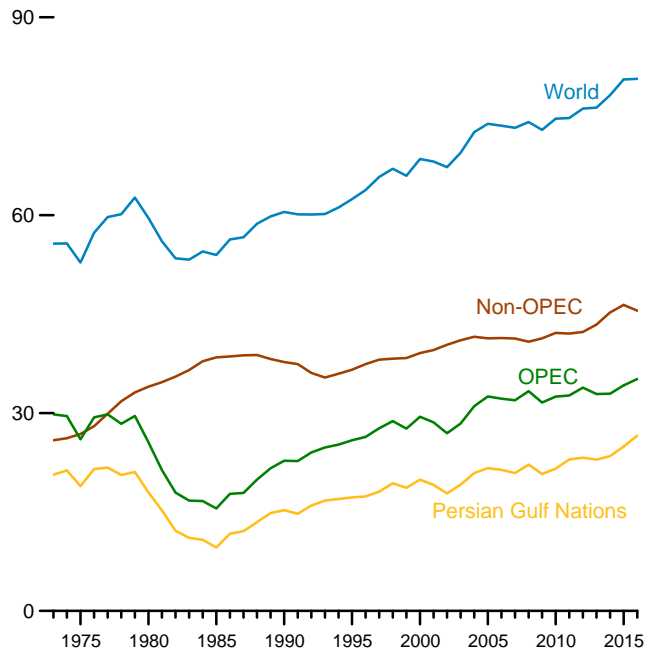


# **11. International Petroleum**

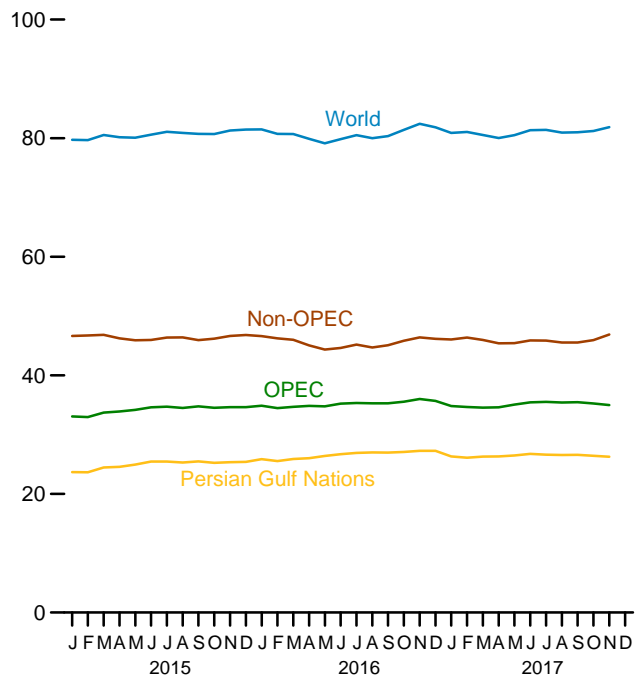
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**Figure 11.1a World Crude Oil Production Overview**  
(Million Barrels per Day)

