4,761	984	R ³ 3,743	R ² 2,003	R ⁵ 5,746	(⁵)	R ⁵ 5,746	R ⁵ 529	R ¹⁰ 10.9
2003	P ⁴ 4,763	P ⁹ 74	E ³ 3,657	E ² 2,080	P ⁵ 5,737	(⁵)	P ⁵ 5,737	P ⁵ 520	P ¹¹ 10.0

¹ See "Crude Oil Well" in Glossary.

² United States excluding Alaska and Hawaii.

³ As of December 31.

⁴ Through 1976, average productivity is based on the average number of producing wells. Beginning in 1977, average productivity is based on the number of wells producing at end of year.

⁵ Included in "Crude Oil."

R=Revised. P=Preliminary. E=Estimate.

Note: Totals may not equal sum of components due to independent rounding.

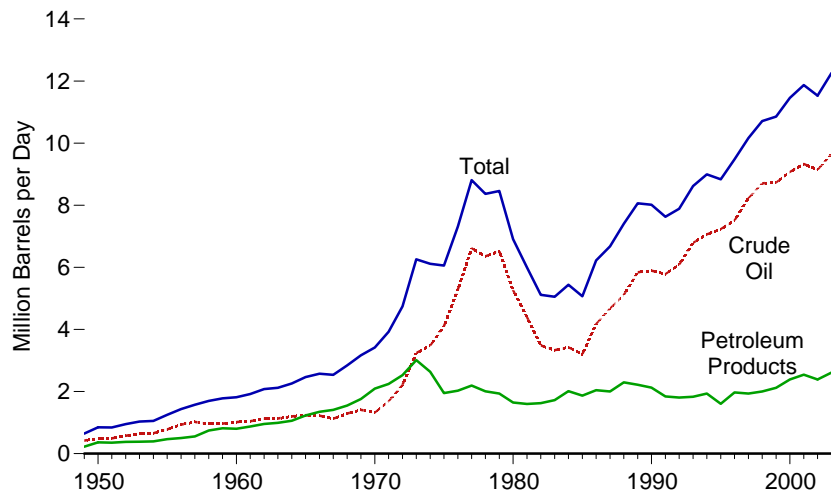
Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.

Sources: **Onshore:** • 1954-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports.

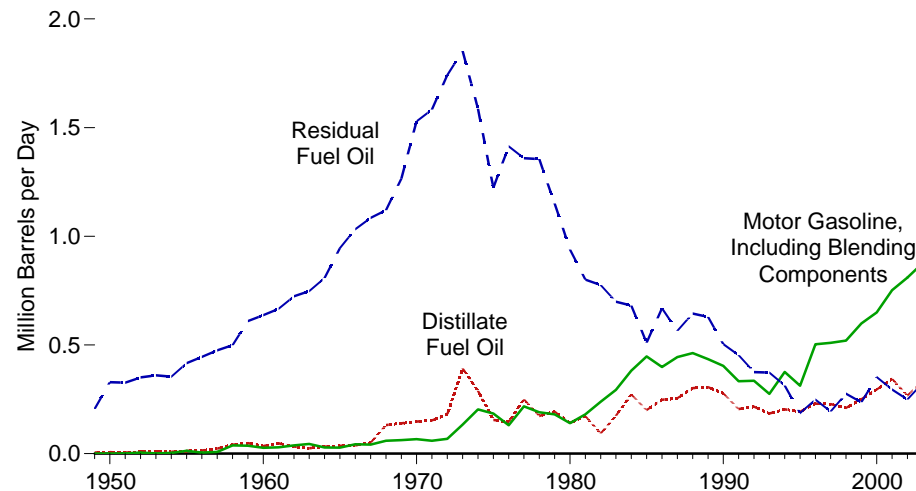
reports. • 2003—EIA estimate. **Offshore:** • 1954-1969—U.S. Geological Survey, *Outer Continental Shelf Statistics* (June 1979). • 1970-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—EIA, Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA estimate. **Producing Wells:** • 1954-1975—Bureau of Mines, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter. • 1976-1980—EIA, Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-1994—Independent Petroleum Association of America, *The Oil Producing Industry in Your State*. • 1995 forward—Gulf Publishing Co., *World Oil*, February issues. **All Other Data:** • 1954-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—EIA, Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.3 Petroleum Imports by Type

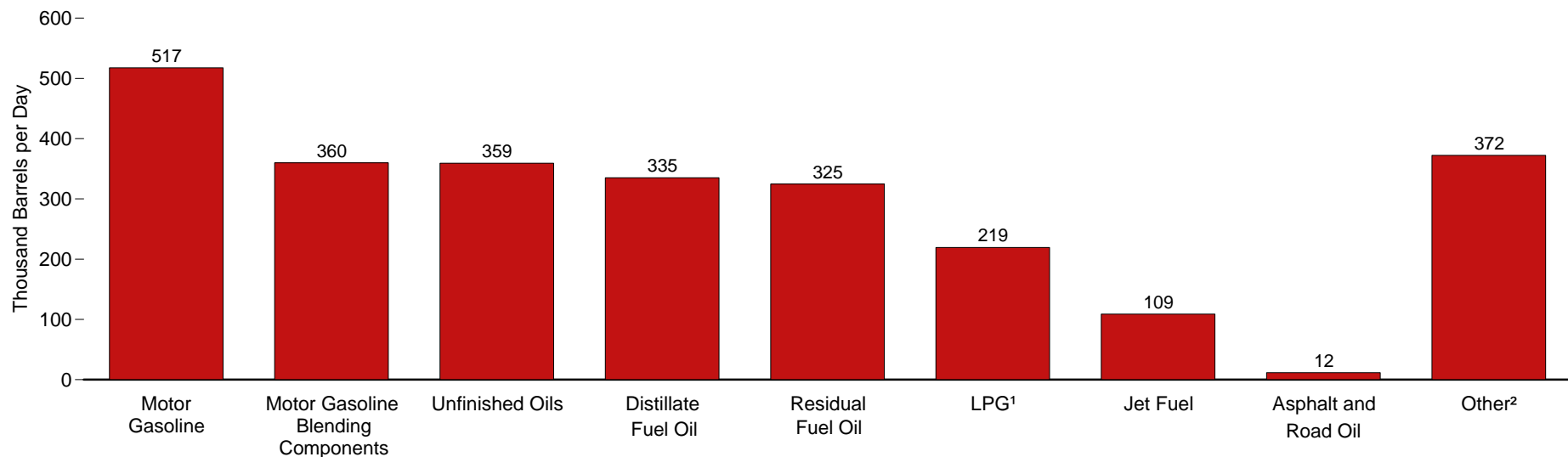
Total, 1949-2003



By Selected Product, 1949-2003



By Product, 2003



¹ Liquefied petroleum gases.

² Aviation gasoline and blending components, other hydrocarbons/oxygenates (ethers and alcohols), kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, wax, and miscellaneous products.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 5.3.

Table 5.3 Petroleum Imports by Type, Selected Years, 1949-2003

(Thousand Barrels per Day)

Year	Crude Oil ¹	Petroleum Products											Total Petroleum
		Asphalt and Road Oil	Distillate Fuel Oil	Jet Fuel ²	Liquefied Petroleum Gases		Motor Gasoline ⁴	Motor Gasoline Blending Components	Residual Fuel Oil	Unfinished Oils	Other Products ⁵	Total	
					Propane ³	Total							
1949	421	3	5	(²)	0	0	0	0	206	10	0	224	645
1950	487	5	7	(²)	0	0	(s)	(⁶)	329	21	1	363	850
1955	782	9	12	(²)	0	0	13	(⁶)	417	15	0	466	1,248
1960	1,015	17	35	34	NA	4	27	(⁶)	637	45	(s)	799	1,815
1965	1,238	17	36	81	NA	21	28	(⁶)	946	92	10	1,229	2,468
1970	1,324	17	147	144	26	52	67	(⁶)	1,528	108	32	2,095	3,419
1971	1,681	20	153	180	32	70	59	(⁶)	1,583	124	56	2,245	3,926
1972	2,216	25	182	194	43	89	68	(⁶)	1,742	125	101	2,525	4,741
1973	3,244	23	392	212	71	132	134	(⁶)	1,853	137	129	3,012	6,256
1974	3,477	31	289	163	59	123	204	(⁶)	1,587	121	117	2,635	6,112
1975	4,105	14	155	133	60	112	184	(⁶)	1,223	36	95	1,951	6,056
1976	5,287	11	146	76	68	130	131	(⁶)	1,413	32	87	2,026	7,313
1977	6,615	4	250	75	86	161	217	(⁶)	1,359	31	95	2,193	8,807
1978	6,356	2	173	86	57	123	190	(⁶)	1,355	27	50	2,008	8,363
1979	6,519	4	193	78	88	217	181	(⁶)	1,151	59	54	1,937	8,456
1980	5,263	4	142	80	69	216	140	(⁶)	939	55	72	1,646	6,909
1981	4,396	4	173	38	70	244	157	24	800	112	48	1,599	5,996
1982	3,488	5	93	29	63	226	197	42	776	174	84	1,625	5,113
1983	3,329	7	174	29	44	190	247	47	699	234	94	1,722	5,051
1984	3,426	18	272	62	67	195	299	83	681	231	171	2,011	5,437
1985	3,201	35	200	39	67	187	381	67	510	318	130	1,866	5,067
1986	4,178	29	247	57	110	242	326	72	669	250	153	2,045	6,224
1987	4,674	36	255	67	88	190	384	60	565	299	146	2,004	6,678
1988	5,107	31	302	90	106	209	405	57	644	360	196	2,295	7,402
1989	5,843	31	306	106	111	181	369	66	629	348	183	2,217	8,061
1990	5,894	32	278	108	115	188	342	62	504	413	198	2,123	8,018
1991	5,782	28	205	67	91	147	297	36	453	413	198	1,844	7,627
1992	6,083	27	216	82	85	131	294	41	375	443	195	1,805	7,888
1993	6,787	32	184	100	103	160	247	27	373	491	219	1,833	8,620
1994	7,063	37	203	117	124	183	356	20	314	413	291	1,933	8,996
1995	7,230	36	193	106	102	146	265	48	187	349	276	1,605	8,835
1996	7,508	27	230	111	119	166	336	166	248	367	319	1,971	9,478
1997	8,225	32	228	91	113	169	309	200	194	353	360	1,936	10,162
1998	8,706	28	210	124	137	194	311	209	275	302	350	2,002	10,708
1999	8,731	34	250	128	122	182	382	217	237	317	375	2,122	10,852
2000	9,071	28	295	162	161	215	427	223	352	274	414	2,389	11,459
2001	9,328	26	344	148	140	206	454	298	295	378	393	2,543	11,871
2002	^R 9,140	27	^R 267	^R 107	^R 145	^R 183	^R 498	^R 311	^R 249	^R 410	^R 337	^R 2,390	^R 11,530
2003 ^P	9,646	12	335	109	162	219	517	360	325	359	372	2,608	12,254

¹ Includes any imports for the Strategic Petroleum Reserve, which began in 1977.

² Through 1955, naphtha-type jet fuel is included in "Motor Gasoline." Through 1964, kerosene-type jet fuel is included with kerosene in "Other Products."

³ Includes propylene.

⁴ Finished motor gasoline. Through 1955, also includes naphtha-type jet fuel. Through 1963, also includes aviation gasoline and special naphthas. Through 1980, also includes motor gasoline blending components.

⁵ Aviation gasoline blending components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, waxes, other hydrocarbons and oxygenates, and miscellaneous products. Through 1964, also includes kerosene-type jet fuel. Beginning in 1964, also includes aviation gasoline and special naphthas.

⁶ Included in "Motor Gasoline."

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 500 barrels per day.

Notes: • Includes imports from U.S. possessions and territories. • Totals may not equal sum of components due to independent rounding.

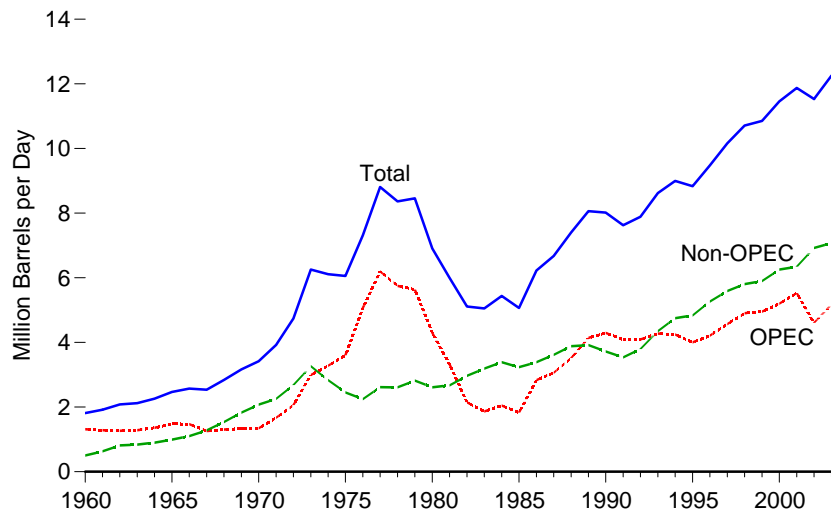
Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

• For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html.

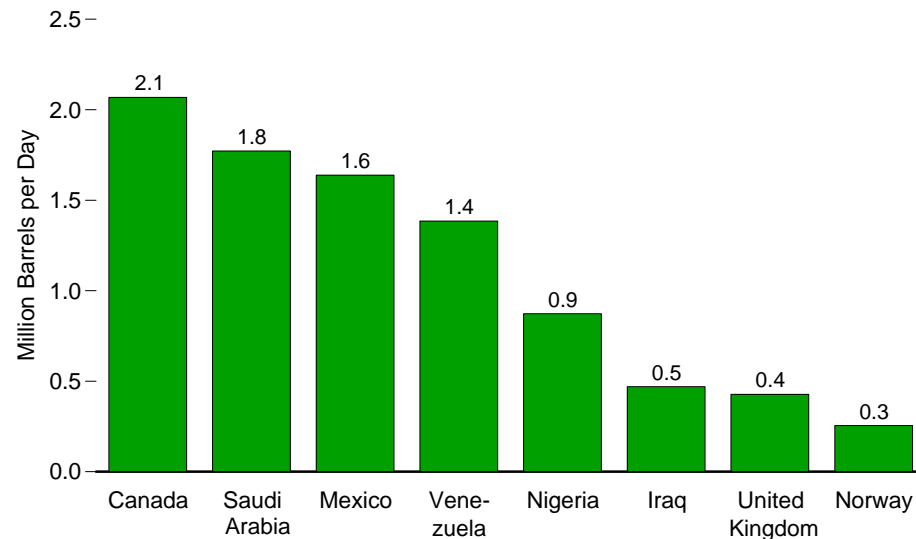
Sources: • 1949-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.4 Petroleum Imports by Country of Origin

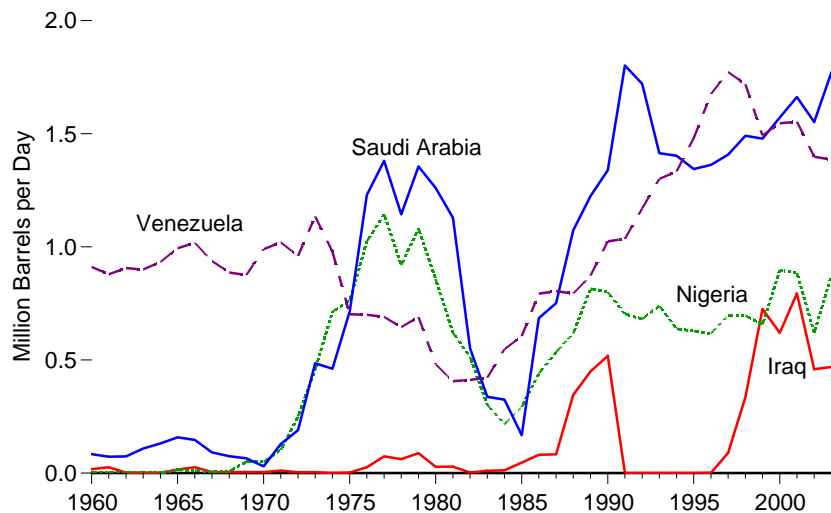
Total, OPEC, and Non-OPEC, 1960-2003



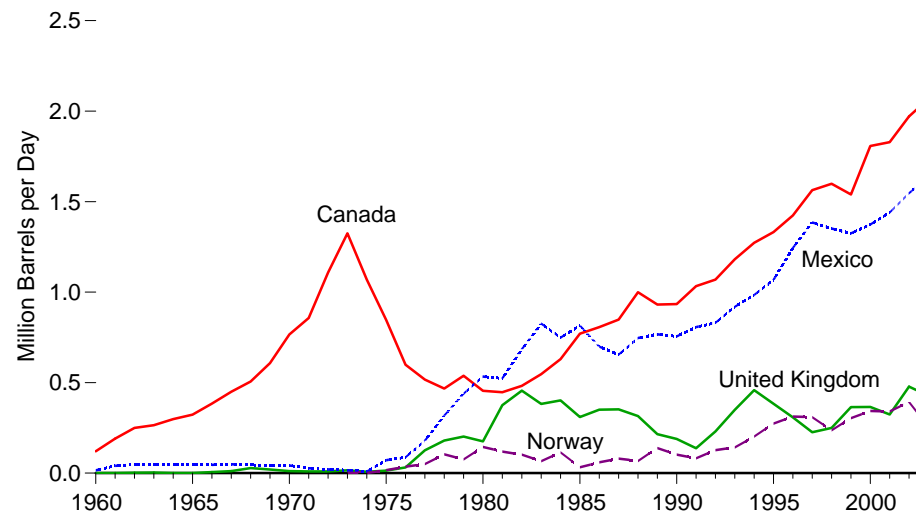
Selected Countries, 2003



Selected OPEC Countries, 1960-2003



Selected Non-OPEC Countries, 1960-2003



Note: Because vertical scales differ, graphs should not be compared.

Source: Table 5.4.

Table 5.4 Petroleum Imports by Country of Origin, 1960-2003

Year	Persian Gulf Nations ²	Selected OPEC ¹ Countries					Selected Non-OPEC Countries						Total Imports	Imports From Persian Gulf Nations as Share of Total Imports	Imports From OPEC as Share of Total Imports
		Iraq	Nigeria	Saudi Arabia	Venezuela	Total OPEC ³	Canada	Colombia	Mexico	Norway	United Kingdom	Total Non-OPEC ³			
Thousand Barrels per Day													Percent		
1960	NA	17	0	84	911	1,314	120	40	16	0	(s)	500	1,815	NA	72.4
1961	346	25	0	73	879	1,286	190	28	40	0	1	631	1,917	18.0	67.1
1962	272	2	0	74	906	1,265	250	24	49	0	2	816	2,082	13.0	60.8
1963	303	1	0	108	900	1,283	265	23	48	0	3	839	2,123	14.3	60.5
1964	315	1	0	131	933	1,361	299	26	47	0	(s)	898	2,259	13.9	60.2
1965	345	16	15	158	994	1,476	323	42	48	0	(s)	992	2,468	14.0	59.8
1966	306	26	11	147	1,018	1,471	384	40	45	0	6	1,102	2,573	11.9	57.2
1967	198	5	5	92	938	1,259	450	32	49	0	11	1,278	2,537	7.8	49.6
1968	202	5	9	74	886	1,302	506	33	45	0	28	1,538	2,840	7.1	45.9
1969	179	5	49	65	875	1,336	608	43	43	0	20	1,830	3,166	5.7	42.2
1970	121	5	50	30	989	1,343	766	20	42	0	11	2,076	3,419	3.5	39.3
1971	299	11	102	128	1,020	1,673	857	9	27	0	10	2,253	3,926	7.6	42.6
1972	471	4	251	190	959	2,063	1,108	5	21	0	9	2,678	4,741	9.9	43.5
1973	848	4	459	486	1,135	2,993	1,325	9	16	1	15	3,263	6,256	13.6	47.8
1974	1,039	0	713	461	979	3,280	1,070	5	8	1	8	2,832	6,112	17.0	53.7
1975	1,165	2	762	715	702	3,601	846	9	71	17	14	2,454	6,056	19.2	59.5
1976	1,840	26	1,025	1,230	700	5,066	599	21	87	36	31	2,247	7,313	25.2	69.3
1977	2,448	74	1,143	1,380	690	6,193	517	17	179	50	126	2,614	8,807	27.8	70.3
1978	2,219	62	919	1,144	646	5,751	467	20	318	104	180	2,612	8,363	26.5	68.8
1979	2,069	88	1,080	1,356	690	5,637	538	18	439	75	202	2,819	8,456	24.5	66.7
1980	1,519	28	857	1,261	481	4,300	455	4	533	144	176	2,609	6,909	22.0	62.2
1981	1,219	(s)	620	1,129	406	3,323	447	1	522	119	375	2,672	5,996	20.3	55.4
1982	696	3	514	552	412	2,146	482	5	685	102	456	2,968	5,113	13.6	42.0
1983	442	10	302	337	422	1,862	547	10	826	66	382	3,189	5,051	8.8	36.9
1984	506	12	216	325	548	2,049	630	8	748	114	402	3,388	5,437	9.3	37.7
1985	311	46	293	168	605	1,830	770	23	816	32	310	3,237	5,067	6.1	36.1
1986	912	81	440	685	793	2,837	807	87	699	60	350	3,387	6,224	14.7	45.6
1987	1,077	83	535	751	804	3,060	848	148	655	80	352	3,617	6,678	16.1	45.8
1988	1,541	345	618	1,073	794	3,520	999	134	747	67	315	3,882	7,402	20.8	47.6
1989	1,861	449	815	1,224	873	4,140	931	172	767	138	215	3,921	8,061	23.1	51.4
1990	1,966	518	800	1,339	1,025	4,296	934	182	755	102	189	3,721	8,018	24.5	53.6
1991	1,845	0	703	1,802	1,035	4,092	1,033	163	807	82	138	3,535	7,627	24.2	53.7
1992	1,778	0	681	1,720	1,170	4,092	1,069	126	830	127	230	3,796	7,888	22.5	51.9
1993	1,782	0	740	1,414	1,300	4,273	1,181	171	919	142	350	4,347	8,620	20.7	49.6
1994	1,728	0	637	1,402	1,334	4,247	1,272	161	984	202	458	4,749	8,996	19.2	47.2
1995	1,573	0	627	1,344	1,480	4,002	1,332	219	1,068	273	383	4,833	8,835	17.8	45.3
1996	1,604	1	617	1,363	1,676	4,211	1,424	234	1,244	313	308	5,267	9,478	16.9	44.4
1997	1,755	89	698	1,407	1,773	4,569	1,563	271	1,385	309	226	5,593	10,162	17.3	45.0
1998	2,136	336	696	1,491	1,719	4,905	1,598	354	1,351	236	250	5,803	10,708	19.9	45.8
1999	2,464	725	657	1,478	1,493	4,953	1,539	468	1,324	304	365	5,899	10,852	22.7	45.6
2000	2,487	620	896	1,572	1,546	5,203	1,807	342	1,373	343	366	6,257	11,459	21.7	45.4
2001	2,761	795	885	1,662	1,553	5,528	1,828	296	1,440	341	324	6,343	11,871	23.3	46.6
2002	^R 2,269	^R 459	^R 621	^R 1,552	^R 1,398	^R 4,605	^R 1,971	^R 260	^R 1,547	^R 393	^R 478	^R 6,925	^R 11,530	^R 19.7	^R 39.9
2003 ^P	2,484	470	873	1,772	1,385	5,175	2,068	191	1,639	255	428	7,079	12,254	20.3	42.2

¹ Organization of Petroleum Exporting Countries. See Glossary for current membership.

² Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

³ Ecuador withdrew from OPEC on December 31, 1992. Through 1992, Ecuador is included in "Total OPEC"; beginning in 1993, Ecuador is included in "Total Non-OPEC." Gabon withdrew from OPEC on December 31, 1994. Through 1994, Gabon is included in "Total OPEC"; beginning in 1995, Gabon is included in "Total Non-OPEC."

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 500 barrels per day.

Notes: • The country of origin for refined petroleum products may not be the country of origin for the crude oil from which the refined products were produced. For example, refined products imported from

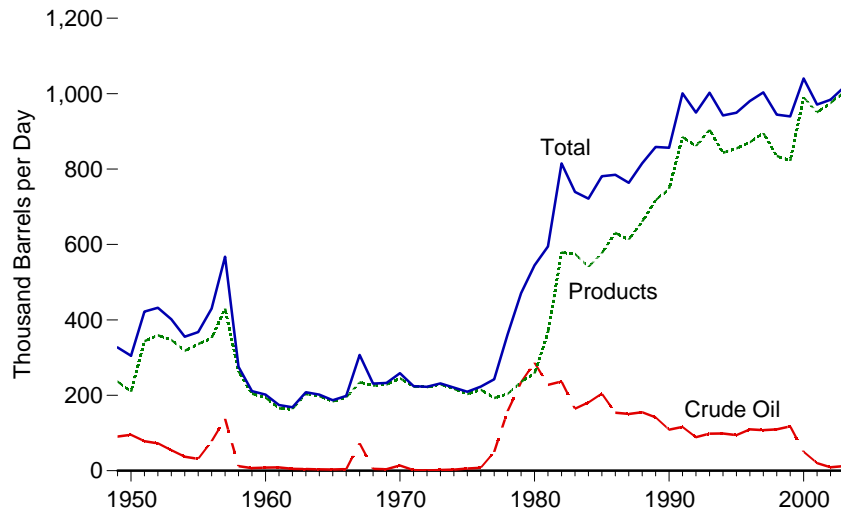
refineries in the Caribbean may have been produced from Middle East crude oil. • Data include any imports for the Strategic Petroleum Reserve, which began in 1977. • Totals may not equal sum of components due to independent rounding.

Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.

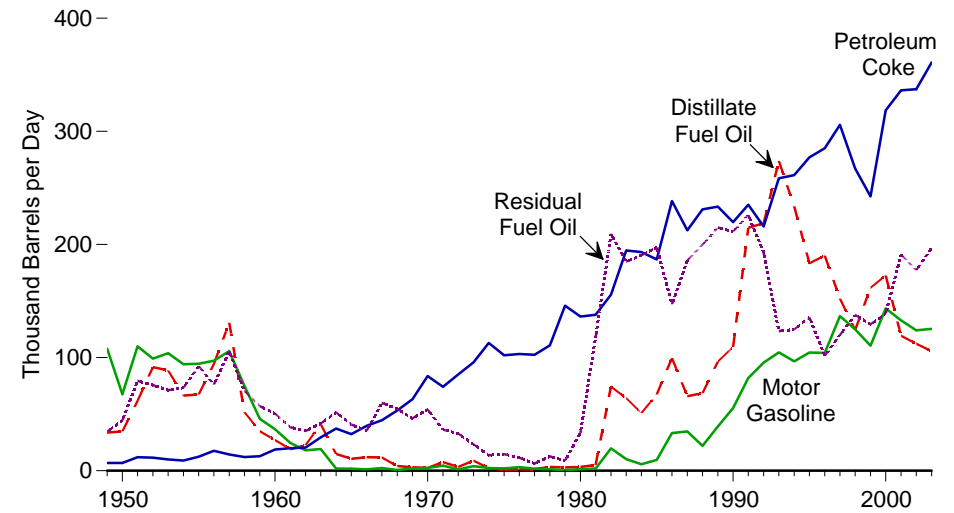
Sources: • 1960-1975—Bureau of Mines, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter. • 1976-1980—Energy Information Administration (EIA), Energy Data Reports, *P.A.D. Districts Supply/Demand, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.5 Petroleum Exports by Type

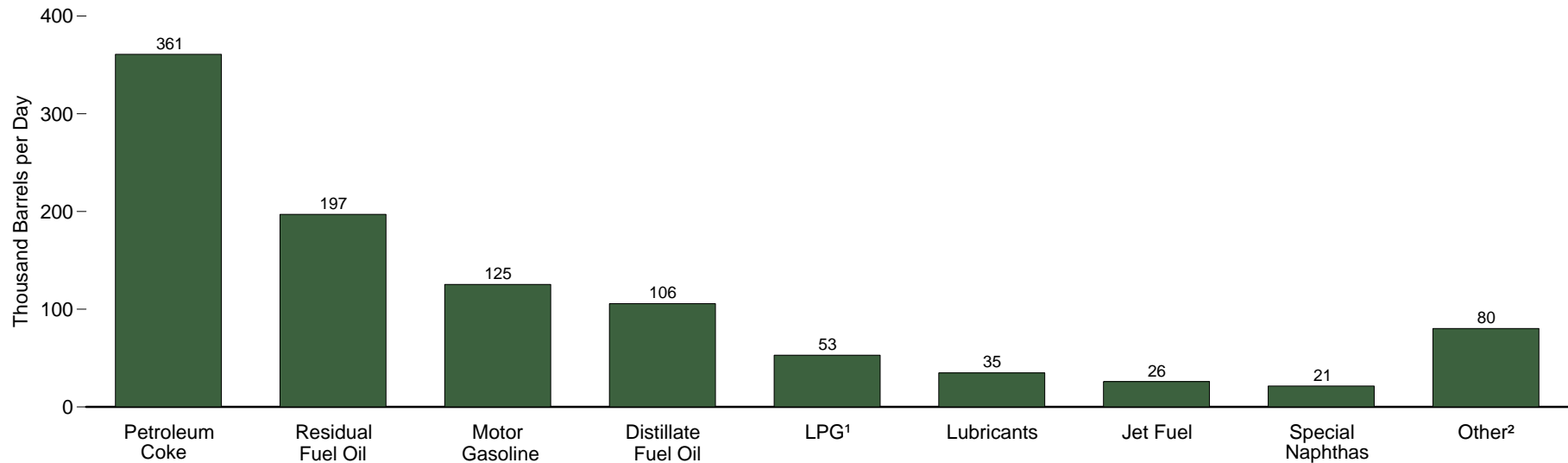
Total, 1949-2003



By Selected Product 1949-2003



By Product, 2003



¹ Liquefied petroleum gases.

² Asphalt and road oil, aviation gasoline, kerosene, motor gasoline blending components, pentanes plus, waxes, other hydrocarbons and oxygenates, and miscellaneous products.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 5.5.

Table 5.5 Petroleum Exports by Type, Selected Years, 1949-2003
(Thousand Barrels per Day)

Year	Crude Oil	Petroleum Products											Total Petroleum	
		Distillate Fuel Oil	Jet Fuel ¹	Liquefied Petroleum Gases		Lubricants	Motor Gasoline ³	Petroleum Coke	Petrochemical Feedstocks	Residual Fuel Oil	Special Naphthas	Other Products ⁴		Total
				Propane ²	Total									
1949	91	34	(¹)	NA	4	35	108	7	0	35	NA	15	236	327
1950	95	35	(¹)	NA	4	39	68	7	0	44	NA	12	210	305
1955	32	67	(s)	NA	12	39	95	12	0	93	NA	18	336	368
1960	8	27	(s)	NA	8	43	37	19	0	51	NA	9	193	202
1965	3	10	3	NA	21	45	2	32	5	41	4	20	184	187
1970	14	2	6	6	27	44	2	84	10	54	4	10	245	259
1971	1	8	4	13	26	43	5	74	14	36	4	9	223	224
1972	1	3	3	18	31	41	1	85	13	33	4	8	222	222
1973	2	9	4	15	27	35	4	96	19	23	5	8	229	231
1974	3	2	3	14	25	33	2	113	15	14	4	7	218	221
1975	6	1	2	13	26	25	2	102	22	15	3	6	204	209
1976	8	1	2	13	25	26	3	103	30	12	7	6	215	223
1977	50	1	2	10	18	26	2	102	24	6	4	7	193	243
1978	158	3	1	9	20	27	1	111	23	13	2	2	204	362
1979	235	3	1	8	15	23	(s)	146	31	9	5	3	236	471
1980	287	3	1	10	21	23	1	136	29	33	5	4	258	544
1981	228	5	2	18	42	19	2	138	26	118	11	4	367	595
1982	236	74	6	31	65	16	20	156	24	209	5	4	579	815
1983	164	64	6	43	73	16	10	195	20	185	3	3	575	739
1984	181	51	9	30	48	15	6	193	21	190	2	6	541	722
1985	204	67	13	48	62	15	10	187	19	197	1	4	577	781
1986	154	100	18	28	42	23	33	238	22	147	1	8	631	785
1987	151	66	24	24	38	23	35	213	20	186	2	7	613	764
1988	155	69	28	31	49	26	22	231	23	200	7	6	661	815
1989	142	97	27	24	35	19	39	233	26	215	12	15	717	859
1990	109	109	43	28	40	20	55	220	26	211	11	13	748	857
1991	116	215	43	28	41	18	82	235	0	226	15	9	885	1,001
1992	89	219	43	33	49	16	96	216	0	193	14	16	861	950
1993	98	274	59	26	43	19	105	258	0	123	4	20	904	1,003
1994	99	234	20	24	38	22	97	261	0	125	20	26	843	942
1995	95	183	26	38	58	25	104	277	0	136	21	25	855	949
1996	110	190	48	28	51	34	104	285	0	102	21	36	871	981
1997	108	152	35	32	50	31	137	306	0	120	22	44	896	1,003
1998	110	124	26	25	42	25	125	267	0	138	18	70	835	945
1999	118	162	32	33	50	28	111	242	0	129	16	52	822	940
2000	50	173	32	53	74	26	144	319	0	139	20	64	990	1,040
2001	20	119	29	31	44	26	133	336	0	191	23	50	951	971
2002	9	112	15	^R 55	^R 67	33	124	337	0	177	15	94	^R 975	^R 984
2003 ^P	12	106	26	36	53	35	125	361	0	197	21	80	1,005	1,017

¹ Through 1952, naphtha-type jet fuel is included in the products from which it was blended: gasoline, kerosene, and distillate fuel oil. Through 1964, kerosene-type jet fuel is included with kerosene in "Other Products."

² Includes propylene.

³ Finished motor gasoline. Through 1963, also includes aviation gasoline.

⁴ Asphalt and road oil, kerosene, motor gasoline blending components, pentanes plus, waxes, other hydrocarbons and oxygenates, and miscellaneous products. Through 1964, also includes kerosene-type jet fuel. Beginning in 1964, also includes aviation gasoline.

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 500 barrels per day.

Notes: • Includes exports to U.S. possessions and territories. • Totals may not equal sum of components due to independent rounding.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

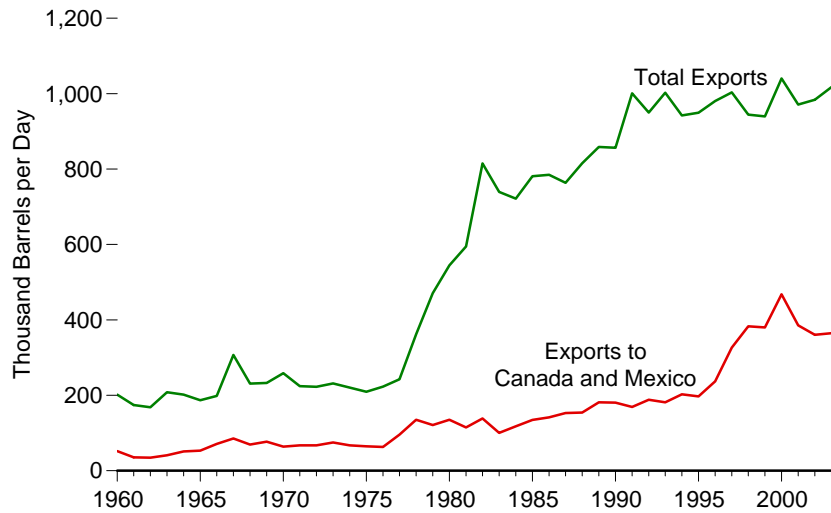
• For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html.

