

Table 21. Total Transportation Energy Consumption, Projected vs. Actual

(quadrillion Btu)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
AEO 1982	18.6	18.2	17.7	17.3	17.0	16.9																		
AEO 1983	19.8	20.1	20.4	20.4	20.5	20.5					20.7													
AEO 1984	19.2	19.0	19.0	19.0	19.1	19.2					20.1													
AEO 1985	20.0	19.8	20.0	20.0	20.0	20.1					20.3													
AEO 1986		20.5	20.8	20.8	20.6	20.7					20.3					21.0								
AEO 1987			21.3	21.5	21.6	21.7	21.8	22.0	22.0	22.0	21.9					22.3								
AEO 1989*				21.8	22.2	22.4	22.4	22.5	22.5	22.5	22.5	22.6	22.7	22.8	23.0	23.2								
AEO 1990					22.0	22.4					23.2					24.3					25.5			
AEO 1991						22.1	21.6	21.9	22.1	22.3	22.5	22.8	23.1	23.4	23.8	24.1	24.5	24.8	25.1	25.4	25.7	26.0	26.3	26.6
AEO 1992							21.7	22.0	22.5	22.9	23.2	23.4	23.6	23.9	24.1	24.4	24.8	25.1	25.4	25.7	26.0	26.3	26.6	26.9
AEO 1993								22.5	22.8	23.4	23.9	24.3	24.7	25.1	25.4	25.7	26.1	26.5	26.8	27.2	27.6	27.9	28.1	28.4
AEO 1994									23.6	24.1	24.5	24.7	25.1	25.4	25.7	26.2	26.5	26.9	27.2	27.6	27.9	28.3	28.6	28.9
AEO 1995										23.3	24.0	24.2	24.7	25.1	25.5	25.9	26.2	26.5	26.9	27.3	27.7	28.0	28.3	28.5
AEO 1996											23.9	24.1	24.5	24.8	25.3	25.7	26.0	26.4	26.7	27.1	27.5	27.8	28.1	28.4
AEO 1997												24.7	25.3	25.9	26.4	27.0	27.5	28.0	28.5	28.9	29.4	29.8	30.3	30.6
AEO 1998													25.3	25.9	26.7	27.1	27.7	28.3	28.8	29.4	30.0	30.6	31.2	31.7
AEO 1999														25.4	26.0	27.0	27.6	28.2	28.8	29.4	30.0	30.6	31.2	31.7
AEO 2000															26.2	27.4	28.0	28.5	29.1	29.7	30.3	30.9	31.4	31.8
AEO 2001																26.8	27.5	28.3	28.8	29.4	30.0	30.6	31.2	31.8
AEO 2002																	27.5	28.0	28.9	29.5	30.2	30.7	31.3	32.0
AEO 2003																		27.2	27.7	28.3	28.9	29.7	30.5	31.4
AEO 2004																			27.2	28.1	28.9	29.6	30.2	30.9
AEO 2005																				27.8	28.4	29.0	29.7	30.4
AEO 2006																					28.1	28.4	29.0	29.5
AEO 2007																						28.4	28.7	29.0
AEO 2008																							28.5	28.5
AEO 2009																								27.9
Actual	20.1	20.8	21.4	22.3	22.4	22.4	22.1	22.4	22.7	23.3	23.8	24.4	24.7	25.2	25.9	26.5	26.2	26.8	27.0	27.8	28.3	28.8	29.1	27.9
Average Absolute Difference (All AEOs)	0.7	1.2	1.6	2.2	2.1	1.7	0.4	0.3	0.5	0.6	1.6	0.7	0.7	0.8	0.9	1.7	1.0	0.9	1.0	1.1	1.2	1.2	1.3	2.1