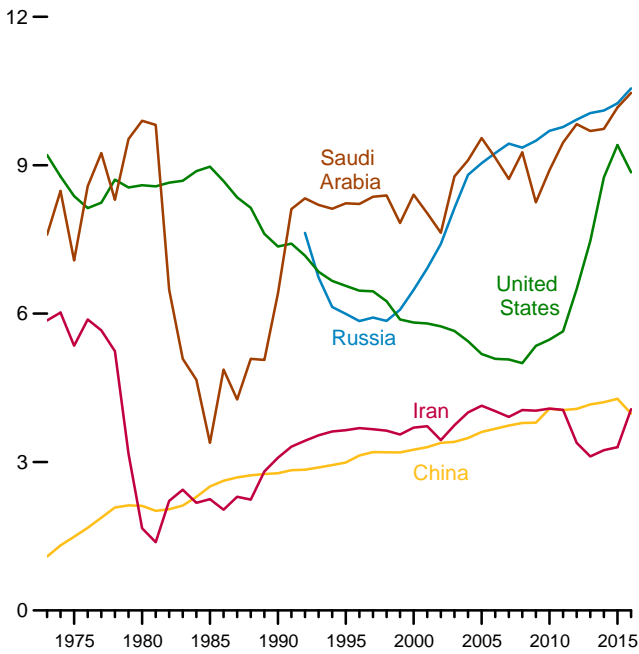
World Production, 1973–2017



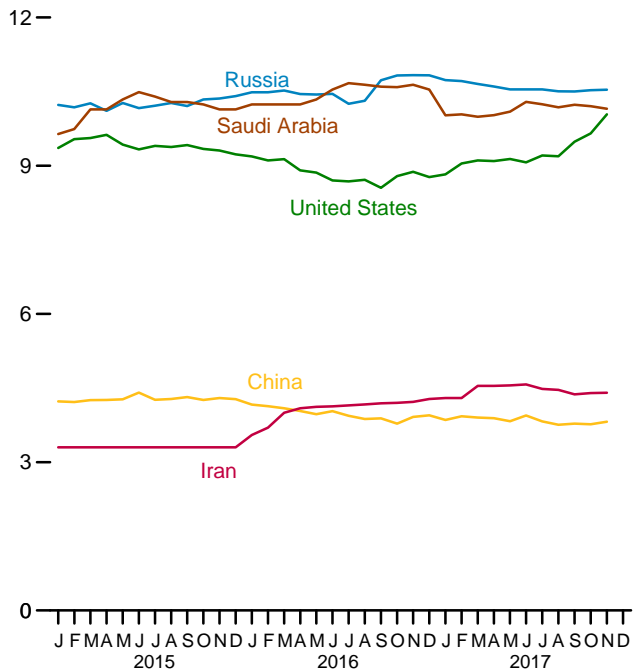
World Production, Monthly



Selected Producers, 1973–2017



Selected Producers, Monthly



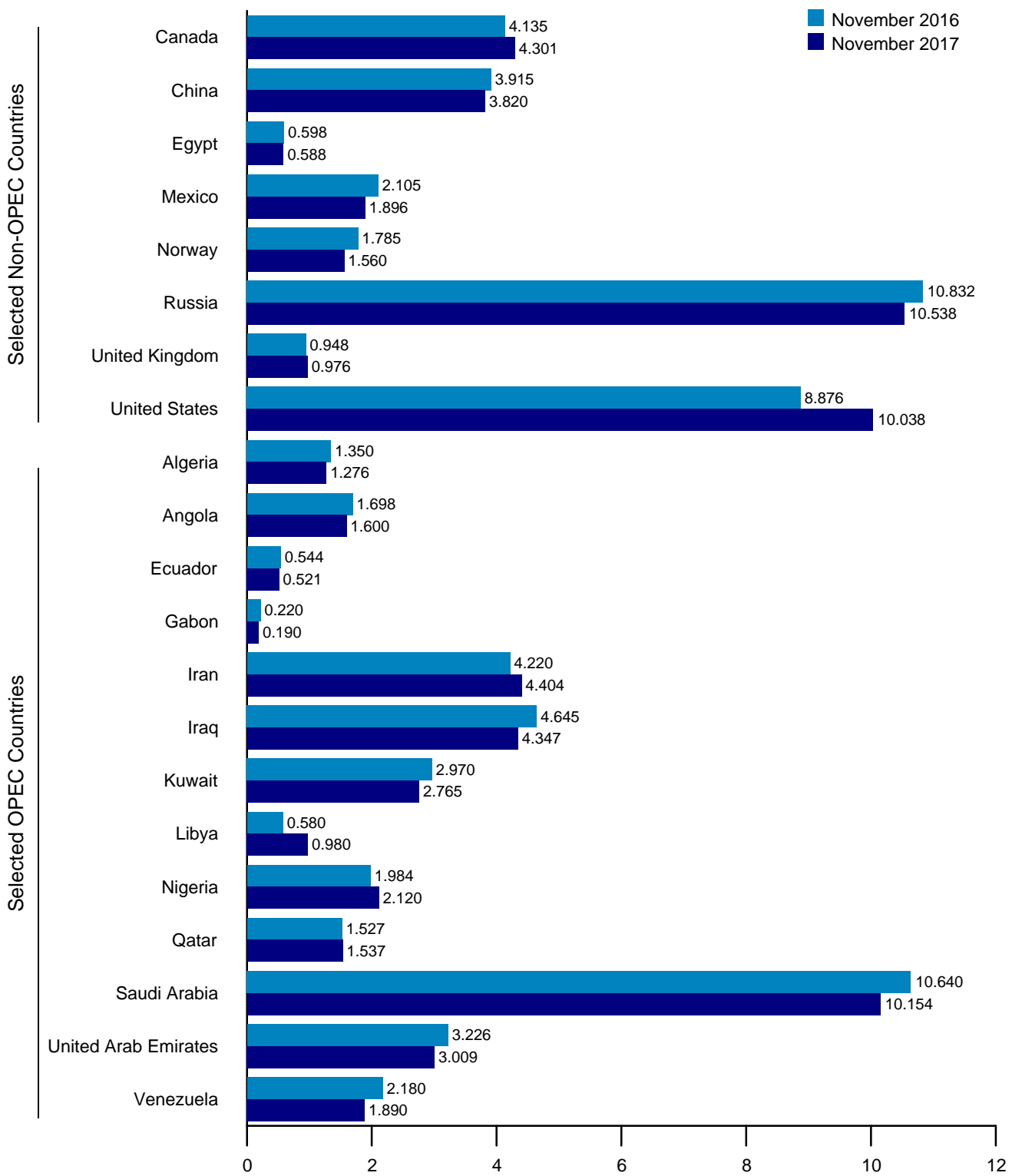
Notes: • OPEC is the Organization of the Petroleum Exporting Countries. • The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in “Per-

sian Gulf Nations.”

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#international>.

Sources: Tables 11.1a and 11.1b.

