

Table 6. Domestic crude oil production, projected versus actual

Projected (million barrels)	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	
AEO1994	2,508	2,373	2,256	2,161	2,088	2,022	1,953	1,891	1,851	1,825	1,799	1,781	1,767	1,759	1,778	1,789	1,807	1,862												
AEO1995		2,402	2,307	2,205	2,095	2,037	1,967	1,953	1,924	1,916	1,905	1,894	1,883	1,887	1,887	1,920	1,945	1,967												
AEO1996			2,387	2,310	2,248	2,172	2,113	2,062	2,011	1,978	1,953	1,938	1,916	1,920	1,927	1,949	1,971	1,986	2,000	2,018	2,055	2,095	2,121							
AEO1997				2,362	2,307	2,245	2,197	2,143	2,091	2,055	2,033	2,015	2,004	1,997	1,989	1,982	1,975	1,967	1,949	1,942	1,935	1,924	1,909							
AEO1998					2,340	2,332	2,291	2,252	2,220	2,192	2,169	2,145	2,125	2,104	2,087	2,068	2,050	2,033	2,016	1,995	1,974	1,940	1,913	1,886	1,860	1,837	1,818	1,798		
AEO1999						2,340	2,309	2,296	2,265	2,207	2,171	2,141	2,122	2,114	2,092	2,074	2,057	2,040	2,025	2,010	1,992	1,971	1,947	1,924	1,901	1,879	1,847	1,811		
AEO2000							2,193	2,181	2,122	2,063	2,016	1,980	1,957	1,939	1,920	1,904	1,894	1,889	1,889	1,890	1,897	1,897	1,898	1,916	1,921	1,925	1,926	1,919		
AEO2001								2,152	2,161	2,204	2,193	2,111	2,062	1,995	1,957	1,934	1,901	1,879	1,848	1,850	1,852	1,844	1,854	1,876	1,885	1,888	1,861	1,844		
AEO2002									2,133	2,135	2,074	2,008	1,962	1,944	1,943	1,913	1,880	1,855	1,842	1,848	1,912	1,974	2,028	2,084	2,109	2,104	2,064	2,055		
AEO2003										2,149	2,121	2,065	2,038	2,193	2,210	2,170	2,119	2,054	2,020	1,990	1,949	1,922	1,915	1,921	1,926	1,941	1,985	1,994	1,991	
AEO2004											2,076	2,116	2,139	2,166	2,222	2,231	2,209	2,166	2,124	2,085	2,065	2,031	2,018	1,977	1,923	1,921	1,875	1,808	1,767	
AEO2005												2,059	2,124	2,200	2,221	2,243	2,257	2,198	2,152	2,123	2,081	2,044	2,006	1,954	1,936	1,925	1,916	1,902	1,849	
AEO2006													1,944	2,008	2,023	2,061	2,133	2,146	2,132	2,140	2,144	2,145	2,133	2,140	2,106	2,076	2,051	2,025	1,987	
AEO2007															1,861	2,001	2,058	2,074	2,068	2,086	2,104	2,079	2,123	2,158	2,168	2,168	2,165	2,166	2,143	
AEO2008																1,862	1,876	2,064	2,165	2,166	2,168	2,192	2,206	2,247	2,273	2,287	2,293	2,285	2,273	2,249
AEO2009																	1,809	1,955	2,015	2,024	2,039	2,033	2,004	1,978	1,966	1,978	2,028	2,075	2,114	2,168
AEO2010																		1,913	1,936	1,980	1,999	2,079	2,098	2,108	2,097	2,126	2,161	2,211	2,239	2,252
AEO2011																			2,011	1,993	1,962	2,037	2,102	2,122	2,175	2,218	2,228	2,235	2,219	2,216
AEO2012																				2,033	2,094	2,154	2,191	2,244	2,344	2,360	2,390	2,425	2,444	2,418
AEO2013																					2,312	2,492	2,618	2,660	2,744	2,737	2,735	2,750	2,726	2,692
AEO2014																						2,819	3,113	3,299	3,483	3,488	3,495	3,507	3,487	3,437
AEO2015																							3,151	3,404	3,486	3,651	3,786	3,861	3,870	3,837
AEO2016																								3,440	3,225	3,122	3,289	3,352	3,423	3,433
AEO2017																									3,191	3,174	3,400	3,536	3,608	3,663
AEO2018																										3,374	3,630	3,809	3,906	4,006
AEO2019																											3,920	4,369	4,776	4,988
AEO2020																												4,476	4,808	4,993
AEO2021																													4,187	4,076
AEO2022																														4,063
Actual	2,499	2,431	2,394	2,366	2,355	2,282	2,147	2,131	2,118	2,097	2,062	1,991	1,892	1,857	1,853	1,830	1,954	1,999	2,058	2,370	2,721	3,179	3,442	3,242	3,415	4,002	4,471	4,130	4,082	
Average absolute difference	9	44	78	107	139	127	116	107	101	105	94	92	132	163	165	176	103	86	85	338	640	1,010	1,185	949	1,051	1,501	1,845	1,520	1,253	

Table 6. Domestic crude oil production, projected versus actual (continued)

