

Table 18. Total Energy Consumption, Actual vs. Forecasts

	(Quadrillion Btu/Billion nominal dollars)																			
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
AEO82	20.1	18.5	16.9	15.5	14.4	13.2														
AEO83	19.9	18.6	17.4	16.2	15.1	14.0														
AEO84	20.1	18.9	17.7	16.5	15.5	14.5														
AEO85	20.0	19.1	18.0	16.9	15.9	14.7	13.7	12.7	11.8	11.1	10.3									
AEO86		18.3	17.8	16.8	16.1	15.2	14.3	13.5	12.6	11.8	11.0	10.3	9.6	8.8	8.2	7.7				
AEO87			17.6	17.0	16.3	15.4	14.5	13.8	13.0	12.2	11.5							8.2		
AEO89				16.9	16.2	15.2	14.2	13.3	12.5	11.7	11.0	10.4	9.7	9.0	8.4	8.0				
AEO90					16.1	15.4					11.7								8.6	
AEO91						15.5	14.9	14.2	13.6	13.0	12.5	11.9	11.3	10.8	10.3	9.7	9.2	8.7		
AEO92							15.0	14.5	13.9	13.3	12.7	12.1	11.6	11.0	10.5	10.0	9.5	9.0		
AEO93								14.7	13.9	13.4	12.8	12.3	11.8	11.2	10.7	10.2	9.6	9.2		
AEO94									14.1	13.5	13.1	12.6	12.1	11.6	11.1	10.6	10.2	9.8		
AEO95										13.2	12.7	12.2	11.7	11.3	10.8	10.4	9.9	9.5		
AEO96											12.8	12.4	11.9	11.5	11.0	10.5	10.1	9.6		
AEO97												12.2	11.9	11.5	11.1	10.7	10.3	10.0		
AEO98													11.7	11.5	11.2	10.8	10.5	10.1		
AEO99														11.2	11.1	10.8	10.5	10.2		
AEO2000															10.8	10.6	10.3	10.0		
AEO2001																9.8	9.4	9.2		
AEO2002																	9.6	9.5		
AEO2003																		9.3		
Actual	18.1	17.2	16.7	16.2	15.5	14.6	14.1	13.6	13.2	12.7	12.3	12.1	11.4	10.8	10.4	10.1	9.6	9.3		
Average Absolute Error (Across AEOs)	1.9	1.5	0.9	0.6	0.6	0.7	0.5	0.6	0.7	0.8	1.1	0.6	0.7	0.7	0.7	0.8	0.5	0.4		
(percent error)																				
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002		
AEO82	10.7	7.3	1.2	-4.1	-7.2	-9.1														
AEO83	9.7	8.2	4.4	0.0	-2.4	-4.1														
AEO84	10.6	10.0	6.0	1.9	0.1	-0.8														
AEO85	10.2	11.1	7.8	4.6	2.5	1.0	-3.2	-6.4	-10.2	-12.5	-16.1									
AEO86		6.3	6.5	3.9	3.9	4.1	1.3	-1.0	-4.4	-6.8	-10.9	-14.5	-15.9	-18.7	-21.0	-23.3				
AEO87			5.5	5.0	5.1	5.4	2.9	1.4	-1.7	-3.6	-7.1									
AEO89				4.4	4.4	4.0	0.6	-1.9	-5.2	-7.4	-10.7	-14.0	-14.6	-17.0	-19.1	-20.7				
AEO90					3.9	5.6					-5.4									
AEO91						6.1	5.6	4.2	3.1	3.1	1.1	-1.5	-0.4	-0.4	-1.8	-3.4	-3.5	-6.2		
AEO92							6.2	6.9	5.1	5.0	3.2	0.7	1.9	2.0	0.7	-0.8	-0.7	-3.3		
AEO93								7.8	5.6	5.7	4.2	1.9	3.3	3.3	2.3	0.9	1.0	-1.7		
AEO94									6.6	6.9	6.0	4.2	6.0	7.1	6.5	5.8	6.7	4.7		
AEO95										4.3	3.0	1.2	3.0	4.1	3.7	2.9	3.8	1.7		
AEO96											4.2	2.9	4.8	5.8	5.4	4.5	5.3	3.4		
AEO97												1.3	4.3	6.2	6.3	5.8	8.2	7.2		
AEO98													3.2	5.8	7.0	7.2	9.4	8.3		
AEO99														3.0	5.9	7.4	10.0	9.0		
AEO2000															3.2	5.2	7.6	7.5		
AEO2001																-2.8	-1.2	-1.7		
AEO2002																	0.9	2.1		
AEO2003																		-0.1		
Average Absolute Percent Error (Across AEOs)	10.3	8.6	5.2	3.4	3.7	4.5	3.3	4.2	5.2	6.1	8.5	4.7	5.7	6.7	6.9	8.3	4.8	4.4		