**Figure 11.1b World Crude Oil Production by Selected Countries**  
(Million Barrels per Day)



Note: OPEC is the Organization of the Petroleum Exporting Countries.  
 Web Page: <http://www.eia.gov/totalenergy/data/monthly/#international>.  
 Sources: Tables 11.1a and 11.1b.



**Table 11.1b World Crude Oil Production: Persian Gulf Nations, Non-OPEC, and World**  
(Thousand Barrels per Day)

	Persian Gulf Nations <sup>b</sup>	Selected Non-OPEC <sup>a</sup> Producers								Total Non-OPEC <sup>a</sup>	World	
		Canada	China	Egypt	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom			United States
1973 Average	20,668	1,798	1,090	165	465	32	8,324	NA	2	9,208	25,868	55,679
1975 Average	18,934	1,430	1,490	235	705	189	9,523	NA	12	8,375	26,816	52,828
1980 Average	17,961	1,435	2,114	595	1,936	486	11,706	NA	1,622	8,597	34,000	59,558
1985 Average	9,630	1,471	2,505	887	2,745	773	11,585	NA	2,530	8,971	38,426	53,965
1990 Average	15,278	1,553	2,774	873	2,553	1,630	10,975	NA	1,820	7,355	37,729	60,497
1995 Average	17,208	1,805	2,990	920	2,711	2,766	--	5,995	2,489	6,560	36,564	62,434
1996 Average	17,367	1,837	3,131	922	2,944	3,091	--	5,850	2,568	6,465	37,429	63,818
1997 Average	18,095	1,922	3,200	856	3,104	3,142	--	5,920	2,518	6,452	38,109	65,806
1998 Average	19,337	1,981	3,198	834	3,160	3,011	--	5,854	2,616	6,252	38,250	67,032
1999 Average	18,667	1,907	3,195	852	2,998	3,019	--	6,079	2,684	5,881	38,355	65,967
2000 Average	19,897	1,977	3,249	768	3,104	3,222	--	6,479	2,275	5,822	39,100	68,527
2001 Average	19,114	2,029	3,300	720	3,218	3,226	--	6,917	2,282	5,801	39,551	68,132
2002 Average	17,824	2,171	3,390	715	3,263	3,131	--	7,408	2,292	5,744	40,361	67,290
2003 Average	19,154	2,306	3,409	713	3,459	3,042	--	8,132	2,093	5,649	41,035	69,460
2004 Average	20,906	2,398	3,485	673	3,476	2,954	--	8,805	1,845	5,441	41,559	72,595
2005 Average	21,644	2,369	3,609	623	3,423	2,698	--	9,043	1,649	5,184	41,325	73,851
2006 Average	21,377	2,525	3,673	616	3,345	2,491	--	9,247	1,490	5,086	41,380	73,566
2007 Average	20,904	2,628	3,736	608	3,143	2,270	--	9,437	1,498	5,074	41,302	73,246
2008 Average	22,186	2,579	3,790	633	2,839	2,182	--	9,357	1,391	4,998	40,809	74,117
2009 Average	20,754	2,579	3,796	649	2,646	2,067	--	9,495	1,328	5,349	41,321	72,930
2010 Average	21,589	2,741	4,078	636	2,621	1,871	--	9,694	1,233	5,475	42,142	74,642
2011 Average	22,953	2,901	4,052	637	2,600	1,760	--	9,774	1,026	5,643	42,058	74,730
2012 Average	23,233	3,138	4,074	642	2,593	1,612	--	9,922	888	6,497	42,299	76,157
2013 Average	22,932	3,325	4,164	645	2,562	1,533	--	10,054	801	7,466	43,415	76,305
2014 Average	23,469	3,613	4,208	645	2,469	1,562	--	10,107	787	8,753	45,264	78,199
<b>2015 January</b>	23,689	3,885	4,232	642	2,290	1,579	--	10,231	872	9,358	R 46,646	R 79,720
February	23,655	3,906	4,218	650	2,370	1,589	--	10,181	812	9,537	R 46,719	R 79,670
March	24,470	3,775	4,256	663	2,356	1,586	--	10,264	867	9,561	R 46,824	R 80,538
April	24,576	3,463	4,258	656	2,235	1,614	--	10,111	925	9,626	R 46,225	R 80,143
May	24,947	3,212	4,271	646	2,263	1,555	--	10,270	1,016	9,428	R 45,911	R 80,074
June	25,462	3,457	4,408	657	2,283	1,596	--	10,166	870	9,329	R 45,973	R 80,575
July	25,452	3,821	4,263	661	2,308	1,611	--	10,213	839	9,402	R 46,368	R 81,074
August	25,292	3,922	4,278	659	2,291	1,599	--	10,268	788	9,379	R 46,389	R 80,880