Sources: • 1949-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports.

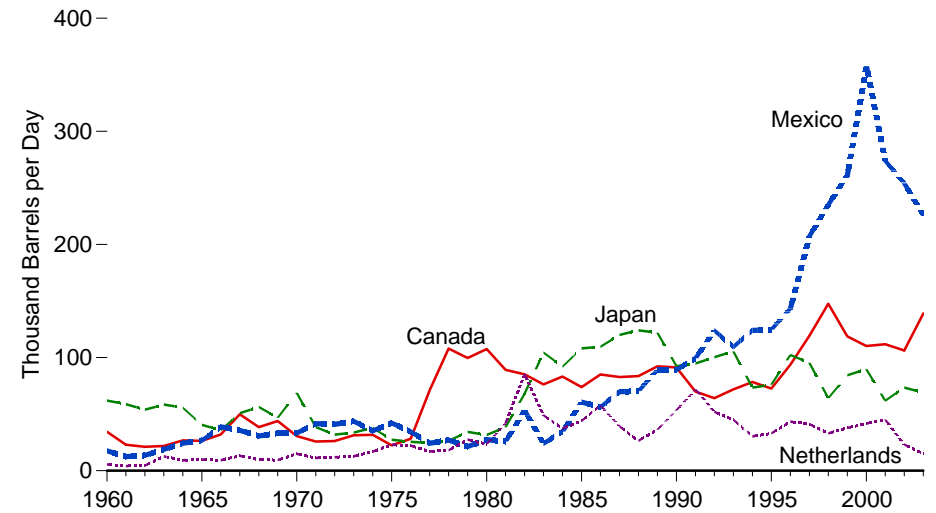
• 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.6 Petroleum Exports by Country of Destination

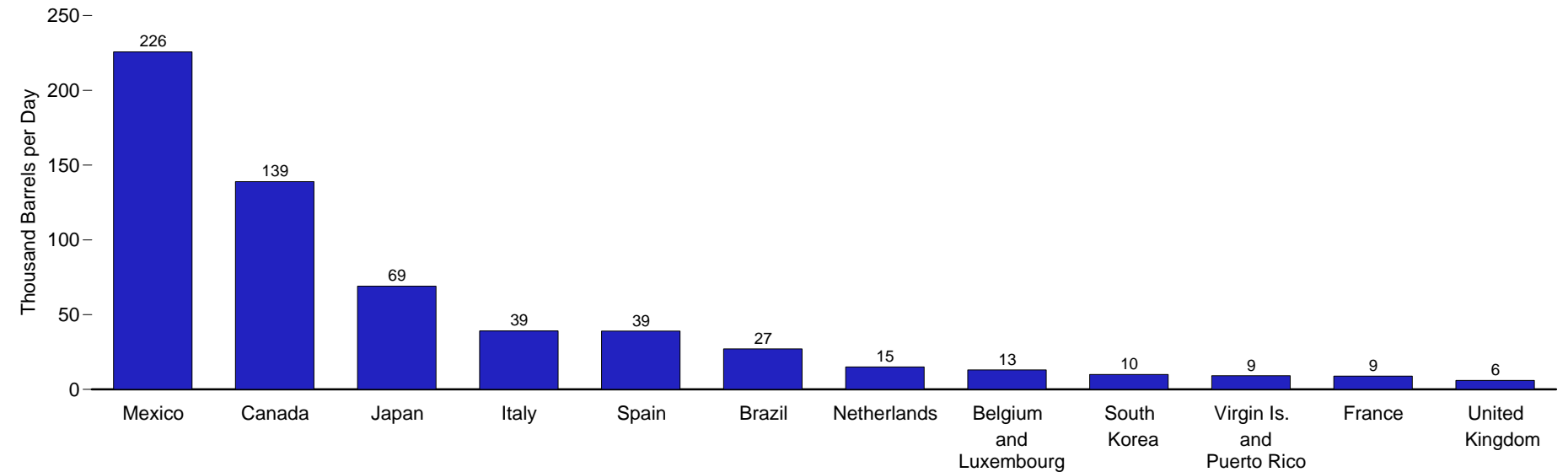
Total Exports and Exports to Canada and Mexico, 1960-2003



By Selected Country, 1960-2003



By Selected Country, 2003



Note: Because vertical scales differ, graphs should not be compared.

Source: Table 5.6.

Table 5.6 Petroleum Exports by Country of Destination, 1960-2003
(Thousand Barrels per Day)

Year	Belgium and Luxembourg	Brazil	Canada	France	Italy	Japan	Mexico	Netherlands	South Korea	Spain	United Kingdom	U.S. Virgin Islands and Puerto Rico	Other	Total
1960	3	4	34	4	6	62	18	6	NA	NA	12	1	52	202
1961	4	4	23	4	5	59	12	4	NA	NA	10	1	48	174
1962	3	5	21	3	5	54	14	5	NA	NA	8	1	50	168
1963	9	4	22	4	8	58	19	13	NA	NA	11	1	59	208
1964	4	4	27	4	8	56	24	9	NA	NA	10	2	55	202
1965	3	3	26	3	7	40	27	10	NA	NA	12	1	54	187
1966	3	4	32	4	7	36	39	9	NA	NA	12	3	49	198
1967	5	6	50	3	9	51	36	13	NA	NA	62	7	65	307
1968	4	8	39	4	8	56	31	10	NA	NA	14	2	55	231
1969	4	7	44	4	9	47	33	9	NA	NA	13	2	59	233
1970	5	7	31	5	10	69	33	15	NA	NA	12	2	71	259
1971	7	9	26	5	8	39	42	11	NA	NA	9	3	67	224
1972	13	9	26	5	9	32	41	12	NA	4	10	4	59	222
1973	15	8	31	5	9	34	44	13	NA	4	9	3	56	231
1974	13	9	32	4	9	38	35	17	NA	4	6	6	48	221
1975	9	6	22	6	10	27	42	23	NA	4	7	12	40	209
1976	12	7	28	6	10	25	35	22	NA	4	13	22	39	223
1977	16	6	71	9	10	25	24	17	NA	5	9	11	39	243
1978	15	8	108	9	10	26	27	18	NA	5	7	86	42	362
1979	19	7	100	13	15	34	21	28	2	9	7	170	45	471
1980	20	4	108	11	14	32	28	23	2	8	7	220	70	544
1981	12	1	89	15	22	38	26	42	10	18	5	220	97	595
1982	17	8	85	24	32	68	53	85	28	24	14	212	165	815
1983	22	2	76	23	35	104	24	49	15	34	8	144	202	739
1984	21	1	83	18	39	92	35	37	17	29	14	152	182	722
1985	26	3	74	11	30	108	61	44	27	28	14	162	193	781
1986	30	3	85	11	39	110	56	58	12	39	8	113	222	785
1987	17	2	83	12	42	120	70	39	25	31	6	136	179	764
1988	25	3	84	12	29	124	70	26	24	36	9	147	226	815
1989	23	5	92	11	37	122	89	36	17	28	9	141	249	859
1990	20	2	91	17	48	92	89	54	60	33	11	101	240	857
1991	22	13	70	27	55	95	99	72	66	23	13	117	330	1,001
1992	22	20	64	9	38	100	124	52	80	21	12	95	315	950
1993	21	16	72	8	34	105	110	45	74	30	10	108	370	1,003
1994	26	15	78	11	35	74	124	30	66	30	10	104	338	942
1995	21	16	73	11	46	76	125	33	57	38	14	123	317	949
1996	27	29	94	18	32	102	143	43	60	34	9	72	318	981
1997	21	15	119	11	30	95	207	41	50	42	12	18	340	1,003
1998	14	18	148	8	30	64	235	33	33	30	11	4	317	945
1999	11	27	119	7	25	84	261	38	49	26	9	8	276	940
2000	14	28	110	10	34	90	358	42	20	40	10	10	277	1,040
2001	16	23	112	13	33	62	274	45	14	51	13	4	312	971
2002	19	26	106	12	29	R74	R254	23	11	54	12	9	354	R984
2003 ^P	13	27	139	9	39	69	226	15	10	39	6	9	416	1,017

R=Revised. P=Preliminary. NA=Not available.

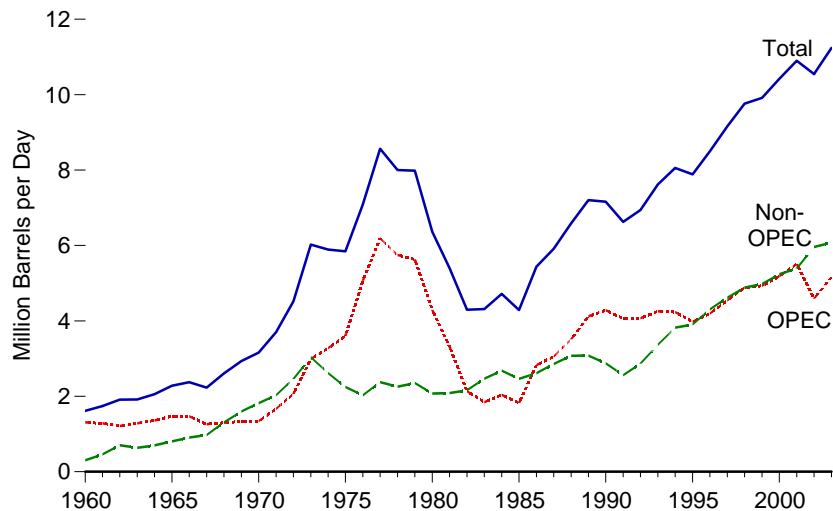
Note: Totals may not equal sum of components due to independent rounding.

Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.

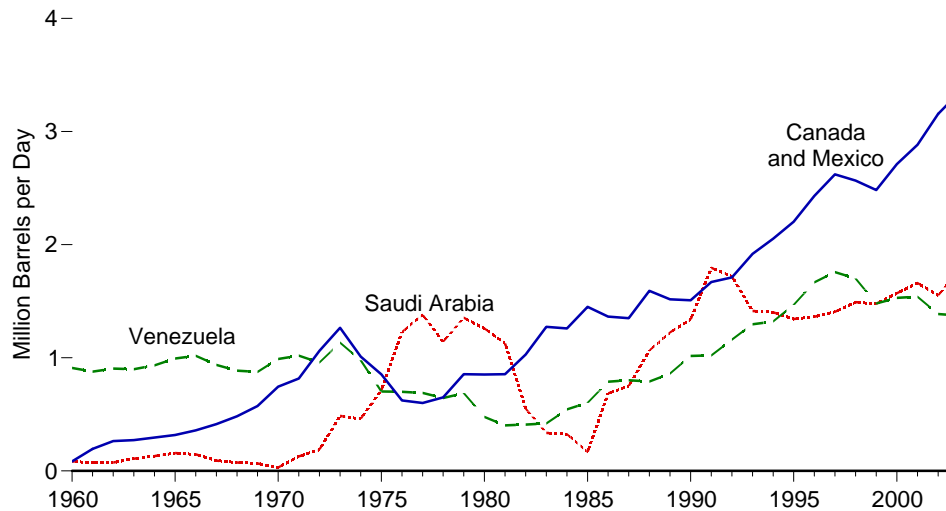
Sources: • 1960-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.7 Petroleum Net Imports by Country of Origin, 1960-2003

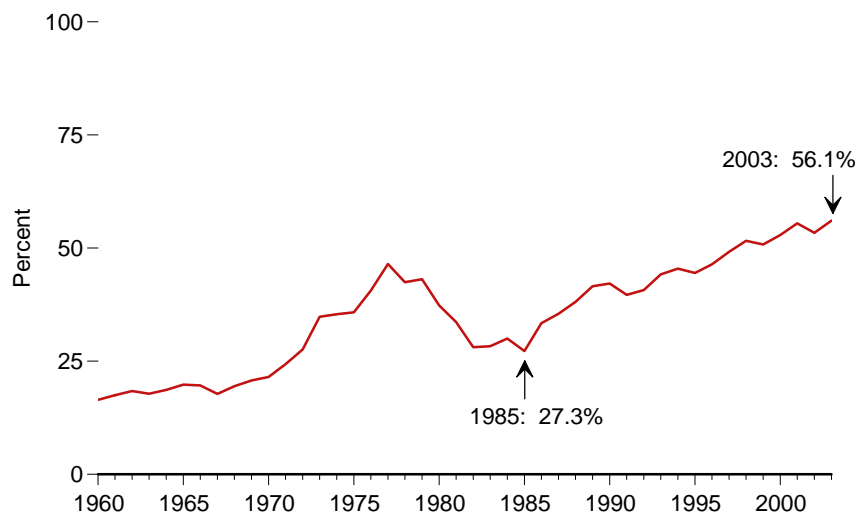
Total, OPEC, and Non-OPEC



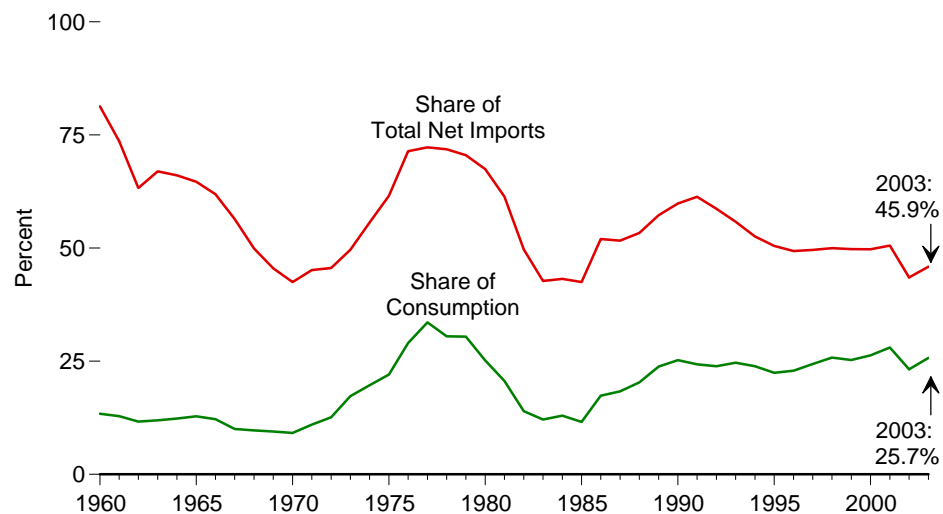
By Selected Country



Total Net Imports as Share of Consumption



Net Imports From OPEC



Note: Because vertical scales differ, graphs should not be compared.

Source: Table 5.7.

Table 5.7 Petroleum Net Imports by Country of Origin, 1960-2003

Year	Persian Gulf Nations ²	Selected OPEC ¹ Countries					Selected Non-OPEC Countries					Total Net Imports	Total Net Imports as Share of Consumption ⁴	Net Imports From OPEC	
		Algeria	Nigeria	Saudi Arabia	Venezuela	Total OPEC ³	Canada	Mexico	United Kingdom	U.S. Virgin Islands and Puerto Rico	Total Non-OPEC ³			Share of Total Net Imports ⁵	Share of Consumption ⁶
Thousand Barrels per Day													Percent		
1960	NA	NA	0	84	910	1,311	86	-2	-12	34	302	1,613	16.5	81.3	13.4
1961	NA	NA	0	73	878	1,283	167	27	-10	42	460	1,743	17.5	73.6	12.9
1962	NA	NA	0	74	905	1,210	229	35	-6	40	703	1,913	18.4	63.3	11.6
1963	NA	NA	0	108	899	1,282	243	29	-7	43	632	1,915	17.8	67.0	11.9
1964	NA	NA	0	131	932	1,359	272	23	-9	45	698	2,057	18.7	66.1	12.3
1965	NA	NA	15	158	994	1,475	297	21	-11	45	806	2,281	19.8	64.7	12.8
1966	NA	NA	11	147	1,018	1,470	352	6	-6	58	904	2,375	19.7	61.9	12.2
1967	NA	NA	5	92	937	1,258	400	13	-51	89	972	2,230	17.8	56.4	10.0
1968	NA	NA	9	74	886	1,302	468	15	13	143	1,307	2,609	19.5	49.9	9.7
1969	NA	NA	49	65	875	1,336	564	10	7	186	1,598	2,933	20.8	45.5	9.5
1970	NA	NA	50	30	989	1,343	736	9	-1	270	1,817	3,161	21.5	42.5	9.1
1971	NA	NA	102	128	1,019	1,671	831	-14	1	365	2,030	3,701	24.3	45.2	11.0
1972	NA	NA	251	189	959	2,061	1,082	-20	-1	428	2,458	4,519	27.6	45.6	12.6
1973	NA	NA	459	485	1,134	2,991	1,294	-28	6	426	3,034	6,025	34.8	49.6	17.3
1974	NA	NA	713	461	978	3,277	1,038	-27	1	475	2,615	5,892	35.4	55.6	19.7
1975	NA	NA	762	714	702	3,599	824	29	7	484	2,248	5,846	35.8	61.6	22.1
1976	NA	NA	1,025	1,229	699	5,063	571	53	19	488	2,027	7,090	40.6	71.4	29.0
1977	NA	NA	1,143	1,379	689	6,190	446	155	117	560	2,375	8,565	46.5	72.3	33.6
1978	NA	NA	919	1,142	644	5,747	359	291	173	436	2,255	8,002	42.5	71.8	30.5
1979	NA	NA	1,080	1,354	688	5,633	438	418	196	353	2,352	7,985	43.1	70.5	30.4
1980	NA	NA	857	1,259	478	4,293	347	506	169	256	2,071	6,365	37.3	67.5	25.2
1981	1,215	311	620	1,128	403	3,315	358	497	370	169	2,086	5,401	33.6	61.4	20.6
1982	692	170	512	551	409	2,136	397	632	442	154	2,163	4,298	28.1	49.7	14.0
1983	439	240	299	336	420	1,843	471	802	374	178	2,469	4,312	28.3	42.7	12.1
1984	502	323	215	324	544	2,037	547	714	388	184	2,679	4,715	30.0	43.2	13.0
1985	309	187	293	167	602	1,821	696	755	295	114	2,465	4,286	27.3	42.5	11.6
1986	909	271	440	685	788	2,828	721	642	342	152	2,611	5,439	33.4	52.0	17.4
1987	1,074	295	535	751	801	3,055	765	585	346	158	2,859	5,914	35.5	51.7	18.3
1988	1,529	300	618	1,064	790	3,513	916	677	306	117	3,074	6,587	38.1	53.3	20.3
1989	1,858	269	815	1,224	861	4,124	839	678	206	212	3,078	7,202	41.6	57.3	23.8
1990	1,962	280	800	1,339	1,016	4,285	843	666	179	213	2,876	7,161	42.2	59.8	25.2
1991	1,833	253	703	1,796	1,020	4,065	963	707	125	153	2,561	6,626	39.6	61.3	24.3
1992	1,773	196	680	1,720	1,161	4,071	1,005	706	219	180	2,867	6,938	40.7	58.7	23.9
1993	1,774	219	736	1,413	1,296	4,253	1,109	809	340	175	3,365	7,618	44.2	55.8	24.7
1994	1,723	243	637	1,402	1,322	4,233	1,194	860	448	246	3,822	8,054	45.5	52.6	23.9
1995	1,563	234	626	1,343	1,468	3,980	1,260	943	369	170	3,906	7,886	44.5	50.5	22.5
1996	1,596	256	616	1,362	1,667	4,193	1,330	1,101	299	262	4,305	8,498	46.4	49.3	22.9
1997	1,747	285	693	1,407	1,758	4,542	1,444	1,178	214	298	4,616	9,158	49.2	49.6	24.4
1998	2,132	290	693	1,491	1,700	4,880	1,451	1,116	239	305	4,884	9,764	51.6	50.0	25.8
1999	2,459	259	655	1,478	1,480	4,934	1,421	1,063	356	284	4,978	9,912	50.8	49.8	25.3
2000	2,483	225	896	1,571	1,530	5,181	1,697	1,015	356	297	5,238	10,419	52.9	49.7	26.3
2001	2,258	278	884	1,662	1,540	5,510	1,717	1,166	311	268	5,390	10,900	55.5	50.5	28.0
2002	R2,265	R264	R620	R1,551	R1,387	R4,589	R1,864	R1,292	R467	R224	R5,958	R10,546	R53.4	R43.5	R23.2
2003 ^P	2,479	397	872	1,771	1,372	5,157	1,929	1,413	422	279	6,080	11,237	56.1	45.9	25.7

¹ Organization of Petroleum Exporting Countries. See Glossary for membership.

² Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

³ Ecuador withdrew from OPEC on December 31, 1992. Through 1992, Ecuador is included in "Total OPEC"; beginning in 1993, Ecuador is included in "Total Non-OPEC." Gabon withdrew from OPEC on December 31, 1994. Through 1994, Gabon is included in "Total OPEC"; beginning in 1995, Gabon is included in "Total Non-OPEC."

⁴ Calculated by dividing total net petroleum imports by total U.S. petroleum products supplied (consumption).

⁵ Calculated by dividing net petroleum imports from OPEC countries by total net petroleum imports.

⁶ Calculated by dividing net petroleum imports from OPEC countries by total U.S. petroleum product supplied (consumption).

R=Revised. P=Preliminary. NA=Not available.

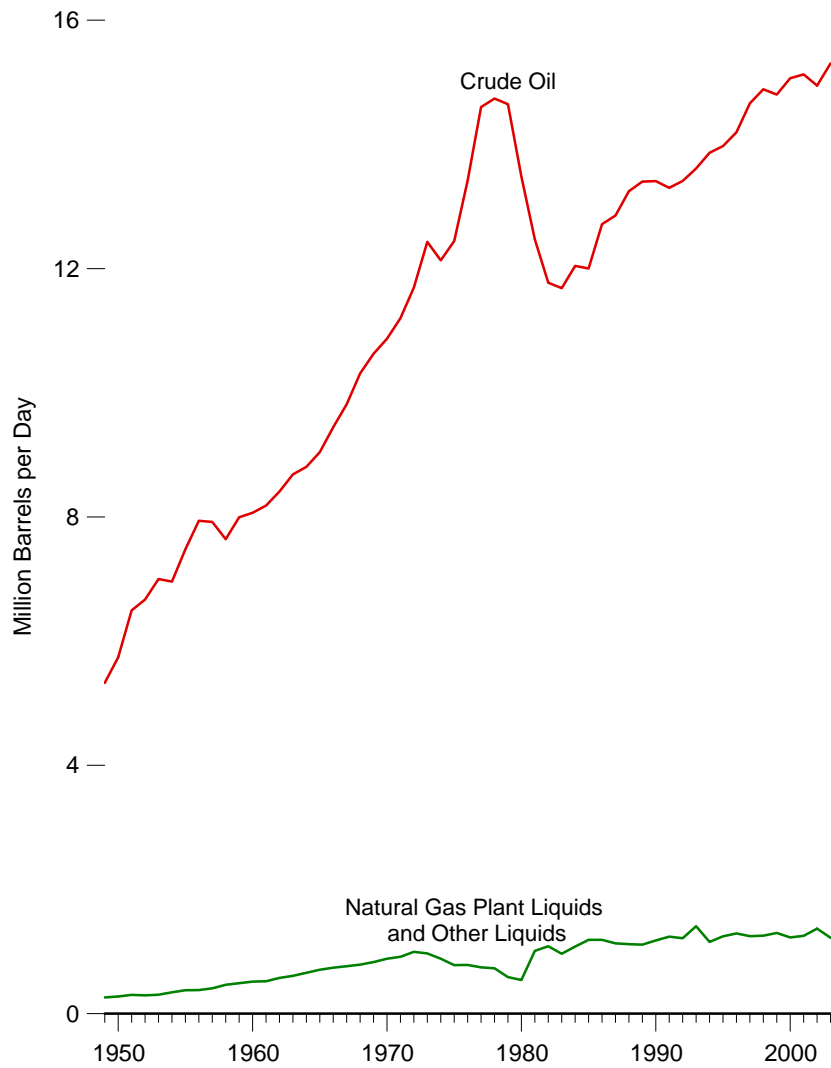
Notes: • The country of origin for refined petroleum products may not be the country of origin for the crude oil from which the refined products were produced. For example, refined products imported from refineries in the Caribbean may have been produced from Middle East crude oil. • Net imports equal imports minus exports. Minus sign indicates exports are greater than imports. • Data include any imports for the Strategic Petroleum Reserve, which began in 1977. • Totals may not equal sum of components due to independent rounding.

Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.

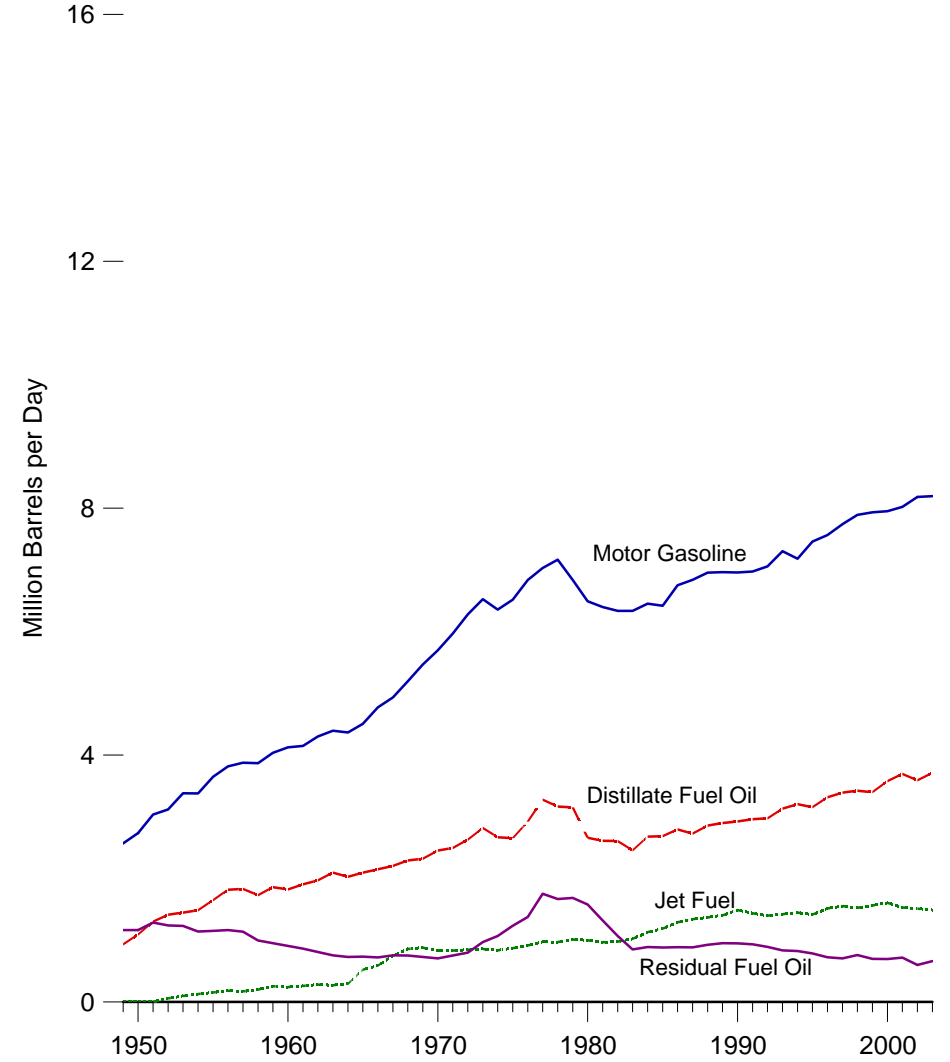
Sources: • 1960-1975—Bureau of Mines, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter. • 1976-1980—Energy Information Administration (EIA), *Energy Data Reports, P.A.D. Districts Supply/Demand, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.8 Refinery Input and Output, 1949-2003

Refinery Input



Refinery Output of Selected Products



Source: Table 5.8.

Table 5.8 Refinery Input and Output, Selected Years, 1949-2003

(Thousand Barrels per Day)

Year	Refinery Input ¹				Refinery Output ²											Processing Gain
	Crude Oil	Natural Gas Plant Liquids	Other Liquids ³	Total Input	Asphalt and Road Oil	Distillate Fuel Oil	Jet Fuel ⁴	Liquefied Petroleum Gases	Motor Gasoline ⁵	Petroleum Coke	Residual Fuel Oil	Still Gas	Other Products ⁶	Total Output		
1949	5,327	234	28	5,588	155	934	(⁴)	64	2,572	46	1,164	226	425	5,587	(s)	
1950	5,739	259	19	6,018	179	1,093	(⁴)	80	2,735	47	1,165	229	492	6,019	(s)	
1955	7,480	345	32	7,857	251	1,651	155	119	3,648	78	1,152	319	518	7,891	34	
1960	8,067	455	61	8,583	286	1,823	241	212	4,126	164	908	354	616	8,729	146	
1965	9,043	618	88	9,750	357	2,096	523	293	4,507	236	736	395	827	9,970	220	
1970	10,870	763	121	11,754	428	2,454	827	345	5,699	296	706	483	876	12,113	359	
1971	11,199	781	136	12,116	454	2,495	835	357	5,970	299	753	474	861	12,498	382	
1972	11,696	826	168	12,691	446	2,630	847	356	6,281	327	799	507	886	13,080	388	
1973	12,431	815	155	13,401	480	2,820	859	375	6,527	362	972	518	940	13,854	453	
1974	12,133	746	138	13,018	470	2,668	836	338	6,358	339	1,070	521	900	13,498	480	
1975	12,442	710	72	13,225	408	2,653	871	311	6,518	354	1,236	523	811	13,685	460	
1976	13,416	725	59	14,200	391	2,924	918	340	6,838	356	1,377	541	993	14,677	477	
1977	14,602	673	74	15,349	431	3,277	973	352	7,031	369	1,754	572	1,114	15,874	524	
1978	14,739	639	92	15,470	482	3,167	970	355	7,167	369	1,667	603	1,186	15,966	496	
1979	14,648	510	78	15,236	467	3,152	1,012	340	6,837	376	1,687	598	1,296	15,763	527	
1980	13,481	462	81	14,025	393	2,661	999	330	6,492	370	1,580	581	1,215	14,622	597	
1981	12,470	524	488	13,482	340	2,613	968	315	6,400	390	1,321	565	1,078	13,990	508	
1982	11,774	515	572	12,861	329	2,606	978	270	6,336	410	1,070	554	839	13,391	531	
1983	11,685	460	505	12,650	372	2,456	1,022	328	6,338	420	852	550	801	13,138	488	
1984	12,044	500	581	13,126	386	2,680	1,132	363	6,453	439	891	559	776	13,679	553	
1985	12,002	509	681	13,192	401	2,686	1,189	391	6,419	455	882	584	743	13,750	557	
1986	12,716	479	711	13,906	410	2,796	1,293	417	6,752	506	889	641	818	14,522	616	
1987	12,854	466	667	13,987	434	2,729	1,343	449	6,841	512	885	643	791	14,626	639	
1988	13,246	511	610	14,367	443	2,857	1,370	499	6,956	544	926	670	758	15,022	655	
1989	13,401	499	613	14,513	424	2,899	1,403	554	6,963	542	954	681	755	15,175	661	
1990	13,409	467	713	14,589	449	2,925	1,488	499	6,959	552	950	673	778	15,272	683	
1991	13,301	472	768	14,541	430	2,962	1,438	536	6,975	568	934	651	761	15,256	715	
1992	13,411	469	745	14,626	419	2,974	1,399	607	7,058	596	892	659	796	15,398	772	
1993	13,613	491	917	15,021	451	3,132	1,422	592	7,304	619	835	653	780	15,787	766	
1994	13,866	465	691	15,023	451	3,205	1,448	611	7,181	622	826	657	790	15,791	768	
1995	13,973	471	775	15,220	467	3,155	1,416	654	7,459	630	788	647	778	15,994	774	
1996	14,195	450	843	15,487	459	3,316	1,515	662	7,565	664	726	654	764	16,324	837	
1997	14,662	416	832	15,909	485	3,392	1,554	691	7,743	689	708	661	836	16,759	850	
1998	14,889	403	853	16,144	498	3,424	1,526	674	7,892	712	762	656	886	17,030	886	
1999	14,804	372	927	16,103	505	3,399	1,565	684	7,934	713	698	656	835	16,989	886	
2000	15,067	380	849	16,295	525	3,580	1,606	705	7,951	727	696	659	793	17,243	948	
2001	15,128	429	825	16,382	485	3,695	1,530	667	8,022	767	721	670	729	17,285	903	
2002	^R 14,947	^R 429	^R 941	^R 16,316	^R 492	^R 3,592	^R 1,514	^R 671	^R 8,183	^R 781	^R 601	^R 667	^R 771	^R 17,273	^R 957	
2003 ^P	15,303	419	804	16,525	496	3,714	1,488	657	8,196	798	663	701	777	17,488	963	

¹ See "Refinery Input" in Glossary.

² See "Refinery Output" in Glossary.

³ Through 1980, includes unfinished oils (net), other hydrocarbons, and hydrogen; beginning in 1981, includes unfinished oils (net), other hydrocarbons, hydrogen, and oxygenates. See Note 2, "Adjustment to Total Petroleum Products Supplied," at end of section.

⁴ Through 1951, naphtha-type jet fuel is included in the products from which it was blended: in 1952, 71 percent gasoline, 17 percent kerosene, and 12 percent distillate fuel oil. Through 1964, kerosene-type jet fuel is included with kerosene in "Other Products."

⁵ Finished motor gasoline. Through 1963, also includes aviation gasoline and special naphthas.

⁶ Kerosene, lubricants, petrochemical feedstocks, waxes, and miscellaneous products. Through 1964,

also includes kerosene-type jet fuel. Beginning in 1964, also includes aviation gasoline and special naphthas.

R=Revised. P=Preliminary. (s)=Less than 500 barrels per day.

Note: Totals may not equal sum of components due to independent rounding.

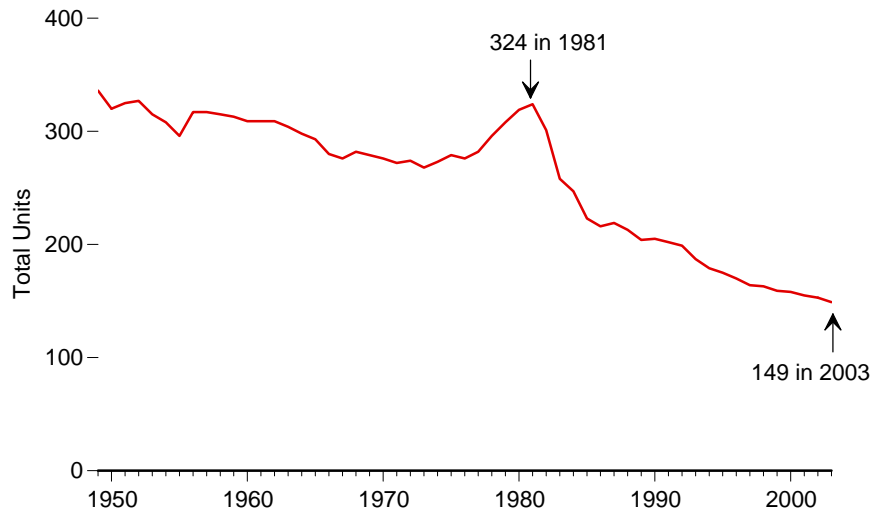
 Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

 • For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html.