Projected versus actual
(percentage difference)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021				
AEO1994	0.3	-2.4	-5.8	-8.7	-11.3	-11.4	-9.0	-11.3	-12.6	-13.0	-12.7	-10.6	-6.6	-5.2	-4.1	-2.3	-7.5	-6.9															
AEO1995		-1.2	-3.7	-6.8	-11.0	-10.7	-8.4	-8.4	-9.2	-8.6	-7.6	-4.9	-0.5	1.6	1.8	4.9	-0.4	-1.6															
AEO1996			-0.3	-2.3	-4.5	-4.8	-1.6	-3.2	-5.0	-5.6	-5.3	-2.7	1.3	3.4	4.0	6.5	0.9	-0.6	-2.8	-14.8	-24.5	-34.1	-38.4										
AEO1997				-0.2	-2.0	-1.6	2.4	0.6	-1.2	-2.0	-1.4	1.2	5.9	7.5	7.3	8.3	1.0	-1.6	-5.3	-18.1	-28.9	-39.5	-44.5										
AEO1998				-0.6	2.2	6.7	5.7	4.8	4.5	5.2	7.7	12.3	13.3	12.6	13.0	4.9	1.7	-2.0	-15.8	-27.5	-39.0	-44.4	-41.8	-45.5	-54.1	-59.3	-56.5						
AEO1999					2.5	7.6	7.8	7.0	5.3	5.3	7.5	12.2	13.8	12.9	13.3	5.3	2.1	-1.6	-15.2	-26.8	-38.0	-43.4	-40.6	-44.3	-53.1	-58.7	-56.1						
AEO2000						2.1	2.4	0.2	-1.6	-2.3	-0.6	3.4	4.4	3.6	4.0	-3.1	-5.5	-8.2	-20.2	-30.3	-40.3	-44.9	-40.9	-43.7	-51.9	-56.9	-53.5						
AEO2001							1.0	2.1	5.1	6.4	6.0	9.0	7.4	5.6	5.6	-2.7	-6.0	-10.2	-21.9	-31.9	-42.0	-46.1	-42.1	-44.8	-52.8	-58.4	-55.4						
AEO2002								0.7	1.9	0.6	0.9	3.7	4.7	4.9	4.5	-3.8	-7.2	-10.5	-22.0	-29.7	-37.9	-41.1	-35.7	-38.2	-47.4	-53.8	-50.2						
AEO2003									2.5	2.9	3.7	7.7	18.1	19.3	18.6	8.5	2.8	-1.8	-16.1	-28.4	-39.6	-44.4	-40.7	-43.6	-51.5	-55.6	-51.7	-51.2					
AEO2004										0.7	6.3	13.0	16.7	19.9	21.9	13.1	8.4	3.2	-12.0	-24.1	-36.1	-41.4	-39.0	-43.7	-52.0	-58.0	-56.2	-56.7					
AEO2005											3.4	12.3	18.5	19.8	22.5	15.5	10.0	4.6	-10.4	-23.5	-35.7	-41.7	-39.7	-43.3	-51.9	-57.1	-54.0	-54.7					
AEO2006												2.7	8.2	9.2	12.6	9.2	7.4	3.6	-9.7	-21.2	-32.5	-38.0	-34.0	-38.3	-48.1	-54.1	-51.0	-51.3					
AEO2007													0.2	7.9	12.4	6.1	3.5	1.4	-11.2	-23.6	-33.2	-37.3	-33.1	-36.5	-45.9	-51.5	-47.9	-47.5					
AEO2008														0.5	2.5	5.6	8.3	5.2	-8.5	-19.4	-30.6	-34.7	-29.9	-33.0	-42.7	-48.9	-45.0	-44.9					
AEO2009																-1.2	0.0	0.8	-1.6	-14.0	-25.3	-37.0	-42.5	-39.4	-42.1	-49.3	-53.6	-48.8	-46.9				
AEO2010																			-2.1	-3.1	-3.8	-15.7	-23.6	-34.0	-38.8	-35.3	-37.7	-46.0	-50.5	-45.8	-44.8		
AEO2011																				0.6	-3.1	-17.2	-25.1	-33.9	-38.4	-32.9	-35.1	-44.3	-50.0	-46.3	-45.7		
AEO2012																				-1.2	-11.6	-20.8	-31.1	-34.8	-27.7	-30.9	-40.3	-45.8	-40.8	-40.8			
AEO2013																					-2.4	-8.4	-17.6	-22.7	-15.3	-19.8	-31.6	-38.5	-34.0	-34.1			
AEO2014																						3.6	-2.1	-4.2	7.4	2.2	-12.7	-21.6	-15.6	-15.8			
AEO2015																							-0.9	-1.1	7.6	6.9	-5.4	-13.6	-6.3	-6.0			
AEO2016																								-0.1	-0.5	-8.6	-17.8	-25.0	-17.1	-15.9			
AEO2017																									-1.6	-7.0	-15.0	-20.9	-12.6	-10.3			
AEO2018																										-1.2	-9.3	-14.8	-5.4	-1.9			
AEO2019																										-2.1	-2.3	15.7	22.2				
AEO2020																											0.1	16.4	22.3				
AEO2021																												1.4	-0.2				
AEO2022																																	

Average absolute percentage difference	0.3	1.8	3.2	4.5	5.9	5.6	5.4	5.0	4.8	5.0	4.6	4.6	7.0	8.8	8.9	9.6	5.3	4.3	4.1	14.3	23.5	31.8	34.4	29.3	30.8	37.5	41.3	36.8	30.7
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Data source: Historical data are from the U.S. Energy Information Administration open data API (accessed April 2022), <http://www.eia.gov/opa/data/>, series: TOTAL.PAPPUSA; projections: Annual Energy Outlook, Reference case projections from various editions

Notes: shading indicates overestimation (blue) or underestimation (green).