September	25,492	3,422	4,317	652	2,306	1,581	--	10,209	862	9,417	R 45,938	R 80,713
October	25,252	3,582	4,259	652	2,314	1,685	--	10,341	912	9,339	R 46,189	R 80,706
November	25,342	3,819	4,297	644	2,310	1,644	--	10,361	972	9,307	R 46,647	R 81,291
December	25,412	3,866	4,275	642	2,308	1,682	--	10,407	979	9,229	R 46,814	R 81,452
<b>Average</b>	<b>24,927</b>	<b>3,677</b>	<b>4,278</b>	<b>652</b>	<b>2,302</b>	<b>1,610</b>	--	<b>10,253</b>	<b>893</b>	<b>9,408</b>	<b>R 46,386</b>	<b>R 80,576</b>
<b>2016 January</b>	25,867	3,877	4,166	632	2,294	1,657	--	10,485	1,003	9,186	R 46,608	R 81,473
February	25,527	3,797	4,133	623	2,247	1,675	--	10,485	1,014	9,107	R 46,234	R 80,711
March	25,892	3,767	4,091	623	2,249	1,632	--	10,522	987	9,134	R 45,991	R 80,683
April	26,012	3,429	4,036	626	2,210	1,666	--	10,450	989	8,906	R 45,055	R 79,892
May	26,412	2,811	3,973	625	2,207	1,608	--	10,440	991	8,859	R 44,346	R 79,127
June	26,707	3,112	4,034	621	2,213	1,480	--	10,453	897	8,703	R 44,620	R 79,838
July	26,928	3,657	3,938	620	2,192	1,762	--	10,254	980	8,682	R 45,171	R 80,504
August	27,003	3,855	3,874	614	2,179	1,603	--	10,316	841	8,716	R 44,707	R 79,983
September	26,973	3,849	3,887	609	2,146	1,430	--	10,729	826	8,553	R 45,077	R 80,351
October	27,068	3,893	3,780	608	2,135	1,766	--	10,826	760	8,791	R 45,828	R 81,387
November	27,278	4,135	3,915	598	2,105	1,785	--	10,832	948	8,876	R 46,406	R 82,417
December	27,278	3,968	3,949	590	2,067	1,706	--	10,830	961	8,771	R 46,142	R 81,833
<b>Average</b>	<b>26,583</b>	<b>3,679</b>	<b>3,981</b>	<b>616</b>	<b>2,187</b>	<b>1,648</b>	--	<b>10,551</b>	<b>933</b>	<b>8,857</b>	<b>R 45,514</b>	<b>R 80,684</b>
<b>2017 January</b>	26,312	4,097	3,855	589	2,054	1,660	--	10,733	970	E 8,825	R 46,051	R 80,885
February	26,111	4,137	3,929	583	2,051	1,709	--	10,713	944	E 9,045	R 46,381	R 81,049
March	26,306	3,927	3,903	573	2,053	1,750	--	10,654	945	E 9,107	R 45,976	R 80,520
April	26,316	3,577	3,891	582	2,046	1,730	--	10,603	915	E 9,093	R 45,406	R 80,006
May	26,472	3,690	3,829	588	2,053	1,651	--	10,543	930	E 9,134	R 45,435	R 80,511
June	26,743	4,069	3,944	590	2,042	1,587	--	10,543	936	E 9,068	R 45,890	R 81,339
July	26,606	3,970	3,827	587	2,020	1,626	--	10,546	912	E 9,209	R 45,849	R 81,384
August	26,559	4,154	3,758	594	1,962	1,599	--	10,507	R 831	E 9,192	R 45,524	R 80,940
September	26,586	R 3,940	3,779	602	1,761	1,460	--	10,503	R 885	RE 9,485	R 45,522	R 80,983
October	26,427	R 3,880	R 3,769	597	1,933	1,553	--	10,527	946	RE 9,654	R 45,952	R 81,201
November	26,257	4,301	3,820	588	1,896	1,560	--	10,538	976	E 10,038	46,891	R 81,865
<b>11-Month Average</b>	<b>26,429</b>	<b>3,975</b>	<b>3,845</b>	<b>588</b>	<b>1,988</b>	<b>1,626</b>	--	<b>10,582</b>	<b>926</b>	<b>E 9,259</b>	<b>45,893</b>	<b>80,970</b>
<b>2016 11-Month Average</b>	<b>26,518</b>	<b>3,652</b>	<b>3,984</b>	<b>618</b>	<b>2,198</b>	<b>1,643</b>	--	<b>10,526</b>	<b>930</b>	<b>8,865</b>	<b>45,456</b>	<b>80,577</b>
<b>2015 11-Month Average</b>	<b>24,882</b>	<b>3,660</b>	<b>4,278</b>	<b>653</b>	<b>2,302</b>	<b>1,604</b>	--	<b>10,239</b>	<b>885</b>	<b>9,425</b>	<b>46,346</b>	<b>80,494</b>

<sup>a</sup> See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Equatorial Guinea joined OPEC in May 2017 and is thus included in "Total OPEC" for all years.

<sup>b</sup> Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

R=Revised. NA=Not available. --=Not applicable. E=Estimate.