Table 21. Total Transportation Energy Consumption, Projected vs. Actual

(percent difference)	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
AEO 1982	-7.2	-12.4	-17.4	-22.5	-24.1	-24.3																		
AEO 1983	-1.5	-3.1	-4.9	-8.3	-8.9	-8.6					-13.1													
AEO 1984	-4.4	-8.6	-11.5	-14.7	-14.9	-14.0					-15.7													
AEO 1985	-0.3	-4.8	-6.8	-10.2	-10.7	-10.4					-14.7													
AEO 1986		-1.2	-3.0	-6.7	-8.0	-7.5					-14.6					-20.9								
AEO 1987			-0.9	-3.6	-3.8	-3.1	-1.2	-1.9	-3.0	-5.6	-7.9					-15.9								
AEO 1989*				-2.1	-0.9	0.0	1.4	0.4	-1.2	-3.7	-5.5	-7.4	-8.4	-9.7	-11.4	-12.5								
AEO 1990					-1.9	-0.1					-2.4					-8.3					-9.9			
AEO 1991						-1.4	-2.2	-2.1	-2.7	-4.5	-5.5	-6.6	-6.4	-7.1	-8.3	-9.2	-6.7	-7.4	-6.8	-8.9	-9.3	-9.7	-9.6	-4.6
AEO 1992							-1.6	-1.9	-1.1	-1.9	-2.5	-4.1	-4.5	-5.4	-7.0	-8.0	-5.5	-6.3	-5.7	-7.7	-8.1	-8.5	-8.5	-3.6
AEO 1993								0.5	0.1	0.1	0.4	-0.5	-0.2	-0.5	-1.9	-2.9	-0.4	-1.3	-0.5	-2.3	-2.6	-3.1	-3.3	1.9
AEO 1994									3.9	3.2	2.7	1.3	1.4	0.6	-0.7	-1.3	1.0	0.2	1.0	-1.1	-1.4	-1.8	-1.6	3.8
AEO 1995										-0.3	0.8	-0.9	-0.1	-0.4	-1.6	-2.5	-0.3	-1.1	-0.3	-2.0	-2.3	-2.8	-2.8	2.3
AEO 1996											0.4	-1.3	-1.0	-1.5	-2.5	-3.2	-0.7	-1.6	-0.8	-2.8	-2.9	-3.4	-3.3	1.9
AEO 1997												1.2	-1.0	-1.5	-2.5	-3.2	-0.7	-1.6	-0.8	-2.8	-2.9	-3.4	-3.3	1.9
AEO 1998													2.6	2.5	2.9	2.4	5.7	5.6	7.0	5.6	5.9	6.3	7.2	13.8
AEO 1999														0.8	0.2	1.9	5.3	5.3	6.9	5.4	5.9	6.2	7.2	13.8
AEO 2000															1.3	1.2	4.4	4.3	5.7	4.6	5.0	5.3	6.2	12.8
AEO 2001																1.2	5.0	5.4	6.9	5.6	6.0	6.4	7.3	14.0
AEO 2002																	4.8	4.6	7.3	6.1	6.6	6.8	7.8	15.0
AEO 2003																		1.3	3.0	1.6	2.2	3.2	5.0	12.6
AEO 2004																			0.9	0.8	2.1	2.9	4.0	10.8
AEO 2005																				-0.2	0.4	0.8	2.2	9.3
AEO 2006																					-0.8	-1.3	-0.1	6.0
AEO 2007																						-1.3	-0.1	6.0
AEO 2008																							-1.4	3.9
AEO 2009																								2.2
Average Absolute Percent Difference (All AEOs)	3.3	6.0	7.4	9.7	9.2	7.7	1.1	1.0	1.5	2.2	6.6	2.6	2.5	2.9	3.4	6.3	3.4	3.5	3.8	3.8	4.4	4.3	4.5	7.4

* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.
 Sources: Forecasts: *Annual Energy Outlook*, Mid-Price or Reference Case Projections, Various Editions.
 Historical Data: Energy Information Administration, *Annual Energy Review 2008*, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 2.1e.

Table 22. Total Carbon Dioxide Emissions, Projected vs. Actual

(million metric tons)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
AEO 1982																									
AEO 1983																									
AEO 1984																									
AEO 1985																									
AEO 1986																									
AEO 1987																									
AEO 1989*																									
AEO 1990																									
AEO 1991																									
AEO 1992																									
AEO 1993								5009	5053	5130	5207	5269	5335	5401	5449	5504	5562	5621	5672	5724	5771	5819	5867	5918	
AEO 1994									5060	5130	5185	5240	5287	5335	5379	5438	5482	5529	5599	5658	5694	5738	5797	5874	
AEO 1995										5137	5174	5188	5262	5309	5361	5394	5441	5489	5551	5621	5680	5727	5775	5841	
AEO 1996											5182	5224	5295	5355	5417	5464	5525	5589	5660	5735	5812	5879	5925	5981	
AEO 1997												5295	5381	5491	5586	5658	5715	5781	5863	5934	6009	6106	6184	6236	
AEO 1998													5474	5621	5711	5784	5893	5957	6026	6098	6192	6292	6379	6465	
AEO 1999														5522	5689	5810	5913	5976	6036	6084	6152	6244	6325	6418	
AEO 2000															5573	5692	5777	5865	5971	6078	6172	6262	6345	6420	
AEO 2001																5630	5781	5909	6023	6114	6197	6281	6387	6470	
AEO 2002																	5723	5808	5981	6095	6210	6323	6438	6530	
AEO 2003																		5633	5749	5856	5954	6095	6232	6360	
AEO 2004																			5743	5826	5986	6124	6251	6357	
AEO 2005																				5905	6023	6138	6274	6415	
AEO 2006																					5967	5978	6080	6182	
AEO 2007																						5940	5999	6059	
AEO 2008																							5977	5983	
AEO 2009																								5849	
Actual	4638	4643	4800	5013	5106	5021	4974	5084	5207	5294	5348	5534	5611	5638	5708	5893	5807	5881	5939	6024	6032	5946	6022	5984	
Average Absolute Difference (All AEOs)								75.4	151.1	161.5	161.7	291.0	272.0	204.5	188.2	295.7	164.1	175.5	173.1	175.5	154.0	200.7	216.8	267.4	

