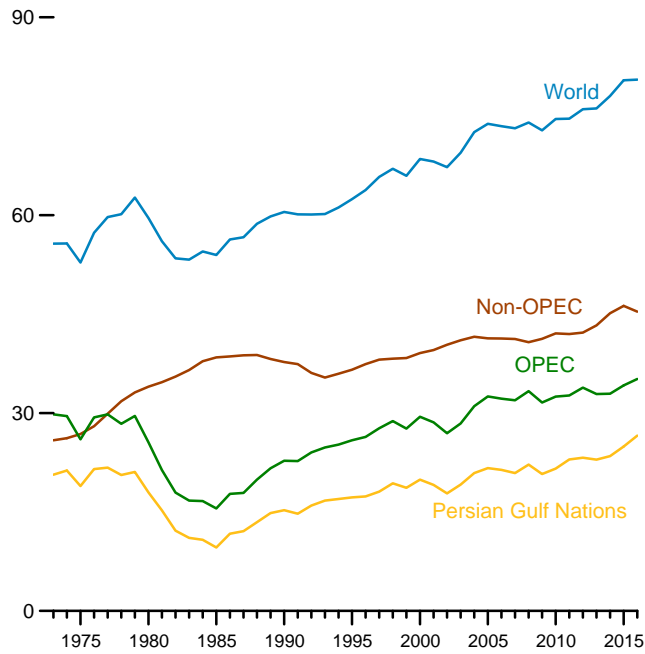


# **11. International Petroleum**

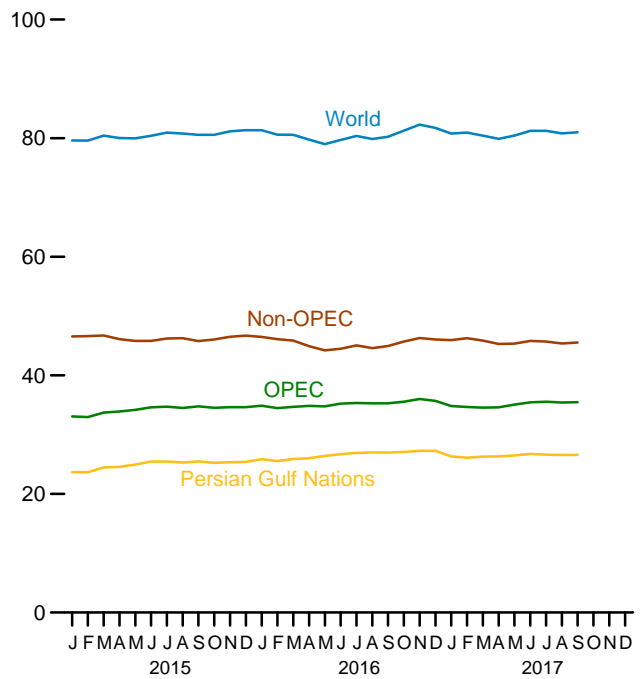
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**Figure 11.1a World Crude Oil Production Overview**  
(Million Barrels per Day)