Notes: • Data are for crude oil and lease condensate; they exclude natural gas

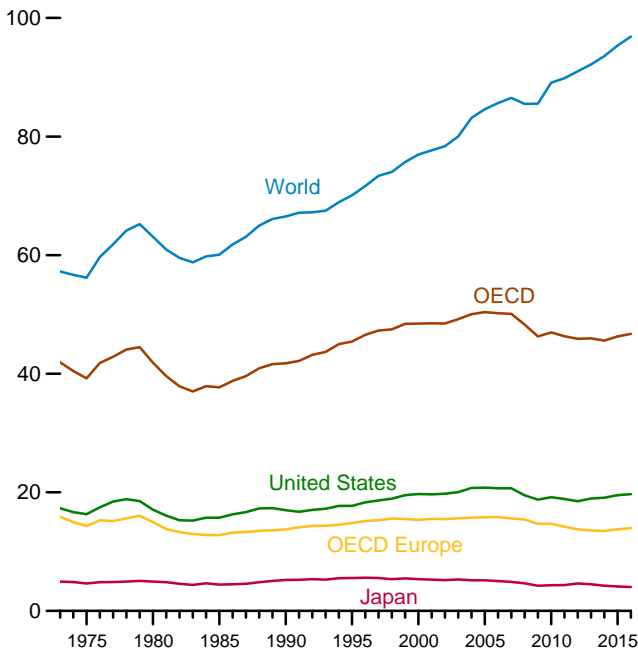
plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World totals due to independent rounding. • U.S. geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#international> (Excel and CSV files) for all available annual and monthly data beginning in 1973.

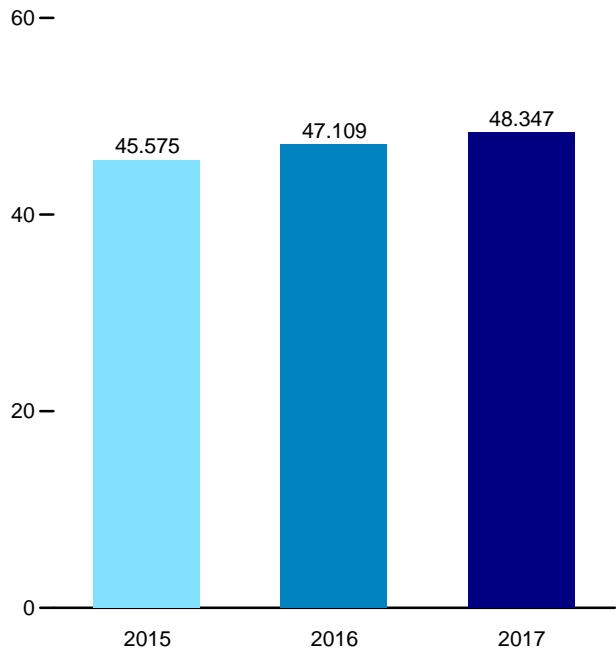
Sources: See end of section.