Table 22. Total Carbon Dioxide Emissions, Projected vs. Actual

(percent difference)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
AEO 1982																									
AEO 1983																									
AEO 1984																									
AEO 1985																									
AEO 1986																									
AEO 1987																									
AEO 1989*																									
AEO 1990																									
AEO 1991																									
AEO 1992																									
AEO 1993								-1.5	-3.0	-3.1	-2.7	-4.8	-4.9	-4.2	-4.5	-6.6	-4.2	-4.4	-4.5	-5.0	-4.3	-2.1	-2.6	-1.1	
AEO 1994									-2.8	-3.1	-3.1	-5.3	-5.8	-5.4	-5.8	-7.7	-5.6	-6.0	-5.7	-6.1	-5.6	-3.5	-3.7	-1.8	
AEO 1995										-3.0	-3.3	-6.2	-6.2	-5.8	-6.1	-8.5	-6.3	-6.7	-6.5	-6.7	-5.8	-3.7	-4.1	-2.4	
AEO 1996											-3.1	-5.6	-5.6	-5.0	-5.1	-7.3	-4.8	-5.0	-4.7	-4.8	-3.6	-1.1	-1.6	0.0	
AEO 1997											-4.1	-2.6	-2.1	-4.0	-1.6	-1.7	-1.3	-1.5	-0.4			2.7	2.7	4.2	
AEO 1998												-2.4	-0.3	0.0	-1.9	1.5	1.3	1.5	1.2	2.6		5.8	5.9	8.0	
AEO 1999													-2.1	-0.3	-1.4	1.8	1.6	1.6	1.0	2.0		5.0	5.0	7.3	
AEO 2000														-2.4	-3.4	-0.5	-0.3	0.5	0.9	2.3		5.3	5.4	7.3	
AEO 2001																-4.5	-0.5	0.5	1.4	1.5	2.7		5.6	6.1	8.1
AEO 2002																	-1.4	-1.2	0.7	1.2	2.9		6.3	6.9	9.1
AEO 2003																		-4.2	-3.2	-2.8	-1.3		2.5	3.5	6.3
AEO 2004																			-3.3	-3.3	-0.8		3.0	3.8	6.2
AEO 2005																				-2.0	-0.1		3.2	4.2	7.2
AEO 2006																					-1.1		0.5	1.0	3.3
AEO 2007																							-0.1	-0.4	1.3
AEO 2008																								-0.7	0.0
AEO 2009																									-2.3
Average Absolute Percent Difference (All AEOs)								1.5	2.9	3.1	3.0	5.3	4.8	3.6	3.3	5.0	2.8	3.0	2.9	2.9	2.6	3.4	3.6	4.5	

* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.

Sources: Forecasts: *Annual Energy Outlook*, Mid-Price or Reference Case Projections, Various Editions.

Energy Information Administration, *Annual Energy Review 2008*, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 12.1, and 2008 preliminary

Historical Data: estimate from <http://www.eia.doe.gov/iaf/1605/flash/flash.html>.