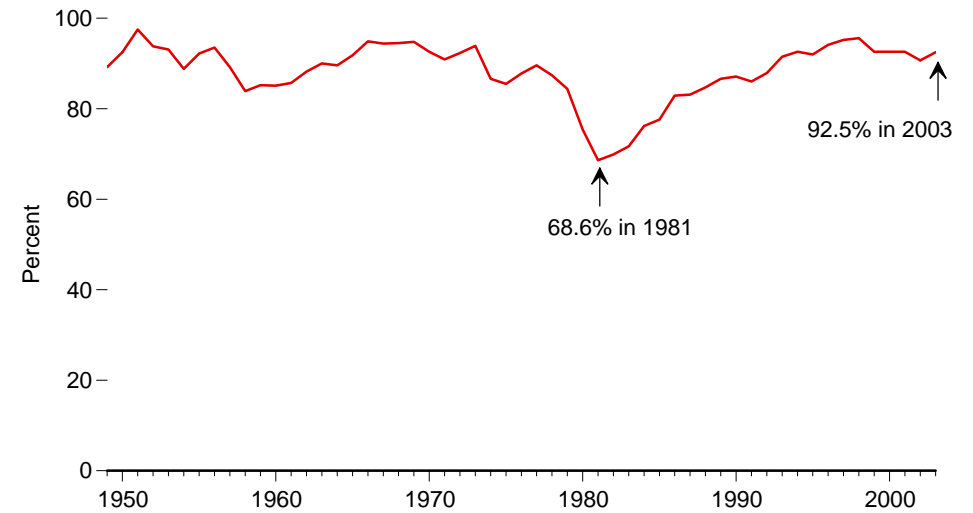
 Sources: • 1949-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly*, monthly reports.

Figure 5.9 Refinery Capacity and Utilization, 1949-2003

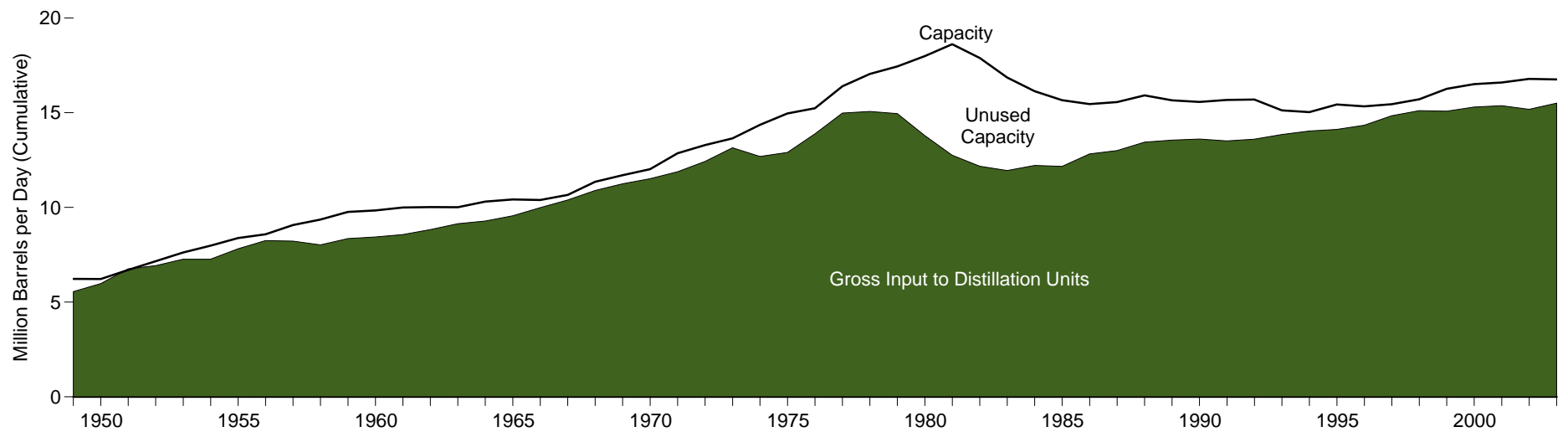
Number of Operable Refineries



Utilization



Capacity



Source: Table 5.9.

Table 5.9 Refinery Capacity and Utilization, Selected Years, 1949-2003

Year	Operable Refineries		Gross Input to Distillation Units ³ (thousand barrels per day)	Utilization ⁴ (percent)
	Number ¹	Capacity ² (thousand barrels per day)		
1949	336	6,231	5,556	89.2
1950	320	6,223	5,980	92.5
1955	296	8,386	7,820	92.2
1960	309	9,843	8,439	85.1
1965	293	10,420	9,557	91.8
1970	276	12,021	11,517	92.6
1971	272	12,860	11,881	90.9
1972	274	13,292	12,431	92.3
1973	268	13,642	13,151	93.9
1974	273	14,362	12,689	86.6
1975	279	14,961	12,902	85.5
1976	276	15,237	13,884	87.8
1977	282	16,398	14,982	89.6
1978	296	17,048	15,071	87.4
1979	308	17,441	14,955	84.4
1980	319	17,988	13,796	75.4
1981	324	18,621	12,752	68.6
1982	301	17,890	12,172	69.9
1983	258	16,859	11,947	71.7
1984	247	16,137	12,216	76.2
1985	223	15,659	12,165	77.6
1986	216	15,459	12,826	82.9
1987	219	15,566	13,003	83.1
1988	213	15,915	13,447	84.7
1989	204	15,655	13,551	86.6
1990	205	15,572	13,610	87.1
1991	202	15,676	13,508	86.0
1992	199	15,696	13,600	87.9
1993	187	15,121	13,851	91.5
1994	179	15,034	14,032	92.6
1995	175	15,434	14,119	92.0
1996	170	15,333	14,337	94.1
1997	164	15,452	14,838	95.2
1998	163	15,711	15,113	95.6
1999	159	16,261	15,080	92.6
2000	158	16,512	15,299	92.6
2001	155	16,595	15,369	92.6
2002	153	16,785	^R 15,180	^R 90.7
2003 ^P	149	16,757	15,505	92.5

¹ Through 1956, includes only those refineries in operation on January 1; beginning in 1957, includes all "operable" refineries on January 1. See "Operable Refineries" in Glossary.

² Capacity on January 1.

³ See Note 4, "Gross Input to Distillation Units," at end of section.

⁴ Through 1980, utilization is derived by dividing gross input to distillation units by one-half of the current year January 1 capacity and the following year January 1 capacity. Percentages were derived from unrounded numbers. Beginning in 1981, utilization is derived by averaging reported monthly utilization.

R=Revised. P=Preliminary.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

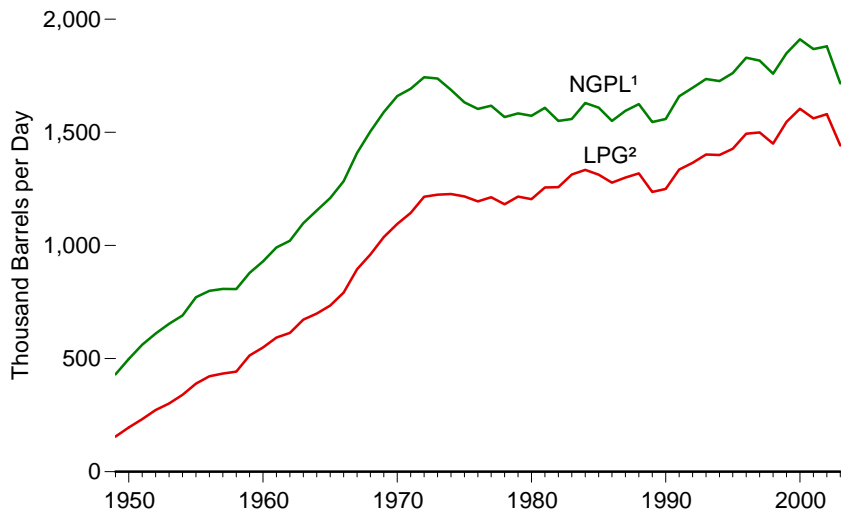
• For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html.

Sources: **Operable Refineries:** • 1949-1961—Bureau of Mines Information Circular, "Petroleum

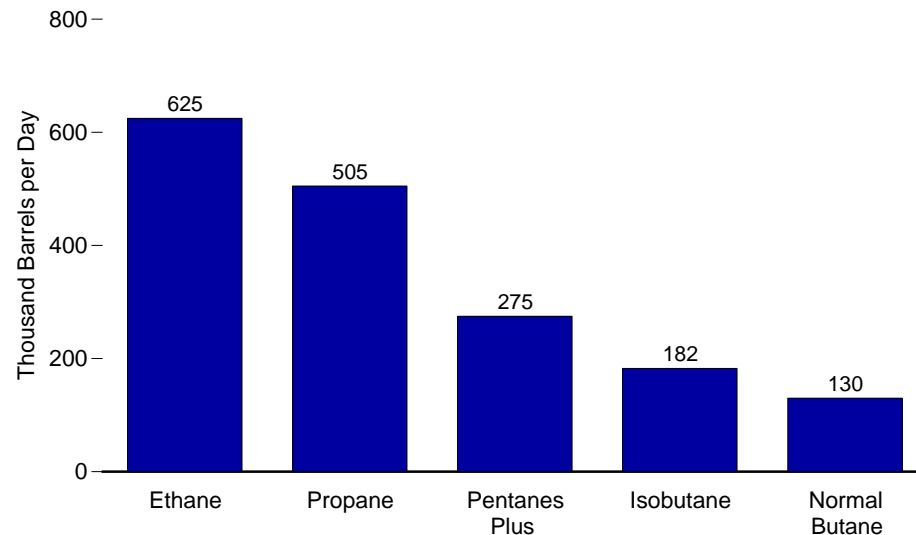
Refineries, Including Cracking Plants in the United States." • 1962-1977—Bureau of Mines, Mineral Industry Surveys, *Petroleum Refineries, Annual*, annual reports. • 1978-1981—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Refineries in the United States*. • 1982-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (January 2003). **Gross Input to Distillation Units:** • 1949-1966—Bureau of Mines, *Minerals Yearbook*, "Natural Gas Liquids" and "Crude Petroleum and Petroleum Products" chapters. • 1967-1977—Bureau of Mines, Mineral Industry Surveys, *Petroleum Refineries, Annual*, annual reports. • 1978-1980—EIA, Energy Data Reports, *Petroleum Refineries in the United States and U.S. Territories*. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (January-December 2003 issues). **Utilization:** • 1949-1980—Calculated. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—Calculated.

Figure 5.10 Natural Gas Plant Liquids Production

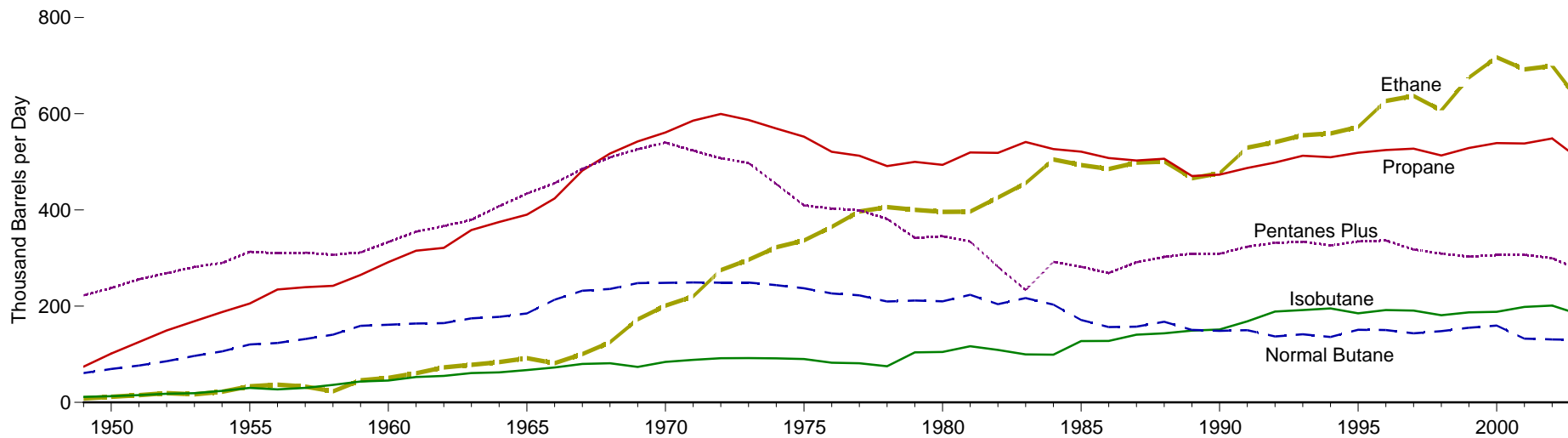
Total, 1949-2003



By Product, 2003



By Selected Product, 1949-2003



¹ Natural gas plant liquids.

² Liquefied petroleum gases.

Note: Because vertical scales differ, graphs should not be compared.

Source: Table 5.10.

Table 5.10 Natural Gas Plant Liquids Production, Selected Years, 1949-2003

(Thousand Barrels per Day)

Year	Finished Petroleum Products ¹	Liquefied Petroleum Gases					Pentanes Plus ⁴	Total
		Ethane ²	Isobutane	Normal Butane ³	Propane ^{2,3}	Total		
1949	53	8	11	61	74	155	223	430
1950	66	12	13	69	101	195	238	499
1955	68	34	30	120	205	390	313	771
1960	47	51	45	161	291	549	333	929
1965	41	92	67	185	390	734	434	1,210
1970	25	201	84	248	561	1,095	540	1,660
1971	25	221	88	249	586	1,144	523	1,693
1972	21	275	92	249	600	1,215	507	1,744
1973	16	296	92	249	587	1,225	497	1,738
1974	7	323	92	244	569	1,227	454	1,688
1975	7	337	90	237	552	1,217	409	1,633
1976	6	365	82	227	521	1,195	403	1,604
1977	5	397	81	223	513	1,214	399	1,618
1978	3	406	75	210	491	1,182	382	1,567
1979	26	400	104	212	500	1,216	342	1,584
1980	23	396	105	210	494	1,205	345	1,573
1981	18	397	117	224	519	1,256	334	1,609
1982	11	426	109	204	519	1,258	282	1,550
1983	12	456	100	217	541	1,314	233	1,559
1984	4	505	99	203	527	1,334	292	1,630
1985	14	493	127	171	521	1,313	282	1,609
1986	4	485	128	157	508	1,277	269	1,551
1987	4	499	141	157	503	1,300	291	1,595
1988	4	501	144	167	506	1,319	302	1,625
1989	(⁵)	466	149	151	471	1,237	309	1,546
1990	(⁵)	477	151	149	474	1,250	309	1,559
1991	(⁵)	530	169	150	487	1,336	324	1,659
1992	(⁵)	541	189	137	499	1,365	332	1,697
1993	(⁵)	556	192	142	513	1,402	334	1,736
1994	(⁵)	559	195	136	510	1,400	326	1,727
1995	(⁵)	573	185	151	519	1,428	335	1,762
1996	(⁵)	627	192	150	525	1,494	336	1,830
1997	(⁵)	637	191	144	528	1,499	318	1,817
1998	(⁵)	607	181	148	513	1,450	309	1,759
1999	(⁵)	675	187	155	529	1,547	303	1,850
2000	(⁵)	717	188	160	539	1,605	306	1,911
2001	(⁵)	692	198	133	538	1,562	307	1,868
2002	(⁵)	^R 700	201	131	^R 549	^R 1,581	300	^R 1,880
2003 ^P	(⁵)	625	182	130	505	1,442	275	1,717

¹ Motor gasoline, aviation gasoline, special naphthas, distillate fuel oil, and miscellaneous products.

² Reported production of ethane-propane mixtures has been allocated 70 percent ethane and 30 percent propane.

³ Reported production of butane-propane mixtures has been allocated 60 percent butane and 40 percent propane.

⁴ Through 1983, "Pentanes Plus" was reported separately as natural gasoline, isopentane, and plant condensate.

⁵ Beginning in 1989, data for finished petroleum products production from natural gas processing plants are not available.

R=Revised. P=Preliminary.

Note: Totals may not equal sum of components due to independent rounding.

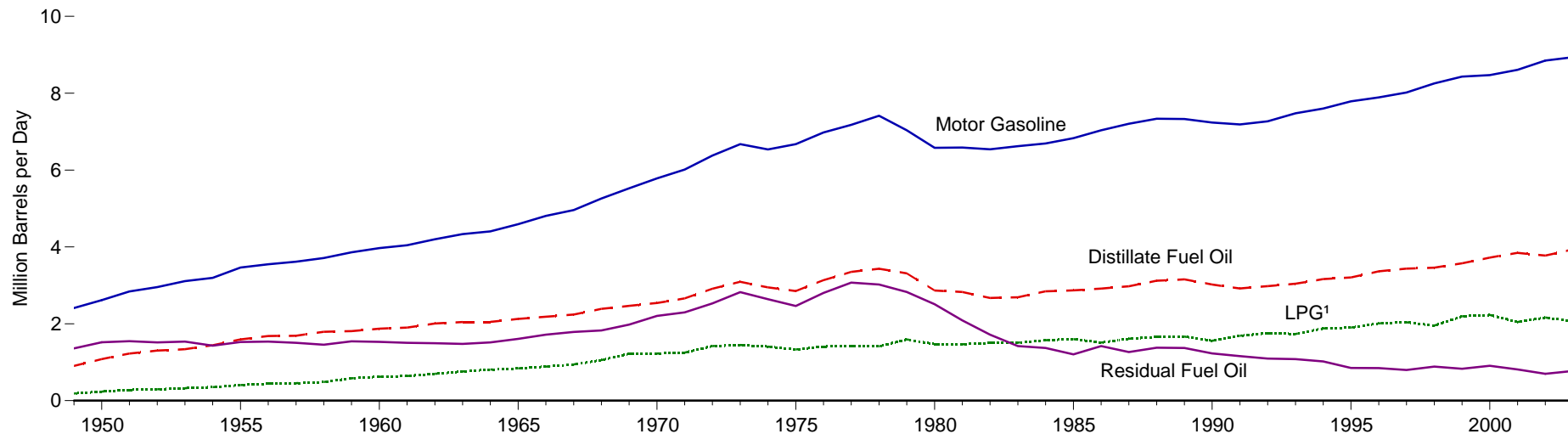
Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

• For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html.

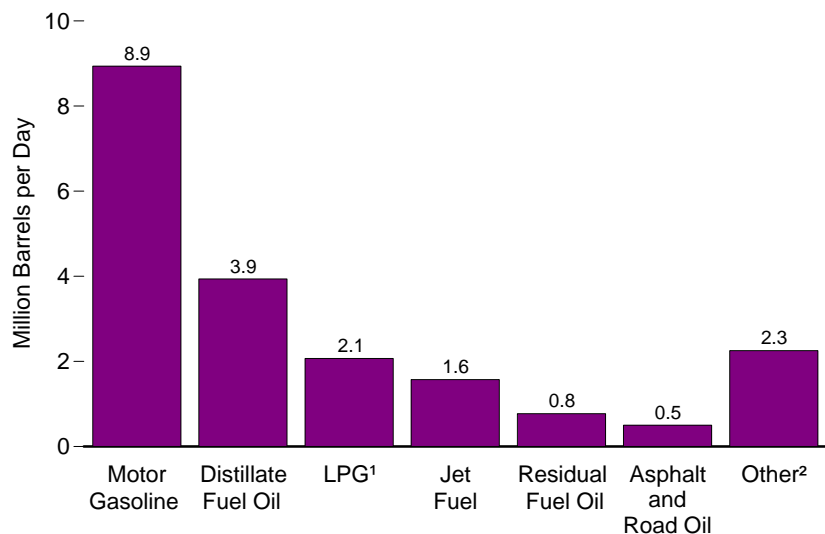
Sources: • 1949-1968—Bureau of Mines, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter. • 1969-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.11 Petroleum Products Supplied by Type

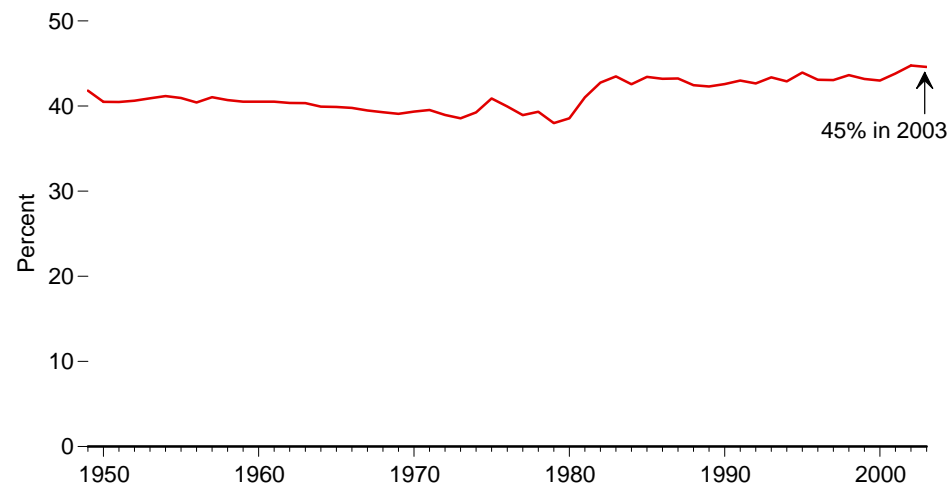
By Selected Product, 1949-2003



By Product, 2003



Motor Gasoline's Share of Total Petroleum Products Supplied, 1949-2003



¹ Liquefied petroleum gases.

²Aviation gasoline, kerosene, lubricants, natural gasoline, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, still gas (refinery gas), waxes, miscellaneous products, and crude oil burned as fuel.

Source: 5.11.

Table 5.11 Petroleum Products Supplied by Type, Selected Years, 1949-2003

(Thousand Barrels per Day)

Year	Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel ¹	Kerosene	Liquefied Petroleum Gases		Lubricants	Motor Gasoline ³	Petroleum Coke	Residual Fuel Oil	Other ⁴	Total	Percentage Change From Previous Year ⁵
						Propane ²	Total							
1949	157	93	902	(¹)	281	NA	187	91	2,410	40	1,359	243	5,763	—
1950	180	108	1,082	(¹)	323	NA	234	106	2,616	41	1,517	250	6,458	12.1
1955	254	192	1,592	154	320	NA	404	116	3,463	67	1,526	366	8,455	9.0
1960	302	161	1,872	371	271	NA	621	117	3,969	149	1,529	435	9,797	3.1
1965	368	120	2,126	602	267	NA	841	129	4,593	202	1,608	657	11,512	4.2
1970	447	55	2,540	967	263	776	1,224	136	5,785	212	2,204	866	14,697	4.0
1971	458	49	2,661	1,010	249	794	1,251	135	6,014	219	2,296	870	15,212	3.5
1972	468	46	2,913	1,045	235	893	1,420	144	6,376	241	2,529	949	16,367	7.9
1973	522	45	3,092	1,059	216	872	1,449	162	6,674	261	2,822	1,005	17,308	5.5
1974	481	44	2,948	993	176	830	1,406	155	6,537	239	2,639	1,034	16,653	-3.8
1975	419	39	2,851	1,001	159	783	1,333	137	6,675	247	2,462	1,001	16,322	-2.0
1976	411	37	3,133	987	169	830	1,404	152	6,978	243	2,801	1,145	17,461	7.3
1977	436	38	3,352	1,039	175	821	1,422	160	7,177	268	3,071	1,294	18,431	5.3
1978	479	39	3,432	1,057	175	778	1,413	172	7,412	256	3,023	1,391	18,847	2.3
1979	476	38	3,311	1,076	188	849	1,592	180	7,034	246	2,826	1,546	18,513	-1.8
1980	396	35	2,866	1,068	158	754	1,469	159	6,579	237	2,508	1,581	17,056	-7.6
1981	342	31	2,829	1,007	127	773	1,466	153	6,588	252	2,088	1,176	16,058	-6.1
1982	342	25	2,671	1,013	129	798	1,499	140	6,539	248	1,716	973	15,296	-4.7
1983	373	26	2,690	1,046	127	751	1,509	146	6,622	229	1,421	1,042	15,231	-0.4
1984	408	24	2,845	1,175	115	833	1,572	156	6,693	247	1,369	1,120	15,726	3.5
1985	425	27	2,868	1,218	114	883	1,599	145	6,831	264	1,202	1,032	15,726	-0.3
1986	448	32	2,914	1,307	98	831	1,512	142	7,034	268	1,418	1,105	16,281	3.5
1987	467	25	2,976	1,385	95	924	1,612	161	7,206	299	1,264	1,176	16,665	2.4
1988	468	27	3,122	1,449	96	923	1,656	155	7,336	312	1,378	1,286	17,283	4.0
1989	453	26	3,157	1,489	84	990	1,668	159	7,328	307	1,370	1,284	17,325	-0.0
1990	483	24	3,021	1,522	43	917	1,556	164	7,235	339	1,229	1,373	16,988	-1.9
1991	444	23	2,921	1,471	46	982	1,689	146	7,188	328	1,158	1,299	16,714	-1.6
1992	454	22	2,979	1,454	41	1,032	1,755	149	7,268	382	1,094	1,434	17,033	2.2
1993	474	21	3,041	1,469	50	1,006	1,734	152	7,476	366	1,080	1,373	17,237	0.9
1994	484	21	3,162	1,527	49	1,082	1,880	159	7,601	361	1,021	1,454	17,718	2.8
1995	486	21	3,207	1,514	54	1,096	1,899	156	7,789	365	852	1,381	17,725	0.0
1996	484	20	3,365	1,578	62	1,136	2,012	151	7,891	379	848	1,518	18,309	3.6
1997	505	22	3,435	1,599	66	1,170	2,038	160	8,017	377	797	1,605	18,620	1.4
1998	521	19	3,461	1,622	78	1,120	1,952	168	8,253	447	887	1,508	18,917	1.6
1999	547	21	3,572	1,673	73	1,246	2,195	169	8,431	477	830	1,532	19,519	3.2
2000	525	20	3,722	1,725	67	1,235	2,231	166	8,472	406	909	1,458	19,701	1.2
2001	519	19	3,847	1,655	72	1,142	2,044	153	8,610	437	811	1,481	19,649	-0.5
2002	^R 512	18	^R 3,776	^R 1,614	43	^R 1,248	2,163	151	^R 8,848	^R 463	^R 700	^R 1,474	^R 19,761	^R 0.6
2003 ^P	503	18	3,937	1,574	55	1,210	2,068	141	8,937	454	772	1,585	20,044	1.4

¹ Through 1951, naphtha-type jet fuel is included in the products from which it was blended: in 1952, 71 percent gasoline, 17 percent kerosene, and 12 percent distillate fuel oil. Beginning in 1952, includes naphtha-type jet fuel. Beginning in 1957, also includes kerosene-type jet fuel.

² Includes propylene.

³ Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes ethanol blended into motor gasoline.

⁴ Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel.

⁵ Percent change from previous year calculated from data in thousand barrels per year.

R=Revised. P=Preliminary. NA=Not available. — = Not applicable.

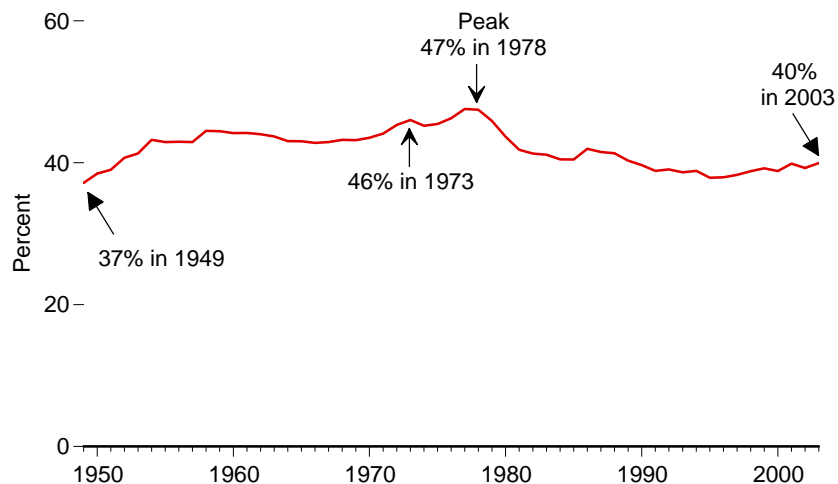
Notes: • See Note 1, "Petroleum Products Supplied and Petroleum Consumption," Note 2, "Adjustment to Total Petroleum Products Supplied," and Note 3, "Changes Affecting Petroleum Production and Product Supplied Statistics," at end of section. • Totals may not equal sum of components due to independent rounding.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>. • For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html.

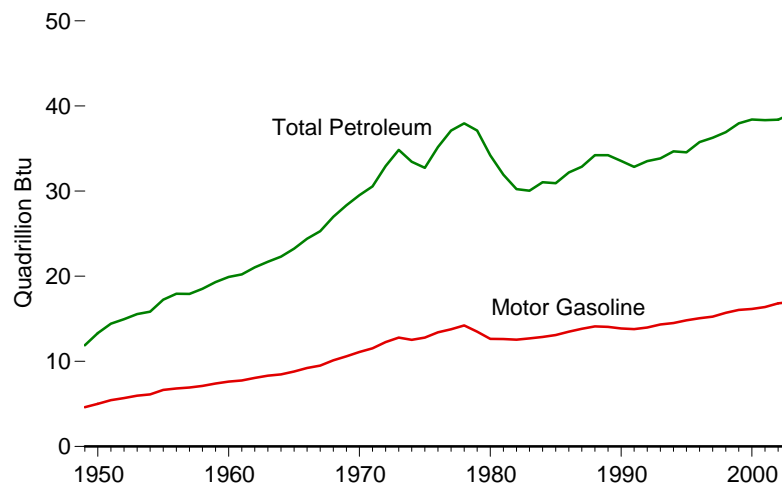
Sources: • 1949-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.12 Heat Content of Petroleum Products Supplied

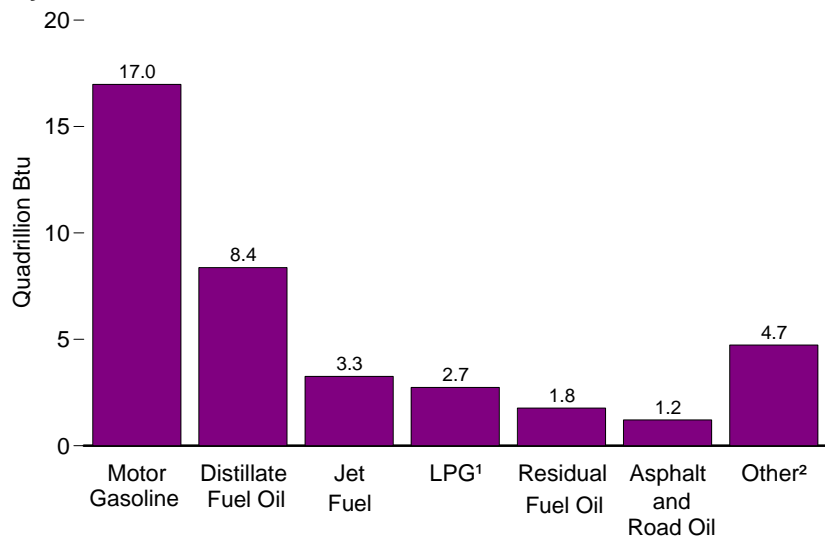
Petroleum Products Supplied Share of Total Energy Consumption, 1949-2003



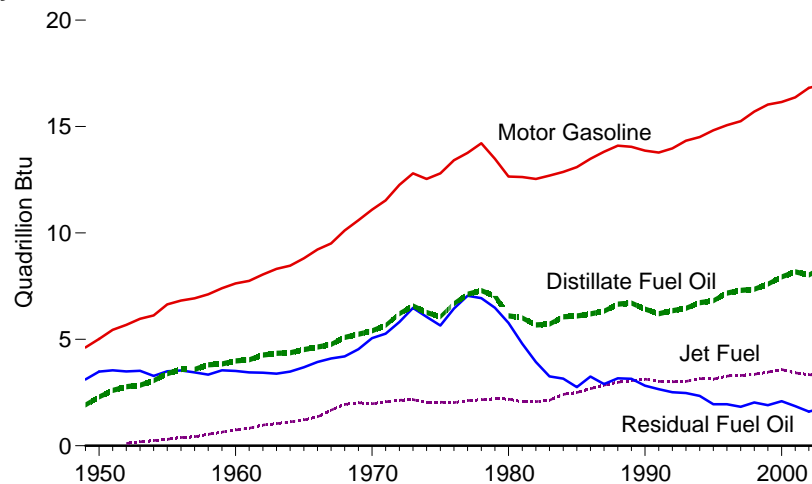
Total Petroleum and Motor Gasoline Product Supplied, 1949-2003



By Product, 2003



By Selected Product, 1949-2003



¹ Liquefied petroleum gases.

² Aviation gasoline, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, still gas (refinery gas), waxes, and miscellaneous products.

Sources: Tables 1.3 and 5.12.

