

Table 10. Natural gas production, projected vs. actual

Projected (trillion cubic feet)	Projected vs. actual																											
	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			
AEO 1994	17.71	17.68		18.12	18.25	18.43	18.58	18.93	19.28	19.51	19.80	19.92	20.13	20.18	20.38	20.35	20.16	20.19										
AEO 1995		18.28	17.84	17.92	18.21	18.63	18.92	19.08	19.20	19.36	19.52	19.75	19.94	20.17	20.28	20.60	20.59	20.88										
AEO 1996			18.90	19.15	19.52	19.59	19.59	19.65	19.73	19.97	20.36	20.82	21.25	21.37	21.68	22.11	22.47	22.83	23.36	23.81	24.11	24.65	24.97					
AEO 1997				19.10	19.70	20.17	20.32	20.54	20.77	21.26	21.90	22.31	22.66	22.93	23.38	23.68	23.99	24.25	24.65	25.03	25.37	25.99	26.10					
AEO 1998					18.85	19.06	20.35	20.27	20.60	20.94	21.44	21.81	22.25	22.65	23.18	23.75	24.23	24.70	24.97	25.34	25.70	25.85	26.12	26.30	26.82			
AEO 1999						18.80	19.13	19.28	19.82	20.23	20.77	21.05	21.57	21.98	22.47	22.85	23.26	23.77	24.15	24.69	25.02	25.64	26.11	26.44	26.77			
AEO 2000							18.36	18.89	18.47	18.50	18.88	19.15	19.70	20.27	20.90	21.42	21.74	22.46	22.92	23.35	23.82	24.38	25.03	25.31	25.66			
AEO 2001								18.61	18.89	19.67	20.28	20.65	20.81	21.11	21.34	21.81	22.36	23.14	23.60	24.19	24.81	25.47	26.24	26.89	27.49			
AEO 2002									19.28	19.54	20.20	20.52	20.73	21.25	21.70	22.29	22.80	23.48	24.21	24.75	25.26	25.78	26.32	26.81	27.27			
AEO 2003										19.37	19.99	20.15	20.14	20.43	20.51	21.09	21.46	21.88	22.39	22.91	23.22	23.57	23.83	23.89	23.93			
AEO 2004											19.57	19.51	19.58	19.66	19.95	20.21	20.25	20.50	20.80	21.11	21.30	21.43	21.62	21.58	21.99			
AEO 2005												18.91	19.27	19.24	19.49	19.90	20.44	20.42	20.91	21.17	21.07	21.16	20.77	20.85	21.63			
AEO 2006													18.14	18.16	18.00	18.38	18.47	18.58	18.92	19.13	19.59	19.71	20.36	21.04	21.30			
AEO 2007														18.57	19.12	19.41	19.41	19.35	19.22	19.45	19.30	19.66	19.60	19.61	19.74			
AEO 2008															19.00	19.18	19.28	19.29	19.26	19.40	19.41	19.39	19.52	19.64	19.62			
AEO 2009																20.48	20.61	20.02	19.81	19.59	19.45	19.22	19.10	19.05	19.11			
AEO 2010																	20.60	20.01	19.46	19.28	18.90	18.91	19.29	19.30	19.42			
AEO 2011																		21.28	21.06	21.27	21.73	22.02	22.43	22.47	22.65			
AEO 2012																				22.95	23.66	22.76	23.14	23.65	24.00	24.23		
AEO 2013																					23.91	24.00	23.85	24.03	25.13	25.40		
AEO 2014																						24.19	24.28	24.63	25.68	26.38		
AEO 2015																								25.57	26.43	27.30	27.18	
AEO 2016																									27.24	27.44	28.19	
AEO 2017																										26.53	27.85	
AEO 2018																											27.10	
Actual	18.10	18.82	18.60	18.85	18.90	19.02	18.83	19.18	19.62	18.93	19.10	18.59	18.05	18.50	19.27	20.16	20.62	21.32	22.90	24.03	24.21	25.73	27.10	26.66	26.85			
Average absolute difference	0.39	0.84	0.56	0.55	0.56	0.49	0.70	0.53	0.60	0.99	1.19	1.79	2.42	2.12	1.72	1.41	1.36	1.59	1.88	2.12	2.17	2.79	3.62	3.08	2.96			

Table 10. Natural gas production, projected vs. actual (continued)