Table 18. Total Energy Consumption, 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	2002	Average Absolute Error (Across Years)
AEO82	1.9	1.3	0.2	0.7	1.1	1.3													1.1
AEO83	1.8	1.4	0.7	0.0	0.4	0.6													1.1
AEO84	1.9	1.7	1.0	0.3	0.0	0.1													1.0
AEO85	1.8	1.9	1.3	0.7	0.4	0.2	0.4	0.9	1.3	1.6	2.0								1.1
AEO86		1.1	1.1	0.6	0.6	0.6	0.2	0.1	0.6	0.9	1.3	1.7	1.8	2.0	2.2	2.3		1.1	
AEO87			0.9	0.8	0.8	0.8	0.4	0.2	0.2	0.5	0.9							0.7	
AEO89				0.7	0.7	0.6	0.1	0.3	0.7	0.9	1.3	1.7	1.7	1.8	2.0	2.1		1.1	
AEO90					0.6	0.8					0.7							0.9	
AEO91						0.9	0.8	0.6	0.4	0.4	0.1	0.2	0.1	0.0	0.2	0.3	0.3	0.4	
AEO92							0.9	0.9	0.7	0.6	0.4	0.1	0.2	0.2	0.1	0.1	0.1	0.3	
AEO93								1.1	0.7	0.7	0.5	0.2	0.4	0.4	0.2	0.1	0.1	0.2	
AEO94									0.9	0.9	0.7	0.5	0.7	0.8	0.7	0.6	0.6	0.4	
AEO95										0.5	0.4	0.1	0.3	0.4	0.4	0.3	0.4	0.2	
AEO96											0.5	0.3	0.5	0.6	0.6	0.5	0.5	0.3	
AEO97												0.2	0.5	0.7	0.7	0.6	0.8	0.7	
AEO98													0.4	0.6	0.7	0.7	0.9	0.8	
AEO99														0.3	0.6	0.7	1.0	0.8	
AEO2000															0.3	0.5	0.7	0.6	
AEO2001															0.3	0.1	0.2	0.2	
AEO2002																0.1	0.2	0.1	
AEO2003																	0.0	0.0	

Actual

Average
Absolute
Error (Acro:

(absolute percent error)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	Average Absolute Percent Error (Across Years)
AEO82	10.7	7.3	1.2	4.1	7.2	9.1													6.6
AEO83	9.7	8.2	4.4	0.0	2.4	4.1													7.3
AEO84	10.6	10.0	6.0	1.9	0.1	0.8													6.6
AEO85	10.2	11.1	7.8	4.6	2.5	1.0	3.2	6.4	10.2	12.5	16.1								7.8
AEO86		6.3	6.5	3.9	3.9	4.1	1.3	1.0	4.4	6.8	10.9	14.5	15.9	18.7	21.0	23.3		9.5	
AEO87			5.5	5.0	5.1	5.4	2.9	1.4	1.7	3.6	7.1							5.6	
AEO89			4.4	4.4	4.0	0.6	1.9	5.2	7.4	10.7	14.0	14.6	17.0	19.1	20.7			9.5	
AEO90			3.9	5.6							5.4							7.4	
AEO91				6.1	5.6	4.2	3.1	3.1	1.1	1.5	0.4	0.4	1.8	3.4	3.5	6.2		3.1	
AEO92					6.2	6.9	5.1	5.0	3.2	0.7	1.9	2.0	0.7	0.8	0.7	3.3		3.0	
AEO93						7.8	5.6	5.7	4.2	1.9	3.3	3.3	2.3	0.9	1.0	1.7		3.4	
AEO94						6.6	6.9	6.0	4.2	6.0	7.1	6.5	5.8	6.7	4.7			6.0	
AEO95							4.3	3.0	1.2	3.0	4.1	3.7	2.9	3.8	1.7			3.1	
AEO96								4.2	2.9	4.8	5.8	5.4	4.5	5.3	3.4			4.5	
AEO97									1.3	4.3	6.2	6.3	5.8	8.2	7.2			5.6	
AEO98										3.2	5.8	7.0	7.2	9.4	8.3			6.8	
AEO99											3.0	5.9	7.4	10.0	9.0				7.1
AEO2000												3.2	5.2	7.6	7.5				5.9
AEO2001													2.8	1.2	1.7			1.9	
AEO2002														0.9	2.1			1.5	
AEO2003															0.1	0.1		0.1	

Average
Absolute
Percent Err