**Figure 11.2 Petroleum Consumption in OECD Countries**  
(Million Barrels per Day)

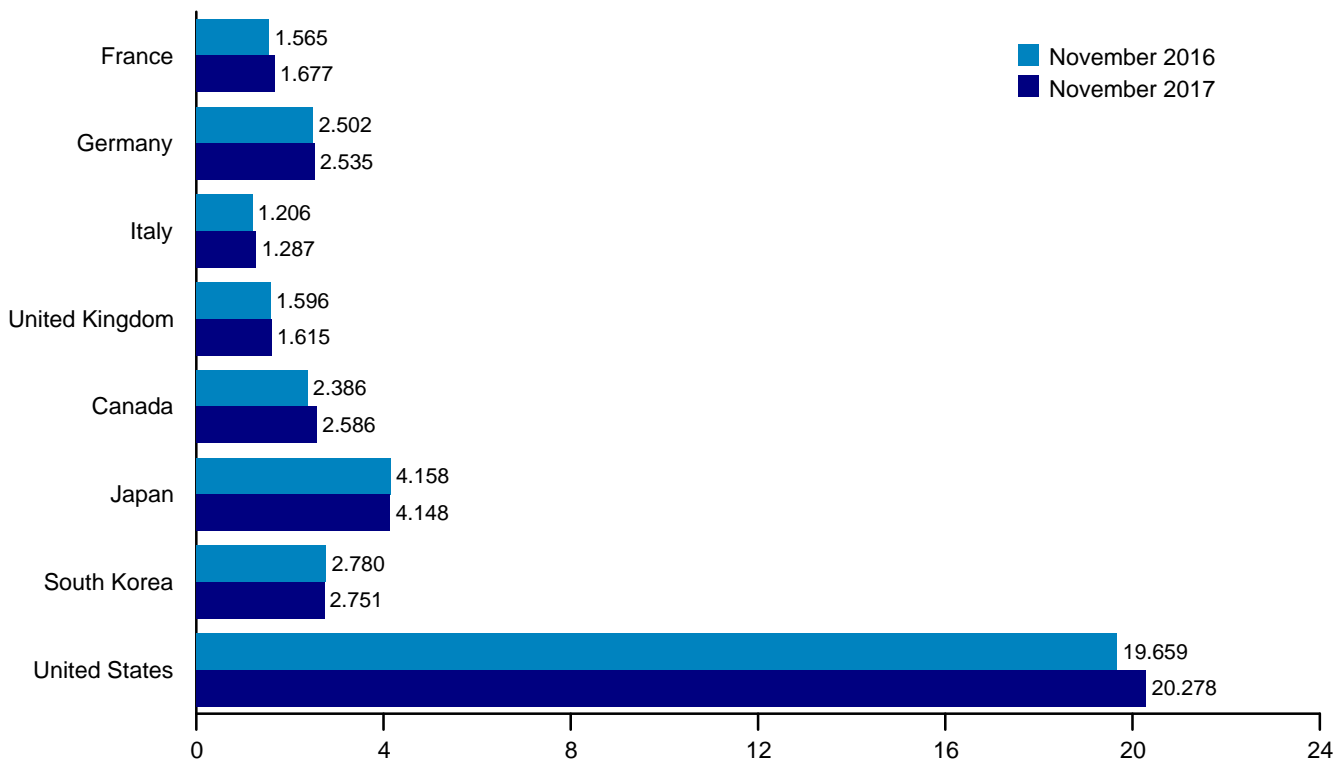
Overview, 1973–2016



OECD Total, November



By Selected OECD Countries



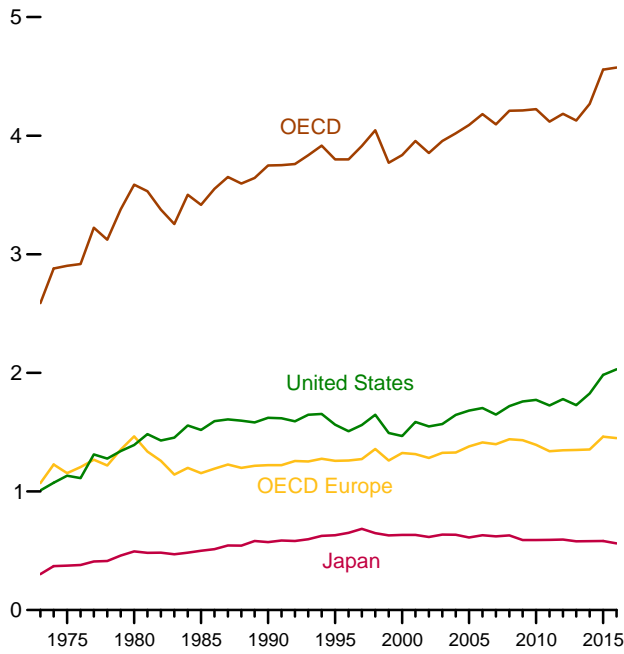
Note: OECD is the Organization for Economic Cooperation and Development.

Web Page: <http://www.eia.gov/totalenergy/data/monthly/#international>.  
Source: Table 11.2.