Table 5.12 Heat Content of Petroleum Products Supplied, Selected Years, 1949-2003
(Trillion Btu)

Year	Asphalt and Road Oil	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel ¹	Kerosene	Liquefied Petroleum Gases		Lubricants	Motor Gasoline ³	Petroleum Coke	Residual Fuel Oil	Other ⁴	Total	Percentage Change From Previous Year
						Propane ²	Total							
1949	380	172	1,918	(¹)	582	NA	274	201	4,621	87	3,118	530	11,883	—
1950	435	199	2,300	(¹)	668	NA	343	236	5,015	90	3,482	546	13,315	12.1
1955	615	354	3,385	301	662	NA	592	258	6,640	147	3,502	798	17,255	8.9
1960	734	298	3,992	739	563	NA	912	259	7,631	328	3,517	947	19,919	3.1
1965	890	222	4,519	1,215	553	NA	1,232	286	8,806	444	3,691	1,390	23,246	4.2
1970	1,082	100	5,401	1,973	544	1,086	1,689	301	11,091	465	5,057	1,817	29,521	4.2
1971	1,108	90	5,658	2,061	515	1,111	1,723	299	11,532	481	5,269	1,825	30,561	3.1
1972	1,137	85	6,210	2,141	487	1,254	1,955	320	12,259	532	5,820	2,001	32,947	7.8
1973	1,264	83	6,575	2,167	447	1,221	1,981	359	12,797	573	6,477	2,117	34,840	5.7
1974	1,165	82	6,267	2,030	365	1,163	1,914	344	12,535	524	6,056	2,173	33,455	-4.0
1975	1,014	71	6,061	2,047	329	1,097	1,807	304	12,798	542	5,649	2,107	32,731	-2.2
1976	998	67	6,679	2,026	351	1,166	1,907	338	13,415	537	6,445	2,410	35,175	7.5
1977	1,056	70	7,126	2,126	363	1,150	1,908	354	13,760	589	7,047	2,722	37,122	5.5
1978	1,160	71	7,296	2,164	363	1,089	1,892	380	14,211	562	6,936	2,930	37,965	2.3
1979	1,153	70	7,039	2,204	389	1,189	2,138	397	13,487	541	6,485	3,219	37,123	-2.2
1980	962	64	6,110	2,190	329	1,059	1,976	354	12,648	522	5,772	3,275	34,202	-7.9
1981	828	56	6,014	2,062	263	1,082	1,949	339	12,631	553	4,791	2,445	31,931	-6.6
1982	829	47	5,679	2,072	266	1,117	1,978	309	12,538	545	3,939	2,029	30,232	-5.3
1983	904	48	5,720	2,141	263	1,051	1,990	324	12,697	503	3,260	2,204	30,054	-0.6
1984	992	44	6,065	2,414	239	1,170	2,071	346	12,867	545	3,151	2,317	31,051	3.3
1985	1,029	50	6,098	2,497	236	1,236	2,103	322	13,098	582	2,759	2,149	30,922	-0.4
1986	1,086	59	6,196	2,682	203	1,163	2,009	315	13,487	590	3,255	2,313	32,196	4.1
1987	1,130	46	6,328	2,843	196	1,294	2,153	356	13,816	657	2,901	2,440	32,865	2.1
1988	1,136	49	6,655	2,982	200	1,296	2,213	343	14,105	687	3,170	2,681	34,222	4.1
1989	1,096	48	6,712	3,059	174	1,387	2,243	352	14,050	676	3,144	2,658	34,211	-0.0
1990	1,170	45	6,422	3,129	88	1,284	2,059	362	13,872	745	2,820	2,840	33,553	-1.9
1991	1,077	42	6,210	3,025	96	1,374	2,227	324	13,781	722	2,657	2,685	32,845	-2.1
1992	1,102	41	6,351	3,001	86	1,449	2,328	330	13,973	843	2,518	2,953	33,527	2.1
1993	1,149	38	6,466	3,028	103	1,409	2,282	337	14,335	804	2,479	2,821	33,841	0.9
1994	1,173	38	6,723	3,154	101	1,515	2,494	352	14,511	793	2,342	2,988	34,670	2.4
1995	1,178	40	6,818	3,132	112	1,534	2,512	346	14,825	802	1,955	2,834	34,553	-0.3
1996	1,176	37	7,175	3,274	128	1,594	2,660	335	15,064	837	1,952	3,119	35,757	3.5
1997	1,224	40	7,304	3,308	136	1,638	2,690	354	15,254	829	1,828	3,298	36,266	1.4
1998	1,263	35	7,359	3,357	162	1,568	2,575	371	15,701	982	2,036	3,093	36,934	1.8
1999	1,324	39	7,595	3,462	151	1,745	2,897	375	16,036	1,048	1,905	3,128	37,960	2.8
2000	1,276	36	7,935	3,580	140	1,734	2,945	369	16,155	895	2,091	2,981	38,404	1.2
2001	1,257	35	8,179	3,426	150	1,598	2,697	338	16,373	961	1,861	3,056	38,333	-0.2
2002	^R 1,240	34	^R 8,028	^R 3,340	^R 90	1,747	2,852	334	^R 16,819	^R 1,018	^R 1,605	^R 3,041	^R 38,401	0.2
2003 ^P	1,217	33	8,370	3,257	113	1,695	2,739	313	16,983	998	1,772	3,279	39,074	1.8

¹ Through 1951, naphtha-type jet fuel is included in the products from which it was blended: in 1952, 71 percent gasoline, 17 percent kerosene, and 12 percent distillate fuel oil. Beginning in 1952, includes naphtha-type jet fuel. Beginning in 1957, also includes kerosene-type jet fuel.

² Includes propylene.

³ Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes ethanol blended into motor gasoline.

⁴ Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes

crude oil burned as fuel.

R=Revised. P=Preliminary. NA=Not available. — = Not applicable.

Notes: • See Note 1, "Petroleum Products Supplied and Petroleum Consumption," Note 2, "Adjustment to Total Petroleum Products Supplied," and Note 3, "Changes Affecting Petroleum Production and Product Supplied Statistics," at end of section. • Totals may not equal sum of components due to independent rounding.

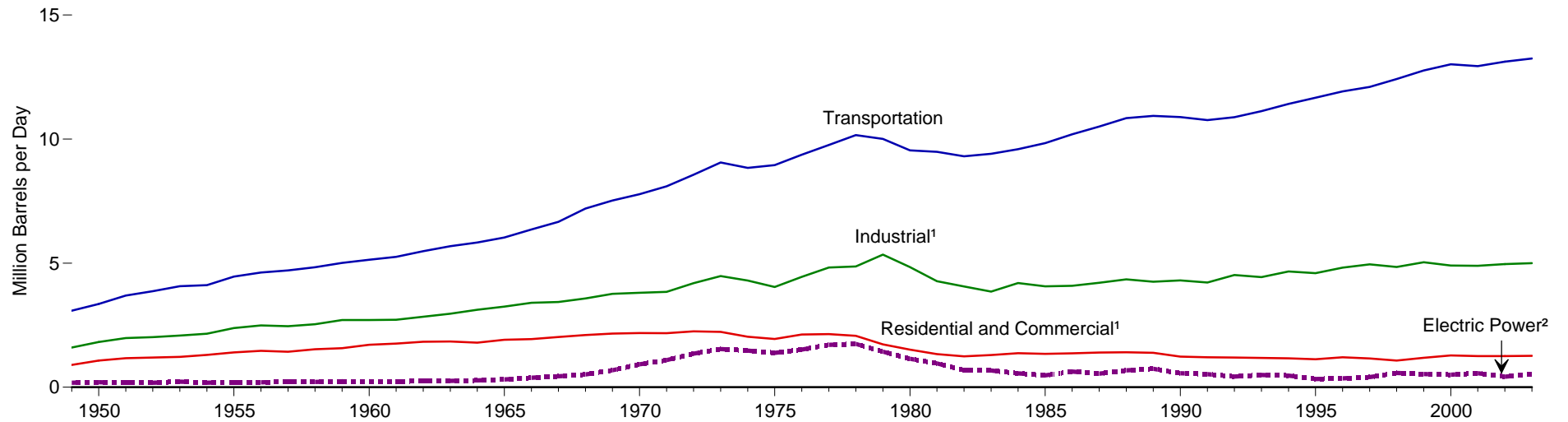
Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

• For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html

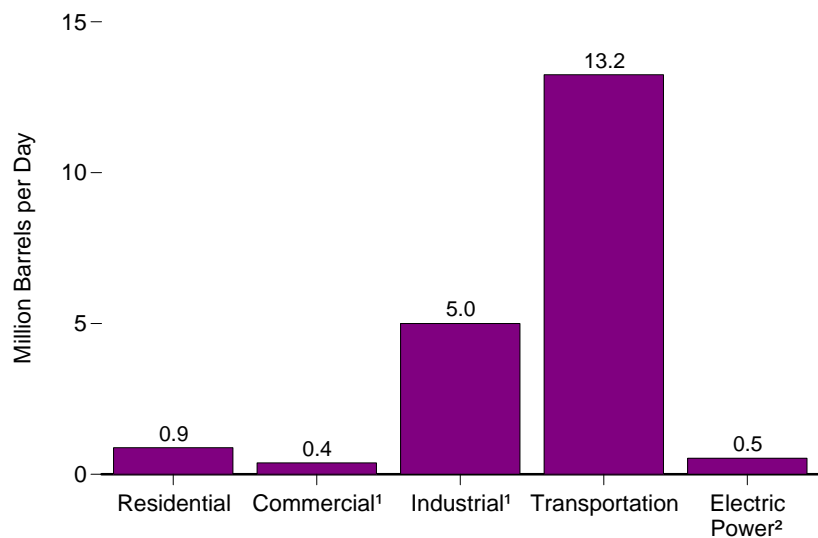
Sources: Tables 5.11, A1, and A3.

Figure 5.13a Estimated Petroleum Consumption by Sector

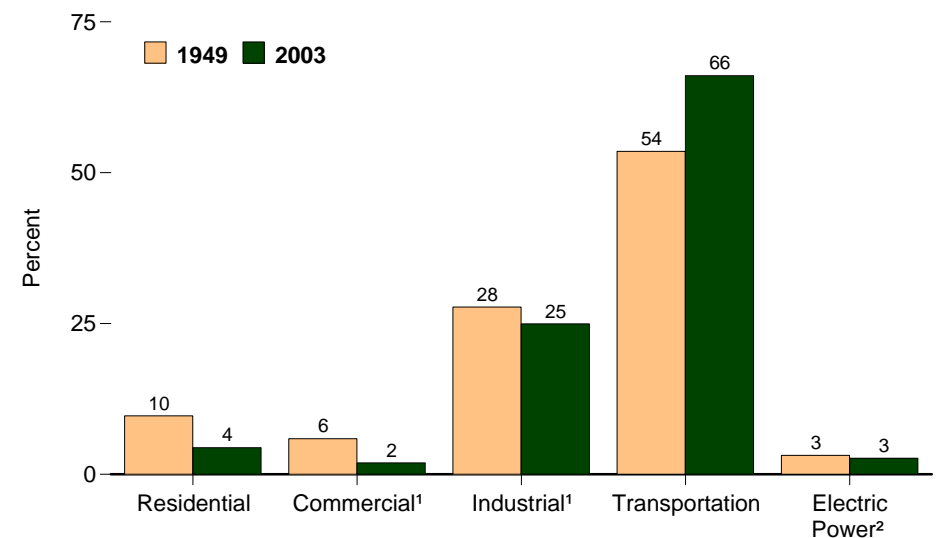
By Sector, 1949-2003



By Sector, 2003



End Use and Electric Power Shares, 1949 and 2003

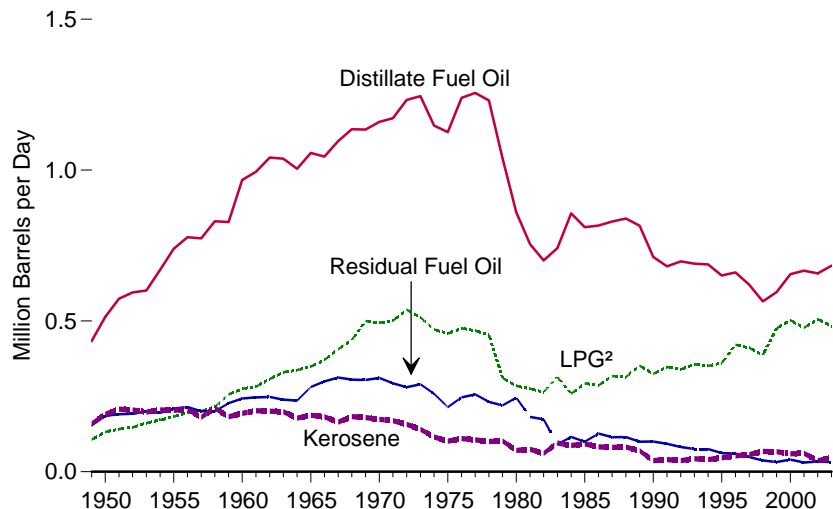


¹ Includes combined-heat-and-power plants and a small number of electricity-only plants.
² Electricity-only and combined-heat-and-power plants whose primary business is to sell electricity, or electricity and heat, to the public.

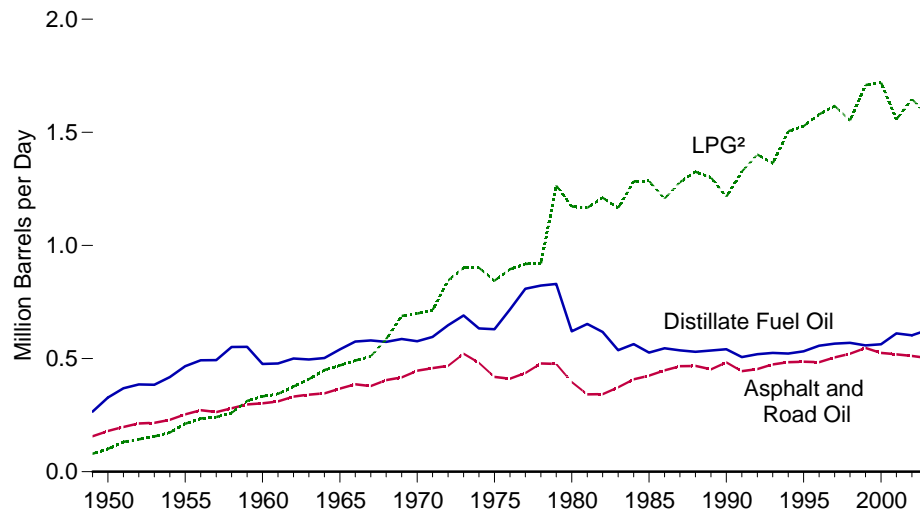
Note: See related Figure 5.13b.
 Sources: Tables 5.13a–5.13d.

Figure 5.13b Estimated Petroleum Consumption by Product by Sector, 1949-2003

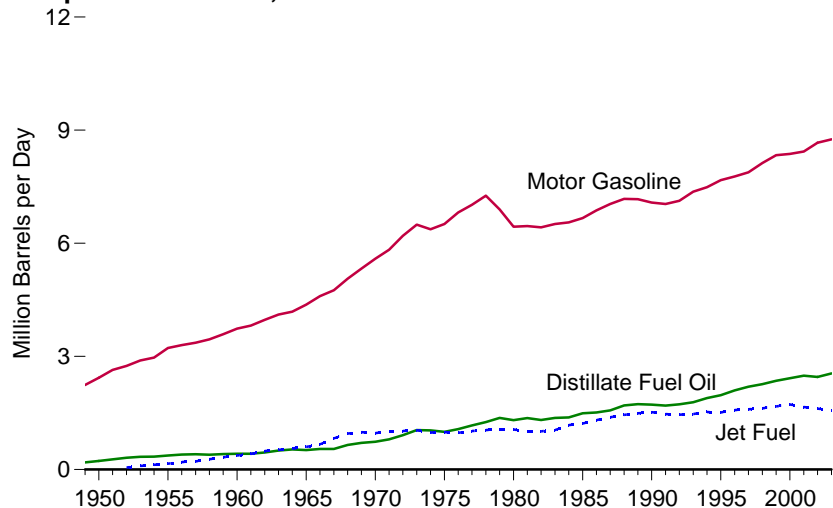
Residential and Commercial¹ Sectors, Selected Products



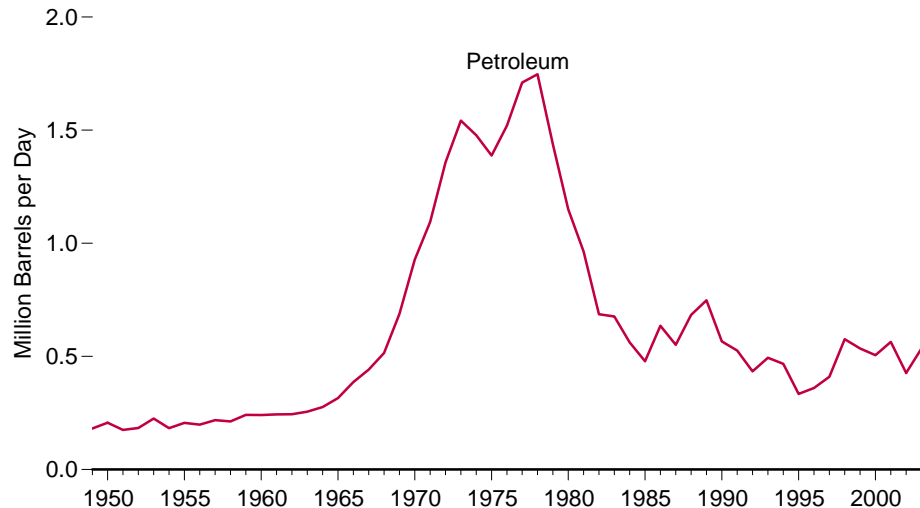
Industrial¹ Sector, Selected Products



Transportation Sector, Selected Products



Electric Power Sector³



¹ Includes combined-heat-and-power plants and a small number of electricity-only plants.

² Liquefied petroleum gases.

³ Electricity-only and combined-heat-and-power plants whose primary business is to sell electricity, or electricity and heat, to the public.

Notes: • See related Figure 5.13a. • Because vertical scales differ, graphs should not be compared.

Sources: Tables 5.13a–5.13d.

Table 5.13a Estimated Petroleum Consumption: Residential and Commercial Sectors, Selected Years, 1949-2003
(Thousand Barrels per Day)

Year	End-Use Sectors														
	Residential Sector				Commercial Sector										
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil			Kerosene	Liquefied Petroleum Gases	Motor Gasoline ³	Petroleum Coke	Residual Fuel Oil			Total
					CHP ¹	Other ²	Total					CHP ¹	Other ²	Total	
1949	329	140	90	559	(⁴)	104	104	19	16	48	NA	(⁴)	153	153	340
1950	390	168	112	670	(⁴)	123	123	23	20	52	NA	(⁴)	185	185	403
1955	562	179	155	896	(⁴)	177	177	24	27	69	NA	(⁴)	209	209	508
1960	736	171	234	1,140	(⁴)	232	232	23	41	35	NA	(⁴)	243	243	573
1965	805	161	296	1,263	(⁴)	251	251	26	52	40	NA	(⁴)	281	281	651
1970	883	144	420	1,447	(⁴)	276	276	30	74	45	NA	(⁴)	311	311	736
1971	892	143	425	1,460	(⁴)	280	280	27	75	44	NA	(⁴)	293	293	718
1972	936	131	456	1,523	(⁴)	296	296	27	81	45	NA	(⁴)	280	280	729
1973	942	110	435	1,487	(⁴)	303	303	31	77	45	NA	(⁴)	290	290	746
1974	867	89	401	1,357	(⁴)	280	280	26	71	43	NA	(⁴)	259	259	679
1975	850	78	389	1,316	(⁴)	276	276	24	69	46	NA	(⁴)	214	214	629
1976	932	89	404	1,425	(⁴)	308	308	21	71	50	NA	(⁴)	247	247	697
1977	938	81	397	1,416	(⁴)	318	318	25	70	52	NA	(⁴)	256	256	722
1978	917	74	386	1,377	(⁴)	313	313	26	68	56	NA	(⁴)	232	232	695
1979	765	64	264	1,093	(⁴)	274	274	38	47	54	NA	(⁴)	220	220	634
1980	617	51	242	911	(⁴)	243	243	20	43	56	NA	(⁴)	245	245	606
1981	540	41	234	815	(⁴)	215	215	34	41	48	NA	(⁴)	182	182	519
1982	494	46	224	764	(⁴)	207	207	15	40	46	NA	(⁴)	174	174	480
1983	435	41	267	743	(⁴)	306	306	54	47	53	NA	(⁴)	91	91	552
1984	512	42	220	774	(⁴)	345	345	45	39	56	NA	(⁴)	115	115	600
1985	514	77	249	839	(⁴)	297	297	16	44	50	NA	(⁴)	99	99	506
1986	523	59	243	825	(⁴)	293	293	24	43	55	NA	(⁴)	126	126	542
1987	544	57	269	870	(⁴)	286	286	24	48	58	NA	(⁴)	114	114	529
1988	558	69	267	894	(⁴)	281	281	13	47	57	NA	(⁴)	115	115	513
1989	546	57	299	901	3	267	270	13	53	53	0	2	97	99	488
1990	460	31	276	767	3	249	252	6	49	58	0	3	97	100	465
1991	438	35	295	768	2	241	243	6	52	44	0	2	91	92	438
1992	460	31	288	779	1	236	238	5	51	41	(s)	2	80	82	418
1993	458	37	303	797	2	230	232	7	53	15	(s)	2	73	75	383
1994	451	31	298	781	3	233	236	9	53	13	(s)	2	73	75	386
1995	426	36	306	767	2	223	225	11	54	10	(s)	1	61	62	361
1996	434	43	358	835	2	225	227	10	63	14	(s)	1	58	60	373
1997	411	45	349	805	3	206	209	12	62	22	(s)	1	47	48	353
1998	363	52	329	744	2	199	202	15	58	20	(s)	3	35	37	332
1999	389	54	404	847	2	204	206	13	71	15	(s)	2	30	32	338
2000	424	46	427	897	2	228	230	14	75	23	(s)	2	38	40	383
2001	E427	RE46	E406	E879	3	E236	E239	E15	E72	E20	(s)	2	E28	E30	E376
2002	E421	RE28	E429	E878	2	E234	E236	E9	E76	E20	(s)	1	RE32	RE34	RE375
2003	E438	E35	E410	E883	P3	E242	E245	E11	E72	E20	P(s)	P2	E30	E32	E382

¹ Commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants. See Note 1, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 8.

² All commercial sector fuel use other than that in "CHP."

³ Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes ethanol blended into motor gasoline.

⁴ Included in "Other."

R=Revised. P=Preliminary. E=Estimate. NA=Not available. (s)=Less than 500 barrels per day.

Notes: • See Note 1, "Petroleum Products Supplied and Petroleum Consumption," at end of section.

• Totals may not equal sum of components due to independent rounding.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

• For related information, see http://www.eia.doe.gov/emeu/states/main_us.html (United States page).

Sources: **CHP and Petroleum Coke:** Table 8.7c. **All Other Data:** • 1949-1959—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports, and Energy Information Administration (EIA) estimates. • 1960-2001—EIA, "State Energy Data 2001: Consumption" (April 2004), U.S. Tables 8 and 9. • 2002 and 2003—EIA estimates.

Table 5.13b Estimated Petroleum Consumption: Industrial Sector, Selected Years, 1949-2003

(Thousand Barrels per Day)

Year	End-Use Sectors															
	Industrial Sector															
	Asphalt and Road Oil	Distillate Fuel Oil			Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ³	Petroleum Coke			Residual Fuel Oil			Other Petroleum ⁴	Total
		CHP ¹	Other ²	Total					CHP ¹	Other ²	Total	CHP ¹	Other ²	Total		
1949	157	(⁵)	265	265	123	80	36	121	(⁵)	40	40	(⁵)	534	534	243	1,598
1950	180	(⁵)	328	328	132	100	43	131	(⁵)	41	41	(⁵)	617	617	250	1,822
1955	254	(⁵)	466	466	116	212	47	173	(⁵)	67	67	(⁵)	686	686	366	2,387
1960	302	(⁵)	476	476	78	333	48	198	(⁵)	149	149	(⁵)	689	689	435	2,708
1965	368	(⁵)	541	541	80	470	62	179	(⁵)	202	202	(⁵)	689	689	657	3,247
1970	447	(⁵)	577	577	89	699	70	150	(⁵)	203	203	(⁵)	708	708	866	3,808
1971	458	(⁵)	596	596	80	715	69	143	(⁵)	211	211	(⁵)	705	705	870	3,845
1972	468	(⁵)	648	648	77	846	73	132	(⁵)	233	233	(⁵)	765	765	949	4,191
1973	522	(⁵)	691	691	75	902	88	133	(⁵)	254	254	(⁵)	809	809	1,005	4,479
1974	481	(⁵)	633	633	61	901	85	123	(⁵)	230	230	(⁵)	753	753	1,034	4,301
1975	419	(⁵)	630	630	58	844	68	116	(⁵)	246	246	(⁵)	658	658	1,001	4,038
1976	411	(⁵)	717	717	59	895	75	110	(⁵)	242	242	(⁵)	792	792	1,145	4,447
1977	436	(⁵)	809	809	69	918	82	102	(⁵)	266	266	(⁵)	844	844	1,294	4,821
1978	479	(⁵)	823	823	75	921	88	93	(⁵)	250	250	(⁵)	748	748	1,391	4,867
1979	476	(⁵)	830	830	86	1,266	92	84	(⁵)	243	243	(⁵)	721	721	1,546	5,343
1980	396	(⁵)	621	621	87	1,172	82	82	(⁵)	234	234	(⁵)	586	586	1,581	4,842
1981	342	(⁵)	653	653	52	1,166	79	83	(⁵)	250	250	(⁵)	471	471	1,176	4,273
1982	342	(⁵)	617	617	68	1,211	72	72	(⁵)	246	246	(⁵)	456	456	973	4,058
1983	373	(⁵)	537	537	32	1,166	75	59	(⁵)	225	225	(⁵)	345	345	1,042	3,854
1984	408	(⁵)	564	564	28	1,283	80	83	(⁵)	244	244	(⁵)	386	386	1,120	4,198
1985	425	(⁵)	526	526	21	1,285	75	114	(⁵)	261	261	(⁵)	326	326	1,032	4,065
1986	448	(⁵)	546	546	16	1,207	73	108	(⁵)	264	264	(⁵)	321	321	1,105	4,087
1987	467	(⁵)	537	537	14	1,279	83	107	(⁵)	294	294	(⁵)	253	253	1,176	4,210
1988	468	(⁵)	530	530	14	1,326	80	100	(⁵)	306	306	(⁵)	237	237	1,286	4,347
1989	453	5	531	536	14	1,300	82	104	5	295	300	58	121	178	1,284	4,251
1990	483	7	534	541	6	1,215	84	97	25	300	325	64	115	179	1,373	4,304
1991	444	12	495	507	6	1,326	75	101	22	293	315	55	91	146	1,299	4,219
1992	454	10	509	519	5	1,402	77	101	26	336	362	59	109	168	1,434	4,522
1993	474	10	515	525	6	1,363	78	94	22	308	330	65	129	194	1,373	4,438
1994	484	10	513	522	8	1,505	82	101	25	304	329	69	113	183	1,454	4,667
1995	486	6	526	532	7	1,527	80	105	26	302	328	60	87	147	1,381	4,594
1996	484	8	549	557	9	1,580	78	105	27	317	343	66	80	146	1,518	4,819
1997	505	8	558	566	9	1,617	82	111	37	294	331	56	71	127	1,605	4,953
1998	521	16	554	570	11	1,553	86	105	29	362	390	60	40	100	1,508	4,844
1999	547	16	542	558	6	1,709	87	80	31	395	426	52	38	90	1,532	5,035
2000	525	10	553	563	8	1,720	86	79	19	342	361	48	57	105	1,458	4,903
2001	RE 519	9	E 602	E 611	11	E 1,557	E 79	E 155	15	RE 375	RE 390	46	42	89	RE 1,481	RE 4,892
2002	RE 512	6	E 597	E 603	E 7	RE 1,647	E 78	E 159	R 21	RE 362	RE 383	37	RE 61	RE 98	RE 1,474	RE 4,961
2003	E 503	P 9	E 617	E 626	E 8	E 1,575	E 73	E 161	P 19	E 356	E 375	P 38	E 55	E 93	E 1,585	E 4,999

¹ Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants. See Note 1, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 8.
² All industrial sector fuel use other than that in "CHP."
³ Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes ethanol blended into motor gasoline.
⁴ Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas. Beginning in 1983, also includes crude oil burned as fuel.
⁵ Included in "Other."

R=Revised. P=Preliminary. E=Estimate.
 Notes: • See Note 1, "Petroleum Products Supplied and Petroleum Consumption," at end of section.
 • Totals may not equal sum of components due to independent rounding.
 Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.
 • For related information, see http://www.eia.doe.gov/emeu/states/main_us.html (United States page).
 Sources: **CHP:** Table 8.7c. **All Other Data:** • 1949-1959—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports, and Energy Information Administration (EIA) estimates.
 • 1960-2001—EIA, "State Energy Data 2001: Consumption" (April 2004), U.S. Table 10. • 2002 and 2003—EIA estimates.

Table 5.13c Estimated Petroleum Consumption: Transportation Sector and End-Use Total, Selected Years, 1949-2003
(Thousand Barrels per Day)

Year	End-Use Sectors									
	Transportation									End-Use Total
	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel		Liquefied Petroleum Gases	Lubricants	Motor Gasoline ²	Residual Fuel Oil	Total	
			Kerosene Type	Total ¹						
1949	93	190	0	(¹)	1	54	2,241	504	3,084	5,581
1950	108	226	0	(¹)	2	64	2,433	524	3,356	6,251
1955	192	372	0	154	9	70	3,221	440	4,458	8,249
1960	161	418	91	371	13	68	3,736	367	5,135	9,556
1965	120	514	334	602	23	67	4,374	336	6,036	11,197
1970	55	738	718	967	32	66	5,589	332	7,778	13,769
1971	49	800	751	1,010	37	67	5,827	305	8,095	14,118
1972	46	910	779	1,021	38	71	6,199	280	8,566	15,009
1973	45	1,045	825	1,042	35	74	6,496	317	9,054	15,766
1974	44	1,036	757	979	33	71	6,372	304	8,838	15,175
1975	39	998	782	992	31	70	6,512	310	8,951	14,934
1976	37	1,073	777	976	33	77	6,817	358	9,372	15,941
1977	38	1,171	814	1,022	36	78	7,022	396	9,761	16,721
1978	39	1,260	845	1,044	38	83	7,264	431	10,160	17,099
1979	38	1,366	867	1,067	16	87	6,896	535	10,005	17,075
1980	35	1,311	845	1,062	13	77	6,441	608	9,546	15,905
1981	31	1,365	808	1,006	24	74	6,456	531	9,487	15,094
1982	25	1,312	803	1,011	24	68	6,421	444	9,307	14,609
1983	26	1,367	839	1,046	29	71	6,510	358	9,406	14,555
1984	24	1,383	953	1,175	30	76	6,554	351	9,592	15,163
1985	27	1,491	1,005	1,218	21	71	6,667	342	9,838	15,248
1986	32	1,514	1,105	1,307	19	69	6,871	379	10,191	15,645
1987	25	1,568	1,181	1,385	15	78	7,041	392	10,505	16,114
1988	27	1,701	1,236	1,449	17	75	7,179	399	10,846	16,600
1989	26	1,734	1,284	1,489	16	77	7,171	423	10,937	16,577
1990	24	1,722	1,340	1,522	16	80	7,080	443	10,888	16,423
1991	23	1,694	1,296	1,471	15	71	7,042	447	10,763	16,188
1992	22	1,728	1,310	1,454	14	72	7,125	465	10,881	16,599
1993	21	1,785	1,357	1,469	14	74	7,367	393	11,124	16,743
1994	21	1,896	1,480	1,527	24	77	7,487	385	11,417	17,251
1995	21	1,973	1,497	1,514	13	76	7,674	397	11,668	17,390
1996	20	2,096	1,575	1,578	11	73	7,772	370	11,921	17,948
1997	22	2,198	1,598	1,599	10	78	7,883	310	12,099	18,211
1998	19	2,263	1,623	1,622	13	81	8,128	294	12,420	18,341
1999	21	2,352	1,675	1,673	10	82	8,336	290	12,765	18,984
2000	20	2,422	1,725	1,725	8	81	8,370	386	13,012	19,196
2001	19	2,489	1,656	1,655	10	74	8,435	255	12,938	19,085
2002 ^E	18	2,455	^R 1,621	^R 1,614	10	73	^R 8,668	^R 281	^R 13,121	^R 19,335
2003 ^E	18	2,550	1,580	1,574	10	69	8,756	269	13,244	19,508

¹ Through 1951, naphtha-type jet fuel is included in the products from which jet fuel was blended: in 1952, 71 percent gasoline, 17 percent kerosene, and 12 percent distillate fuel oil. Beginning in 1952, includes naphtha-type jet fuel. Beginning in 1957, also includes kerosene-type jet fuel.

² Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes ethanol blended into motor gasoline.

R=Revised. E=Estimate.

Notes: • See Note 1, "Petroleum Products Supplied and Petroleum Consumption," at end of section.

- Totals may not equal sum of components due to independent rounding.
- Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.
- For related information, see http://www.eia.doe.gov/emeu/states/main_us.html (United States page).
- Sources: • 1949-1959—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports, and Energy Information Administration (EIA) estimates. • 1960-2001—EIA, "State Energy Data 2001: Consumption" (April 2004), U.S. Table 11. • 2002 and 2003—EIA estimates.

Table 5.13d Petroleum Consumption: Electric Power Sector and Total, Selected Years, 1949-2003
(Thousand Barrels per Day)

Year	Electric Power Sector ¹												Total Consumption
	Electricity Only				CHP				Total				
	Distillate Fuel Oil ²	Petroleum Coke	Residual Fuel Oil ³	Total	Distillate Fuel Oil ²	Petroleum Coke	Residual Fuel Oil ³	Total	Distillate Fuel Oil ²	Petroleum Coke	Residual Fuel Oil ³	Total	
1949	13	NA	169	182	NA	NA	NA	NA	13	NA	169	182	5,763
1950	15	NA	192	207	NA	NA	NA	NA	15	NA	192	207	6,458
1955	15	NA	191	206	NA	NA	NA	NA	15	NA	191	206	8,455
1960	10	NA	231	241	NA	NA	NA	NA	10	NA	231	241	9,797
1965	14	NA	302	316	NA	NA	NA	NA	14	NA	302	316	11,512
1970	66	9	853	928	NA	NA	NA	NA	66	9	853	928	14,697
1971	94	8	992	1,095	NA	NA	NA	NA	94	8	992	1,095	15,212
1972	146	9	1,203	1,358	NA	NA	NA	NA	146	9	1,203	1,358	16,367
1973	129	7	1,406	1,542	NA	NA	NA	NA	129	7	1,406	1,542	17,308
1974	146	9	1,324	1,478	NA	NA	NA	NA	146	9	1,324	1,478	16,653
1975	107	1	1,280	1,388	NA	NA	NA	NA	107	1	1,280	1,388	16,322
1976	114	1	1,405	1,520	NA	NA	NA	NA	114	1	1,405	1,520	17,461
1977	134	1	1,575	1,710	NA	NA	NA	NA	134	1	1,575	1,710	18,431
1978	130	5	1,612	1,747	NA	NA	NA	NA	130	5	1,612	1,747	18,847
1979	84	4	1,350	1,437	NA	NA	NA	NA	84	4	1,350	1,437	18,513
1980	79	2	1,069	1,151	NA	NA	NA	NA	79	2	1,069	1,151	17,056
1981	58	2	904	964	NA	NA	NA	NA	58	2	904	964	16,058
1982	42	2	642	686	NA	NA	NA	NA	42	2	642	686	15,296
1983	45	4	627	676	NA	NA	NA	NA	45	4	627	676	15,231
1984	42	3	517	562	NA	NA	NA	NA	42	3	517	562	15,726
1985	40	3	435	478	NA	NA	NA	NA	40	3	435	478	15,726
1986	39	4	592	636	NA	NA	NA	NA	39	4	592	636	16,281
1987	42	5	504	551	NA	NA	NA	NA	42	5	504	551	16,665
1988	51	6	627	683	NA	NA	NA	NA	51	6	627	683	17,283
1989	70	7	663	740	2	0	6	8	72	7	669	748	17,325
1990	41	14	497	551	4	0	10	15	45	14	507	566	16,988
1991	38	13	469	520	1	0	4	5	39	13	473	526	16,714
1992	33	18	371	422	2	2	8	12	34	20	379	434	17,033
1993	37	21	409	467	4	15	9	27	41	36	418	494	17,237
1994	46	16	369	431	11	15	10	36	56	32	379	467	17,718
1995	44	15	237	296	7	22	9	38	51	37	247	334	17,725
1996	47	14	263	325	4	22	10	36	51	36	273	360	18,309
1997	48	23	301	373	4	23	10	37	52	46	311	410	18,620
1998	61	30	448	539	3	26	8	37	64	56	456	576	18,917
1999	63	26	409	497	3	25	9	38	66	51	418	535	19,519
2000	77	20	370	466	6	25	8	39	82	45	378	505	19,701
2001	76	25	430	531	4	22	7	33	80	47	437	564	19,649
2002	^R 59	^R 54	^R 281	^R 394	1	^R 26	^R 6	^R 33	^R 60	^R 80	^R 287	^R 427	^R 19,761
2003 ^P	73	56	372	500	5	23	7	35	78	79	378	535	20,044

¹ Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers. Electric utility CHP plants are included in "Electricity Only."

² Fuel oil nos. 1, 2, and 4. For 1949-1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

³ Fuel oil nos. 5 and 6. For 1949-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4.

R=Revised. P=Preliminary. NA=Not available.