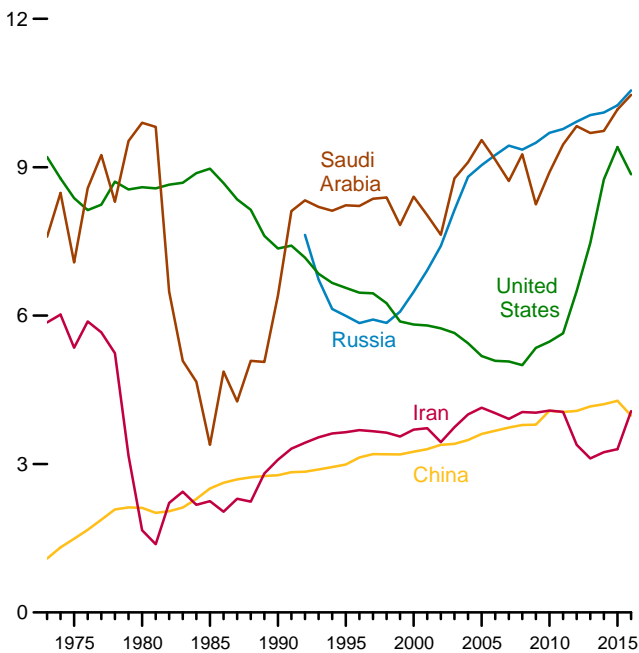
World Production, 1973–2016



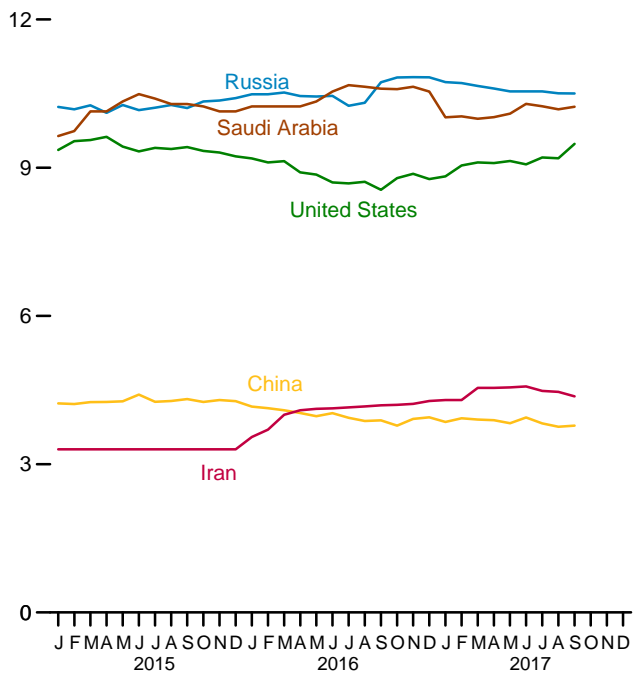
World Production, Monthly



Selected Producers, 1973–2016



Selected Producers, Monthly



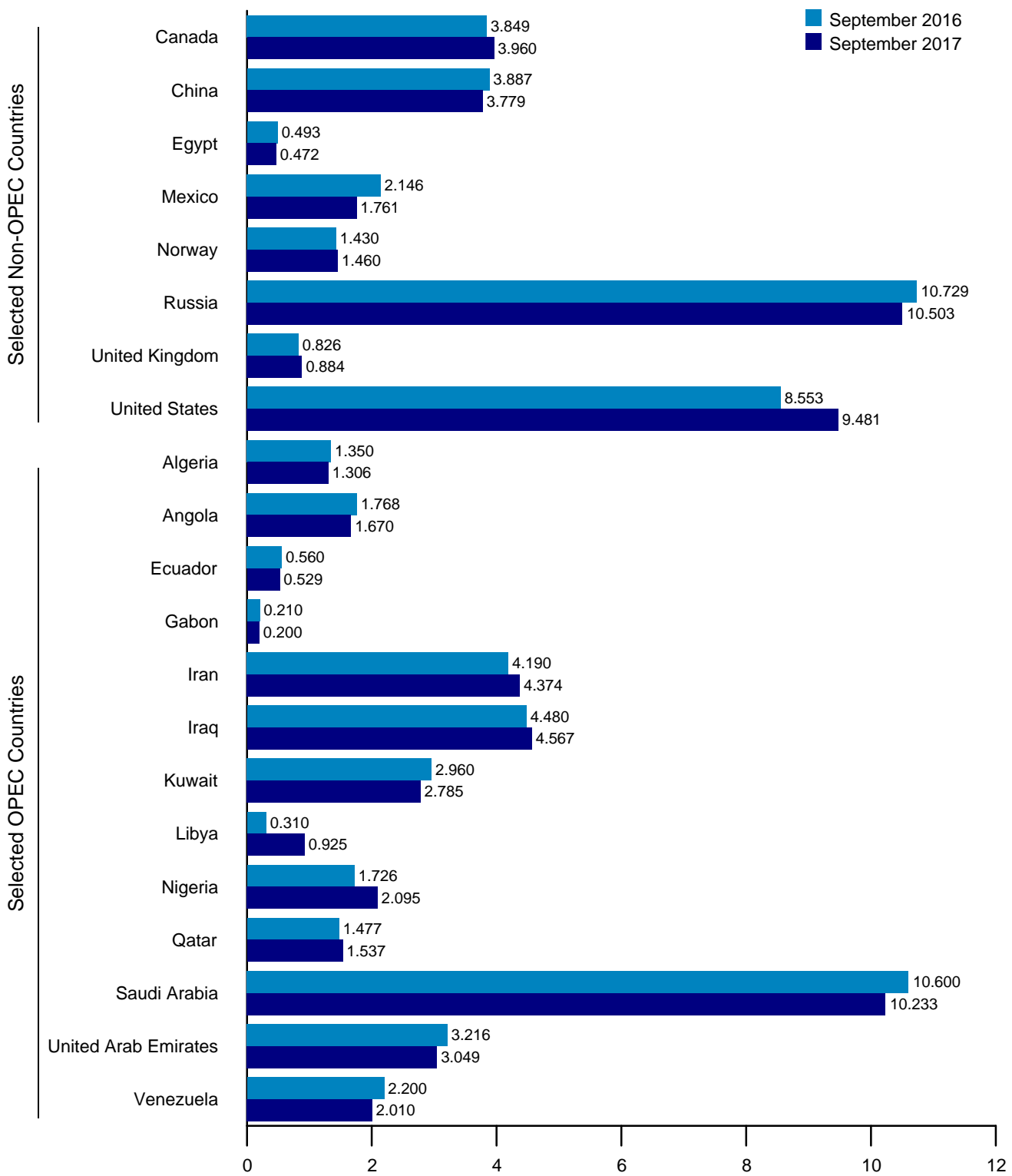
Notes: • OPEC is the Organization of the Petroleum Exporting Countries. • The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in “Per-

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 11.1a World Crude Oil Production: Selected OPEC Members**  
(Thousand Barrels per Day)

