

Table 9. Total natural gas consumption, projected versus actual

Projected (trillion cubic feet)		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		19.87	20.21	20.64	20.99	21.20	21.42	21.60	21.99	22.37	22.63	22.95	23.22	23.58	23.82	24.09	24.13	24.02	24.14														
AEO1995			20.82	20.66	20.85	21.21	21.65	21.95	22.12	22.25	22.43	22.62	22.87	23.08	23.36	23.61	24.08	24.23	24.59														
AEO1996			21.32	21.64	22.11	22.21	22.26	22.34	22.46	22.74	23.14	23.63	24.08	24.25	24.63	25.11	25.56	26.00	26.63	27.21	27.61	28.26	28.70										
AEO1997				22.15	22.75	23.24	23.64	23.86	24.13	24.65	25.34	25.82	26.22	26.52	27.00	27.35	27.70	28.01	28.47	28.90	29.31	29.99	30.16										
AEO1998					21.84	23.03	23.84	24.08	24.44	24.81	25.33	25.72	26.22	26.65	27.22	27.84	28.35	28.84	29.17	29.62	30.06	30.28	30.61	30.85	31.42	31.66	31.97	32.20					
AEO1999						21.35	22.36	22.54	23.18	23.65	24.17	24.57	25.19	25.77	26.41	26.92	27.42	28.02	28.50	29.12	29.53	30.23	30.81	31.21	31.61	31.95	32.16	32.30					
AEO2000							21.46	22.36	22.19	22.42	22.92	23.27	23.91	24.53	25.25	25.84	26.22	26.95	27.47	27.98	28.50	29.13	29.88	30.25	30.67	31.03	31.30	31.53					
AEO2001								22.00	22.67	23.55	24.37	24.96	25.24	25.70	26.01	26.59	27.24	28.05	28.61	29.33	30.04	30.78	31.61	32.34	33.00	33.66	34.16	34.73					
AEO2002									22.22	23.89	24.73	25.20	25.50	26.00	26.43	26.96	27.46	28.13	28.93	29.59	30.15	30.74	31.34	31.88	32.41	32.96	33.34	33.78					
AEO2003										23.20	24.00	24.48	24.60	24.98	25.21	25.98	26.52	27.06	27.68	28.32	28.71	29.15	29.50	29.96	30.33	30.95	31.54	32.14	32.80				
AEO2004											22.09	23.17	23.53	24.04	24.50	25.12	25.43	26.15	26.71	27.18	27.51	27.80	28.03	28.51	28.96	29.63	30.14	30.44	30.41				
AEO2005												22.14	22.32	22.64	23.07	23.95	24.64	25.44	26.23	26.83	27.28	27.70	27.96	28.44	29.05	29.48	29.76	29.95	30.06				
AEO2006													22.21	22.17	22.38	22.87	23.05	23.35	23.84	24.43	24.93	25.33	25.91	26.32	26.48	26.66	26.85	26.92	26.93				
AEO2007														21.72	22.68	23.40	23.77	24.02	24.18	24.57	24.80	25.09	25.32	25.53	25.60	25.73	25.93	26.26	26.24				
AEO2008															22.90	23.12	23.31	23.25	23.37	23.54	23.35	23.42	23.66	23.83	23.78	23.61	23.42	23.33	23.34				
AEO2009																23.04	22.55	21.89	21.45	21.11	21.10	21.00	21.04	21.10	21.18	21.31	21.42	21.53	21.66				
AEO2010																	22.59	22.51	21.99	21.82	21.32	21.29	21.74	21.86	22.07	22.25	22.45	22.63	22.58				
AEO2011																		23.83	23.86	23.91	24.44	24.72	25.11	25.10	25.20	25.34	25.43	25.34	25.14				
AEO2012																			24.52	25.20	24.35	24.89	25.39	25.39	25.37	25.42	25.52	25.47	25.48				
AEO2013																				25.63	25.30	25.00	25.30	26.23	26.07	26.23	26.29	26.32	26.38				
AEO2014																					25.65	25.20	25.51	26.33	26.31	26.44	26.68	27.06	27.30				
AEO2015																						27.12	26.56	27.04	26.39	26.43	26.33	26.14	26.09				
AEO2016																							27.47	27.78	28.10	27.84	27.76	27.46	27.34				
AEO2017																								27.68	27.85	28.09	27.85	27.32	27.21				
AEO2018																									26.68	28.18	29.03	29.03	29.16				
AEO2019																											29.34	29.61	30.26	30.45			
AEO2020																												31.03	31.08	31.92			
AEO2021																													30.76	28.97			
AEO2022																																	30.25
Actual		20.79	21.25	22.21	22.61	22.74	22.25	22.41	23.33	22.24	23.03	22.28	22.40	22.01	21.70	23.10	23.28	22.91	24.09	24.48	25.54	26.16	26.70	27.47	27.49	27.09	30.08	31.01	30.48	30.28			
Average absolute difference		0.92	0.73	1.33	1.20	0.92	0.69	0.72	0.99	0.65	0.75	1.54	1.73	2.27	2.74	1.84	1.97	2.47	2.11	2.46	2.39	2.49	2.59	2.53	2.51	2.64	3.23	3.48	3.20	3.24			