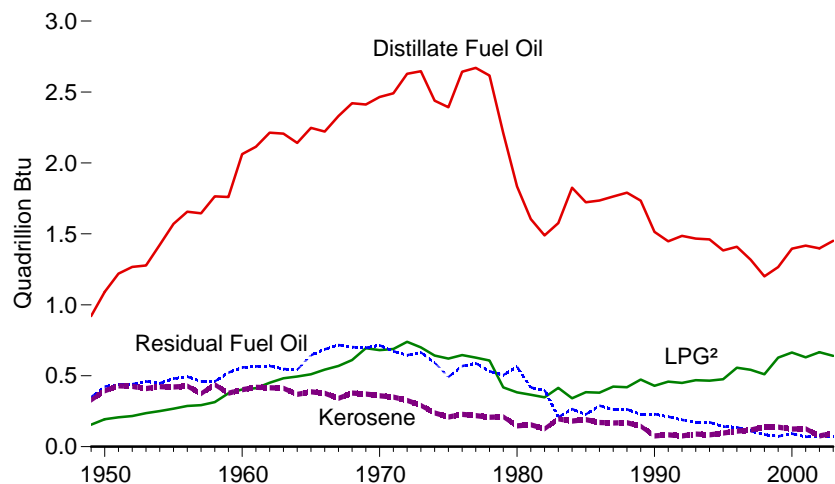
Notes: • See Tables 8.5a-8.5d for the amount of petroleum used to produce electricity and Tables 8.6a-8.6c for the amount of petroleum used to produce useful thermal output. • See Note 1, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>. • For related information, see <http://www.eia.doe.gov/fuelelectric.html>.

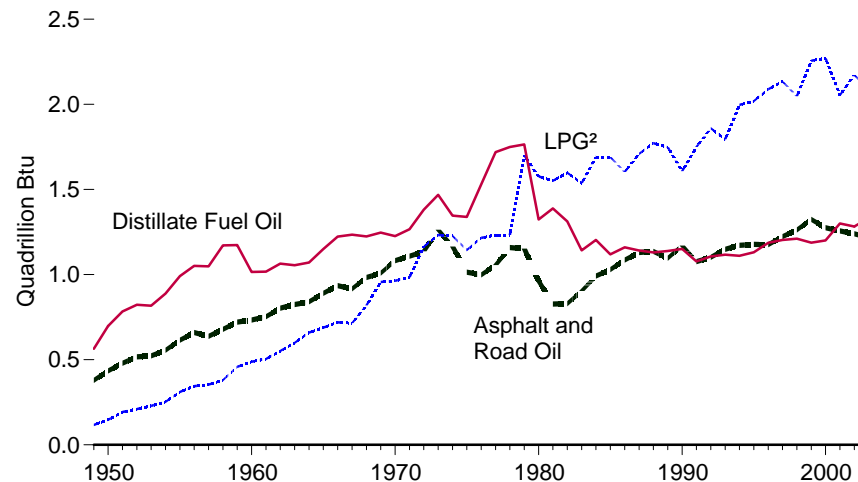
Sources: **Electric Power Sector:** Tables 8.5b, 8.5c, 8.6b, and 8.7b. **Total Consumption:** Table 5.11, data for "Total."

Figure 5.14 Heat Content of Petroleum Consumption by Product by Sector, 1949-2003

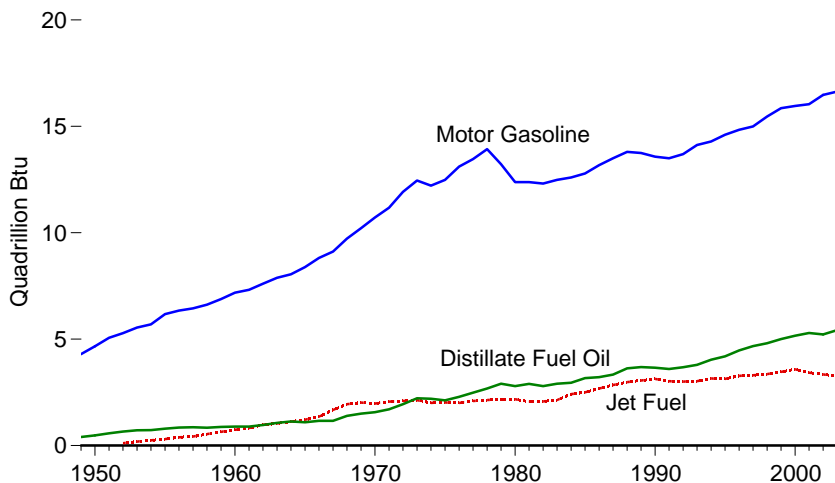
Residential and Commercial¹ Sectors, Selected Products



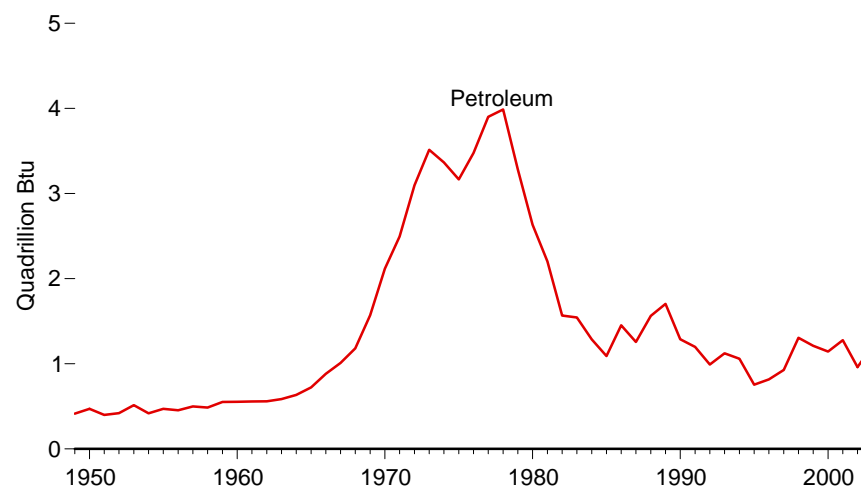
Industrial¹ Sector, Selected Products



Transportation Sector, Selected Products



Electric Power Sector³



¹ Includes combined-heat-and-power plants and a small number of electricity-only plants.

² Liquefied petroleum gases.

³ Electricity-only and combined-heat-and-power plants whose primary business is to sell electricity, or electricity and heat, to the public.

Note: Because vertical scales differ, graphs should not be compared.

Sources: Tables 5.14a-5.14c.

Table 5.14a Heat Content of Petroleum Consumption: Residential and Commercial Sectors, Selected Years, 1949-2003
(Trillion Btu)

Year	Residential Sector				Commercial Sector						
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ¹	Petroleum Coke	Residual Fuel Oil	Total
1949	700	289	132	1,121	221	39	23	92	NA	351	727
1950	829	347	164	1,340	262	47	29	100	NA	424	862
1955	1,194	371	227	1,792	377	51	40	133	NA	480	1,081
1960	1,568	354	343	2,265	494	48	61	67	NA	559	1,228
1965	1,713	334	434	2,481	534	54	77	77	NA	645	1,386
1970	1,878	298	579	2,755	587	61	102	86	NA	714	1,551
1971	1,897	295	585	2,777	595	55	103	84	NA	672	1,510
1972	1,996	271	628	2,895	632	55	111	87	NA	645	1,530
1973	2,003	227	595	2,825	644	65	105	87	NA	665	1,565
1974	1,844	184	546	2,573	596	55	96	83	NA	593	1,423
1975	1,807	161	528	2,495	587	49	93	89	NA	492	1,310
1976	1,987	184	549	2,720	656	44	97	97	NA	567	1,461
1977	1,994	167	533	2,695	676	52	94	101	NA	588	1,511
1978	1,951	153	516	2,620	666	55	91	107	NA	532	1,450
1979	1,626	133	355	2,114	584	78	63	104	NA	505	1,334
1980	1,316	107	325	1,748	518	41	57	107	NA	565	1,287
1981	1,147	85	311	1,543	457	69	55	92	NA	417	1,090
1982	1,050	95	296	1,441	440	30	52	88	NA	399	1,008
1983	924	85	352	1,362	651	111	62	102	NA	208	1,136
1984	1,091	88	290	1,468	735	93	51	107	NA	266	1,252
1985	1,092	159	327	1,578	631	33	58	96	NA	228	1,045
1986	1,111	121	323	1,556	623	50	57	106	NA	290	1,126
1987	1,156	119	360	1,634	607	49	63	111	NA	263	1,093
1988	1,190	144	356	1,690	600	26	63	110	NA	264	1,063
1989	1,160	117	402	1,679	574	28	71	102	0	228	1,002
1990	978	64	365	1,407	536	12	64	111	0	230	953
1991	930	72	389	1,392	517	12	69	85	0	212	895
1992	980	65	382	1,427	507	11	68	80	(s)	189	854
1993	974	76	399	1,448	493	14	70	30	(s)	173	780
1994	960	65	395	1,420	501	19	70	25	(s)	172	787
1995	905	74	404	1,383	479	22	71	18	(s)	141	732
1996	926	89	473	1,488	483	21	84	27	(s)	137	751
1997	874	93	461	1,428	444	25	81	43	(s)	111	704
1998	772	108	434	1,314	429	31	77	39	(s)	85	661
1999	828	111	534	1,473	438	27	94	28	(s)	73	661
2000	905	95	564	1,563	491	30	99	45	(s)	92	756
2001	908	95	535	1,539	508	31	94	37	(s)	70	742
2002 ^E	896	57	566	1,519	^R 502	19	100	^R 39	(s)	^R 77	^R 736
2003 ^E	931	72	544	1,546	521	24	96	39	(s)	74	753

¹ Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes ethanol blended into motor gasoline.

R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 trillion Btu.

Note: Totals may not equal sum of components due to independent rounding.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

• For related information, see <http://www.eia.doe.gov/emeu/sedr/contents.html>.

Sources: Tables 5.13a, A1, and A3.

Table 5.14b Heat Content of Petroleum Consumption: Industrial Sector, Selected Years, 1949-2003
(Trillion Btu)

Year	Industrial Sector									
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ¹	Petroleum Coke	Residual Fuel Oil	Other Petroleum ²	Total
1949	380	564	254	117	80	231	87	1,225	530	3,468
1950	435	698	274	147	94	251	90	1,416	546	3,951
1955	615	991	241	310	103	332	147	1,573	798	5,111
1960	734	1,016	161	489	107	381	328	1,584	947	5,747
1965	890	1,150	165	688	137	342	444	1,582	1,390	6,789
1970	1,082	1,226	185	964	155	288	446	1,624	1,817	7,787
1971	1,108	1,266	165	984	152	275	463	1,618	1,825	7,856
1972	1,137	1,381	160	1,164	163	254	513	1,761	2,001	8,534
1973	1,264	1,469	156	1,233	195	255	558	1,858	2,117	9,104
1974	1,165	1,346	126	1,227	187	235	506	1,728	2,173	8,694
1975	1,014	1,339	119	1,144	149	223	540	1,509	2,107	8,146
1976	998	1,530	123	1,216	166	211	535	1,822	2,410	9,010
1977	1,056	1,719	143	1,232	182	196	586	1,937	2,722	9,774
1978	1,160	1,750	156	1,233	195	178	550	1,716	2,930	9,867
1979	1,153	1,764	177	1,700	204	162	533	1,655	3,219	10,568
1980	962	1,324	181	1,577	182	158	516	1,349	3,275	9,525
1981	828	1,389	108	1,551	175	160	549	1,081	2,445	8,285
1982	829	1,313	141	1,598	159	138	541	1,047	2,029	7,795
1983	904	1,142	66	1,537	167	112	495	791	2,204	7,420
1984	992	1,203	58	1,691	178	160	538	889	2,317	8,025
1985	1,029	1,119	44	1,690	166	218	575	748	2,149	7,738
1986	1,086	1,160	32	1,603	162	206	581	736	2,313	7,880
1987	1,130	1,141	28	1,709	183	206	646	582	2,440	8,065
1988	1,136	1,130	30	1,772	177	193	675	546	2,681	8,339
1989	1,096	1,139	30	1,748	181	199	660	410	2,658	8,120
1990	1,170	1,150	12	1,608	186	185	714	411	2,840	8,278
1991	1,077	1,078	11	1,749	167	193	693	334	2,685	7,987
1992	1,102	1,107	10	1,860	170	194	798	387	2,953	8,581
1993	1,149	1,117	13	1,794	173	180	725	446	2,821	8,418
1994	1,173	1,111	17	1,997	181	192	723	419	2,988	8,801
1995	1,178	1,131	15	2,019	178	200	721	337	2,834	8,614
1996	1,176	1,187	18	2,089	173	200	757	335	3,119	9,053
1997	1,224	1,203	19	2,134	182	212	727	291	3,298	9,290
1998	1,263	1,211	22	2,048	191	199	858	230	3,093	9,116
1999	1,324	1,187	13	2,256	193	152	936	207	3,128	9,396
2000	1,276	1,200	16	2,271	190	150	796	241	2,981	9,120
2001	1,257	1,300	23	2,054	174	295	858	203	3,056	9,220
2002 ^E	^R 1,240	1,282	14	2,172	172	303	^R 842	^R 224	^R 3,041	^R 9,291
2003 ^E	1,217	1,332	18	2,087	161	306	824	214	3,279	9,436

¹ Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes ethanol blended into motor gasoline.

² Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas. Beginning in 1983, also includes crude oil burned as fuel.

R=Revised. E=Estimate.

Note: Totals may not equal sum of components due to independent rounding.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

• For related information, see <http://www.eia.doe.gov/emeu/sedr/contents.html>.

Sources: Tables 5.13b, A1, and A3.

Table 5.14c Heat Content of Petroleum Consumption: Transportation and Electric Power Sectors, Selected Years, 1949-2003
(Trillion Btu)

Year	Transportation Sector									Electric Power Sector ¹			
	Aviation Gasoline	Distillate Fuel Oil	Jet Fuel		Liquefied Petroleum Gases	Lubricants	Motor Gasoline ³	Residual Fuel Oil	Total	Distillate Fuel Oil ⁴	Petroleum Coke	Residual Fuel Oil ⁵	Total
			Kerosene Type	Total ²									
1949	172	405	0	(²)	2	120	4,298	1,156	6,152	28	NA	387	415
1950	199	480	0	(²)	3	141	4,664	1,201	6,690	32	NA	440	472
1955	354	791	0	301	14	155	6,175	1,009	8,800	32	NA	439	471
1960	298	892	188	739	20	152	7,183	844	10,126	22	NA	530	553
1965	222	1,093	691	1,215	33	149	8,386	770	11,868	29	NA	693	722
1970	100	1,569	1,486	1,973	44	147	10,716	761	15,310	141	19	1,958	2,117
1971	90	1,701	1,554	2,061	50	147	11,173	701	15,923	200	18	2,277	2,495
1972	85	1,941	1,617	2,091	52	158	11,918	645	16,891	310	19	2,768	3,097
1973	83	2,222	1,707	2,131	48	163	12,455	727	17,831	273	15	3,226	3,515
1974	82	2,202	1,566	2,001	44	156	12,217	697	17,399	309	19	3,038	3,365
1975	71	2,121	1,619	2,029	42	155	12,485	711	17,614	226	2	2,937	3,166
1976	67	2,288	1,613	2,002	45	172	13,107	824	18,506	243	2	3,232	3,477
1977	70	2,489	1,684	2,090	48	172	13,464	908	19,241	283	3	3,614	3,901
1978	71	2,679	1,750	2,138	52	184	13,927	990	20,041	276	12	3,699	3,987
1979	70	2,905	1,795	2,186	21	193	13,221	1,228	19,825	178	8	3,097	3,283
1980	64	2,795	1,754	2,179	17	172	12,383	1,398	19,008	169	5	2,459	2,634
1981	56	2,901	1,671	2,058	32	165	12,379	1,219	18,811	124	4	2,073	2,202
1982	47	2,790	1,661	2,069	32	150	12,312	1,020	18,420	89	4	1,474	1,568
1983	48	2,905	1,736	2,141	38	157	12,482	821	18,593	96	8	1,440	1,544
1984	44	2,948	1,977	2,414	40	168	12,600	807	19,020	88	8	1,190	1,286
1985	50	3,170	2,079	2,497	28	156	12,784	786	19,471	85	7	998	1,090
1986	59	3,218	2,287	2,682	26	153	13,174	870	20,182	83	9	1,359	1,452
1987	46	3,335	2,444	2,843	21	173	13,499	901	20,816	90	10	1,157	1,257
1988	49	3,626	2,565	2,982	22	167	13,802	919	21,567	109	12	1,442	1,563
1989	48	3,687	2,658	3,059	22	171	13,749	971	21,706	152	16	1,535	1,703
1990	45	3,661	2,774	3,129	22	176	13,575	1,016	21,625	97	30	1,163	1,289
1991	42	3,601	2,681	3,025	20	157	13,503	1,026	21,373	84	29	1,085	1,198
1992	41	3,684	2,718	3,001	18	161	13,699	1,070	21,674	74	45	872	991
1993	38	3,796	2,809	3,028	19	163	14,126	901	22,072	86	79	959	1,124
1994	38	4,032	3,063	3,154	32	171	14,293	883	22,603	120	70	869	1,059
1995	40	4,195	3,099	3,132	17	168	14,607	911	23,069	108	81	566	755
1996	37	4,469	3,268	3,274	15	163	14,837	851	23,647	109	80	628	817
1997	40	4,672	3,307	3,308	13	172	14,999	712	23,917	111	102	715	927
1998	35	4,812	3,359	3,357	17	180	15,463	674	24,537	136	124	1,047	1,306
1999	39	5,001	3,466	3,462	13	182	15,855	665	25,218	140	112	959	1,211
2000	36	5,165	3,580	3,580	11	179	15,960	888	25,820	175	99	871	1,144
2001	35	5,292	3,427	3,426	13	164	16,041	586	25,556	171	103	1,003	1,277
2002	E ³⁴	RE ^{5,221}	RE ^{3,354}	RE ^{3,340}	E ¹⁴	E ¹⁶²	RE ^{16,477}	RE ⁶⁴⁶	RE ^{25,894}	R ¹²⁷	R ¹⁷⁵	R ⁶⁵⁹	R ⁹⁶¹
2003	E ³³	E ^{5,422}	E ^{3,269}	E ^{3,257}	E ¹³	E ¹⁵²	E ^{16,638}	E ⁶¹⁷	E ^{26,131}	P ¹⁶⁵	P ¹⁷⁵	P ⁸⁶⁸	P ^{1,207}

¹ Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

² Through 1951, naphtha-type jet fuel is included in the products from which jet fuel was blended: in 1952, 71 percent gasoline, 17 percent kerosene, and 12 percent distillate fuel oil. Beginning in 1952, includes naphtha-type jet fuel. Beginning in 1957, also includes kerosene-type jet fuel.

³ Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes ethanol blended into motor gasoline.

⁴ Fuel oil nos. 1, 2, and 4. For 1949-1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

⁵ Fuel oil nos. 5 and 6. For 1949-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4.

R=Revised. P=Preliminary. E=Estimate. NA=Not available.

Notes: Totals may not equal sum of components due to independent rounding.

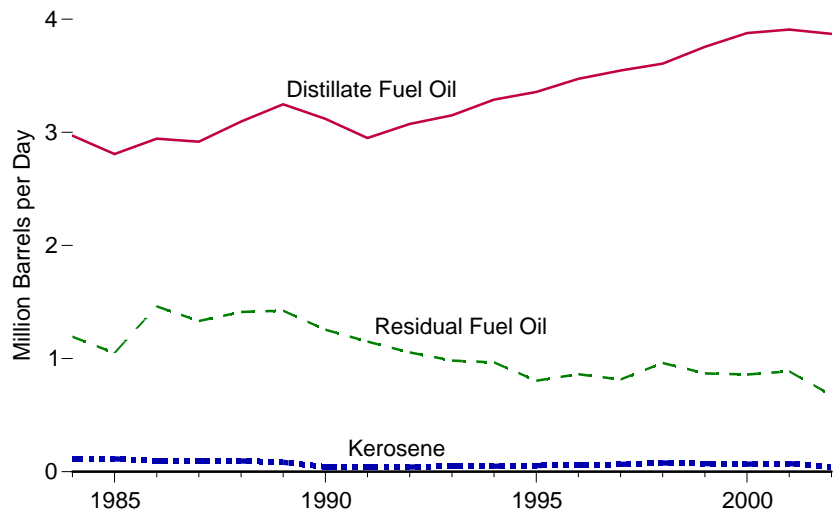
Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

• For related information, see <http://www.eia.doe.gov/emeu/sedr/contents.html>.

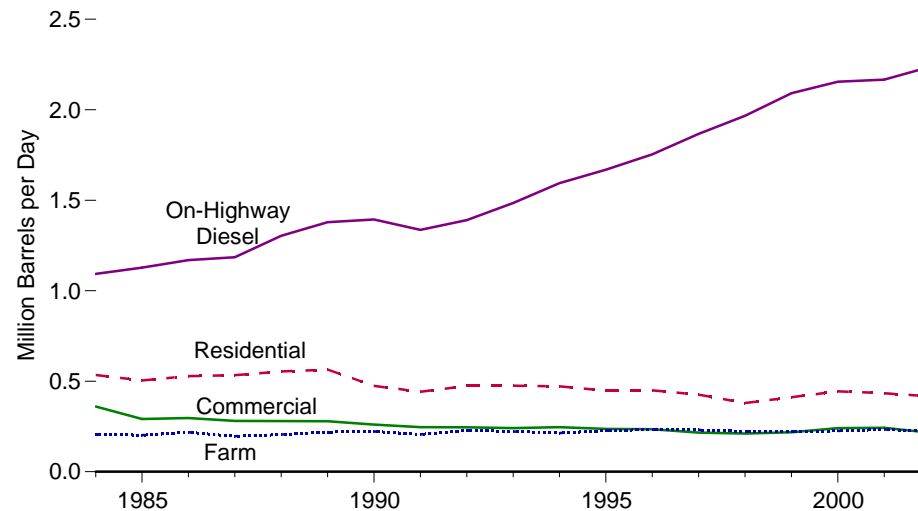
Sources: Tables 5.13c, 5.13d, A1, and A3.

Figure 5.15 Fuel Oil and Kerosene Sales, 1984-2002

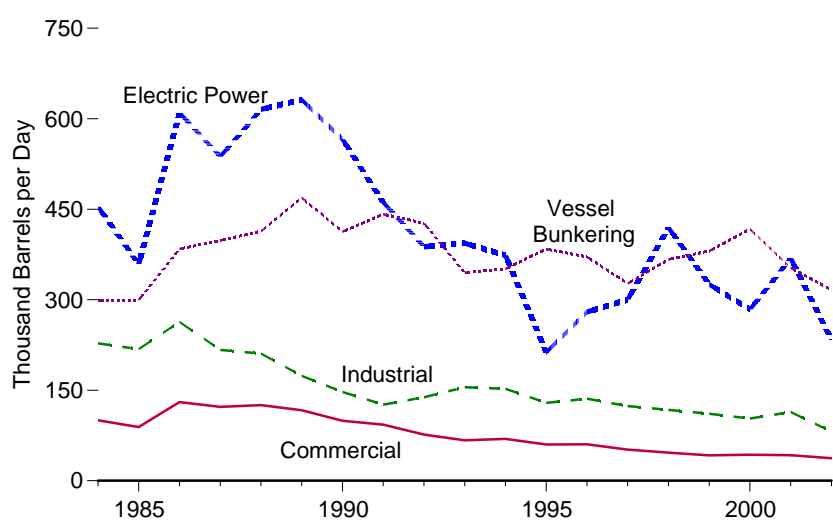
Total by Fuel



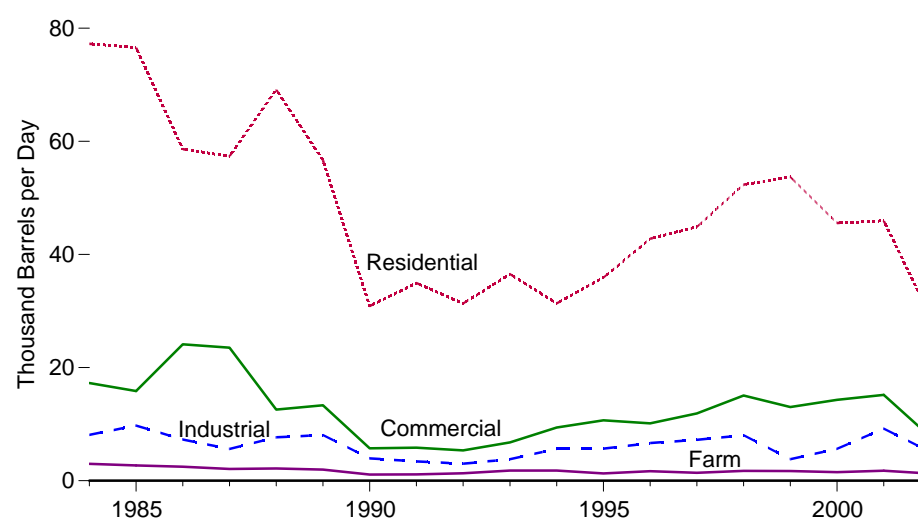
Distillate Fuel Oil by Selected End Use



Residual Fuel Oil by Major End Use



Kerosene by Major End Use



Note: Because vertical scales differ, graphs should not be compared.

Source: Table 5.15.

Table 5.15 Fuel Oil and Kerosene Sales, 1984-2002
(Thousand Barrels per Day)

Year	Distillate Fuel Oil												Total
	Residential	Commercial	Industrial	Oil Company	Farm	Electric Power ¹	Railroad	Vessel Bunkering	On-Highway Diesel	Military	Off-Highway Diesel	Other	
1984	534	360	166	55	208	42	192	115	1,093	46	114	46	2,971
1985	504	291	159	45	202	34	182	111	1,127	43	99	11	2,809
1986	528	296	175	41	218	38	186	127	1,169	47	108	10	2,944
1987	534	280	184	40	196	37	186	122	1,185	46	102	5	2,917
1988	554	279	167	41	206	47	201	130	1,304	54	109	4	3,095
1989	564	279	178	45	219	58	211	147	1,378	56	110	2	3,248
1990	475	260	169	49	222	50	203	135	1,393	46	118	(s)	3,120
1991	442	246	151	48	206	39	188	133	1,336	53	107	(s)	2,949
1992	474	245	150	43	228	35	206	144	1,391	42	114	(s)	3,075
1993	475	241	139	46	222	36	196	141	1,485	32	137	(s)	3,150
1994	472	246	148	44	213	43	205	143	1,594	40	140	(s)	3,289
1995	447	237	146	45	227	39	224	153	1,668	30	142	—	3,357
1996	450	234	149	48	234	43	224	162	1,754	30	146	—	3,472
1997	426	216	151	56	231	41	214	168	1,867	28	149	—	3,546
1998	380	211	161	51	222	55	207	169	1,967	23	162	—	3,608
1999	411	218	162	43	223	53	211	158	2,091	23	162	—	3,756
2000	444	241	152	45	225	66	214	147	2,155	20	168	—	3,877
2001	433	243	161	49	234	88	198	133	2,167	26	177	—	3,908
2002	416	215	156	50	223	49	212	136	2,238	23	154	—	3,871

Year	Residual Fuel Oil							Kerosene						
	Commercial	Industrial	Oil Company	Electric Power ¹	Vessel Bunkering	Military	Other ²	Total	Residential	Commercial	Industrial	Farm	Other	Total
1984	100	228	81	454	298	6	26	1,194	77	17	8	3	10	115
1985	89	218	62	359	299	8	13	1,048	77	16	10	3	9	114
1986	130	263	52	610	384	E7	15	1,462	59	24	7	2	6	98
1987	123	217	44	537	398	10	3	1,332	57	24	6	2	6	95
1988	125	211	36	616	413	8	4	1,413	69	13	8	2	5	96
1989	117	174	24	632	469	6	2	1,424	57	13	8	2	4	84
1990	99	147	21	566	413	7	2	1,255	31	6	4	1	1	43
1991	93	126	20	461	442	8	1	1,150	35	6	3	1	1	46
1992	77	138	18	388	427	6	1	1,054	31	5	3	1	(s)	41
1993	67	155	17	394	345	5	(s)	983	37	7	4	2	1	50
1994	69	152	16	374	351	4	(s)	967	31	9	6	2	1	49
1995	60	129	14	213	384	3	(s)	804	36	11	6	1	(s)	54
1996	60	136	11	280	371	4	1	862	43	10	7	2	(s)	62
1997	52	124	10	300	327	3	(s)	816	45	12	7	1	(s)	66
1998	47	117	8	420	367	2	(s)	961	52	15	8	2	1	78
1999	42	111	8	326	381	2	(s)	869	54	13	4	2	1	73
2000	43	103	10	284	417	2	(s)	859	46	14	6	2	(s)	67
2001	42	114	9	368	353	1	(s)	888	46	15	9	2	(s)	72
2002	37	82	7	233	316	(s)	(s)	676	29	8	5	1	(s)	43

¹ Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

² Sales to railroads are included in "Other."

E = Annual estimate based on eleven months of data. — = Not applicable. (s)=Less than 0.5 thousand barrels per day.

Notes: • All historical data are revised due to a change from "adjusted sales" to "sales" (unadjusted) data. Data in this table in the *Annual Energy Review 2002* (Table 5.13) were adjusted so that the totals for distillate fuel oil, residual fuel oil, and kerosene equaled the total product supplied for those fuels (see Table

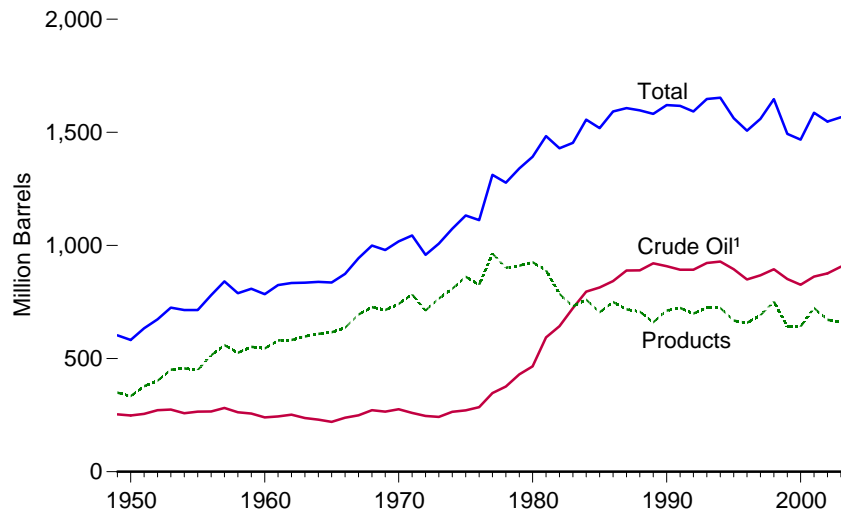
5.11). Data in the current table are "sales" (unadjusted) data from Energy Information Administration (EIA), Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," and on-highway diesel data from the Federal Highway Administration. • Totals may not equal sum of components due to independent rounding.

Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.

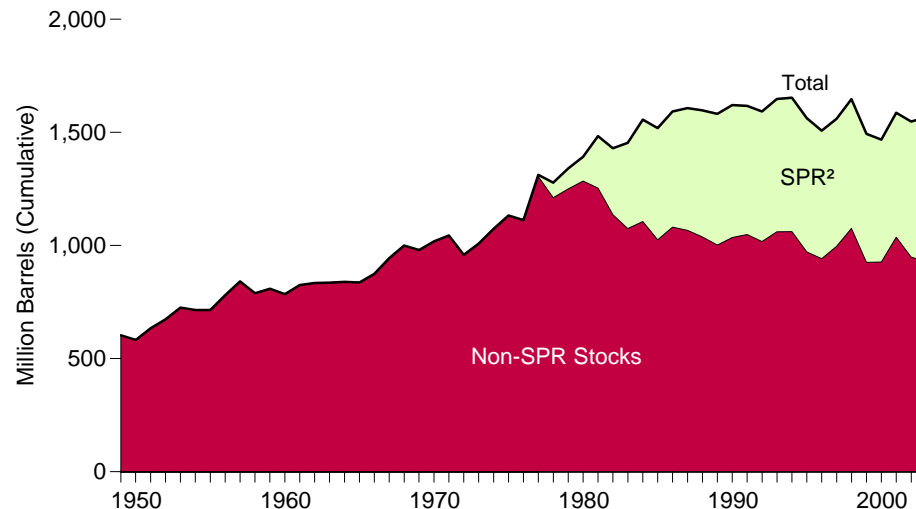
Sources: • 1984—EIA, *Petroleum Marketing Annual 1988* (October 1989), Tables A1-A3. • 1985-1997—EIA, *Fuel Oil and Kerosene Sales*, annual reports, Tables 1-3. • 1998 forward—EIA, *Fuel Oil and Kerosene Sales 2002* (November 2003), Tables 1-3.

Figure 5.16 Petroleum Primary Stocks by Type

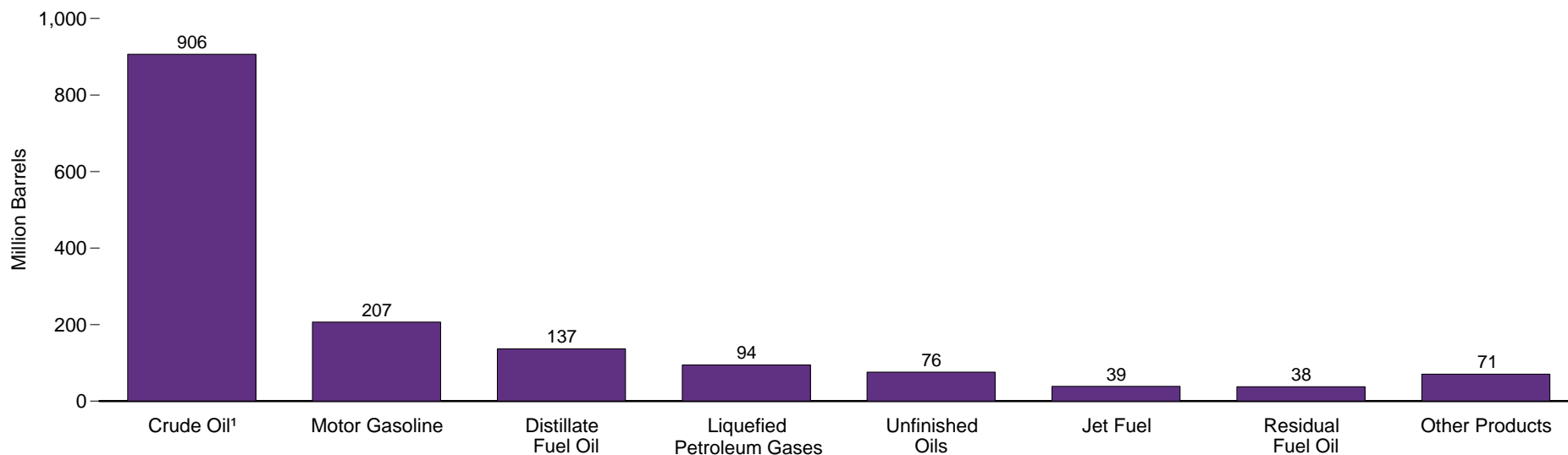
Total, Crude Oil¹, and Products, 1949-2003



Total Stocks and the Strategic Petroleum Reserve, 1949-2003



By Type, 2003



¹ Includes lease condensate and crude oil stored in the Strategic Petroleum Reserve (SPR).