	Algeria	Angola	Ecuador	Gabon	Iran	Iraq	Kuwait <sup>a</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>a</sup>	United Arab Emirates	Venezuela	Total OPEC <sup>b</sup>
1973 Average	1,097	162	209	150	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	29,811
1975 Average	983	165	161	223	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	26,013
1980 Average	1,106	150	204	175	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	25,558
1985 Average	1,036	231	281	172	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,539
1990 Average	1,180	475	285	270	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,768
1995 Average	1,162	646	392	365	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,870
1996 Average	1,227	709	396	368	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,389
1997 Average	1,259	714	388	370	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,697
1998 Average	1,226	735	375	352	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,781
1999 Average	1,177	745	373	331	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,632
2000 Average	1,214	746	395	315	3,696	2,571	2,079	1,410	2,165	742	8,404	2,368	3,155	29,427
2001 Average	1,265	742	412	270	3,724	2,390	1,998	1,367	2,256	730	8,031	2,205	3,010	28,581
2002 Average	1,349	896	393	251	3,444	2,023	1,894	1,319	2,118	709	7,634	2,082	2,604	26,929
2003 Average	1,516	903	411	241	3,743	1,308	2,136	1,421	2,275	807	8,775	2,348	2,335	28,425
2004 Average	1,582	1,052	528	239	4,001	2,011	2,376	1,515	2,329	901	9,101	2,478	2,557	31,036
2005 Average	1,692	1,239	532	266	4,139	1,878	2,529	1,633	2,627	978	9,550	2,535	2,565	32,526
2006 Average	1,699	1,398	536	237	4,028	1,996	2,535	1,681	2,440	996	9,152	2,636	2,511	32,587
2007 Average	1,708	1,724	511	244	3,912	2,086	2,464	1,702	2,350	1,083	8,722	2,603	2,490	31,944
2008 Average	1,705	1,951	505	248	4,050	2,375	2,586	1,736	2,165	1,198	9,261	2,681	2,510	33,308
2009 Average	1,585	1,877	486	242	4,037	2,391	2,350	1,650	2,208	1,279	8,250	2,413	2,520	31,609
2010 Average	1,540	1,909	486	246	4,080	2,399	2,300	1,650	2,408	1,459	8,900	2,415	2,410	32,500
2011 Average	1,540	1,756	500	241	4,054	2,626	2,530	465	2,474	1,571	9,458	2,679	2,500	32,672
2012 Average	1,532	1,787	504	230	3,387	2,983	2,635	1,367	2,457	1,551	9,832	2,804	2,500	33,859
2013 Average	1,462	1,803	526	220	3,113	3,054	2,650	918	2,307	1,553	9,693	2,820	2,500	33,999
2014 Average	1,420	1,742	556	220	3,239	3,368	2,642	471	2,347	1,540	9,735	2,894	2,500	32,935
<b>2015</b> January	1,429	1,820	558	215	3,300	3,475	2,750	370	2,294	1,514	9,640	2,960	2,500	33,075
February	1,429	1,770	553	215	3,300	3,325	2,750	360	2,269	1,520	9,740	2,970	2,500	32,951
March	1,429	1,720	553	215	3,300	3,725	2,750	475	2,152	1,525	10,140	2,980	2,500	33,714
April	1,429	1,790	548	205	3,300	3,775	2,770	505	2,165	1,531	10,140	3,010	2,500	33,918
May	1,429	1,770	543	205	3,300	3,925	2,780	430	2,139	1,532	10,340	3,020	2,500	34,163
June	1,429	1,820	541	215	3,300	4,275	2,780	410	2,025	1,537	10,490	3,030	2,500	34,702
July	1,429	1,850	538	215	3,300	4,325	2,810	400	2,122	1,537	10,400	3,030	2,500	34,606
August	1,429	1,870	537	215	3,300	4,225	2,850	360	2,088	1,537	10,290	3,040	2,500	34,491
September	1,429	1,800	539	215	3,300	4,425	2,850	375	2,225	1,537	10,290	3,040	2,500	34,775
October	1,429	1,770	538	215	3,300	4,275	2,800	415	2,198	1,537	10,240	3,050	2,500	34,517
November	1,429	1,820	537	215	3,300	4,425	2,850	375	2,226	1,537	10,140	3,040	2,500	34,644
December	1,429	1,820	533	215	3,300	4,425	2,900	370	2,159	1,537	10,140	3,060	2,500	34,638
<b>Average</b>	<b>1,429</b>	<b>1,802</b>	<b>543</b>	<b>213</b>	<b>3,300</b>	<b>4,054</b>	<b>2,804</b>	<b>404</b>	<b>2,171</b>	<b>1,532</b>	<b>10,168</b>	<b>3,019</b>	<b>2,500</b>	<b>34,190</b>
<b>2016</b> January	1,350	1,798	534	210	3,550	4,475	2,950	370	2,159	1,497	10,240	3,105	2,400	34,865
February	1,350	1,793	540	210	3,700	4,225	2,910	360	2,120	1,517	10,240	2,885	2,400	34,477
March	1,350	1,798	552	210	4,000	4,225	2,930	320	1,993	1,537	10,240	2,910	2,400	34,692
April	1,350	1,793	555	210	4,090	4,475	2,700	330	2,010	1,537	10,240	2,920	2,400	34,837
May	1,350	1,818	556	210	4,120	4,355	2,910	285	1,673	1,537	10,340	3,100	2,300	34,781
June	1,330	1,823	550	210	4,130	4,405	2,910	330	1,811	1,537	10,540	3,135	2,280	35,218
July	1,350	1,829	545	210	4,150	4,415	2,950	310	1,764	1,537	10,670	3,156	2,220	35,333
August	1,350	1,833	549	210	4,170	4,460	2,960	250	1,694	1,537	10,640	3,186	2,210	35,276
September	1,350	1,768	560	210	4,190	4,480	2,960	310	1,726	1,477	10,600	3,216	2,200	35,274
October	1,350	1,618	552	200	4,200	4,565	2,960	550	1,854	1,507	10,590	3,196	2,190	35,559
November	1,350	1,698	544	220	4,220	4,645	2,970	580	1,984	1,527	10,640	3,226	2,180	36,011
December	1,350	1,668	544	220	4,280	4,685	2,970	620	1,684	1,527	10,540	3,226	2,150	35,691
<b>Average</b>	<b>1,348</b>	<b>1,770</b>	<b>548</b>	<b>211</b>	<b>4,068</b>	<b>4,452</b>	<b>2,924</b>	<b>385</b>	<b>1,871</b>	<b>1,523</b>	<b>10,461</b>	<b>3,106</b>	<b>2,277</b>	<b>35,170</b>
<b>2017</b> January	1,340	1,658	536	200	4,300	4,565	2,830	680	1,849	1,487	10,020	3,067	2,100	34,834
February	1,340	1,688	535	185	4,300	4,445	2,770	690	1,869	1,467	10,040	3,047	2,090	34,668
March	1,316	1,630	531	190	4,544	4,431	2,763	590	1,730	1,507	9,992	3,028	2,090	34,544
April	1,306	1,700	528	210	4,544	4,426	2,763	535	1,780	1,512	10,022	3,008	2,080	34,600
May	1,306	1,660	533	200	4,554	4,476	2,763	780	1,900	1,517	10,093	3,028	2,080	35,076
June	1,306	1,690	540	200	4,574	4,491	2,774	850	1,945	1,522	10,293	3,048	2,030	35,449
July	1,306	1,670	541	210	4,482	4,501	2,764	1,005	2,032	1,527	10,243	3,048	2,030	35,545
August	1,306	1,690	536	200	4,462	4,527	2,765	890	2,070	1,532	10,183	3,049	2,030	35,421
September	1,306	1,670	529	200	4,374	4,567	2,785	925	2,095	1,537	10,233	3,049	2,010	35,461
<b>9-Month Average</b>	<b>1,314</b>	<b>1,673</b>	<b>534</b>	<b>200</b>	<b>4,461</b>	<b>4,493</b>	<b>2,775</b>	<b>773</b>	<b>1,919</b>	<b>1,512</b>	<b>10,125</b>	<b>3,041</b>	<b>2,060</b>	<b>35,070</b>
<b>2016 9-Month Average</b>	<b>1,348</b>	<b>1,806</b>	<b>549</b>	<b>210</b>	<b>4,012</b>	<b>4,391</b>	<b>2,909</b>	<b>318</b>	<b>1,882</b>	<b>1,524</b>	<b>10,417</b>	<b>3,069</b>	<b>2,312</b>	<b>34,975</b>
<b>2015 9-Month Average</b>	<b>1,429</b>	<b>1,801</b>	<b>545</b>	<b>213</b>	<b>3,300</b>	<b>3,946</b>	<b>2,788</b>	<b>410</b>	<b>2,163</b>	<b>1,530</b>	<b>10,166</b>	<b>3,009</b>	<b>2,500</b>	<b>34,052</b>

<sup>a</sup> Except for the period from August 1990 through May 1991, includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. As of July 2015 all Neutral Zone production is offline. Data for Saudi Arabia include approximately 150 thousand barrels per day from the Abu Safah field produced on behalf of Bahrain.