Table 9. Total natural gas consumption, 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	-4.4	-4.9	-7.1	-7.2	-6.8	-3.7	-3.6	-5.8	0.6	-1.7	3.0	3.6	7.1	9.8	4.3	3.7	4.8	0.2													
AEO1995		-2.0	-7.0	-7.8	-6.7	-2.7	-2.0	-5.2	0.1	-2.6	1.5	2.1	4.8	7.7	2.2	3.4	5.8	2.1													
AEO1996			-4.0	-4.3	-2.8	-0.2	-0.6	-4.3	1.0	-1.2	3.9	5.5	9.4	11.8	6.6	7.9	11.6	7.9	8.8	6.5	5.6	5.9	4.5								
AEO1997				-2.0	0.1	4.5	5.5	2.3	8.5	7.0	13.8	15.3	19.1	22.2	16.9	17.5	20.9	16.3	16.3	13.2	12.1	12.3	9.8								
AEO1998					-3.9	3.5	6.4	3.2	9.9	7.7	13.7	14.8	19.1	22.8	17.8	19.6	23.7	19.7	19.2	16.0	14.9	13.4	11.4	12.2	16.0	5.3	3.1	5.7			
AEO1999						-4.0	-0.2	-3.4	4.2	2.7	8.5	9.7	14.4	18.7	14.3	15.6	19.7	16.3	16.4	14.0	12.9	13.2	12.1	13.6	16.7	6.2	3.7	6.0			
AEO2000							-4.2	-0.2	-2.6	2.9	3.9	8.6	13.1	9.3	11.0	14.4	11.9	12.2	9.5	9.0	9.1	8.7	10.0	13.2	3.2	0.9	3.5				
AEO2001								-5.7	1.9	2.3	9.4	11.4	14.7	18.4	12.6	14.2	18.9	16.4	16.9	14.9	14.9	15.3	15.1	17.7	21.8	11.9	10.1	14.0			
AEO2002									-0.1	3.7	11.0	12.5	15.8	19.8	14.4	15.8	19.9	16.8	18.2	15.9	15.3	15.1	14.1	16.0	19.6	9.6	7.5	10.8			
AEO2003										0.8	7.7	9.3	11.8	15.1	9.1	11.6	15.7	12.3	13.1	10.9	9.8	9.2	7.4	9.0	11.9	2.9	1.7	5.5	8.3		
AEO2004											-0.8	3.4	6.9	10.8	6.0	7.9	11.0	8.6	9.1	6.4	5.2	4.1	2.0	3.7	6.9	-1.5	-2.8	-0.1	0.4		
AEO2005												-1.2	1.4	4.3	-0.1	2.9	7.5	5.6	7.1	5.1	4.3	3.7	1.8	3.5	7.2	-2.0	-4.1	-1.7	-0.7		
AEO2006													0.9	2.2	-3.1	-1.7	0.6	-3.0	-2.6	-4.4	-4.7	-5.1	-5.7	-4.3	-2.3	-11.4	-13.4	-11.7	-11.1		
AEO2007														0.1	-1.8	0.5	3.7	-0.3	-1.2	-3.8	-5.2	-6.0	-7.8	-7.1	-5.5	-14.5	-16.4	-13.8	-13.4		
AEO2008															-0.9	-0.7	1.8	-3.5	-4.5	-7.8	-10.7	-12.3	-13.9	-13.3	-12.2	-21.5	-24.5	-23.5	-22.9		
AEO2009																-1.0	-1.6	-9.1	-12.4	-17.3	-19.3	-21.3	-23.4	-23.2	-21.8	-29.1	-30.9	-29.4	-28.5		
AEO2010																	-1.4	-6.5	-10.2	-14.6	-18.5	-20.2	-20.9	-20.5	-18.5	-26.0	-27.6	-25.7	-25.4		
AEO2011																		-1.1	-2.5	-6.4	-6.6	-7.4	-8.6	-8.7	-7.0	-15.7	-18.0	-16.9	-17.0		
AEO2012																			0.2	-1.3	-6.9	-6.8	-7.6	-7.6	-6.4	-15.5	-17.7	-16.4	-15.9		
AEO2013																				0.3	-3.3	-6.3	-7.9	-4.6	-3.8	-12.8	-15.2	-13.6	-12.9		
AEO2014																					-1.9	-5.6	-7.2	-4.2	-2.9	-12.1	-14.0	-11.2	-9.9		
AEO2015																					1.6	-3.3	-1.6	-2.6	-12.1	-15.1	-14.2	-13.8			
AEO2016																						0.0	1.1	3.7	-7.4	-10.5	-9.9	-9.7			
AEO2017																							0.7	2.8	-6.6	-10.2	-10.3	-10.2			
AEO2018																								-1.5	-6.3	-6.4	-4.7	-3.7			
AEO2019																										-2.4	-4.5	-0.7	0.6		
AEO2020																											0.0	2.0	5.4		
AEO2021																												0.9	-4.3		
AEO2022																														-0.1	
Average absolute percentage difference	4.4	3.4	6.0	5.3	4.0	3.1	3.2	4.2	2.9	3.2	6.9	7.7	10.3	12.6	8.0	8.5	10.8	8.8	10.1	9.3	9.5	9.7	9.2	9.1	9.7	10.7	11.2	10.5	10.7		

Data source: Historical data are from the U.S. Energy Information Administration open data API (accessed April 2022), <http://www.eia.gov/opendata/>, series: TOTALNGTCPUS.A; projections: Annual Energy Outlook, Reference case projections from various editions

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