

Table 8. Natural Gas Production, Actual vs. Forecasts

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
(trillion cubic feet)																	
AEO82	14.74	14.26	14.33	14.89	15.39	15.88											
AEO83	16.48	16.27	16.20	16.31	16.27	16.29											14.89
AEO84	17.48	17.10	17.44	17.58	17.52	17.32											16.39
AEO85	16.95	17.08	17.11	17.29	17.40	17.33	17.32	17.27	17.05	16.80	16.50						
AEO86		16.30	16.27	17.15	16.68	16.90	16.97	16.87	16.93	16.86	16.62	16.40	16.33	16.57	16.23	16.12	
AEO87			16.21	16.09	16.38	16.32	16.30	16.30	16.44	16.62	16.81						17.39
AEO89				16.71	16.71	16.94	17.01	16.83	17.09	17.35	17.54	17.67	17.98	18.20	18.25	18.49	
AEO90					16.91	17.25					18.84						20.58
AEO91						17.40	17.48	18.11	18.22	18.15	18.22	18.39	18.82	19.03	19.28	19.62	19.89
AEO92							17.43	17.69	17.95	18.00	18.29	18.27	18.51	18.75	18.97	19.19	19.48
AEO93								18.47	18.05	18.16	18.45	18.90	19.07	19.30	19.60	19.86	20.07
AEO94									17.71	17.68	17.84	18.12	18.25	18.43	18.58	18.93	19.28
AEO95										18.28	17.98	17.92	18.21	18.63	18.92	19.08	19.20
AEO96											18.90	19.15	19.52	19.59	19.59	19.65	19.73
AEO97												19.10	19.70	20.17	20.32	20.54	20.77
AEO98													18.85	19.06	20.35	20.27	20.60
AEO99														18.80	19.13	19.28	19.82
AEO2000															18.36	18.89	18.47
AEO2001																18.61	18.89
AEO2002																	19.28
AEO2003																	
Actual	16.45	16.06	16.62	17.10	17.31	17.81	17.70	17.84	18.10	18.82	18.60	18.85	18.90	19.02	18.83	19.18	19.7
Average Absolute Error (Across AEOs)	0.82	0.86	0.80	0.73	0.73	0.96	0.61	0.73	0.70	1.28	1.20	0.77	0.69	0.62	0.78	0.70	0.52
(percent error)																	
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
AEO82	-10.4	-11.2	-13.8	-12.9	-11.1	-10.8											
AEO83	0.2	1.3	-2.5	-4.6	-6.0	-8.5											-19.9
AEO84	6.3	6.5	4.9	2.8	1.2	-2.7											-11.9
AEO85	3.0	6.4	2.9	1.1	0.5	-2.7	-2.1	-3.2	-5.8	-10.7	-11.3						
AEO86		1.5	-2.1	0.3	-3.6	-5.1	-4.1	-5.4	-6.4	-10.4	-10.6	-13.0	-13.6	-12.9	-13.8	-16.0	
AEO87			-2.5	-5.9	-5.4	-8.4	-7.9	-8.6	-9.1	-11.7	-9.6						-9.3
AEO89				-2.3	-3.5	-4.9	-3.9	-5.7	-5.6	-7.8	-5.7	-6.3	-4.9	-4.3	-3.1	-3.6	
AEO90					-2.3	-3.1					1.3						7.3
AEO91						-2.3	-1.2	1.5	0.7	-3.6	-2.0	-2.5	-0.4	0.0	2.4	2.3	1.1
AEO92							-1.5	-0.8	-0.8	-4.4	-1.7	-3.1	-2.1	-1.4	0.7	0.0	-1.0
AEO93								3.5	-0.3	-3.5	-0.8	0.2	0.9	1.5	4.1	3.5	2.0
AEO94									-2.1	-6.1	-4.1	-3.9	-3.5	-3.1	-1.3	-1.3	-2.0
AEO95										-2.9	-3.3	-5.0	-3.7	-2.1	0.5	-0.5	-2.4
AEO96											1.6	1.6	3.3	3.0	4.0	2.4	0.3
AEO97												1.3	4.2	6.0	7.9	7.1	5.6
AEO98													-0.3	0.2	8.1	5.7	4.7
AEO99														-1.2	1.6	0.5	0.7
AEO2000															-2.5	-1.5	-6.1
AEO2001															-3.0	-4.0	
AEO2002																-2.0	
AEO2003																	
Average Absolute Percent Error (Across AEOs)	5.0	5.4	4.8	4.3	4.2	5.4	3.5	4.1	3.8	6.8	6.5	4.1	3.7	3.2	4.2	3.7	2.7

Table 8. Natural Gas Production, Actual vs. Forecasts

2002

AEO82	
AEO83	
AEO84	
AEO85	
AEO86	
AEO87	
AEO89	
AEO90	
AEO91	20.13
AEO92	19.78
AEO93	20.35
AEO94	19.51
AEO95	19.36
AEO96	19.97
AEO97	21.26
AEO98	20.94
AEO99	20.23
AEO2000	18.50
AEO2001	19.67
AEO2002	19.54
AEO2003	19.37

Actual	19.0
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Average Absolute Error (Across AEOs)	0.93
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2002

AEO82	
AEO83	
AEO84	
AEO85	
AEO86	
AEO87	
AEO89	
AEO90	
AEO91	5.7
AEO92	3.8
AEO93	6.8
AEO94	2.4
AEO95	1.6
AEO96	4.8
AEO97	11.6
AEO98	9.9
AEO99	6.2
AEO2000	-2.9
AEO2001	3.2
AEO2002	2.6
AEO2003	1.7