<sup>b</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.

R=Revised.

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.

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.

**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	38,335	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	535	3,345	2,491	--	9,247	1,490	5,086	41,299	73,485
2007 Average	20,904	2,628	3,736	530	3,143	2,270	--	9,437	1,498	5,074	41,224	73,168
2008 Average	22,186	2,579	3,790	566	2,839	2,182	--	9,357	1,391	4,998	40,742	74,050
2009 Average	20,754	2,579	3,796	587	2,646	2,067	--	9,495	1,328	5,349	41,259	72,868
2010 Average	21,589	2,741	4,078	568	2,621	1,871	--	9,694	1,233	5,475	42,074	74,573
2011 Average	22,953	2,901	4,052	551	2,600	1,760	--	9,774	1,026	5,643	41,972	74,644
2012 Average	23,233	3,138	4,074	539	2,593	1,612	--	9,922	888	6,497	42,196	76,055
2013 Average	22,932	3,325	4,164	524	2,562	1,533	--	10,054	801	7,466	43,294	76,184
2014 Average	23,469	3,613	4,208	517	2,469	1,562	--	10,107	787	8,753	45,136	78,071
<b>2015</b> January	23,689	3,885	4,232	508	2,290	1,579	--	10,231	872	9,358	46,552	79,626
February	23,655	3,906	4,218	516	2,370	1,589	--	10,181	812	9,537	46,624	79,575
March	24,470	3,775	4,256	525	2,356	1,586	--	10,264	867	9,561	46,717	80,431
April	24,576	3,463	4,258	503	2,235	1,614	--	10,111	925	9,626	46,111	80,029
May	24,947	3,212	4,271	512	2,263	1,555	--	10,270	1,016	9,428	45,813	79,976
June	25,462	3,457	4,408	504	2,283	1,596	--	10,166	870	9,329	45,796	80,398
July	25,452	3,821	4,263	524	2,308	1,611	--	10,213	839	9,402	46,218	80,924
August	25,292	3,922	4,278	523	2,291	1,599	--	10,268	788	9,379	46,272	80,763
September	25,492	3,422	4,317	501	2,306	1,581	--	10,209	862	9,417	45,784	80,559
October	25,252	3,582	4,259	517	2,314	1,685	--	10,341	912	9,339	46,047	80,564
November	25,342	3,819	4,297	494	2,310	1,644	--	10,361	972	9,307	46,497	81,141
December	25,412	3,866	4,275	509	2,308	1,682	--	10,407	979	9,229	46,693	81,331
<b>Average</b>	<b>24,927</b>	<b>3,677</b>	<b>4,278</b>	<b>511</b>	<b>2,302</b>	<b>1,610</b>	--	<b>10,253</b>	<b>893</b>	<b>9,408</b>	<b>46,260</b>	<b>80,449</b>
<b>2016</b> January	25,867	3,877	4,166	498	2,294	1,657	--	10,485	1,003	9,186	46,466	81,331
February	25,527	3,797	4,133	497	2,247	1,675	--	10,485	1,014	9,107	46,098	80,575
March	25,892	3,767	4,091	497	2,249	1,632	--	10,522	987	9,134	45,854	80,546
April	26,012	3,429	4,036	496	2,210	1,666	--	10,450	989	8,906	44,917	79,754
May	26,412	2,811	3,973	495	2,207	1,608	--	10,440	991	8,859	44,208	78,989
June	26,707	3,112	4,034	495	2,213	1,480	--	10,453	897	8,703	44,486	79,704
July	26,928	3,657	3,938	494	2,192	1,762	--	10,254	980	8,682	45,038	80,371
August	27,003	3,855	3,874	493	2,179	1,603	--	10,316	841	8,716	44,580	79,856
September	26,973	3,849	3,887	493	2,146	1,430	--	10,729	826	8,553	44,954	80,228
October	27,068	3,893	3,780	492	2,135	1,766	--	10,826	760	8,791	45,705	81,264
November	27,278	4,135	3,915	491	2,105	1,785	--	10,832	948	8,876	46,283	82,294
December	27,278	3,968	3,949	491	2,067	1,706	--	10,830	961	8,771	46,035	81,726
<b>Average</b>	<b>26,583</b>	<b>3,679</b>	<b>3,981</b>	<b>494</b>	<b>2,187</b>	<b>1,648</b>	--	<b>10,551</b>	<b>933</b>	<b>8,857</b>	<b>45,384</b>	<b>80,554</b>
<b>2017</b> January	26,312	4,097	3,855	490	2,054	1,660	--	10,733	970	RE 8,825	45,929	80,763
February	26,111	4,137	3,929	489	2,051	1,709	--	10,713	944	RE 9,045	46,274	80,942
March	26,306	3,927	3,903	489	RE 2,053	1,750	--	10,654	945	RE 9,107	45,869	80,413
April	26,316	RE 3,577	3,891	487	RE 2,046	1,730	--	10,603	915	RE 9,093	45,292	79,892
May	26,472	RE 3,690	3,829	486	RE 2,053	1,651	--	10,543	930	RE 9,134	45,346	80,422
June	26,743	RE 4,069	3,944	485	RE 2,042	1,587	--	10,543	RE 936	RE 9,068	45,794	81,243
July	26,606	RE 3,970	3,827	485	RE 2,020	1,626	--	10,546	RE 912	RE 9,209	45,699	81,244
August	26,559	RE 4,154	3,758	472	RE 1,962	1,602	--	10,507	832	RE 9,191	45,368	80,989
September	26,586	3,960	3,779	472	1,761	1,460	--	10,503	884	E 9,481	45,535	80,976
<b>9-Month Average</b>	<b>26,448</b>	<b>3,952</b>	<b>3,856</b>	<b>484</b>	<b>2,005</b>	<b>1,641</b>	--	<b>10,593</b>	<b>918</b>	<b>E 9,128</b>	<b>45,673</b>	<b>80,743</b>
<b>2016 9-Month Average</b>	<b>26,373</b>	<b>3,572</b>	<b>4,014</b>	<b>495</b>	<b>2,215</b>	<b>1,613</b>	--	<b>10,458</b>	<b>948</b>	<b>8,872</b>	<b>45,175</b>	<b>80,150</b>
<b>2015 9-Month Average</b>	<b>24,790</b>	<b>3,651</b>	<b>4,278</b>	<b>513</b>	<b>2,300</b>	<b>1,590</b>	--	<b>10,213</b>	<b>873</b>	<b>9,448</b>	<b>46,208</b>	<b>80,260</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