² See Figure 5.17 for additional Strategic Petroleum Reserve Information.

Notes: • Stocks are at end of year. • Because vertical scales differ, graphs should not be compared.

Sources: Table 5.16.

Table 5.16 Petroleum Primary Stocks by Type, Selected Years, 1949-2003

(Million Barrels)

Year	Crude Oil and Lease Condensate			Petroleum Products										Total Petroleum	
	Strategic Petroleum Reserve	Other Primary	Total	Distillate Fuel Oil		Jet Fuel ²	Liquefied Petroleum Gases		Motor Gasoline ⁴	Residual Fuel Oil	Unfinished Oils	Other Products ⁵	Total Products		
				Low Sulfur ¹	Total		Propane ³	Total							
1949	0	253	253	NA	75	(²)	(⁶)	1	110	60	66	37	350	603	
1950	0	248	248	NA	72	(²)	(⁶)	2	116	41	70	34	334	583	
1955	0	266	266	NA	111	3	(⁶)	7	165	39	68	55	449	715	
1960	0	240	240	NA	138	7	(⁶)	23	195	45	62	76	545	785	
1965	0	220	220	NA	155	19	(⁶)	30	175	56	89	92	616	836	
1970	0	276	276	NA	195	28	(⁶)	67	209	54	99	89	741	1,018	
1971	0	260	260	NA	191	28	(⁶)	95	219	60	101	92	784	1,044	
1972	0	246	246	NA	154	25	(⁶)	86	213	55	95	84	713	959	
1973	0	242	242	NA	196	29	(⁶)	99	209	53	99	80	766	1,008	
1974	0	265	265	NA	200	29	(⁶)	113	218	60	106	82	809	1,074	
1975	0	271	271	NA	209	30	(⁶)	82	235	74	106	82	862	1,133	
1976	0	285	285	NA	186	32	(⁶)	74	231	72	110	78	826	1,112	
1977	7	340	348	NA	250	35	(⁶)	81	136	258	90	113	82	964	1,312
1978	67	309	376	NA	216	34	(⁶)	87	132	238	90	109	82	901	1,278
1979	91	339	430	NA	229	39	(⁶)	64	111	237	96	118	82	911	1,341
1980	108	358	466	NA	205	42	(⁶)	65	120	261	92	124	82	926	1,392
1981	230	363	594	NA	192	41	(⁶)	76	135	253	78	111	80	890	1,484
1982	294	350	644	NA	179	37	(⁶)	54	94	235	66	105	70	786	1,430
1983	379	344	723	NA	140	39	(⁶)	48	101	222	49	108	72	731	1,454
1984	451	345	796	NA	161	42	(⁶)	58	101	243	53	94	67	760	1,556
1985	493	321	814	NA	144	40	(⁶)	39	74	223	50	107	67	705	1,519
1986	512	331	843	NA	155	50	(⁶)	63	103	233	47	94	68	750	1,593
1987	541	349	890	NA	134	50	(⁶)	48	97	226	47	93	70	718	1,607
1988	560	330	890	NA	124	44	(⁶)	50	97	228	45	100	70	707	1,597
1989	580	341	921	NA	106	41	(⁶)	32	80	213	44	106	70	660	1,581
1990	586	323	908	NA	132	52	(⁶)	49	98	220	49	99	63	712	1,621
1991	569	325	893	NA	144	49	(⁶)	48	92	219	50	98	72	724	1,617
1992	575	318	893	NA	141	43	(⁶)	39	89	216	43	95	73	699	1,592
1993	587	335	922	64	141	40	(⁶)	51	106	226	44	88	78	725	1,647
1994	592	337	929	73	145	47	(⁶)	46	99	215	42	91	84	724	1,653
1995	592	303	895	67	130	40	(⁶)	43	93	202	37	86	79	668	1,563
1996	566	284	850	68	127	40	(⁶)	43	86	195	46	88	76	658	1,507
1997	563	305	868	68	138	44	(⁶)	44	89	210	40	89	81	692	1,560
1998	571	324	895	77	156	45	(⁶)	65	115	216	45	91	85	752	1,647
1999	567	284	852	69	125	41	(⁶)	43	89	193	36	86	70	641	1,493
2000	541	286	826	72	118	45	(⁶)	41	83	196	36	87	77	641	1,468
2001	550	312	862	82	145	42	(⁶)	66	121	210	41	88	78	724	1,586
2002	599	278	877	81	134	^R 39	(⁶)	53	106	^R 209	31	76	76	^R 671	^R 1,548
2003 ^P	638	268	906	82	137	39	(⁶)	49	94	207	38	76	71	661	1,567

¹ Sulfur content of 0.05 percent or less by weight.

² Through 1951, naphtha-type jet fuel is included in the products from which it was blended: in 1952, 71 percent gasoline, 17 percent kerosene, and 12 percent distillate fuel oil. Through 1964, kerosene-type jet fuel is included with kerosene in "Other Products."

³ Includes propylene.

⁴ Finished motor gasoline and motor gasoline blending components. Through 1963, also includes aviation gasoline and special naphthas.

⁵ Asphalt and road oil, aviation gasoline blending components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, waxes, other hydrocarbons and oxygenates, and miscellaneous products. Through 1964, also includes kerosene-type jet fuel. Beginning in 1964, also includes aviation gasoline and special naphthas.

⁶ Included in "Liquefied Petroleum Gases Total."

R=Revised. P=Preliminary. NA=Not available.

Notes: • Stocks are at end of year. • Distillate stocks in the "Northeast Heating Oil Reserve" are not included. • Totals may not equal sum of components due to independent rounding.

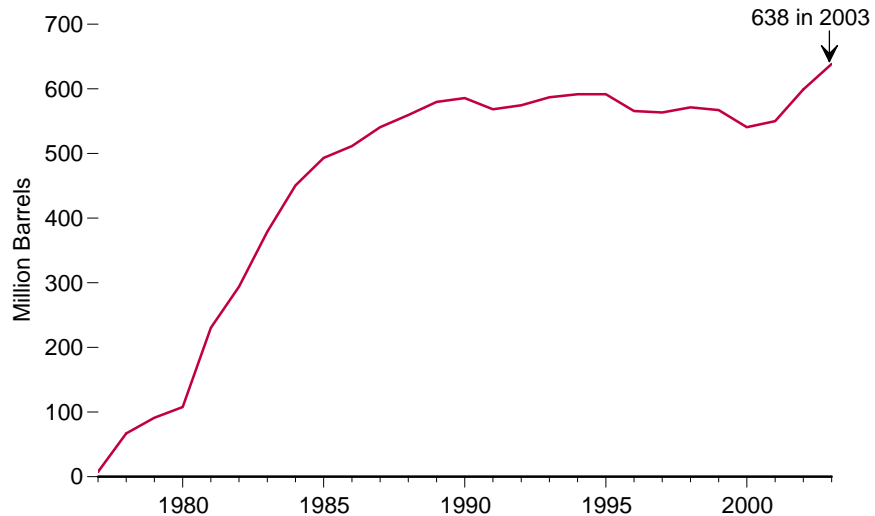
 Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

 • For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html

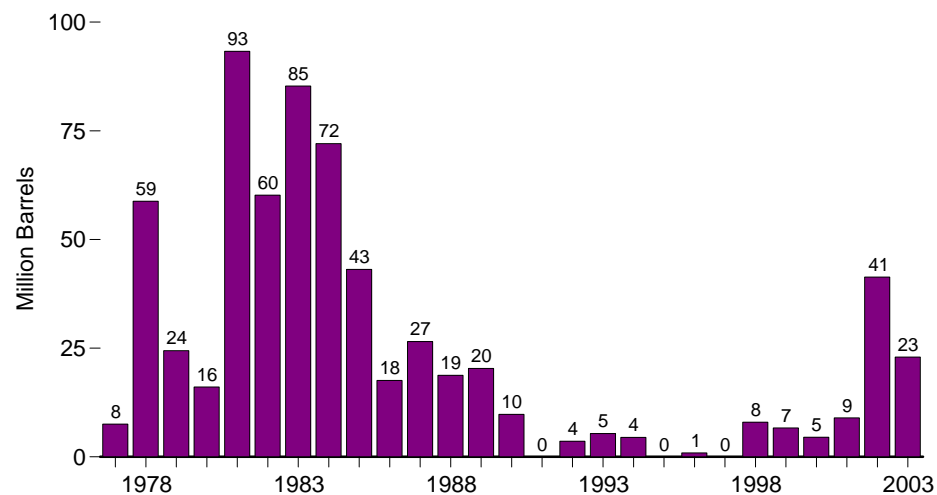
 Sources: • 1949-1975—Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980—Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.17 Strategic Petroleum Reserve, 1977-2003

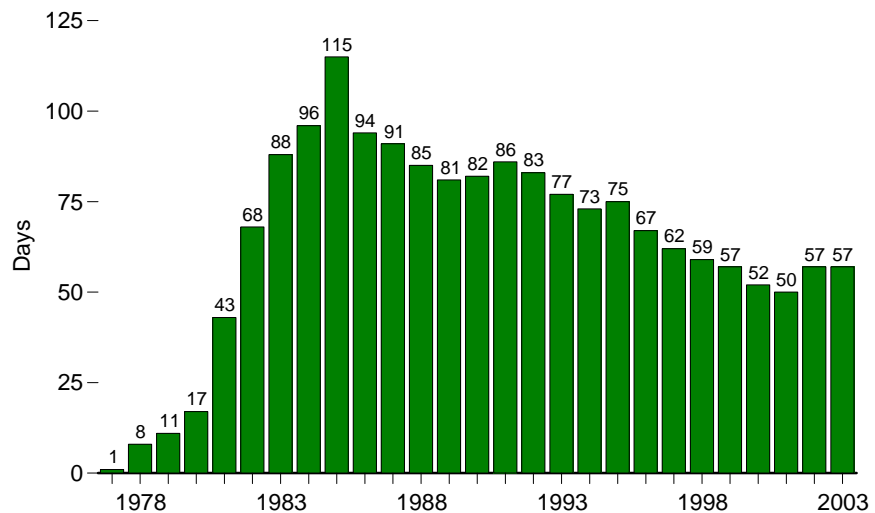
End-of-Year Stocks in SPR



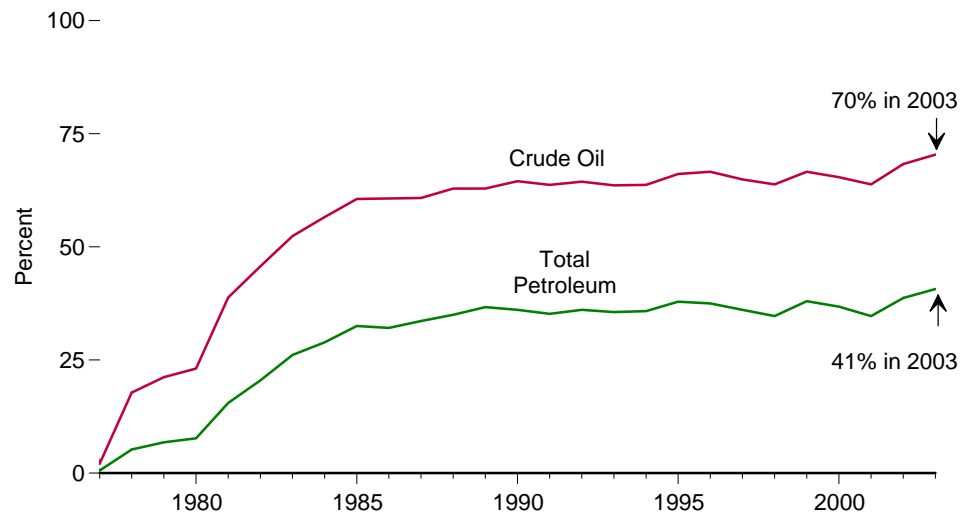
Crude Oil Imports for SPR¹



SPR Stocks as Days' Worth of Net Imports²



SPR as Share of Domestic Stocks



¹ Imported by SPR and imported by others for SPR.

² Derived by dividing end-of-year SPR stocks by annual average daily net imports of all petroleum.

Notes: • SPR=Strategic Petroleum Reserve. • Because vertical scales differ, graphs should not be compared.

Source: Table 5.17.

Table 5.17 Strategic Petroleum Reserve, 1977-2003

(Million Barrels, Except as Noted)

Year	Foreign Crude Oil Receipts		Domestic Crude Oil Receipts		Withdrawals		End-of-Year Stocks			Days of Net Petroleum Imports ⁵
	Imported by SPR	Imported by Others ^{1,2}	Purchases	Exchanges ²	Sales	Exchanges	Quantity ³	Share of Crude Oil ⁴ (percent)	Share of Total Petroleum Stocks (percent)	
1977	7.54	0.00	⁶ 0.37	0.00	0.00	0.00	7.46	2.1	0.6	1
1978	58.80	0.00	0.00	0.00	0.00	0.00	66.86	17.8	5.2	8
1979	24.43	0.00	(s)	0.00	0.00	0.00	91.19	21.2	6.8	11
1980	16.07	0.00	1.30	0.00	0.00	0.00	107.80	23.1	7.7	17
1981	93.30	0.00	28.79	0.00	0.00	0.00	230.34	38.8	15.5	43
1982	60.19	0.00	3.79	0.00	0.00	0.00	293.83	45.7	20.5	68
1983	85.29	0.00	0.42	0.00	0.00	0.00	379.09	52.4	26.1	88
1984	72.04	0.00	0.05	0.00	0.00	0.00	450.51	56.6	28.9	96
1985	43.12	0.00	0.17	0.00	0.00	0.00	493.32	60.6	32.5	115
1986	17.56	0.00	1.21	0.00	0.00	0.00	511.57	60.7	32.1	94
1987	26.52	0.00	2.69	0.00	0.00	0.00	540.65	60.8	33.6	91
1988	18.76	0.00	0.01	0.00	0.00	0.00	559.52	62.9	35.0	85
1989	20.35	0.00	0.00	0.00	0.00	0.00	579.86	62.9	36.7	81
1990	9.77	0.00	0.00	0.00	3.91	0.00	585.69	64.5	36.1	82
1991	0.00	0.00	0.00	0.00	17.22	0.00	568.51	63.7	35.2	86
1992	3.59	0.00	2.60	0.00	0.00	0.00	574.72	64.4	36.1	83
1993	5.37	0.00	6.96	0.00	0.00	0.00	587.08	63.6	35.6	77
1994	4.49	0.00	0.11	0.00	0.00	0.00	591.67	63.7	35.8	73
1995	0.00	0.00	0.00	0.00	0.00	0.00	591.64	66.1	37.9	75
1996	0.00	0.90	0.00	0.00	25.82	0.90	565.82	66.6	37.5	67
1997	0.00	0.00	0.00	0.00	2.33	0.00	563.43	64.9	36.1	62
1998	0.00	7.98	0.00	0.00	0.00	0.00	571.41	63.8	34.7	59
1999	3.04	3.60	0.00	1.42	0.00	10.75	567.24	66.6	38.0	57
2000	3.01	1.50	0.00	2.29	0.00	733.35	540.68	65.4	36.8	52
2001	3.91	5.07	0.58	0.00	0.00	0.00	550.24	63.8	34.7	50
2002	5.77	35.59	0.00	7.64	0.00	0.00	599.09	68.3	^R 38.7	^R 57
2003	0.00	22.94	0.00	16.40	0.00	0.00	638.39	70.4	40.7	57

¹ Imported crude oil received represents volumes of imported crude oil received at SPR storage facilities for which the costs associated with the importation and delivery of crude oil are the responsibility of the commercial importer under contract to supply the SPR.

² The values shown for 1998 and 1999 represent an exchange agreement in which SPR received approximately 8.5 million barrels of high quality oil in exchange for approximately 11 million barrels of lower quality crude oil shipped from SPR during 1999 and 2000. Also, beginning in 1999, a portion of the crude oil in-kind royalties from Federal leases in the Gulf of Mexico was transferred to the Department of Energy and exchanged with commercial entities for crude oil to fill the SPR. Crude oil exchange barrels delivered to SPR could be either domestic or imported as long as the crude oil met the specification requirements of SPR. All exchange barrels of imported crude oil are included in "Foreign Crude Oil Receipts, Imported by Others," while exchange barrels of domestic crude oil are included in "Domestic Crude Oil Receipts, Exchanges."

³ Stocks do not include imported quantities in transit to SPR terminals, pipeline fill, and above-ground storage.

⁴ Includes lease condensate stocks.

⁵ Derived by dividing end-of-year SPR stocks by annual average daily net imports of all petroleum.

Calculated prior to rounding.

⁶ The quantity of domestic fuel oil which was in storage prior to injection of foreign crude oil.

⁷ Includes 30 million barrels released to increase heating oil stocks in exchange for a like quantity plus a bonus percentage to be returned in 2001 and 2002, as well as additional barrels to create a Northeast Home Heating Oil Reserve.

R=Revised. (s)=Less than 0.005 million barrels.

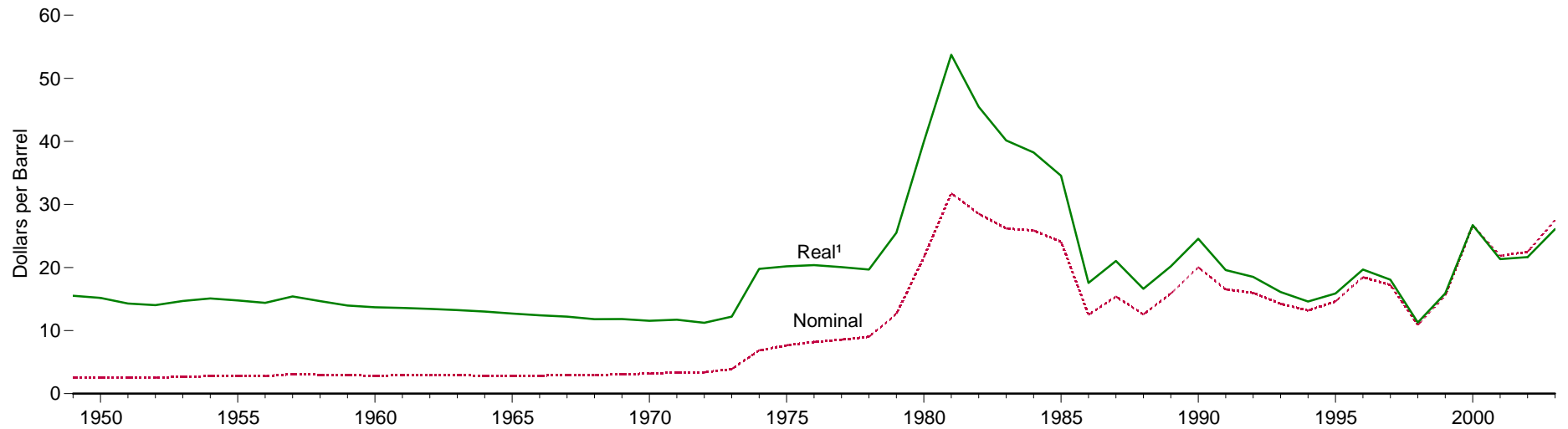
Note: "SPR" is the Strategic Petroleum Reserve—petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.

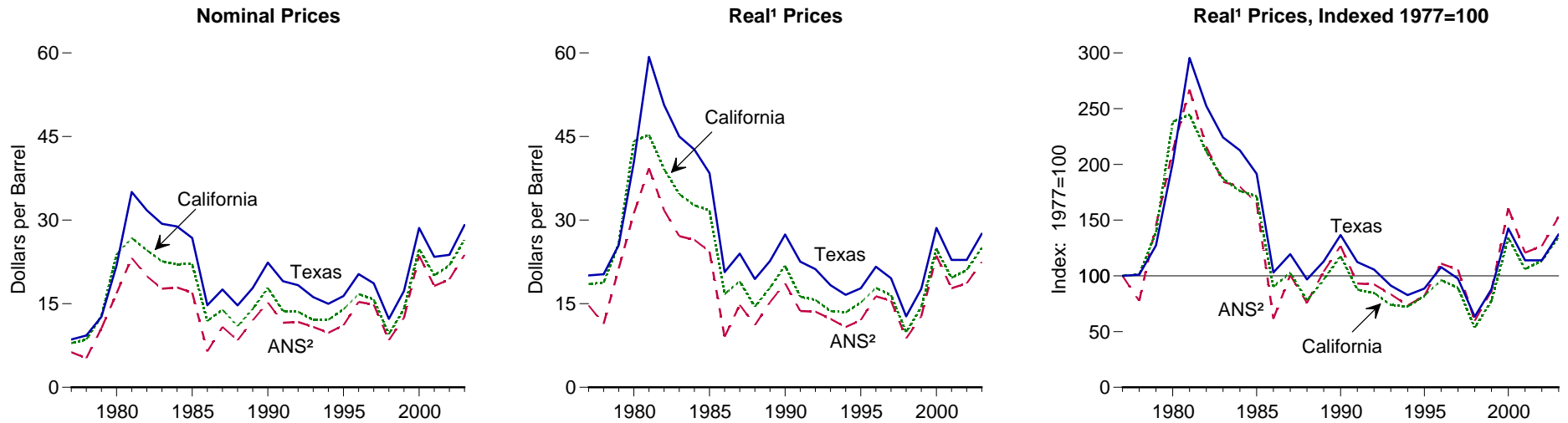
Sources: **Imported by Others, Domestic Crude Oil Receipts, and Withdrawals:** U.S. Department of Energy, Assistant Secretary for Fossil Energy, unpublished data. **All Other Data:** • 1977-1980—Energy Information Administration (EIA), Energy Data Report, *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.18 Crude Oil Domestic First Purchase Prices

U.S. Average Real¹ and Nominal Prices, 1949-2003



Alaska North Slope, California, and Texas 1977-2003



¹ In chained (2000) dollars, calculated by using gross domestic product implicit price deflators. See Table D1.

² Alaska North Slope. Source: Table 5.18.

Table 5.18 Crude Oil Domestic First Purchase Prices, Selected Years, 1949-2003

(Dollars per Barrel)

Year	Alaska North Slope		California		Texas		U.S. Average	
	Nominal	Real ¹	Nominal	Real ¹	Nominal	Real ¹	Nominal	Real ¹
1949	—	—	—	—	—	—	2.54	R15.53
1950	—	—	—	—	—	—	2.51	R15.18
1955	—	—	—	—	—	—	2.77	R14.78
1960	—	—	—	—	—	—	2.88	R13.69
1965	—	—	—	—	—	—	2.86	R12.69
1970	—	—	—	—	—	—	3.18	R11.55
1971	—	—	—	—	—	—	3.39	R11.73
1972	—	—	—	—	—	—	3.39	R11.24
1973	—	—	—	—	—	—	3.89	R12.21
1974	—	—	—	—	—	—	6.87	R19.78
1975	—	—	—	—	—	—	7.67	R20.18
1976	—	—	—	—	—	—	8.19	R20.38
1977	² 6.29	² R14.71	7.92	R18.53	8.58	R20.07	8.57	R20.05
1978	5.21	R11.39	8.58	R18.75	9.29	R20.30	9.00	R19.67
1979	10.57	R21.33	12.78	R25.79	12.65	R25.53	12.64	R25.51
1980	16.87	R31.22	23.87	R44.17	21.84	R40.41	21.59	R39.95
1981	23.23	R39.29	26.80	R45.33	35.06	R59.30	31.77	R53.74
1982	19.92	R31.76	24.58	R39.19	31.77	R50.65	28.52	R45.47
1983	17.69	R27.13	22.61	R34.67	29.35	R45.01	26.19	R40.16
1984	17.91	R26.47	22.09	R32.65	28.87	R42.67	25.88	R38.25
1985	16.98	R24.36	22.14	R31.76	26.80	R38.44	24.09	R34.56
1986	6.45	R9.05	11.90	R16.70	14.73	R20.67	12.51	R17.56
1987	10.83	R14.80	13.92	R19.02	17.55	R23.98	15.40	R21.04
1988	8.43	R11.14	10.97	R14.49	14.71	R19.43	12.58	R16.62
1989	12.00	R15.28	14.06	R17.90	17.81	R22.67	15.86	R20.19
1990	15.23	R18.67	17.81	R21.83	22.37	R27.42	20.03	R24.55
1991	11.57	R13.70	13.72	R16.25	19.04	R22.55	16.54	R19.59
1992	11.73	R13.58	13.55	R15.69	18.32	R21.21	15.99	R18.51
1993	10.84	R12.27	12.11	R13.70	16.19	R18.32	14.25	R16.12
1994	9.77	R10.82	12.12	R13.43	14.98	R16.60	13.19	R14.61
1995	11.12	R12.07	14.00	R15.20	16.38	R17.78	14.62	R15.87
1996	15.32	R16.32	16.72	R17.82	20.31	R21.64	18.46	R19.67
1997	14.84	R15.55	15.78	R16.54	18.66	R19.56	17.23	R18.06
1998	8.47	R8.78	9.55	R9.90	12.28	R12.73	10.87	R11.27
1999	12.46	R12.73	14.08	R14.39	17.29	R17.67	15.56	R15.90
2000	23.62	R23.62	24.82	R24.82	28.60	R28.60	26.72	R26.72
2001	18.18	R17.76	20.11	R19.64	23.41	R22.87	21.84	R21.33
2002	19.37	R18.63	21.87	R21.04	23.77	R22.87	22.51	R21.66
2003 ^P	23.78	22.50	26.43	25.01	29.13	27.57	27.56	26.08

¹ In chained (2000) dollars, calculated by using gross domestic product implicit price deflators. See Table D1.

² Average for July through December only.

R=Revised. P=Preliminary. — = Not applicable.

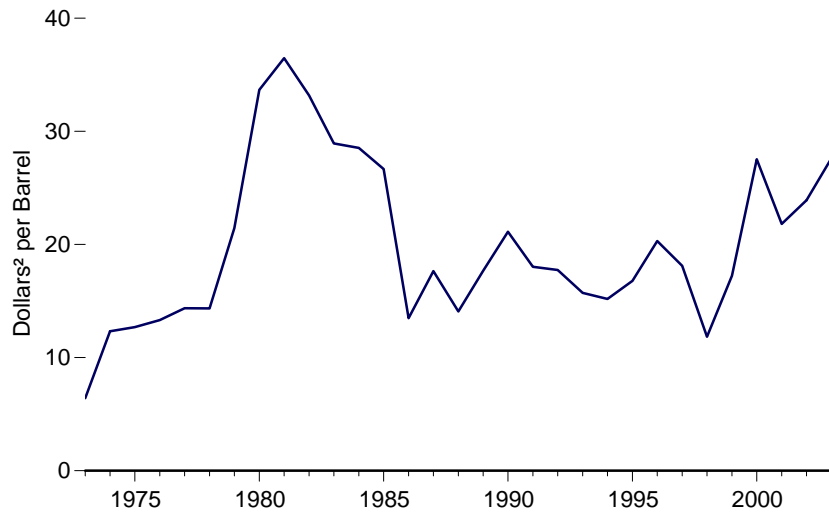
Note: Prices are for the marketed first sales price of domestic crude oil. See Note 5, "Crude Oil Domestic First Purchase Prices," at end of section.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

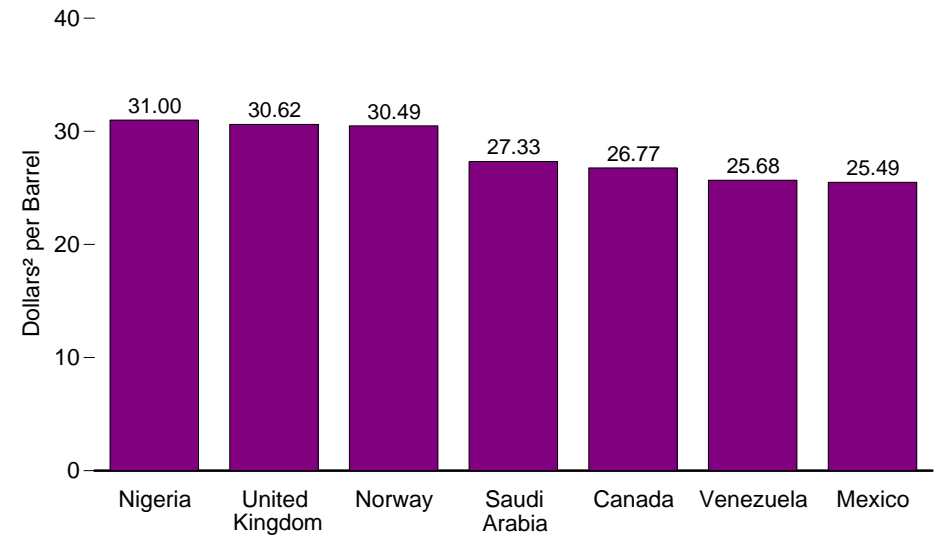
• For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html
 Sources: • 1949-1973—Bureau of Mines, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter. • 1974 through January 1976—Federal Energy Administration (FEA), Form FEA-90, "Crude Petroleum Production Monthly Report." • February 1976 through 1977—FEA, Form FEA-P-124, "Domestic Crude Oil Purchaser's Monthly Report." • 1978 forward—Energy Information Administration, *Petroleum Marketing Monthly* (March 2004), Table 21.

Figure 5.19 Landed Costs of Crude Oil Imports From Selected Countries

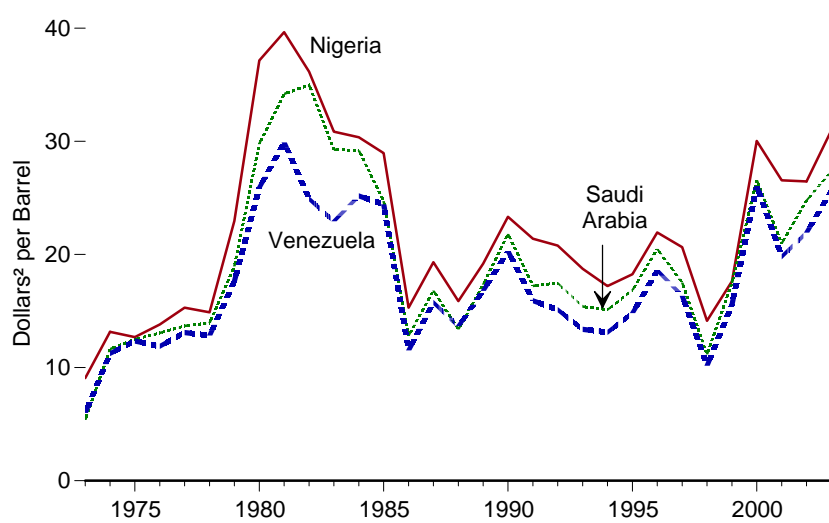
Total, 1973¹-2003



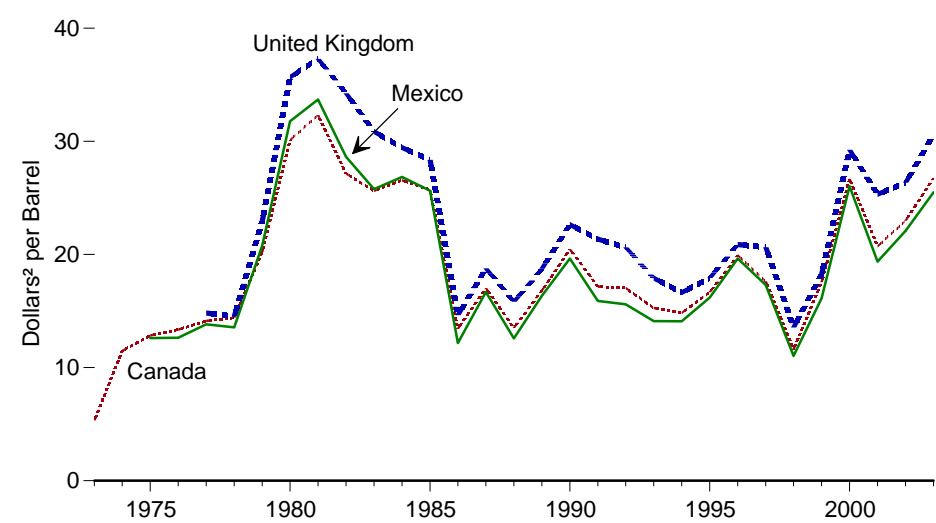
By Selected Country, 2003



By Selected OPEC Country, 1973¹-2003



By Selected Non-OPEC Country, 1973¹-2003



¹ Based on October, November, and December data only.
² Nominal dollars.

Source: Table 5.19

Table 5.19 Landed Costs of Crude Oil Imports From Selected Countries, 1973-2003

(Dollars¹ per Barrel)

Year	Persian Gulf Nations ³	Selected OPEC ² Countries					Selected Non-OPEC Countries							Total
		Kuwait	Nigeria	Saudi Arabia	Venezuela	Total OPEC ⁴	Angola	Canada	Colombia	Mexico	Norway	United Kingdom	Total Non-OPEC	
1973 ⁵	5.91	W	9.08	5.37	5.99	6.85	W	5.33	W	NA	NA	NA	5.64	6.41
1974	12.21	W	13.16	11.63	11.25	12.49	12.48	11.48	W	W	NA	NA	11.81	12.32
1975	12.64	W	12.70	12.50	12.36	12.70	11.81	12.84	(⁶)	12.61	12.80	NA	12.70	12.70
1976	13.03	W	13.81	13.06	11.89	13.32	12.71	13.36	(⁶)	12.64	13.74	W	13.35	13.32
1977	13.85	W	15.29	13.69	13.11	14.35	14.04	14.13	(⁶)	13.82	14.93	14.83	14.42	14.36
1978	14.01	W	14.88	13.94	12.84	14.34	14.07	14.41	(⁶)	13.56	14.68	14.53	14.38	14.35
1979	20.42	W	22.97	18.95	17.65	21.29	21.06	20.22	(⁶)	20.77	22.55	22.97	22.10	21.45
1980	30.59	W	37.15	29.80	25.92	33.56	34.76	30.11	W	31.77	36.82	35.68	33.99	33.67
1981	34.61	NA	39.66	34.20	29.91	36.60	36.84	32.32	(⁶)	33.70	38.70	37.29	36.14	36.47
1982	34.94	NA	36.16	34.99	24.93	34.81	33.08	27.15	(⁶)	28.63	34.70	34.25	31.47	33.18
1983	29.37	NA	30.85	29.27	22.94	29.84	29.31	25.63	(⁶)	25.78	30.72	30.87	28.08	28.93
1984	29.07	W	30.36	29.20	25.19	29.06	28.49	26.56	(⁶)	26.85	30.05	29.45	28.14	28.54
1985	25.50	NA	28.96	24.72	24.43	26.86	27.39	25.71	(⁶)	25.63	28.32	28.36	26.53	26.67
1986	12.92	11.70	15.29	12.84	11.52	13.46	14.09	13.43	12.85	12.17	15.98	14.63	13.52	13.49
1987	17.47	18.14	19.32	16.81	15.76	17.64	18.20	17.04	18.43	16.69	19.10	18.78	17.66	17.65
1988	13.51	12.84	15.88	13.37	13.66	14.18	14.48	13.50	14.47	12.58	15.43	15.82	13.96	14.08
1989	17.37	16.90	19.19	17.34	16.78	17.78	18.36	16.81	18.10	16.35	19.06	18.74	17.54	17.68
1990	20.55	17.01	23.33	21.82	20.31	21.23	21.51	20.48	22.34	19.64	21.11	22.65	20.98	21.13
1991	17.34	18.48	21.39	17.22	15.92	18.08	19.90	17.16	19.55	15.89	21.44	21.37	17.93	18.02
1992	17.58	16.99	20.78	17.48	15.13	17.81	19.36	17.04	18.46	15.60	20.90	20.63	17.67	17.75
1993	15.26	14.23	18.73	15.40	13.39	15.68	17.40	15.27	16.54	14.11	18.99	17.92	15.78	15.72
1994	15.00	14.49	17.21	15.11	13.12	15.08	16.36	14.83	15.80	14.09	17.09	16.64	15.29	15.18
1995	16.78	16.47	18.25	16.84	14.81	16.61	17.66	16.65	17.45	16.19	18.06	17.91	16.95	16.78
1996	^R 20.45	20.32	21.95	20.49	18.59	20.14	21.86	19.94	22.02	19.64	21.34	20.88	20.47	20.31
1997	17.44	17.03	20.64	17.52	16.35	17.73	20.24	17.63	19.71	17.30	20.26	20.64	18.45	18.11
1998	11.18	11.00	14.14	11.16	10.16	11.46	13.37	11.62	13.26	11.04	13.83	13.55	12.22	11.84
1999	17.37	16.77	17.63	17.48	15.58	16.94	18.37	17.54	18.09	16.12	19.06	18.26	17.51	17.23
2000	26.77	26.28	30.04	26.58	26.05	27.29	29.57	26.69	29.68	26.03	30.13	29.26	27.80	27.53
2001	20.73	19.66	26.55	20.98	19.81	21.52	25.13	20.72	25.88	19.37	25.77	25.32	22.17	21.82
2002	^R 24.13	^R 23.04	^R 26.45	^R 24.77	^R 21.93	^R 23.83	^R 25.43	^R 22.98	^R 25.28	22.09	^R 26.60	^R 26.35	^R 23.97	^R 23.91
2003 ^P	27.41	26.76	31.00	27.33	25.68	27.60	30.08	26.77	30.56	25.49	30.49	30.62	27.66	27.63

¹ Nominal dollars.