Projected vs. actual (percent difference)	Projected vs. actual																										
	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		
AEO 1994		-2.1	-6.1	-4.1	-3.9	-3.5	-3.1	-1.3	-1.3	-1.7	3.1	3.7	7.1	11.5	9.1	5.8	0.9	-2.2	-5.3								
AEO 1995			-2.9	-3.3	-5.0	-3.7	-2.1	0.5	-0.5	-2.1	2.3	2.2	6.2	10.5	9.0	5.3	2.2	-0.2	-2.0								
AEO 1996				1.6	1.6	3.3	3.0	4.0	2.4	0.6	5.5	6.6	12.0	17.7	15.5	12.5	9.7	9.0	7.1	2.0	-0.9	-0.4	-4.2	-7.8			
AEO 1997					1.3	4.2	6.0	7.9	7.1	5.9	12.3	14.7	20.0	25.5	23.9	21.4	17.5	16.3	13.8	7.6	4.1	4.8	1.0	-3.7			
AEO 1998						-0.3	0.2	8.1	5.7	5.0	10.7	12.3	17.3	23.3	22.4	20.3	17.8	17.5	15.9	9.0	5.4	6.2	0.5	-3.6	-1.4	-0.1	
AEO 1999							-1.2	1.6	0.5	1.0	6.9	8.7	13.2	19.5	18.8	16.6	13.4	12.8	11.5	5.5	2.7	3.4	-0.4	-3.6	-0.8	-0.3	
AEO 2000								-2.5	-1.5	-5.9	-2.2	-1.1	3.0	9.1	9.5	8.5	6.3	5.4	0.1	-2.8	-1.6	-5.3	-7.6	-5.1	-4.4		
AEO 2001									-3.0	-3.7	3.9	6.2	11.1	15.3	14.1	10.8	8.2	8.4	8.6	3.0	0.7	2.5	-1.0	-3.2	0.8	2.4	
AEO 2002										-1.7	3.2	5.7	10.4	14.8	14.9	12.6	10.6	10.6	10.2	5.7	3.0	4.4	0.2	-2.9	0.5	1.5	
AEO 2003											2.3	4.7	8.4	11.6	10.4	6.5	4.6	4.1	2.6	-2.2	-4.7	-4.1	-8.4	-12.1	-10.4	-10.9	
AEO 2004												2.4	4.9	8.5	6.3	3.6	0.3	-1.8	-3.8	-9.2	-12.1	-12.0	-16.7	-20.2	-19.1	-18.1	
AEO 2005												1.7	6.8	4.0	1.2	-1.3	-0.9	-4.2	-8.7	-11.9	-12.9	-17.8	-23.3	-21.8	-19.5		
AEO 2006													0.5	-1.9	-6.6	-8.8	-10.4	-12.8	-17.4	-20.4	-19.1	-23.4	-24.8	-21.1	-20.7		
AEO 2007														0.4	-0.7	-3.7	-5.9	-9.2	-16.1	-19.1	-20.3	-23.6	-27.7	-26.5	-26.5		
AEO 2008															-1.4	-4.9	-6.5	-9.5	-15.9	-19.3	-19.8	-24.6	-28.0	-26.3	-26.9		
AEO 2009																1.6	-0.1	-6.1	-13.5	-18.5	-19.7	-25.3	-28.5	-28.6	-28.8		
AEO 2010																		-0.1	-6.1	-15.0	-19.8	-21.9	-26.5	-28.8	-27.6	-27.7	
AEO 2011																			-0.2	-8.1	-11.5	-10.2	-14.4	-17.2	-15.7	-15.7	
AEO 2012																				0.2	-1.6	-6.0	-10.1	-12.7	-10.0	-9.8	
AEO 2013																					-0.5	-0.8	-7.3	-11.3	-5.7	-5.4	
AEO 2014																						-0.1	-5.6	-9.1	-3.7	-1.8	
AEO 2015																							-0.6	-2.5	2.4	1.2	
AEO 2016																								0.5	2.9	5.0	
AEO 2017																										-0.5	3.7
AEO 2018																											0.9
difference	2.1	4.5	3.0	2.9	3.0	2.6	3.7	2.8	3.1	5.2	6.2	9.6	13.4	11.4	8.9	7.0	6.6	7.5	8.2	8.8	8.9	10.8	13.3	11.5	11.0		

Sources: Projections: *Annual Energy Outlook*, Reference case projections, various editions.

Historical data: U.S. Energy Information Administration open data API (<http://www.eia.gov/opendata/>) (Washington, DC). Retrieved July 18, 2018. Series: TOTALNGRPUS.A. Shading indicates overestimation (blue) or underestimation (green).