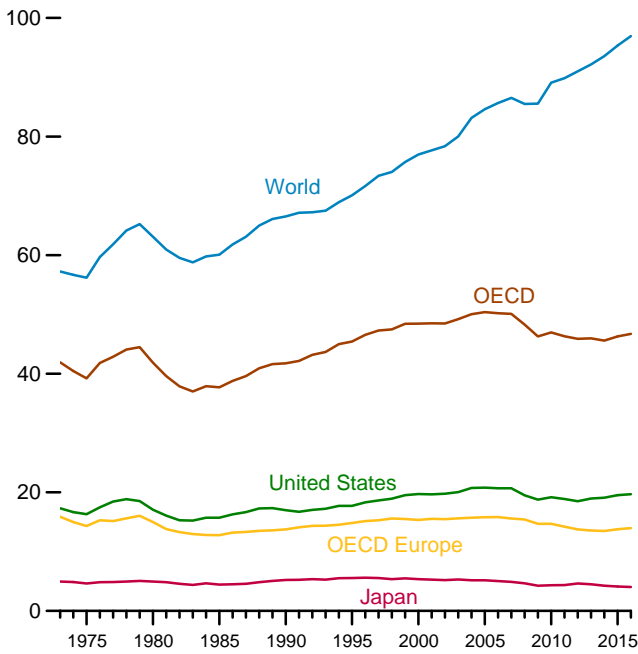
plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World totals due to independent rounding. • U.S. geographic coverage is the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

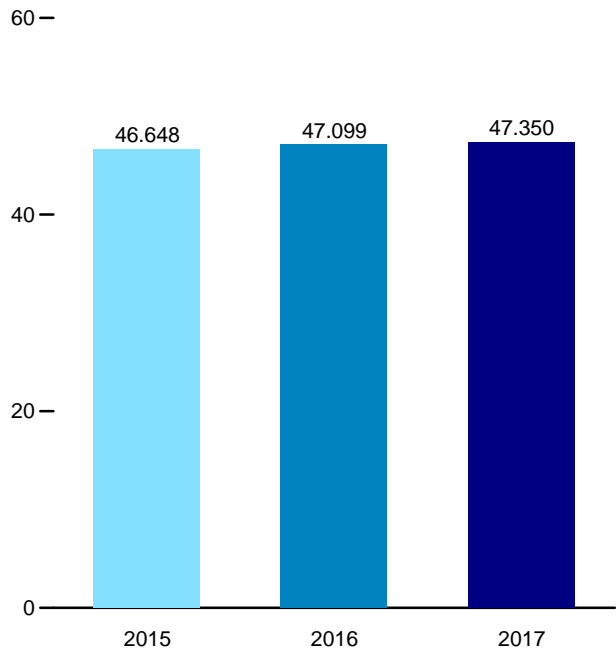
Sources: See end of section.

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

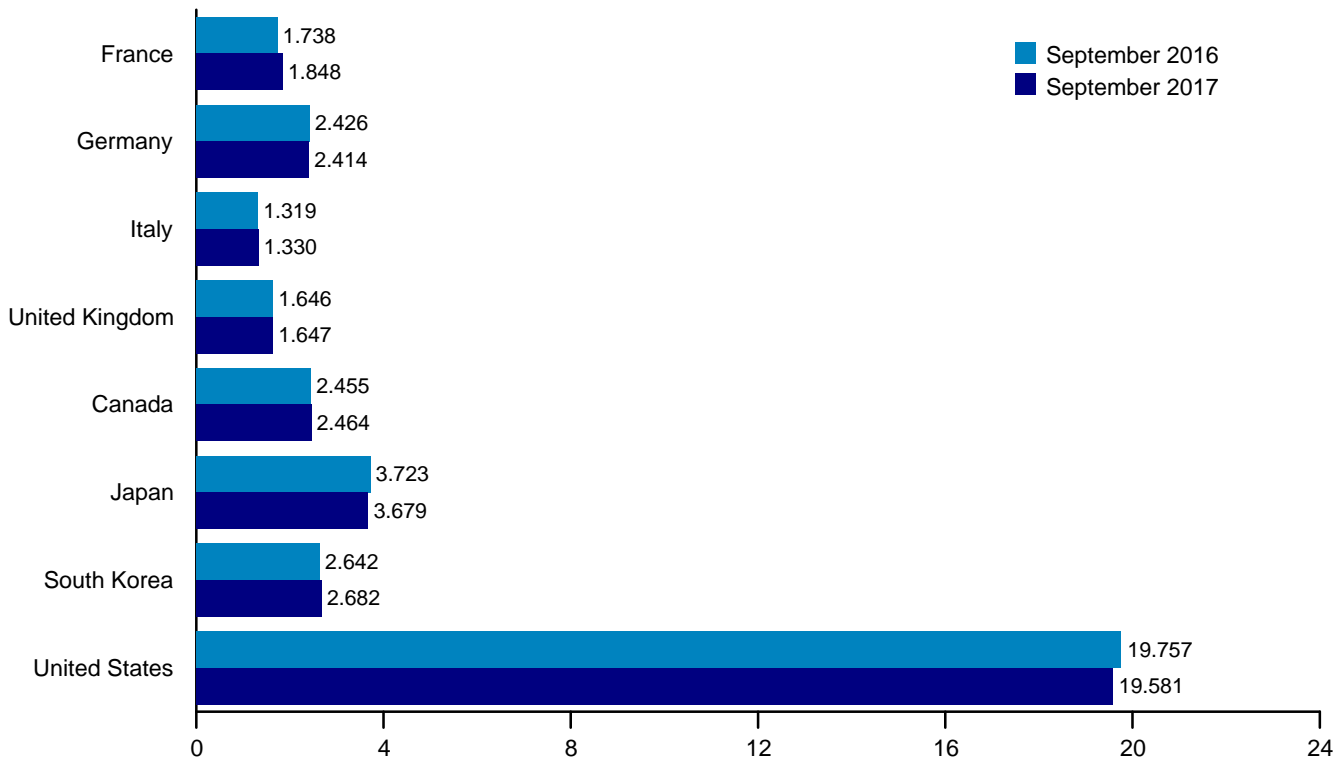
Overview, 1973–2016



OECD Total, September



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.