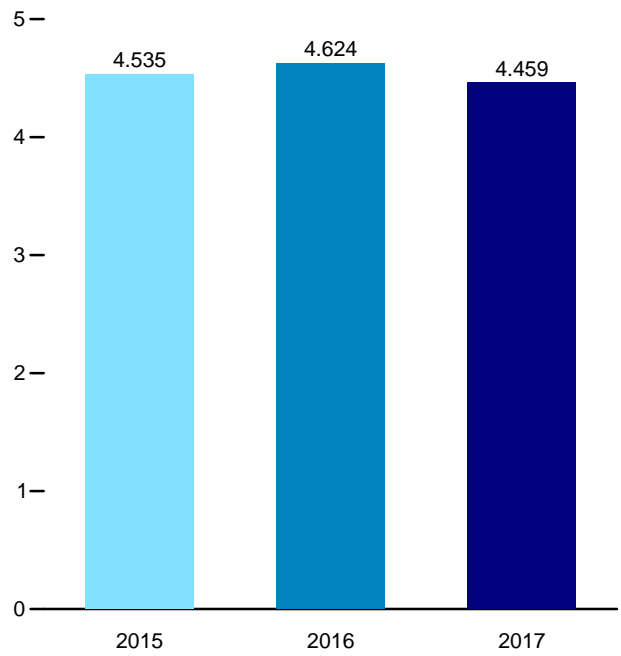


**Figure 11.3 Petroleum Stocks in OECD Countries**  
(Billion Barrels)

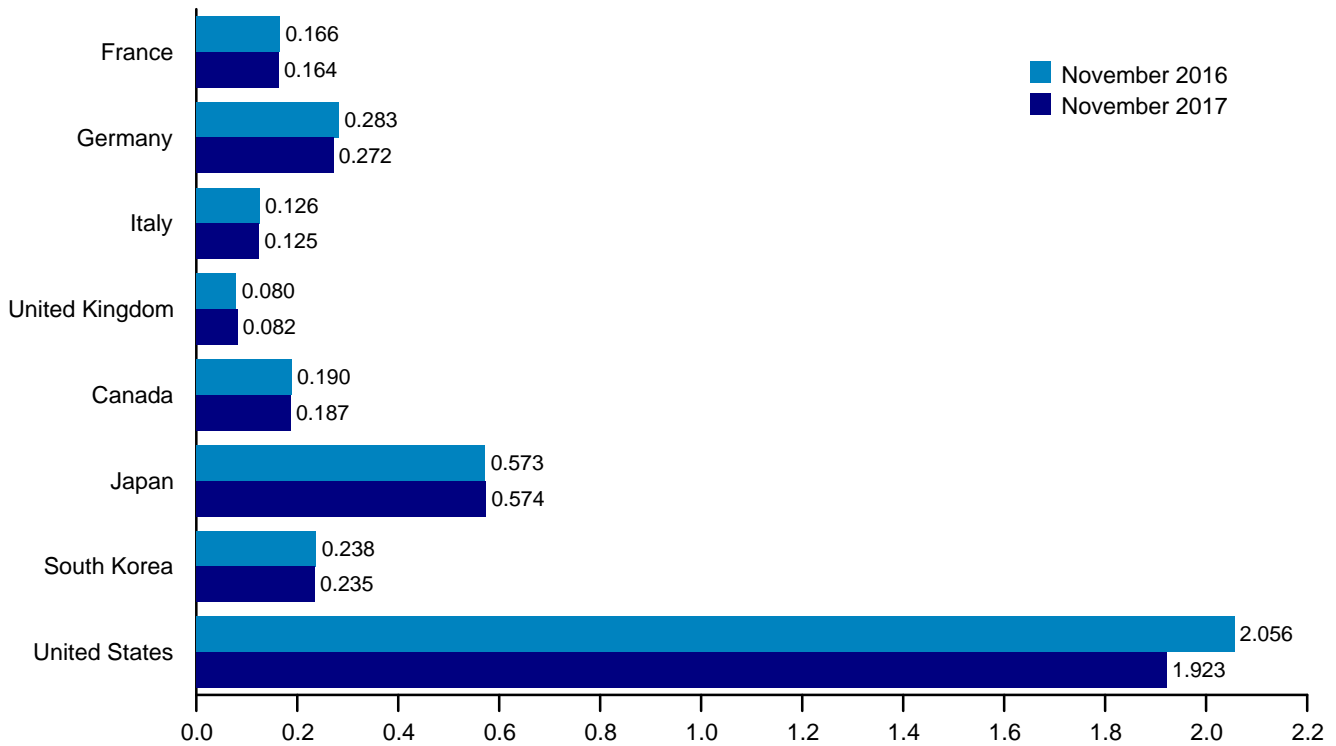
Overview, End of Year, 1973–2016



OECD Stocks, End of Month, November



Selected OECD Countries, End of Month



Note: OECD is the Organization for Economic Cooperation and Development.  
Web Page: <http://www.eia.gov/totalenergy/data/monthly/#international>.  
Source: Table 11.3.