² Organization of Petroleum Exporting Countries. See Glossary for current membership.

³ Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

⁴ Ecuador, which withdrew from OPEC on December 31, 1992, is included through 1992. In June 1996, OPEC retroactively ended Gabon's membership in OPEC effective December 31, 1994. However, data for Gabon are still included here for 1995.

⁵ Based on October, November, and December data only.

⁶ No data reported.

R=Revised. P=Preliminary. NA=Not available. W=Value withheld to avoid disclosure of individual company data.

Notes: • This table reports landed costs of crude oil imports only; it does not account for refined

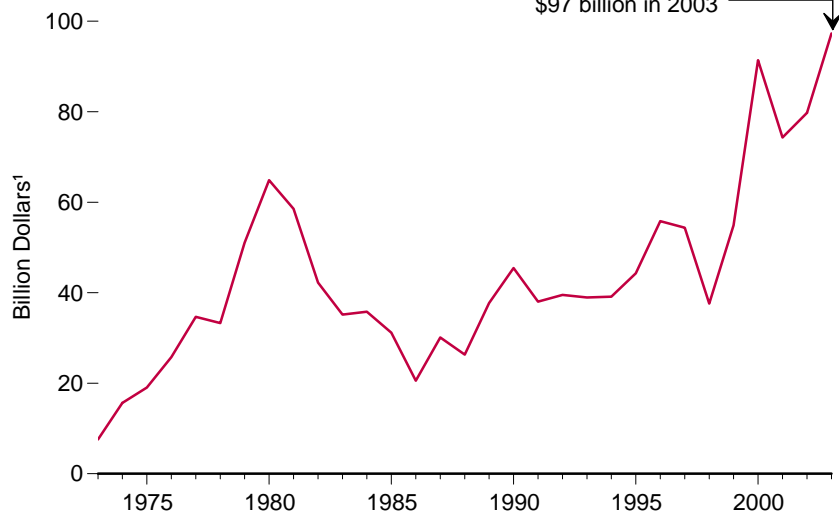
petroleum products imported into the United States. • Data include any imports for the Strategic Petroleum Reserve, which began in 1977. • See "Crude Oil Landed Cost" in Glossary. • Totals may not equal sum of components due to independent rounding.

Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.

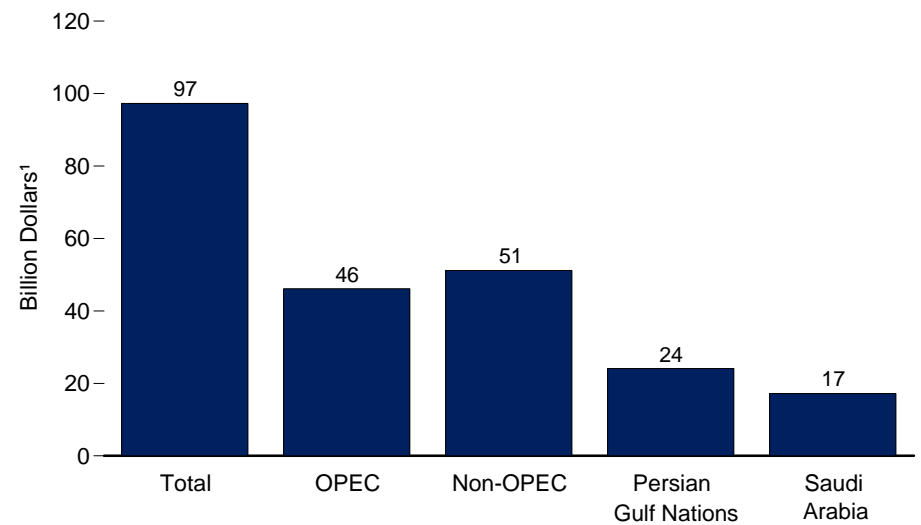
Sources: • 1973 through September 1977—Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." • October 1977 through January 1979—Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • February 1979 through September 1982—EIA, Form ERA-51, "Transfer Pricing Report." • October 1982 through June 1984—EIA, Form EP-51, "Monthly Foreign Crude Oil Transaction Report." • July 1984 forward—EIA, Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report."

Figure 5.20 Value of Crude Oil Imports

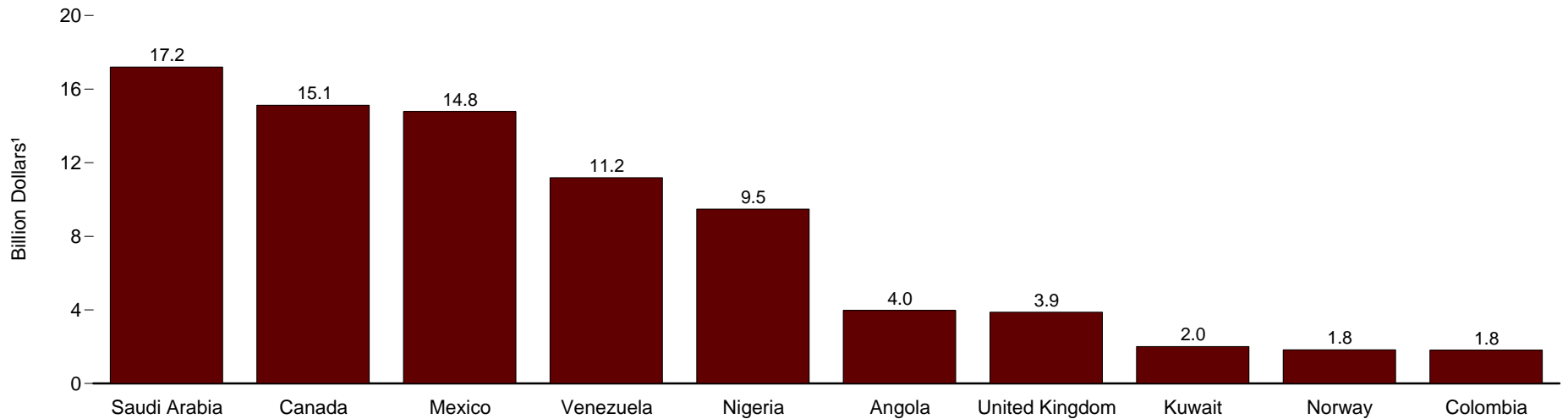
Total, 1973-2003



Totals, 2003



By Selected Country, 2003



¹ Nominal dollars.

Notes: • OPEC=Organization of Petroleum Exporting Countries. • Because vertical scales differ, graphs should not be compared.

Source: Table 5.20.

Table 5.20 Value of Crude Oil Imports From Selected Countries, 1973-2003

(Billion Dollars¹)

Year	Persian Gulf Nations ³	Selected OPEC ² Countries					Selected Non-OPEC Countries							Total ⁵
		Kuwait	Nigeria	Saudi Arabia	Venezuela	Total OPEC ⁴	Angola	Canada	Colombia	Mexico	Norway	United Kingdom	Total Non-OPEC	
1973	1.7	W	1.5	0.9	0.8	5.2	W	1.9	W	W	NA	NA	2.4	7.6
1974	4.4	W	3.3	1.9	1.3	11.6	0.2	3.3	NA	W	W	NA	4.1	15.6
1975	5.2	W	3.5	3.2	1.8	14.9	0.3	2.8	NA	0.3	0.1	W	4.1	19.0
1976	8.7	W	5.1	5.8	1.0	22.2	(s)	1.8	W	0.4	0.2	W	3.6	25.8
1977	12.2	W	6.3	6.9	1.2	29.6	0.1	1.4	NA	0.9	0.3	0.5	5.1	34.7
1978	11.3	W	4.9	5.8	0.8	27.1	(s)	1.3	NA	1.6	0.6	0.9	6.2	33.3
1979	15.3	W	9.0	9.3	1.9	39.7	0.3	2.0	NA	3.3	0.6	1.7	11.3	51.0
1980	16.9	W	11.4	13.6	1.5	47.5	0.5	2.2	NA	5.9	1.9	2.3	17.4	64.9
1981	15.1	NA	8.8	13.9	1.6	39.0	0.6	1.9	NA	5.8	1.6	5.0	19.5	58.5
1982	8.4	W	6.7	6.8	1.4	22.0	0.5	2.1	NA	6.7	1.3	5.5	20.2	42.2
1983	4.3	W	3.4	3.4	1.4	16.1	0.8	2.6	NA	7.2	0.7	4.1	19.1	35.2
1984	4.8	W	2.3	3.3	2.3	16.1	0.9	3.3	NA	6.5	1.2	4.1	19.7	35.8
1985	2.3	W	3.0	1.2	2.7	12.9	1.0	4.4	NA	6.7	0.3	2.9	18.3	31.2
1986	3.8	0.1	2.4	2.9	1.8	10.4	0.5	2.8	0.3	2.8	0.3	1.7	10.2	20.6
1987	6.0	0.5	3.7	3.9	2.8	15.5	1.2	3.8	0.8	3.7	0.5	2.1	14.7	30.1
1988	6.7	0.4	3.5	4.4	2.2	14.0	1.1	3.4	0.6	3.1	0.3	1.5	12.3	26.3
1989	11.0	1.0	5.6	7.1	3.0	21.9	1.9	3.9	0.9	4.3	0.9	1.1	15.8	37.7
1990	13.5	0.5	6.7	9.5	4.9	27.2	1.9	4.8	1.1	4.9	0.7	1.3	18.2	45.5
1991	11.0	(s)	5.3	10.7	3.9	22.3	1.8	4.7	0.9	4.4	0.6	0.8	15.7	38.0
1992	10.5	0.2	5.1	10.2	4.6	22.2	2.4	5.0	0.7	4.5	0.9	1.5	17.3	39.5
1993	9.1	1.8	4.9	7.2	4.9	20.7	2.1	5.0	0.9	4.4	0.9	2.0	18.3	38.9
1994	8.8	1.6	3.9	7.2	5.0	19.7	1.9	5.3	0.8	4.8	1.2	2.4	19.4	39.1
1995	9.1	1.3	4.1	7.7	6.2	21.6	2.3	6.3	1.3	6.1	1.7	2.2	22.6	44.3
1996	11.1	1.8	4.8	9.4	8.9	25.3	2.8	7.8	1.8	8.7	2.3	1.6	30.5	55.8
1997	10.4	1.6	5.2	8.3	8.3	24.4	3.1	7.7	1.9	8.6	2.1	1.3	29.9	54.4
1998	8.3	1.2	3.6	5.7	5.1	17.4	2.3	5.4	1.7	5.3	1.1	0.8	20.2	37.6
1999	15.0	1.5	4.0	8.8	6.5	26.1	2.4	7.5	3.0	7.4	1.8	1.9	28.8	54.9
2000	23.6	2.5	9.6	14.8	11.7	45.4	3.2	13.2	3.5	12.5	3.3	3.1	46.0	91.4
2001	20.2	1.7	8.2	12.3	9.3	38.1	2.9	10.3	2.5	9.9	2.6	2.3	36.2	74.3
2002	^R 19.5	1.8	^R 5.7	13.7	9.6	^R 35.5	^R 3.0	^R 12.1	^R 2.2	^R 12.1	^R 3.4	3.9	^R 44.3	^R 79.8
2003 ^P	24.1	2.0	9.5	17.2	11.2	46.1	4.0	15.1	1.8	14.8	1.8	3.9	51.2	97.3

¹ Nominal dollars.

² Organization of Petroleum Exporting Countries. See Glossary for current membership.

³ Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

⁴ Ecuador, which withdrew from OPEC on December 31, 1992, is included through 1992. In June 1996, OPEC retroactively ended Gabon's membership in OPEC effective December 31, 1994. However, data for Gabon are still included here for 1995.

⁵ Data shown here represent landed value; they differ from data in Table 3.5, which are data from U.S. Customs that represent crude oil value at the port of loading.

R=Revised. P=Preliminary. NA=Not available. (s)=Less than \$0.05 billion. W=Value withheld to avoid disclosure of individual company data.

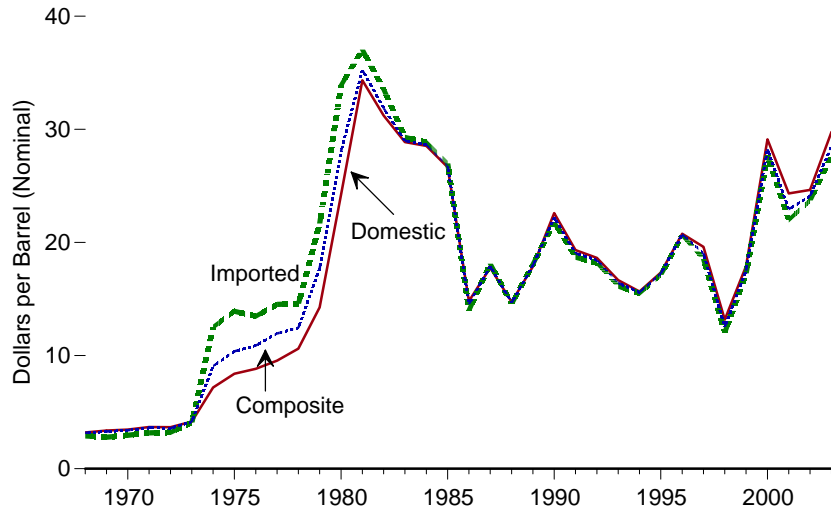
Notes: • Crude oil import volumes used to calculate values in this table are for the 50 states and the District of Columbia. • Totals may not equal sum of components due to independent rounding.

Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.

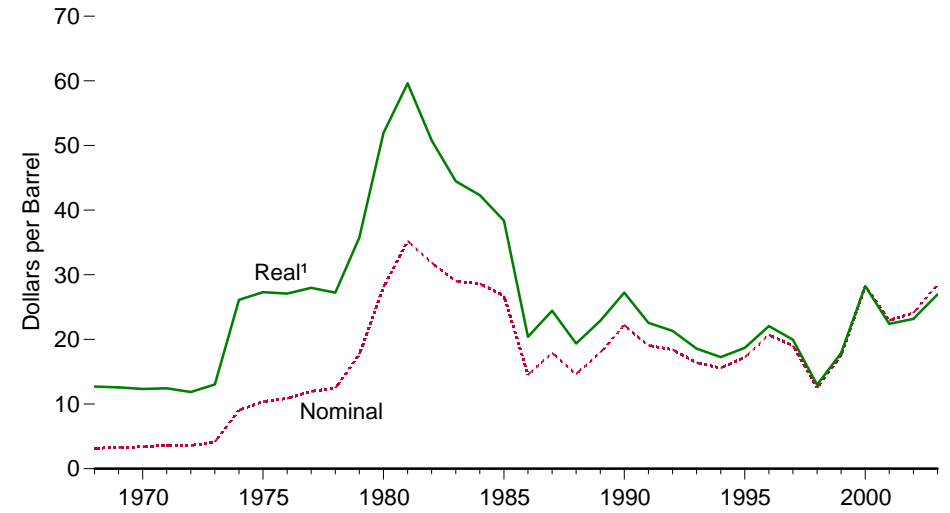
Sources: Calculated by using prices on Table 5.19 and volume data as follows: • 1973-1975—U.S. Department of the Interior, Bureau of Mines, *Petroleum Statement, Annual*, annual reports. • 1976-1980—Energy Information Administration (EIA), *Petroleum Statement, Annual*, annual reports. • 1981-2002—EIA, *Petroleum Supply Annual*, annual reports. • 2003—EIA, *Petroleum Supply Monthly* (February 2004).

Figure 5.21 Crude Oil Refiner Acquisition Costs, 1968-2003

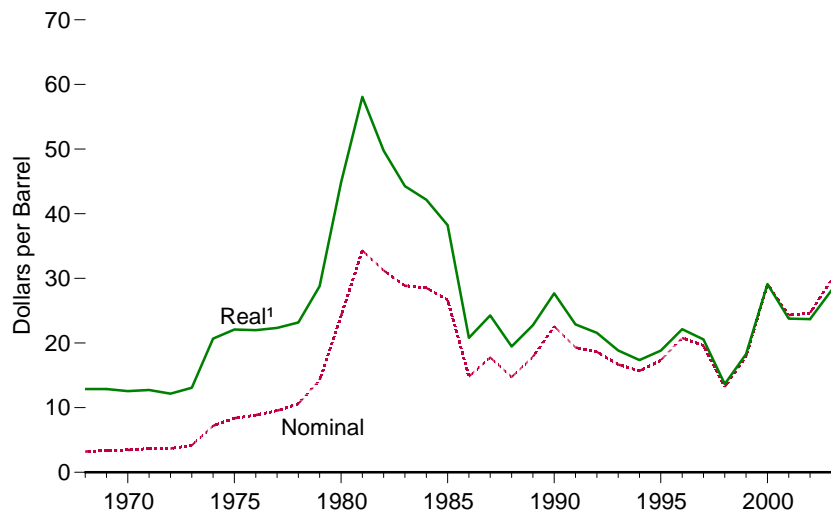
Summary



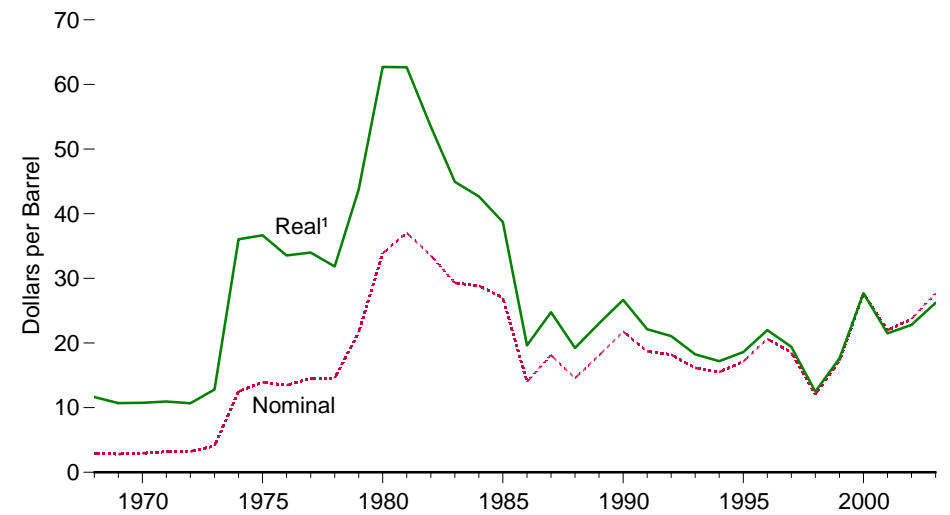
Composite Costs



Domestic Costs



Imported Costs



¹ In chained (2000) dollars, calculated by using gross domestic product implicit price deflators. See Table D1.

Note: Because vertical scales differ, graphs should not be compared.
Source: Table 5.21.

Table 5.21 Crude Oil Refiner Acquisition Costs, 1968-2003

(Dollars per Barrel)

Year	Domestic		Imported		Composite	
	Nominal	Real ¹	Nominal	Real ¹	Nominal	Real ¹
1968 ^E	3.21	R12.88	2.90	R11.64	3.17	R12.72
1969 ^E	3.37	R12.89	2.80	R10.71	3.29	R12.58
1970 ^E	3.46	R12.57	2.96	R10.75	3.40	R12.35
1971 ^E	3.68	R12.73	3.17	R10.96	3.60	R12.45
1972 ^E	3.67	R12.17	3.22	R10.67	3.58	R11.87
1973 ^E	4.17	R13.09	4.08	R12.81	4.15	R13.03
1974	7.18	R20.68	12.52	R36.05	9.07	R26.12
1975	8.39	R22.08	13.93	R36.66	10.38	R27.31
1976	8.84	R21.99	13.48	R33.54	10.89	R27.09
1977	9.55	R22.34	14.53	R33.99	11.96	R27.98
1978	10.61	R23.19	14.57	R31.84	12.46	R27.23
1979	14.27	R28.80	21.67	R43.74	17.72	R35.76
1980	24.23	R44.83	33.89	R62.71	28.07	R51.94
1981	34.33	R58.07	37.05	R62.67	35.24	R59.61
1982	31.22	R49.77	33.55	R53.49	31.87	R50.81
1983	28.87	R44.27	29.30	R44.93	28.99	R44.46
1984	28.53	R42.17	28.88	R42.69	28.63	R42.32
1985	26.66	R38.24	26.99	R38.72	26.75	R38.37
1986	14.82	R20.80	14.00	R19.65	14.55	R20.42
1987	17.76	R24.26	18.13	R24.77	17.90	R24.45
1988	14.74	R19.47	14.56	R19.24	14.67	R19.38
1989	17.87	R22.75	18.08	R23.02	17.97	R22.88
1990	22.59	R27.69	21.76	R26.67	22.22	R27.23
1991	19.33	R22.89	18.70	R22.14	19.06	R22.57
1992	18.63	R21.57	18.20	R21.07	18.43	R21.33
1993	16.67	R18.86	16.14	R18.26	16.41	R18.57
1994	15.67	R17.36	15.51	R17.18	15.59	R17.27
1995	17.33	R18.82	17.14	R18.61	17.23	R18.71
1996	20.77	R22.13	20.64	R21.99	20.71	R22.07
1997	19.61	R20.55	18.53	R19.42	19.04	R19.96
1998	13.18	R13.66	12.04	R12.48	12.52	R12.98
1999	17.90	R18.29	17.26	R17.64	17.51	R17.89
2000	29.11	R29.11	27.70	R27.70	28.26	R28.26
2001	24.33	R23.77	22.00	R21.49	22.95	R22.42
2002	24.65	R23.71	R23.71	R22.81	R24.10	R23.19
2003 ^P	29.76	28.16	27.71	26.22	28.50	26.97

¹ In chained (2000) dollars, calculated by using gross domestic product implicit price deflators. See Table D1.

R=Revised, P=Preliminary, E=Estimate.

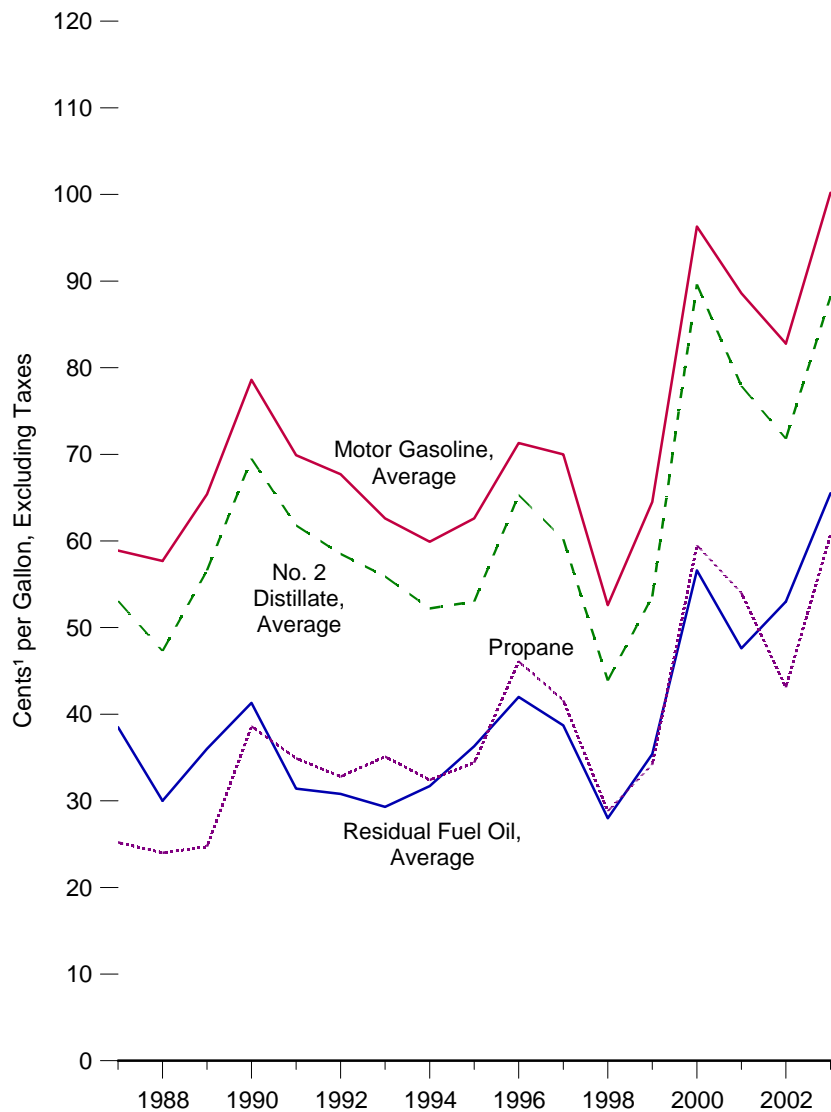
Note: Costs are for crude oil to refiners, including transportation and other fees; they do not include crude oil purchased for the Strategic Petroleum Reserve. The cost for each category and for the composite is derived by dividing the sum of the total purchasing (acquisition) costs of all refiners by the total volume of all refiners' purchases.

Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.

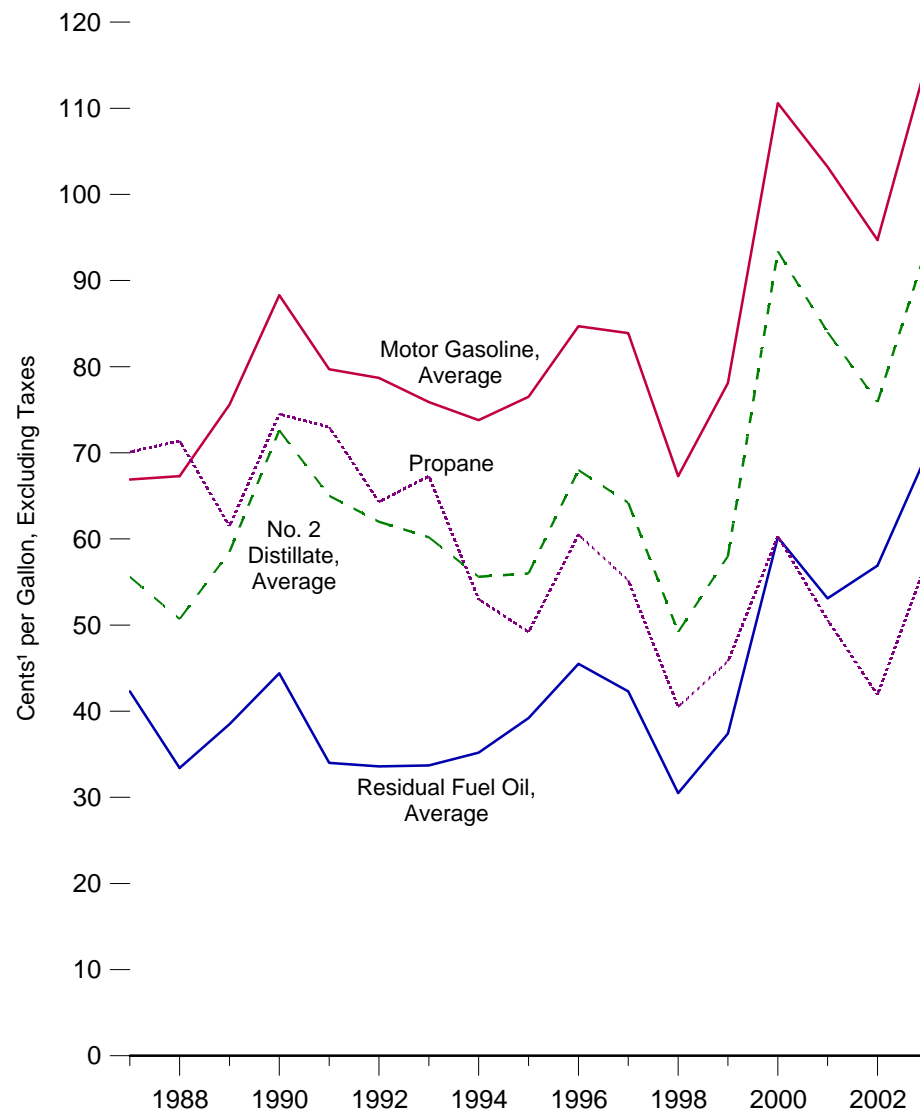
Sources: • 1968-1973—Energy Information Administration (EIA) estimates. The cost of domestic crude oil was derived by adding estimated transportation costs to the reported average domestic first purchase value. The cost of imported crude oil was derived by adding an estimated ocean transport cost based on the published "Average Freight Rate Assessment" to the average "Free Alongside Ship" value published by the U.S. Bureau of the Census. The composite cost was derived by weighting domestic costs and imported costs on the basis of quantities produced and imported. • 1974 through January 1976—Federal Energy Administration (FEA), Form FEA-96, "Monthly Cost Allocation Report." • February 1976 through December 1977—FEA, Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report." • 1978 forward—EIA, *Petroleum Marketing Monthly* (March 2004), Table 1.

Figure 5.22 Refiner Sales Prices for Selected Petroleum Products, 1987-2003

To Resellers



To End Users



¹ Nominal value.

Source: Table 5.22.

Table 5.22 Refiner Sales Prices and Refiner Margins for Selected Petroleum Products, 1987-2003

(Cents¹ per Gallon, Excluding Taxes)

Product	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003 ^P
Sales Prices to Resellers:²																	
Aviation Gasoline	85.9	85.0	95.0	106.3	100.1	99.1	96.5	93.3	97.5	105.5	106.5	91.2	100.7	133.0	125.6	R114.6	129.0
Motor Gasoline	58.9	57.7	65.4	78.6	69.9	67.7	62.6	59.9	62.6	71.3	70.0	52.6	64.5	96.3	88.6	82.8	100.2
Leaded Regular	56.5	54.8	63.1	75.4	65.7	69.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unleaded Regular	56.9	54.8	61.8	75.8	67.2	64.5	59.3	56.6	59.3	68.5	67.3	49.9	62.0	94.2	86.5	R80.6	98.1
Unleaded Midgrade	NA	NA	68.6	81.4	73.3	70.8	66.0	63.8	67.0	75.9	74.9	57.6	69.6	101.3	94.5	88.5	106.0
Premium	67.1	67.2	74.9	87.4	79.2	77.4	72.2	69.5	72.2	80.3	79.2	61.7	72.6	105.5	98.0	92.8	111.1
Kerosene	59.2	54.9	66.9	83.9	72.2	63.2	60.4	61.8	58.0	71.4	65.3	46.5	55.0	96.9	82.1	R75.2	94.9
Jet Fuel, Kerosene-Type	53.8	49.5	58.3	77.3	65.0	60.5	57.7	53.4	53.9	64.6	61.3	45.0	53.3	88.0	76.3	R71.6	87.2
No. 1 Distillate	59.9	54.9	66.8	83.8	73.0	65.2	64.6	61.5	62.5	75.1	72.3	51.3	63.4	101.9	88.3	R80.5	103.4
No. 2 Distillate	53.1	47.3	56.6	69.5	61.8	58.5	55.9	52.2	53.0	65.3	60.2	43.9	53.6	89.6	77.9	71.8	88.2
No. 2 Fuel Oil	52.7	47.3	56.5	69.7	62.2	57.9	54.4	50.6	51.1	63.9	59.0	42.2	49.3	88.6	75.6	R69.4	87.9
No. 2 Diesel Fuel	53.4	47.3	56.7	69.4	61.5	59.1	57.0	52.9	53.8	65.9	60.6	44.4	54.6	89.8	77.5	R72.4	88.3
No. 4 Fuel ³	46.2	42.5	48.0	59.0	55.6	49.5	48.8	46.2	46.3	60.3	55.1	38.3	43.0	77.8	69.7	R66.3	79.3
Residual Fuel Oil	38.5	30.0	36.0	41.3	31.4	30.8	29.3	31.7	36.3	42.0	38.7	28.0	35.4	56.6	47.6	53.0	65.5
1% or Less Sulfur Content	41.2	33.3	40.7	47.2	36.4	35.1	33.7	34.5	38.3	45.6	41.5	29.9	38.2	62.7	52.3	R54.6	72.4
Greater Than 1% Sulfur Content ..	36.2	27.1	33.1	37.2	29.2	28.6	25.6	28.7	33.8	38.9	36.6	26.9	32.9	51.2	42.8	R50.8	58.7
Propane (Consumer Grade)	25.2	24.0	24.7	38.6	34.9	32.8	35.1	32.4	34.4	46.1	41.6	28.8	34.2	59.5	54.0	43.1	60.7
Sales Prices to End Users:²																	
Aviation Gasoline	90.7	89.1	99.5	112.0	104.7	102.7	99.0	95.7	100.5	111.6	112.8	97.5	105.9	130.6	132.3	R128.8	149.2
Motor Gasoline	66.9	67.3	75.6	88.3	79.7	78.7	75.9	73.8	76.5	84.7	83.9	67.3	78.1	110.6	103.2	94.7	115.6
Leaded Regular	61.8	61.9	71.0	83.1	71.5	78.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Unleaded Regular	65.0	64.1	71.4	84.9	76.1	74.3	71.2	68.9	71.7	80.7	79.8	63.0	74.2	107.3	99.7	91.2	112.3
Unleaded Midgrade	NA	NA	79.2	92.1	84.3	82.7	80.5	78.5	80.8	89.6	89.5	72.8	83.5	116.8	110.0	101.0	121.8
Premium	78.4	78.8	86.7	98.5	90.7	91.4	88.9	86.5	89.0	97.2	97.3	80.5	90.6	124.2	117.5	108.8	130.5
Kerosene	77.0	73.8	70.9	92.3	83.8	78.8	75.4	66.0	58.9	74.0	74.5	50.1	60.5	112.3	104.5	R99.0	122.4
Jet Fuel, Kerosene-Type	54.3	51.3	59.2	76.6	65.2	61.0	58.0	53.4	54.0	65.1	61.3	45.2	54.3	89.9	77.5	R72.1	87.3
No. 1 Distillate	60.4	56.4	66.1	81.9	74.0	66.6	66.6	64.0	62.0	72.6	68.9	55.1	62.1	98.8	90.2	82.8	101.5
No. 2 Distillate	55.6	50.7	58.5	72.6	65.0	62.0	60.2	55.6	56.0	68.0	64.2	49.2	58.0	93.4	84.0	75.9	94.1
No. 2 Fuel Oil	58.1	54.4	58.7	73.4	66.5	62.7	60.2	57.2	56.2	67.3	63.6	48.2	55.8	92.7	82.9	R73.7	93.2
No. 2 Diesel Fuel	55.1	50.0	58.5	72.5	64.8	61.9	60.2	55.4	56.0	68.1	64.2	49.4	58.4	93.5	84.2	76.2	94.3
No. 4 Fuel ³	51.3	46.1	51.2	62.2	58.0	52.6	50.1	50.1	50.5	60.3	56.5	42.8	47.4	76.9	67.9	65.7	85.6
Residual Fuel Oil	42.3	33.4	38.5	44.4	34.0	33.6	33.7	35.2	39.2	45.5	42.3	30.5	37.4	60.2	53.1	R56.9	70.0
1% or Less Sulfur Content	44.7	37.2	43.6	50.5	40.2	38.9	39.7	40.1	43.6	52.6	48.8	35.4	40.5	70.8	64.2	R64.0	80.5
Greater Than 1% Sulfur Content ..	39.6	30.0	34.4	40.0	30.6	31.2	30.3	33.0	37.7	43.3	40.3	28.7	36.2	56.6	49.2	54.4	65.2
Propane (Consumer Grade)	70.1	71.4	61.5	74.5	73.0	64.3	67.3	53.0	49.2	60.5	55.2	40.5	45.8	60.3	50.6	41.9	57.6
Refiner Margins⁴																	
Motor Gasoline	16.3	22.8	22.6	25.7	24.5	23.8	23.5	22.8	21.6	22.0	24.7	22.8	22.8	29.0	34.0	25.4	32.3
Jet Fuel, Kerosene-Type	11.2	14.6	15.5	24.4	19.6	16.5	18.6	16.3	12.9	15.3	16.0	15.2	11.6	20.7	21.7	R14.2	19.3
No. 2 Distillate	10.4	12.4	13.8	16.6	16.4	14.6	16.8	15.1	12.0	16.0	14.9	14.1	11.9	22.3	23.3	14.4	20.3
Residual Fuel Oil	-4.1	-5.0	-6.8	-11.6	-14.0	-13.2	-9.8	-5.4	-4.8	-7.2	-6.6	-1.8	-6.3	-10.7	-7.0	-4.4	-2.4
Composite ⁵	13.8	18.7	18.8	22.1	20.7	19.8	19.0	19.8	18.1	19.4	20.0	19.5	18.9	26.1	29.7	21.6	28.1

¹ Nominal value.