**Table 11.2 Petroleum Consumption in OECD Countries**  
(Thousand Barrels per Day)

	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>	World
1973 Average	2,601	3,324	2,068	2,341	15,879	1,729	4,949	281	17,308	1,768	41,913	57,237
1975 Average	2,252	2,957	1,855	1,911	14,314	1,779	4,621	311	16,322	1,885	39,232	56,198
1980 Average	2,256	3,082	1,934	1,725	14,995	1,873	4,960	537	17,056	2,449	41,870	63,113
1985 Average	1,753	2,651	1,705	1,617	12,769	1,514	4,436	552	15,726	2,699	37,696	60,082
1990 Average	1,827	2,682	1,868	1,776	13,759	1,722	5,217	1,048	16,988	3,030	41,764	66,539
1995 Average	1,915	2,882	1,942	1,816	14,835	1,799	5,546	2,008	17,725	3,517	45,430	70,077
1996 Average	1,943	2,922	1,920	1,852	15,148	1,853	5,591	2,101	18,309	3,554	46,556	71,654
1997 Average	1,962	2,917	1,934	1,810	15,291	1,940	5,549	2,255	18,620	3,640	47,296	73,378
1998 Average	2,040	2,923	1,943	1,792	15,591	1,931	5,348	1,917	18,917	3,774	47,478	74,028
1999 Average	2,034	2,836	1,891	1,811	15,500	2,016	5,486	2,084	19,519	3,808	48,414	75,700
2000 Average	2,001	2,767	1,854	1,765	15,349	2,008	5,357	2,135	19,701	3,899	48,449	76,982
2001 Average	2,054	2,807	1,835	1,747	15,529	2,029	5,265	2,132	19,649	3,905	48,508	77,670
2002 Average	1,991	2,710	1,870	1,739	15,488	2,040	5,187	2,149	19,761	3,857	48,482	78,361
2003 Average	2,001	2,679	1,860	1,759	15,612	2,155	5,298	2,175	20,034	3,930	49,203	80,015
2004 Average	2,008	2,648	1,829	1,789	15,714	2,233	5,163	2,155	20,731	4,035	50,032	83,156
2005 Average	1,990	2,624	1,781	1,819	15,792	2,338	5,164	2,191	20,802	4,101	50,389	84,597
2006 Average	1,991	2,636	1,777	1,805	15,838	2,346	5,032	2,180	20,687	R 4,116	R 50,199	R 85,661
2007 Average	1,978	2,407	1,729	1,751	15,570	2,434	4,899	2,240	20,680	R 4,259	R 50,883	R 86,512
2008 Average	1,940	2,533	1,667	1,729	15,427	2,344	4,664	2,142	19,498	R 4,200	R 48,274	R 85,484
2009 Average	1,863	2,434	1,544	1,649	14,704	2,283	4,257	2,188	18,771	R 4,082	R 46,287	R 85,540
2010 Average	1,821	2,467	1,544	1,626	14,685	2,382	4,328	2,269	19,180	R 4,114	R 46,957	R 89,096
2011 Average	1,779	2,392	1,494	1,582	14,208	2,429	4,345	2,259	18,887	R 4,181	R 46,308	R 89,833
2012 Average	1,739	2,389	1,370	1,535	13,737	2,480	4,630	2,322	18,487	R 4,237	R 45,883	R 91,013
2013 Average	1,714	2,435	1,260	1,508	13,549	2,457	4,504	2,328	18,967	R 4,148	R 45,953	R 92,170
2014 Average	1,691	2,374	1,266	1,509	13,474	2,375	4,248	2,348	19,100	R 4,140	R 45,585	R 93,563
<b>2015</b> January	1,643	2,287	1,131	1,434	13,019	2,410	4,522	2,531	19,261	R 3,832	R 45,575	NA
February	1,783	2,426	1,236	1,657	13,914	2,492	5,034	2,578	19,664	R 4,103	R 47,785	NA
March	1,692	2,383	1,227	1,480	13,515	2,306	4,505	2,468	19,340	R 3,995	R 46,130	NA
April	1,721	2,355	1,315	1,572	13,717	2,248	4,163	2,445	19,251	R 3,942	R 45,765	NA
May	1,542	2,184	1,232	1,488	13,095	2,289	3,598	2,266	19,316	R 3,960	R 44,523	NA
June	1,774	2,312	1,301	1,561	14,010	2,359	3,677	2,371	19,853	R 4,039	R 46,309	NA
July	1,811	2,385	1,398	1,497	14,205	2,408	3,800	2,355	20,134	R 4,165	R 47,067	NA
August	1,676	2,410	1,248	1,581	13,987	2,424	3,918	2,507	19,939	R 4,015	R 46,790	NA
September	1,793	2,525	1,336	1,625	14,445	2,426	3,859	2,422	19,433	R 4,063	R 46,648	NA
October	1,665	2,426	1,293	1,531	13,919	2,409	3,836	2,472	19,491	R 3,999	R 46,114	NA
November	1,499	2,388	1,258	1,582	13,511	2,371	3,978	2,589	19,127	R 3,999	R 45,576	NA
December	1,718	2,341	1,310	1,572	13,885	2,335	4,616	2,683	19,589	R 4,061	R 47,170	NA
<b>Average</b>	<b>1,692</b>	<b>2,368</b>	<b>1,274</b>	<b>1,547</b>	<b>13,766</b>	<b>2,372</b>	<b>4,120</b>	<b>2,473</b>	<b>19,534</b>	<b>R 4,013</b>	<b>R 46,278</b>	<b>R 95,335</b>
<b>2016</b> January	1,569	2,300	1,108	1,492	R 12,878	2,371	4,345	2,695	19,063	R 4,007	R 45,358	NA
February	1,682	2,468	1,243	1,641	R 13,851	2,328	4,629	2,752	19,847	R 4,177	R 47,584	NA
March	1,718	2,475	1,251	1,538	R 13,896	2,304	4,356	2,533	19,728	R 4,078	R 46,895	NA
April	1,663	2,478	1,281	1,611	R 13,985	2,258	3,973	2,519	19,340	R 4,001	R 46,075	NA
May	1,661	2,285	1,246	1,549	R 13,599	2,304	3,579	2,574	19,328	R 3,925	R 45,309	NA
June	1,580	2,313	1,302	1,654	R 14,010	2,389	3,561	2,544	19,846	R 4,056	R 46,407	NA
July	1,681	2,398	1,305	1,551	R 14,023	2,401	3,779	2,472	19,776	R 3,988	R 46,439	NA
August	1,702	2,451	1,250	1,608	R 14,549	2,532	3,860	2,684	20,275	R 4,084	R 47,984	NA
September	1,738	2,426	1,319	1,646	R 14,524	2,455	3,723	2,642	19,757	R 3,999	R 47,099	NA
October	1,667	2,457	1,236	1,594	R 14,267	2,347	3,777	2,532	19,650	R 3,902	R 46,475	NA
November	1,565	2,502	1,206	1,596	R 14,055	2,386	4,158	2,780	19,659	R 4,047	R 47,085	NA
December	1,659	2,373	1,287	1,564	R 14,041	2,467	4,596	2,843	19,984	R 4,107	R 48,038	NA
<b>Average</b>	<b>1,657</b>	<b>2,410</b>	<b>1,253</b>	<b>1,586</b>	<b>R 13,972</b>	<b>2,379</b>	<b>4,026</b>	<b>2,630</b>	<b>19,687</b>	<b>R 4,030</b>	<b>R 46,725</b>	<b>R 96,929</b>
<b>2017</b> January	1,738	R 2,431	1,178	1,445	R 13,539	2,350	4,176	2,665	19,244	R 3,766	R 45,741	NA
February	1,706	R 2,489	1,234	1,652	R 13,924	2,325	4,565	2,739	19,159	R 4,063	R 46,774	NA
March	1,709	R 2,649	1,280	1,492	R 14,134	2,376	4,279	2,668	20,047	R 4,128	R 47,632	NA
April	1,625	R 2,514	1,196	1,630	R 13,872	2,159	3,841	2,522	19,556	R 4,081	R 46,032	NA
May	1,670	R 2,506	1,279	1,515	R 14,179	2,413	3,553	2,590	20,039	R 4,221	R 46,995	NA
June	1,747	R 2,494	1,371	1,629	R 14,686	2,446	3,524	2,563	20,494	R 4,189	R 47,901	NA
July	1,729	R 2,556	1,348	1,587	R 14,625	R 2,465	3,636	2,634	20,020	R 4,013	R 47,393	NA
August	1,713	R 2,528	1,278	R 1,560	R 14,499	R 2,561	3,747	2,616	20,161	R 4,179	R 47,763	NA
September	1,848	2,414	1,330	1,647	14,874	2,464	3,679	2,682	19,581	4,071	47,350	NA
<b>9-Month Average</b>	<b>1,721</b>	<b>2,509</b>	<b>1,277</b>	<b>1,571</b>	<b>14,260</b>	<b>2,396</b>	<b>3,884</b>	<b>2,630</b>	<b>19,818</b>	<b>4,079</b>	<b>47,067</b>	<b>NA</b>
<b>2016 9-Month Average</b>	<b>1,666</b>	<b>2,399</b>	<b>1,256</b>	<b>1,587</b>	<b>13,922</b>	<b>2,372</b>	<b>3,976</b>	<b>2,601</b>	<b>19,661</b>	<b>4,034</b>	<b>46,565</b>	<b>NA</b>
<b>2015 9-Month Average</b>	<b>1,714</b>	<b>2,362</b>	<b>1,269</b>	<b>1,542</b>	<b>13,763</b>	<b>2,373</b>	<b>4,112</b>	<b>2,437</b>	<b>19,577</b>	<b>4,012</b>	<b>46,272</b>	<b>NA</b>