Average Absolute Percent Error (Across AEOs)	4.9
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Table 8. Natural Gas Production, Actual vs. Forecasts

Absolute Forecasting Errors as Compared to Actual Historical Figures																	
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
AEO82	1.71	1.80	2.29	2.21	1.92	1.93											
AEO83	0.03	0.21	0.42	0.79	1.04	1.52											
AEO84	1.03	1.04	0.82	0.48	0.21	0.49											
AEO85	0.50	1.02	0.49	0.19	0.09	0.48	0.38	0.57	1.05	2.02	2.10						
AEO86		0.24	0.35	0.05	0.63	0.91	0.73	0.97	1.17	1.96	1.98	2.45	2.57	2.45	2.60	3.06	
AEO87			0.41	1.01	0.93	1.49	1.40	1.54	1.66	2.20	1.79						
AEO89				0.39	0.60	0.87	0.69	1.01	1.01	1.47	1.06	1.18	0.92	0.82	0.58	0.69	
AEO90					0.40	0.56						0.24					
AEO91						0.41	0.22	0.27	0.12	0.67	0.38	0.46	0.08	0.01	0.45	0.44	0.21
AEO92							0.27	0.15	0.15	0.82	0.31	0.58	0.39	0.27	0.14	0.01	0.20
AEO93								0.63	0.05	0.66	0.15	0.05	0.17	0.28	0.77	0.68	0.39
AEO94									0.39	1.14	0.76	0.73	0.65	0.59	0.25	0.25	0.40
AEO95										0.54	0.62	0.93	0.69	0.39	0.09	0.10	0.48
AEO96											0.30	0.30	0.62	0.57	0.76	0.47	0.05
AEO97												0.25	0.80	1.15	1.49	1.36	1.09
AEO98													0.05	0.04	1.52	1.09	0.92
AEO99													0.22	0.30	0.10	0.14	
AEO2000														0.47	0.29	1.21	
AEO2001															0.57	0.79	
AEO2002																0.39	
AEO2003																	
Actual																	
Average Absolute Error (Across AEOs)																	
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
(absolute percent error)																	
AEO82	10.4	11.2	13.8	12.9	11.1	10.8											
AEO83	0.2	1.3	2.5	4.6	6.0	8.5											
AEO84	6.3	6.5	4.9	2.8	1.2	2.7											
AEO85	3.0	6.4	2.9	1.1	0.5	2.7	2.1	3.2	5.8	10.7	11.3						
AEO86		1.5	2.1	0.3	3.6	5.1	4.1	5.4	6.4	10.4	10.6	13.0	13.6	12.9	13.8	16.0	
AEO87			2.5	5.9	5.4	8.4	7.9	8.6	9.1	11.7	9.6						
AEO89				2.3	3.5	4.9	3.9	5.7	5.6	7.8	5.7	6.3	4.9	4.3	3.1	3.6	
AEO90					2.3	3.1						1.3					
AEO91						2.3	1.2	1.5	0.7	3.6	2.0	2.5	0.4	0.0	2.4	2.3	1.1
AEO92							1.5	0.8	0.8	4.4	1.7	3.1	2.1	1.4	0.7	0.0	1.0
AEO93								3.5	0.3	3.5	0.8	0.2	0.9	1.5	4.1	3.5	2.0
AEO94									2.1	6.1	4.1	3.9	3.5	3.1	1.3	1.3	2.0
AEO95										2.9	3.3	5.0	3.7	2.1	0.5	0.5	2.4
AEO96											1.6	1.6	3.3	3.0	4.0	2.4	0.3
AEO97												1.3	4.2	6.0	7.9	7.1	5.6
AEO98													0.3	0.2	8.1	5.7	4.7
AEO99														1.2	1.6	0.5	0.7
AEO2000															2.5	1.5	6.1
AEO2001																3.0	4.0
AEO2002																	2.0
AEO2003																	
Average Absolute Percent Error (Across AEOs)																	

Table 8. Natural Gas Production, Actual vs. Forecasts

	2002	Average Absolute Error (Across Years)
AEO82	1.98	
AEO83	1.10	
AEO84	0.90	
AEO85	0.81	
AEO86	1.48	
AEO87	1.38	
AEO89	0.87	
AEO90	0.40	
AEO91	1.08	0.37
AEO92	0.73	0.33
AEO93	1.30	0.47
AEO94	0.46	0.56
AEO95	0.31	0.46
AEO96	0.92	0.50
AEO97	2.21	1.19
AEO98	1.89	0.92
AEO99	1.18	0.39
AEO2000	0.55	0.63
AEO2001	0.62	0.66
AEO2002	0.49	0.44
AEO2003	0.32	0.32

Actual

	Average Absolute Error (Across AEOs)
	0.81

2002 Average
Absolute

AEO82	11.7
AEO83	6.2
AEO84	5.2
AEO85	4.5
AEO86	7.9
AEO87	7.7
AEO89	4.7
AEO90	2.3
AEO91	5.7
AEO92	3.8
AEO93	6.8
AEO94	2.4
AEO95	1.6
AEO96	4.8
AEO97	11.6
AEO98	9.9
AEO99	6.2
AEO2000	2.9
AEO2001	3.2
AEO2002	2.6
AEO2003	1.7

	Average Absolute Percent Error (Across AEOs)
	4.4