**Table 11.3 Petroleum Stocks in OECD Countries**  
(Million Barrels)

	France	Germany <sup>a</sup>	Italy	United Kingdom	OECD Europe <sup>b</sup>	Canada	Japan	South Korea	United States	Other OECD <sup>c</sup>	OECD <sup>d</sup>
1973 Year	201	181	152	156	1,070	140	303	NA	1,008	67	2,588
1975 Year	225	187	143	165	1,154	174	375	NA	1,133	67	2,903
1980 Year	243	319	170	168	1,464	164	495	NA	1,392	72	3,587
1985 Year	139	277	156	131	1,154	112	500	13	1,519	119	3,417
1990 Year	143	280	171	103	1,222	143	572	64	1,621	126	3,749
1995 Year	155	302	162	101	1,257	132	631	92	1,563	125	3,799
1996 Year	154	303	152	103	1,261	127	651	123	1,507	131	3,800
1997 Year	161	299	147	100	1,274	144	685	124	1,560	126	3,913
1998 Year	169	323	153	104	1,358	139	649	129	1,647	123	4,045
1999 Year	160	290	148	101	1,261	141	629	132	1,493	115	3,771
2000 Year	170	272	157	100	1,324	143	634	140	1,468	127	3,836
2001 Year	165	273	151	113	1,315	154	634	143	1,586	122	3,954
2002 Year	170	253	156	104	1,282	155	615	140	1,548	113	3,854
2003 Year	179	273	153	100	1,325	165	636	155	1,568	106	3,956
2004 Year	177	267	154	101	1,328	154	635	149	1,645	109	4,020
2005 Year	185	283	151	95	1,380	168	612	135	1,682	114	4,090
2006 Year	182	283	153	103	1,413	169	631	152	1,703	115	4,182
2007 Year	180	275	152	92	1,398	163	621	143	1,648	123	4,096
2008 Year	179	279	148	93	1,441	162	629	135	1,719	125	4,211
2009 Year	175	284	146	89	1,432	157	591	155	1,758	119	4,213
2010 Year	168	287	143	83	1,393	184	590	165	1,772	120	4,224
2011 Year	165	281	135	80	1,338	178	592	167	1,725	119	4,119
2012 Year	162	288	126	80	1,347	174	594	181	1,779	109	4,184
2013 Year	167	290	125	78	1,350	170	580	185	1,728	116	4,127
2014 Year	168	284	119	78	1,354	193	581	197	1,825	118	4,268
<b>2015</b> January	170	284	116	73	1,371	192	574	197	1,847	119	4,300
February	170	286	113	75	1,383	184	568	198	1,848	117	4,297
March	173	284	121	76	1,407	183	568	201	1,881	115	4,355
April	170	284	124	85	1,411	185	558	210	1,907	115	4,385
May	175	288	122	78	1,419	181	582	224	1,928	112	4,446
June	170	286	117	77	1,409	176	578	225	1,939	118	4,445
July	168	281	116	74	1,400	184	589	223	1,936	118	4,450
August	167	283	123	77	1,429	185	594	227	1,958	116	4,509
September	167	281	117	79	1,433	182	590	226	1,968	115	4,514
October	165	280	118	80	1,436	183	588	223	1,975	111	4,516
November	164	281	117	83	1,446	187	582	222	1,989	109	4,535
December	168	285	117	81	1,462	188	582	228	1,982	114	4,556
<b>2016</b> January	171	287	120	83	1,487	187	580	219	2,014	117	4,603
February	169	289	123	81	1,494	183	564	233	2,018	114	4,605
March	166	289	120	77	1,480	184	560	236	2,024	115	4,598
April	171	286	126	77	1,480	180	566	230	2,035	117	4,608
May	167	289	123	81	1,488	169	574	235	2,051	119	4,634
June	167	288	121	82	1,479	175	573	238	2,049	123	4,637
July	169	290	125	75	1,499	186	577	238	2,066	125	4,690
August	167	287	130	80	1,485	186	585	233	2,066	121	4,676
September	167	285	127	78	1,468	185	587	239	2,051	120	4,649
October	163	287	128	77	1,450	190	587	238	2,053	119	4,636
November	166	283	126	80	1,455	190	573	238	2,056	112	4,624
December	162	285	124	82	1,449	183	562	230	2,030	120	4,575
<b>2017</b> January	166	285	129	82	1,504	185	562	238	2,049	124	4,662
February	166	285	131	82	1,507	187	556	236	2,046	123	4,655
March	168	281	134	81	1,500	185	546	238	2,029	126	4,625
April	165	283	131	84	1,507	181	558	240	2,029	127	4,643
May	167	280	132	81	1,485	180	572	238	2,034	131	4,639
June	165	277	134	81	R 1,477	183	566	236	2,009	127	R 4,598
July	170	279	131	80	R 1,478	188	577	240	1,998	122	R 4,604
August	170	279	131	80	R 1,465	186	582	240	1,986	120	R 4,580
September	165	275	128	78	R 1,441	186	571	244	1,978	118	R 4,538
October	165	274	125	79	R 1,420	R 184	575	241	1,943	121	R 4,485
November	164	272	125	82	1,425	187	574	235	1,923	115	4,459

<sup>a</sup> Through December 1983, the data for Germany are for the former West Germany only. Beginning with January 1984, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

<sup>b</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom; for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia; and, for 2000 forward, Slovenia.

<sup>c</sup> "Other OECD" consists of Australia, New Zealand, and the U.S. Territories; for 1984 forward, Mexico; for 2000 forward, Chile, Estonia, and Israel; and, for 2016 forward, Latvia.

<sup>d</sup> The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."

R=Revised. NA=Not available.

Notes: • Stocks are at end of period. • Petroleum stocks include crude

oil (including strategic reserves), unfinished oils, natural gas liquids, and refined products. • In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, thereby affecting subsequent stocks reported. New-basis end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 states and the District of Columbia.

Web Page: See <http://www.eia.gov/totalenergy/data/monthly/#international> (Excel and CSV files) for all available annual and monthly data beginning in 1973.

Sources: • **United States:** Table 3.4. • **U.S. Territories:** 1983 forward—U.S. Energy Information Administration, International Energy Database.

• **All Other Data:** 1973–1982—International Energy Agency (IEA), *Quarterly Oil Statistics and Energy Balances*, various issues. 1983—IEA, Monthly Oil and Gas Statistics Database. 1984 forward—IEA, Monthly Oil Data Service, February 13, 2018.

# International Petroleum

## Tables 11.1a and 11.1b Sources

### United States

Table 3.1.

### All Other Countries and World, Annual Data

1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8.

1980 forward: EIA, International Energy Statistics Database, February 2018.

### All Other Countries and World, Monthly Data

1973–1980: *Petroleum Intelligence Weekly (PIW)*, *Oil & Gas Journal (OGJ)*, and EIA adjustments.

1981–1993: *PIW*, *OGJ*, and other industry sources.

1994 forward: EIA, International Energy Statistics Database, February 2018.