<sup>a</sup> Data are for 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.

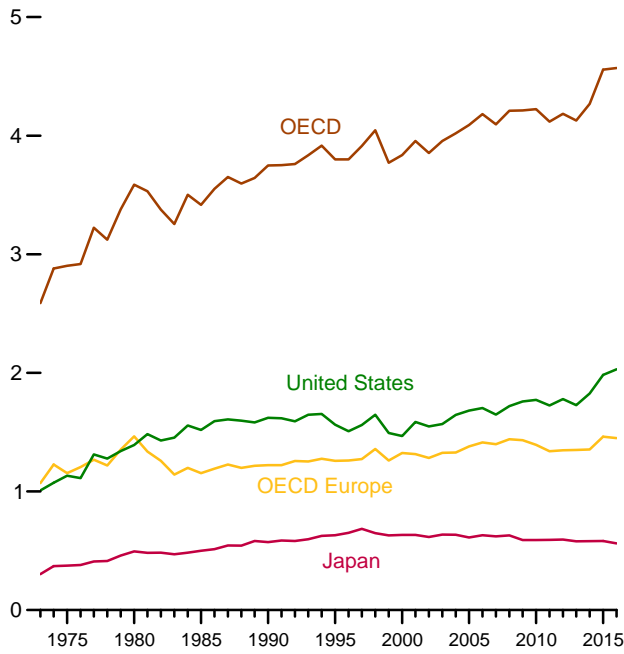
Notes: • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 states and the District of Columbia.

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.