² Sales for resale (wholesale sales) are those made to purchasers who are other than ultimate consumers. Sales to end users are those made directly to the ultimate consumer, including bulk customers, such as agriculture, industry, and utilities, as well as residential and commercial customers.

³ Includes No. 4 fuel oil and No. 4 diesel fuel.

⁴ In this table, refiner margin is the difference between the composite refiner acquisition price of crude oil and the price to resellers.

⁵ Composite of aviation gasoline, kerosene-type jet fuel, kerosene, motor gasoline, distillate fuel nos. 1, 2, and 4, and residual fuel oil.

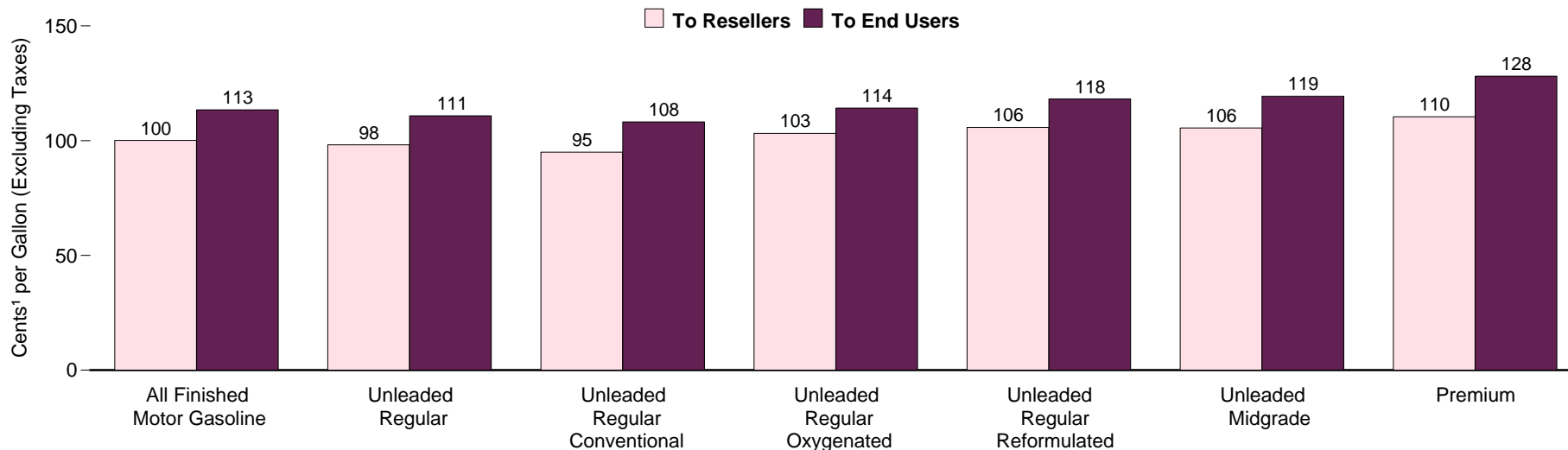
R=Revised. P=Preliminary. NA=Not available.

Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.

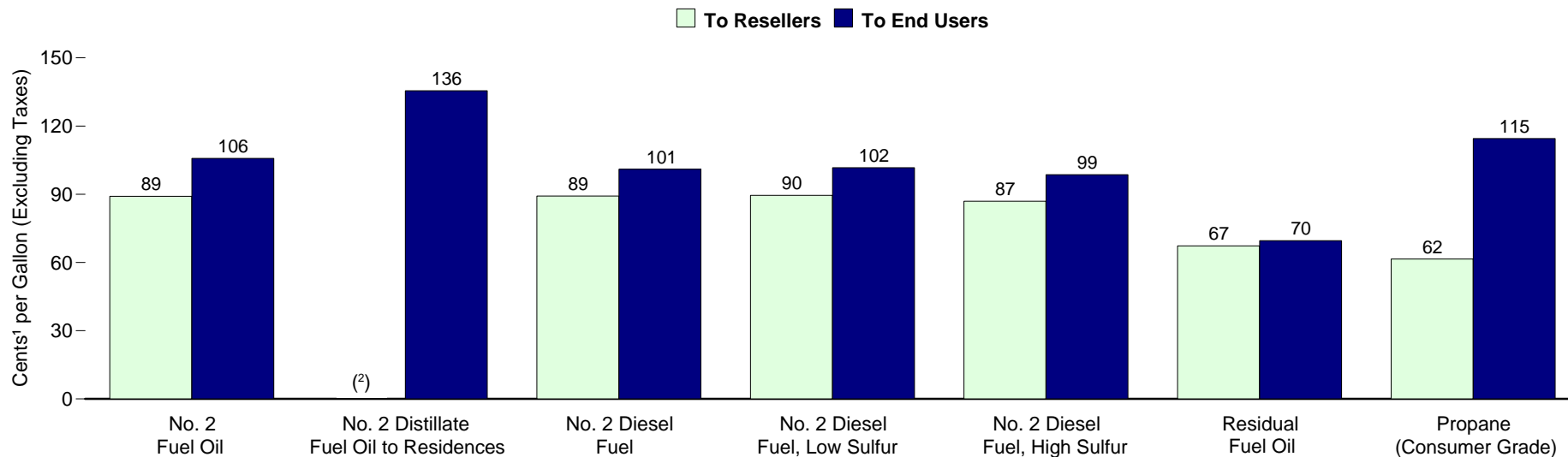
Sources: • 1987-2002—Energy Information Administration (EIA), *Petroleum Marketing Annual*, annual reports. • 2003—EIA, *Petroleum Marketing Monthly* (March 2004).

Figure 5.23 All Sellers Sales Prices for Selected Petroleum Products, 2003

Motor Gasoline, Selected Grades



Distillate Fuel Oil, Residual Fuel Oil, and Propane



¹ Nominal value.
² Not applicable.

Notes: • Data are preliminary. • Because vertical scales differ, graphs should not be compared.
 Source: Table 5.23.

Table 5.23 All Sellers Sales Prices for Selected Petroleum Products, 1987-2003(Cents¹ per Gallon, Excluding Taxes)

Product	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003 ^P
Sales Prices to Resellers²																	
Motor Gasoline	59.2	58.0	65.8	78.9	70.8	68.0	62.8	60.2	63.0	71.5	70.3	53.0	64.5	96.6	88.8	83.2	100.1
Unleaded Regular	57.2	55.1	62.3	76.2	68.2	64.9	59.7	57.1	59.9	68.9	67.7	50.4	62.1	94.6	86.8	^R 81.3	98.2
Conventional	NA	NA	NA	NA	NA	NA	NA	56.5	58.3	67.2	65.8	48.4	59.6	91.8	83.8	^R 79.4	95.0
Oxygenated	NA	NA	NA	NA	NA	NA	NA	62.7	66.2	74.5	75.4	57.5	69.0	101.6	94.7	^R 85.8	103.2
Reformulated	NA	NA	NA	NA	NA	NA	NA	63.2	64.6	73.3	72.5	55.1	67.6	100.6	93.0	85.6	105.8
Unleaded Midgrade	NA	NA	69.1	82.3	74.4	71.3	66.4	64.1	67.3	76.0	75.1	57.9	69.4	101.4	94.5	88.6	105.5
Conventional	NA	NA	NA	NA	NA	NA	NA	63.3	65.1	73.7	72.3	55.0	65.8	97.7	90.1	85.2	101.4
Oxygenated	NA	NA	NA	NA	NA	NA	NA	68.9	71.1	78.9	79.1	59.9	69.5	102.1	96.5	^R 88.5	104.3
Reformulated	NA	NA	NA	NA	NA	NA	NA	72.2	71.9	80.2	80.1	63.2	75.8	108.0	102.2	95.2	115.1
Premium	67.4	67.5	75.2	87.7	80.0	77.6	72.2	69.6	72.4	80.4	79.4	61.8	72.4	105.5	98.0	92.9	110.4
Conventional	NA	NA	NA	NA	NA	NA	NA	68.6	69.5	77.7	76.4	58.7	68.8	101.3	93.3	89.7	105.5
Oxygenated	NA	NA	NA	NA	NA	NA	NA	75.7	78.7	85.1	85.6	67.4	77.9	111.9	102.0	^R 95.2	113.1
Reformulated	NA	NA	NA	NA	NA	NA	NA	76.9	77.9	85.1	84.5	67.1	78.7	111.7	105.4	^R 98.6	118.6
No. 2 Distillate	53.5	48.2	57.2	70.6	62.7	59.1	56.6	52.9	53.6	66.0	61.1	45.0	53.8	90.1	78.5	^R 72.8	89.1
No. 2 Diesel Fuel	NA	NA	NA	NA	NA	NA	NA	53.8	54.6	66.7	61.6	45.4	55.2	90.4	79.1	73.5	89.2
Low Sulfur	NA	NA	NA	NA	NA	NA	NA	54.2	55.1	67.3	61.9	45.7	55.7	90.9	79.4	73.8	89.5
High Sulfur	NA	NA	NA	NA	NA	NA	NA	51.9	52.4	63.9	60.2	43.7	51.9	87.5	77.1	^R 71.2	86.9
Residual Fuel Oil	39.9	31.5	37.8	43.4	33.0	32.6	30.1	32.2	36.6	42.7	39.6	28.4	35.5	57.9	49.6	^R 52.6	67.3
1% or Less Sulfur Content	42.0	34.1	41.5	48.1	37.9	36.8	34.1	35.0	38.3	46.1	42.4	30.5	38.2	63.8	54.2	^R 54.8	73.2
Greater Than 1% Sulfur Content ..	38.1	28.2	34.0	38.8	29.7	30.0	27.2	29.8	34.4	39.7	37.5	27.1	33.3	52.3	43.8	^R 50.2	61.8
Propane (Consumer Grade)	NA	NA	NA	NA	NA	NA	NA	33.6	35.4	47.1	42.6	29.7	35.4	60.3	55.6	44.0	61.5
Sales Prices to End Users²																	
Motor Gasoline	67.7	68.0	76.8	89.9	81.1	78.7	75.3	72.9	76.1	84.3	83.1	66.0	76.2	109.1	102.2	^R 94.3	113.4
Unleaded Regular	66.3	65.5	73.2	87.0	78.0	75.0	71.4	69.0	72.1	80.9	79.7	62.3	72.8	106.3	99.3	^R 91.5	110.8
Conventional	NA	NA	NA	NA	NA	NA	NA	68.5	71.4	80.1	78.5	61.0	70.8	104.4	96.8	^R 90.1	108.2
Oxygenated	NA	NA	NA	NA	NA	NA	NA	73.7	77.3	86.1	88.7	69.4	78.2	111.8	105.9	^R 96.4	114.2
Reformulated	NA	NA	NA	NA	NA	NA	NA	74.3	74.1	83.3	82.2	65.1	77.7	110.9	105.1	^R 94.9	118.2
Unleaded Midgrade	NA	NA	NA	NA	NA	82.4	79.2	77.0	80.2	88.5	88.0	71.1	81.2	114.6	108.6	^R 100.2	119.4
Conventional	NA	NA	NA	NA	NA	NA	NA	76.6	79.3	87.4	86.5	69.5	78.7	112.2	105.2	98.5	116.6
Oxygenated	NA	NA	NA	NA	NA	NA	NA	82.1	83.8	92.9	96.4	76.3	85.3	118.5	112.0	^R 103.1	119.2
Reformulated	NA	NA	NA	NA	NA	NA	NA	85.1	82.9	91.6	91.5	74.8	86.9	119.7	115.6	^R 104.2	127.6
Premium	78.0	78.6	87.4	99.6	91.9	90.6	87.5	85.2	88.3	96.2	95.5	78.6	88.0	121.8	115.4	^R 108.1	128.1
Conventional	NA	NA	NA	NA	NA	NA	NA	84.6	87.1	95.0	93.9	76.9	85.6	119.2	111.9	^R 106.3	124.4
Oxygenated	NA	NA	NA	NA	NA	NA	NA	90.8	93.8	101.9	105.4	84.5	94.0	127.9	121.8	^R 112.8	130.6
Reformulated	NA	NA	NA	NA	NA	NA	NA	93.7	91.4	99.1	98.8	82.2	93.1	126.7	121.7	^R 111.6	135.5
No. 2 Distillate	64.3	61.2	69.5	84.1	76.0	72.6	71.0	67.5	67.3	79.3	75.3	59.9	67.8	104.4	94.8	^R 87.4	105.8
No. 2 Distillate to Residences ³	80.3	81.3	90.0	106.3	101.9	93.4	91.1	88.4	86.7	98.9	98.4	85.2	87.6	131.1	125.0	^R 112.9	135.5
No. 2 Diesel Fuel	NA	NA	NA	NA	NA	NA	NA	62.8	63.6	75.7	71.4	56.2	65.4	100.6	91.2	^R 83.7	101.0
Low Sulfur	NA	NA	NA	NA	NA	NA	NA	64.2	64.5	76.7	71.9	56.5	66.3	101.4	91.7	^R 84.1	101.7
High Sulfur	NA	NA	NA	NA	NA	NA	NA	59.8	61.4	73.2	69.8	55.5	62.0	98.1	89.2	^R 82.2	98.6
Residual Fuel Oil	42.6	33.9	39.3	45.5	34.7	34.6	34.1	35.8	39.7	46.4	42.9	31.1	37.8	60.9	53.3	^R 56.1	69.6
1% or Less Sulfur Content	44.9	37.3	43.6	51.2	40.0	39.4	39.3	40.3	43.3	52.9	47.2	35.6	40.6	68.3	62.0	^R 61.2	78.5
Greater Than 1% Sulfur Content ..	39.9	30.6	35.1	40.5	31.1	31.9	31.2	32.7	37.6	43.0	40.7	29.2	36.6	57.6	49.8	54.0	65.1
Propane (Consumer Grade)	NA	NA	NA	NA	NA	NA	NA	77.6	76.6	88.6	87.8	77.4	78.1	104.8	109.4	^R 95.8	114.5

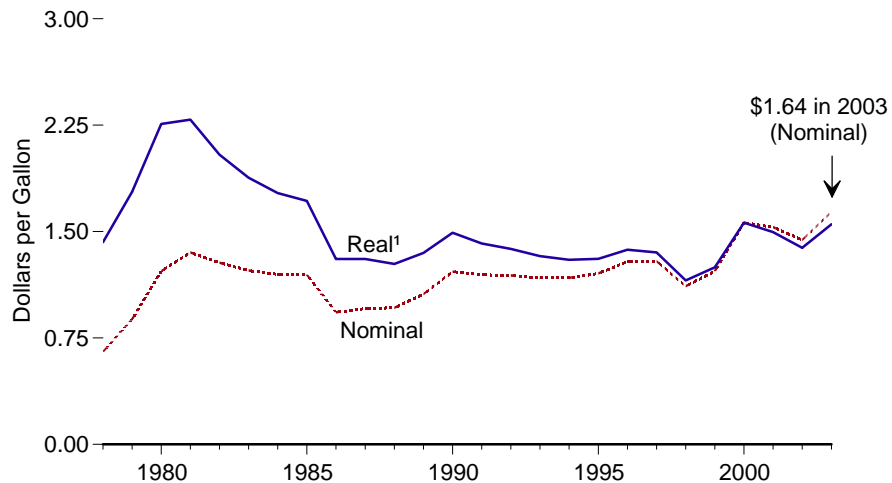
¹ Nominal value.² Sales for resale (wholesale sales) are those made to purchasers who are other than ultimate consumers. Sales to end users are those made directly to the ultimate consumer, including bulk customers, such as agriculture, industry, and utilities, as well as residential and commercial customers.³ See Note 6, "Historical Residential Heating Oil Prices," at end of section for historical data.

R=Revised. P=Preliminary. NA=Not available.

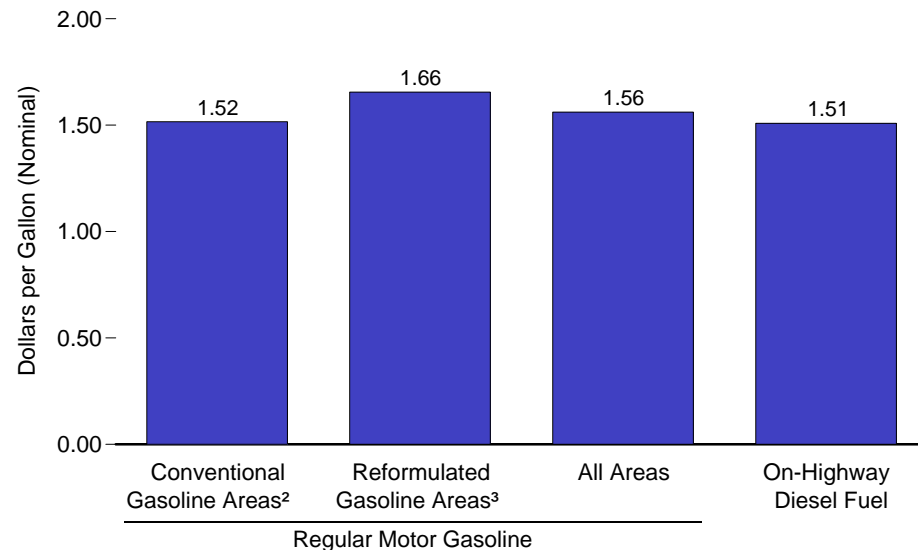
Web Page: See http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html for related information.Sources: • 1987-2002—Energy Information Administration (EIA), *Petroleum Marketing Annual*, annual reports. • 2003—EIA, *Petroleum Marketing Monthly* (March 2004).

Figure 5.24 Retail Motor Gasoline and On-Highway Diesel Fuel Prices

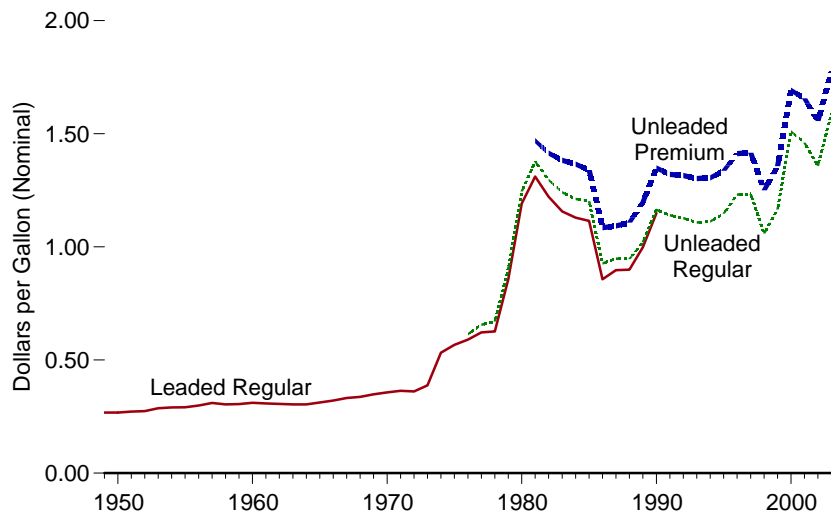
Motor Gasoline, All Grades, 1978-2003



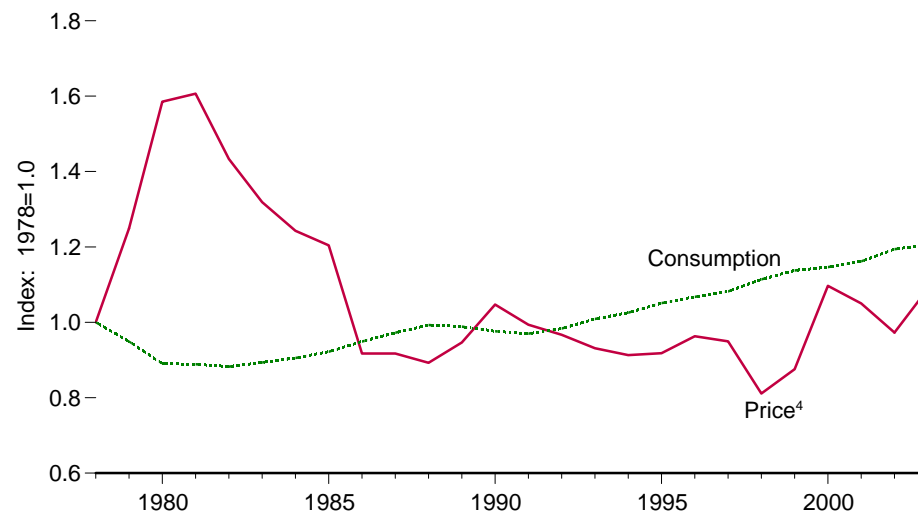
Regular Motor Gasoline by Area Type and On-Highway Diesel Fuel, 2003



Motor Gasoline by Grade, 1949-2003



Motor Gasoline Price and Consumption, 1978-2003, Indexed to 1978



¹ In chained (2000) dollars, calculated by using gross domestic product implicit price deflators. See Table D1.

² Any area that does not require the sale of reformulated gasoline.

³ Reformulated Gasoline (RFG) areas are ozone nonattainment areas designated by the Environmental Protection Agency that require the use of reformulated gasoline.

⁴ All grades, in chained (2000) dollars.

Note: Because vertical scales differ, graphs should not be compared.
Sources: Tables 5.11 and 5.24.

Table 5.24 Retail Motor Gasoline and On-Highway Diesel Fuel Prices, Selected Years, 1949-2003

(Dollars per Gallon)

Year	Motor Gasoline by Grade								Regular Motor Gasoline by Area Type ¹			On-Highway Diesel Fuel ¹
	Leaded Regular		Unleaded Regular		Unleaded Premium		All Grades		Conventional Gasoline Areas ^{3,4}	Reformulated Gasoline Areas ^{5,6}	All Areas	
	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²	Nominal	Real ²				
1949	0.27	R ¹ 1.64	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1950	0.27	R ¹ 1.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1955	0.29	R ¹ 1.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1960	0.31	R ¹ 1.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1965	0.31	R ¹ 1.39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1970	0.36	R ¹ 1.30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1971	0.36	R ¹ 1.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1972	0.36	R ¹ 1.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1973	0.39	R ¹ 1.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1974	0.53	R ¹ 1.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1975	0.57	R ¹ 1.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1976	0.59	R ¹ 1.47	0.61	R ¹ 1.53	NA	NA	NA	NA	NA	NA	NA	NA
1977	0.62	R ¹ 1.46	0.66	R ¹ 1.53	NA	NA	NA	NA	NA	NA	NA	NA
1978	0.63	R ¹ 1.37	0.67	R ¹ 1.46	NA	NA	0.65	R ¹ 1.43	NA	NA	NA	NA
1979	0.86	R ¹ 1.73	0.90	R ¹ 1.82	NA	NA	0.88	R ¹ 1.78	NA	NA	NA	NA
1980	1.19	R ² 2.20	1.25	R ² 2.30	NA	NA	1.22	R ² 2.26	NA	NA	NA	NA
1981	1.31	R ² 2.22	1.38	R ² 2.33	1.47	R ² 2.49	1.35	R ² 2.29	NA	NA	NA	NA
1982	1.22	R ¹ 1.95	1.30	R ² 2.07	1.42	R ² 2.26	1.28	R ² 2.04	NA	NA	NA	NA
1983	1.16	R ¹ 1.77	1.24	R ¹ 1.90	1.38	R ² 2.12	1.23	R ¹ 1.88	NA	NA	NA	NA
1984	1.13	R ¹ 1.67	1.21	R ¹ 1.79	1.37	R ² 2.02	1.20	R ¹ 1.77	NA	NA	NA	NA
1985	1.12	R ¹ 1.60	1.20	R ¹ 1.72	1.34	R ¹ 1.92	1.20	R ¹ 1.72	NA	NA	NA	NA
1986	0.86	R ¹ 1.20	0.93	R ¹ 1.30	1.09	R ¹ 1.52	0.93	R ¹ 1.31	NA	NA	NA	NA
1987	0.90	R ¹ 1.23	0.95	R ¹ 1.30	1.09	R ¹ 1.49	0.96	R ¹ 1.31	NA	NA	NA	NA
1988	0.90	R ¹ 1.19	0.95	R ¹ 1.25	1.11	R ¹ 1.46	0.96	R ¹ 1.27	NA	NA	NA	NA
1989	1.00	R ¹ 1.27	1.02	R ¹ 1.30	1.20	R ¹ 1.52	1.06	R ¹ 1.35	NA	NA	NA	NA
1990	1.15	R ¹ 1.41	1.16	R ¹ 1.43	1.35	R ¹ 1.65	1.22	R ¹ 1.49	NA	NA	NA	NA
1991	NA	NA	1.14	R ¹ 1.35	1.32	R ¹ 1.56	1.20	R ¹ 1.42	1.10	NA	1.10	NA
1992	NA	NA	1.13	R ¹ 1.31	1.32	R ¹ 1.52	1.19	R ¹ 1.38	1.09	NA	1.09	NA
1993	NA	NA	1.11	R ¹ 1.25	1.30	R ¹ 1.47	1.17	R ¹ 1.33	⁴ 1.07	NA	1.07	NA
1994	NA	NA	1.11	R ¹ 1.23	1.31	R ¹ 1.45	1.17	R ¹ 1.30	1.07	NA	1.08	NA
1995	NA	NA	1.15	R ¹ 1.25	1.34	R ¹ 1.45	1.21	R ¹ 1.31	1.10	⁶ 1.16	1.11	1.11
1996	NA	NA	1.23	R ¹ 1.31	1.41	R ¹ 1.51	1.29	R ¹ 1.37	1.19	1.28	1.22	1.24
1997	NA	NA	1.23	R ¹ 1.29	1.42	R ¹ 1.48	1.29	R ¹ 1.35	1.19	1.25	1.20	1.20
1998	NA	NA	1.06	R ¹ 1.10	1.25	R ¹ 1.30	1.12	R ¹ 1.16	1.02	1.08	1.03	1.04
1999	NA	NA	1.17	R ¹ 1.19	1.36	R ¹ 1.39	1.22	R ¹ 1.25	1.12	1.20	1.14	1.12
2000	NA	NA	1.51	R ¹ 1.51	1.69	R ¹ 1.69	1.56	R ¹ 1.56	1.46	1.54	1.48	1.49
2001	NA	NA	1.46	R ¹ 1.43	1.66	R ¹ 1.62	1.53	R ¹ 1.50	1.38	1.50	1.42	1.40
2002	NA	NA	1.36	R ¹ 1.31	^R 1.56	R ¹ 1.50	1.44	R ¹ 1.39	1.31	1.41	1.35	1.32
2003	NA	NA	1.59	1.51	1.78	1.68	1.64	1.55	1.52	1.66	1.56	1.51

¹ Nominal dollars.

² In chained (2000) dollars, calculated by using gross domestic product implicit price deflators. See Table D1.

³ Any area that does not require the sale of reformulated gasoline.

⁴ For 1993-2000, data collected for oxygenated areas are included in "Conventional Gasoline Areas."

⁵ "Reformulated Gasoline Areas" are ozone nonattainment areas designated by the Environmental Protection Agency that require the use of reformulated gasoline.

⁶ For 1995-2000, data collected for combined oxygenated and reformulated areas are included in "Reformulated Gasoline Areas."

R=Revised. NA=Not available.

Note: See "Motor Gasoline Grades," "Motor Gasoline, Conventional," "Motor Gasoline, Oxygenated," and "Motor Gasoline, Reformulated" in Glossary.

Web Pages: • For data not shown for 1951-1969, see <http://www.eia.doe.gov/emeu/aer/petro.html>.

• For related information, see http://www.eia.doe.gov/oil_gas/petroleum/info_glance/petroleum.html

Sources: **Motor Gasoline by Grade:** • 1949-1973—*Platt's Oil Price Handbook and Oilmanac, 1974*, 51st Edition. • 1974 forward—Energy Information Administration (EIA), annual averages of monthly data from the U.S. Department of Labor, Bureau of Labor Statistics, *U.S. City Average Gasoline Prices*. **Regular Motor Gasoline by Area Type:** EIA, weighted annual averages of data from "Weekly U.S. Retail Gasoline Prices, Regular Grade." **On-Highway Diesel Fuel:** EIA, weighted annual averages of data from "Weekly Retail On-Highway Diesel Prices."

Petroleum

Note 1. Petroleum Products Supplied and Petroleum Consumption. Total petroleum products supplied is the sum of the products supplied for each petroleum product, crude oil, unfinished oils, and gasoline blending components. For each of these, except crude oil, product supplied is calculated by adding refinery production, natural gas plant liquids production, new supply of other liquids, imports, and stock withdrawals, and subtracting stock additions, refinery inputs, and exports. Crude oil product supplied is the sum of crude oil burned on leases and at pipeline pump stations as reported on Form EIA-813, "Monthly Crude Oil Report." Prior to 1983, crude oil burned on leases and at pipeline pump stations was reported as either distillate or residual fuel oil and was included as product supplied for these products. Petroleum product supplied (see Table 5.11) is an approximation of petroleum consumption and is synonymous with the term "Petroleum Consumption" in Section 1 and in Tables 5.13a-d. The sector allocation of product supplied in Tables 5.13a-d for products used in more than one sector is derived from sales to ultimate consumers by refiners, marketers, distributors, and dealers (see Energy Information Administration (EIA) report *Fuel Oil and Kerosene Sales*) and from EIA electric power sector petroleum consumption data (see Tables 8.7b and 8.7c).

Note 2. Adjustment to Total Petroleum Products Supplied. Accurate calculation of the quantity of petroleum products supplied to the domestic market is complicated by the recycling of products at the refinery, the renaming of products involved in a transfer, and the receipt of products from outside the primary supply system. Beginning in 1981, a single adjustment (always a negative quantity) is made to total product supplied to correct this accounting problem. The calculation of this adjustment, called "reclassified," involves only unfinished oils and gasoline blending components. It is the sum of their net changes in primary stocks (net withdrawals is a plus quantity; net additions is a minus quantity) plus imports minus net input to refineries.

Note 3. Changes Affecting Petroleum Production and Product Supplied Statistics. Beginning in January 1981, several Energy Information Administration survey forms and calculation methodologies were changed to reflect new developments in refinery and blending plant practices and to improve data integrity. Those changes affect production and product supplied statistics for motor gasoline, distillate fuel

oil, and residual fuel oil, and stocks of motor gasoline. On the basis of those changes, motor gasoline production during the last half of 1980 would have averaged 289,000 barrels per day higher than that which was published on the old basis. Distillate and residual fuel oil production and product supplied for all of 1980 would have averaged, respectively, 105,000 and 54,000 barrels per day higher than the numbers that were published.

Note 4. Gross Input to Distillation Units. The methods of deriving Gross Input to Distillation Units (GIDU) in this report are as follows: For 1949-1966, GIDU is estimated by summing annual crude oil runs to stills, net unfinished oil reruns at refineries, and shipments of natural gasoline and plant condensate from natural gas processing plants to refineries. For 1967-1973, GIDU is estimated by summing annual crude oil runs to stills, net unfinished oil reruns, and refinery input of natural gasoline and plant condensate. For 1974-1980, GIDU is published annual data. For 1981 forward, GIDU is the sum of reported monthly data.

Note 5. Crude Oil Domestic First Purchase Prices. Crude oil domestic first purchase prices were derived as follows: for 1949-1973, weighted average domestic first purchase values as reported by State agencies and calculated by the Bureau of Mines; for 1974 and 1975, weighted averages of a sample survey of major first purchasers' purchases; for 1976 forward, weighted averages of all first purchasers' purchases.

Note 6. Historical Residential Heating Oil Prices. Residential heating oil prices for 1956 through 1986 were formerly published in the *Annual Energy Review*. Those data, in cents per gallon, are: 1956—15.2; 1957—16.0; 1958—15.1; 1959—15.3; 1960—15.0; 1961—15.6; 1962—15.6; 1963—16.0; 1964—16.1; 1965—16.0; 1966—16.4; 1967—16.9; 1968—17.4; 1969—17.8; 1970—18.5; 1971—19.6; 1972—19.7; 1973—22.8; 1974—36.0; 1975—37.7; 1976—40.6; 1977—46.0; 1978—49.0; 1979—70.4; 1980—97.4; 1981—119.4; 1982—116.0; 1983—107.8; 1984—109.1; 1985—105.3; and 1986—83.6. The sources of these data are: 1956-1974—Bureau of Labor Statistics, "Retail Prices and Indexes of Fuels and Utilities for Residential Usage," monthly; January 1975–September 1977—Federal Energy Administration, Form FEA-P112-M-1, "No. 2 Heating Oil Supply/Price Monitoring Report"; October 1977–December 1977—Energy Information Administration (EIA), Form EIA-9, "No. 2 Heating Oil Supply/Price Monitoring Report"; 1978 forward—EIA, *Petroleum Marketing Annual*, Table 18.