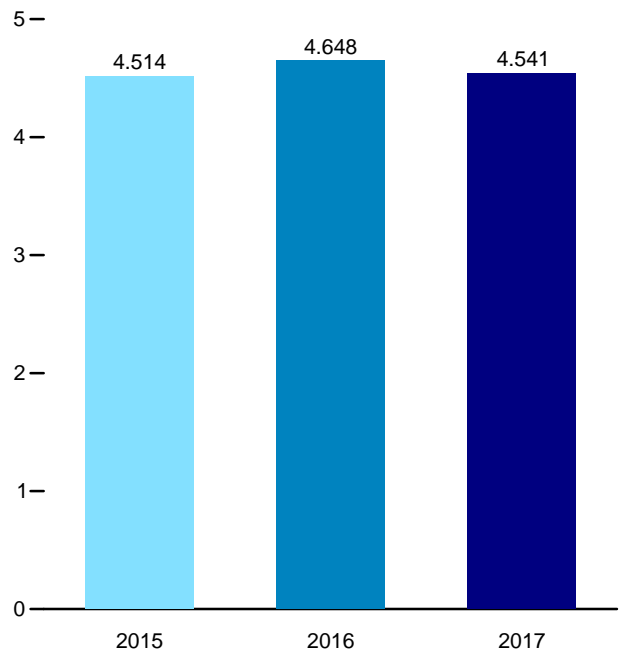
Sources: • **United States:** Table 3.1. • **Chile, East Germany, Former Czechoslovakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973–1979**—U.S. Energy Information Administration (EIA), International Energy Database. • **Countries Other Than United States: 1980–2008**—EIA, International Energy Statistics (IES). • **OECD Countries, and U.S. Territories: 2009 forward**—EIA, IES. • **World: 2009 forward**—EIA, International Energy Statistics Database. • **All Other Data:**—International Energy Agency (IEA), *Quarterly Oil Statistics and Energy Balances in OECD Countries*, various issues.

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

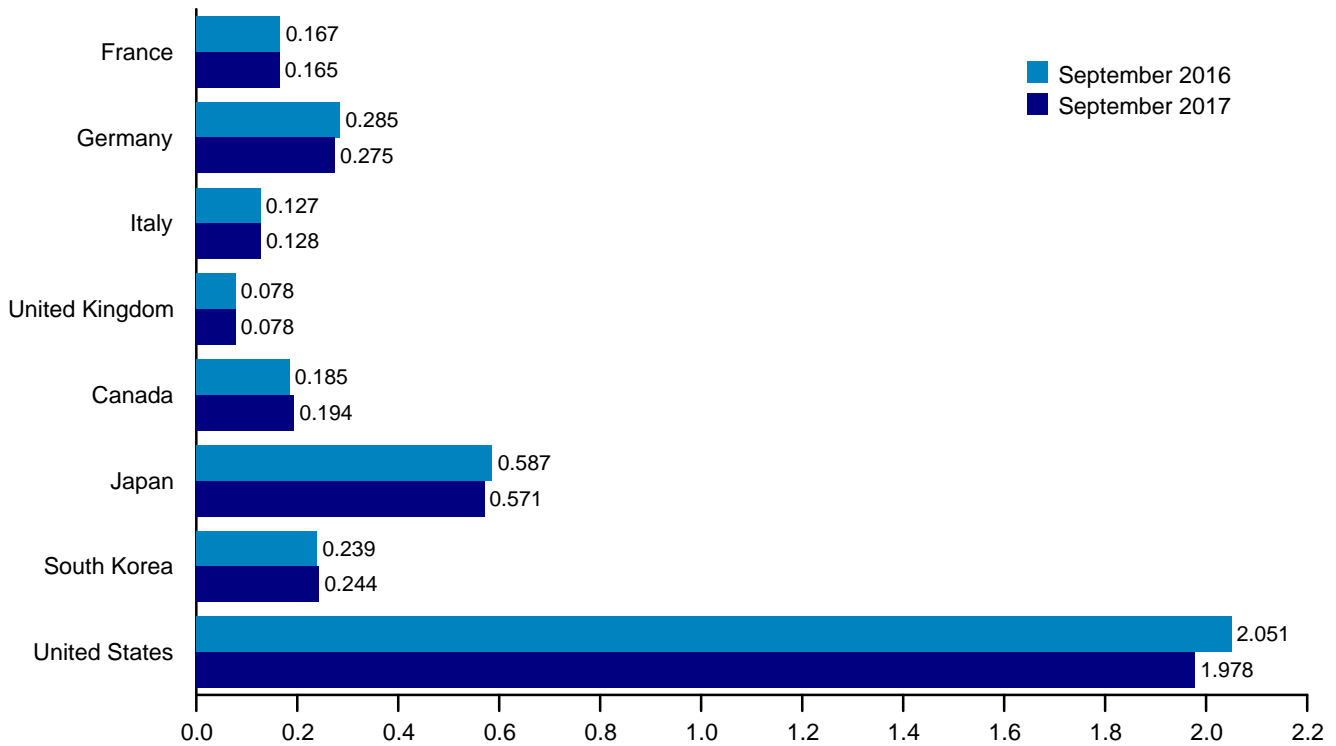
Overview, End of Year, 1973–2016



OECD Stocks, End of Month, September



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	116	4,603
February	169	289	123	81	1,494	183	564	233	2,018	113	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	116	4,608
May	167	289	123	81	1,488	169	574	235	2,051	118	4,633
June	167	288	121	82	1,479	175	573	238	2,049	121	4,635
July	169	290	125	75	1,499	186	577	238	2,066	123	4,688
August	167	287	130	80	1,485	186	585	233	2,066	118	4,674
September	167	285	127	78	1,468	185	587	239	2,051	118	4,648
October	163	287	128	77	1,450	190	587	238	2,053	117	4,635
November	166	283	126	80	1,455	190	573	238	2,056	110	4,622
December	162	285	124	82	1,449	183	562	230	2,030	115	4,570
<b>2017</b> January	166	285	129	82	1,504	185	562	238	2,049	117	4,654
February	166	285	131	82	1,507	187	556	236	2,046	113	4,645
March	168	281	134	81	1,500	185	546	238	2,029	116	4,614
April	165	283	131	84	1,507	181	558	240	2,029	120	4,636
May	167	280	132	81	1,485	180	572	238	2,034	124	4,633
June	165	277	134	81	1,475	183	566	236	2,009	120	4,589
July	170	279	131	80	1,480	<sup>R</sup> 191	577	240	1,998	115	4,600
August	170	279	131	<sup>R</sup> 80	1,466	<sup>R</sup> 193	582	240	1,986	114	<sup>R</sup> 4,581
September	165	275	128	78	1,443	194	571	244	1,978	111	4,541

<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."

<sup>R</sup>=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, December 14, 2017.

# 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, December 2017.

### 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, December 2017.