Table 23. Energy Intensity, Projected vs. Actual

(quadrillion Btu / \$Billion Nominal GDP)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
AEO 1982	20.1	18.5	16.9	15.5	14.4	13.2																			
AEO 1983	19.9	18.7	17.4	16.2	15.1	14.0					9.5														
AEO 1984	20.1	19.0	17.7	16.5	15.5	14.5					10.2														
AEO 1985	20.0	19.1	18.0	16.9	15.9	14.7	13.7	12.7	11.8	11.0	10.3														
AEO 1986		18.3	17.8	16.8	16.1	15.2	14.3	13.4	12.6	11.7	10.9	10.2	9.5	8.9	8.3	7.8									
AEO 1987			17.6	17.0	16.3	15.4	14.5	13.7	12.9	12.1	11.4														
AEO 1989*				16.9	16.2	15.2	14.2	13.3	12.5	11.7	10.9	10.2	9.6	9.0	8.5	8.0									
AEO 1990					16.1	15.4					11.7											6.4			
AEO 1991						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	8.3	7.9	7.4	7.0	6.7	6.3	
AEO 1992							15.0	14.5	13.9	13.3	12.7	12.1	11.6	11.0	10.5	10.0	9.5	9.0	8.6	8.1	7.7	7.3	6.9	6.6	
AEO 1993								14.7	13.9	13.4	12.8	12.3	11.8	11.2	10.7	10.2	9.6	9.2	8.7	8.3	7.8	7.4	7.1	6.7	
AEO 1994									14.1	13.5	13.1	12.6	12.1	11.6	11.1	10.6	10.2	9.8	9.3	9.0	8.6	8.2	7.8	7.5	
AEO 1995										13.2	12.7	12.2	11.7	11.3	10.8	10.4	9.9	9.5	9.0	8.6	8.3	7.9	7.6	7.3	
AEO 1996											12.8	12.4	11.9	11.5	11.0	10.5	10.1	9.6	9.2	8.8	8.4	8.1	7.7	7.4	
AEO 1997												12.2	11.9	11.5	11.1	10.7	10.2	9.9	9.5	9.1	8.7	8.4	8.0	7.7	
AEO 1998													11.7	11.5	11.2	10.8	10.4	10.1	9.7	9.4	9.0	8.7	8.4	8.0	
AEO 1999														11.2	10.8	10.5	10.2	9.8	9.4	9.1	8.8	8.5	8.2	7.9	
AEO 2000															10.8	10.6	10.3	10.0	9.7	9.4	9.1	8.8	8.6	8.3	
AEO 2001																9.8	9.4	9.2	8.9	8.5	8.2	8.0	7.7	7.4	
AEO 2002																	9.6	9.5	9.2	8.9	8.5	8.2	7.9	7.5	
AEO 2003																		9.3	9.0	8.6	8.3	8.1	7.8	7.6	
AEO 2004																			9.0	8.8	8.5	8.2	7.9	7.6	
AEO 2005																				8.5	8.2	8.0	7.7	7.5	
AEO 2006																					8.1	7.7	7.5	7.2	
AEO 2007																						7.6	7.4	7.1	
AEO 2008																							7.3	7.2	
AEO 2009																								7.0	
Actual	18.1	17.2	16.7	16.2	15.5	14.6	14.1	13.6	13.2	12.6	12.3	12.0	11.4	10.9	10.4	10.1	9.5	9.3	9.0	8.6	8.1	7.6	7.4	7.0	
Average Absolute Difference (All AEOs)	1.9	1.5	0.9	0.5	0.6	0.6	0.5	0.6	0.7	0.8	1.1	0.6	0.7	0.7	0.7	0.8	0.5	0.4	0.4	0.4	0.5	0.6	0.5	0.5	

Table 23. Energy Intensity, Projected vs. Actual

(percent difference)

	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	
AEO 1982	10.8	7.5	1.1	-4.2	-7.2	-9.2																			
AEO 1983	9.8	8.4	4.3	-0.1	-2.4	-4.2					-22.9														
AEO 1984	10.7	10.2	5.9	1.8	0.0	-0.9					-17.1														
AEO 1985	10.2	11.3	7.7	4.4	2.5	0.9	-3.1	-6.5	-10.2	-12.7	-16.6														
AEO 1986		6.6	6.4	3.7	3.9	4.0	1.4	-1.0	-4.4	-7.0	-11.4	-15.7	-17.0	-18.6	-20.5	-22.9									
AEO 1987			5.4	4.9	5.1	5.3	3.0	1.4	-1.7	-3.8	-7.6														
AEO 1989*				4.3	4.4	3.9	0.6	-2.0	-5.3	-7.6	-11.2	-15.1	-15.7	-16.9	-18.6	-20.3									
AEO 1990					3.8	5.5					-5.4											-21.1			
AEO 1991						6.0	5.7	4.4	3.3	3.3	1.1	-1.4	-0.7	-0.9	-1.9	-3.5	-3.1	-6.5	-7.6	-8.6	-8.2	-7.1	-9.3	-9.0	
AEO 1992							6.3	7.1	5.3	5.3	3.2	0.8	1.6	1.5	0.6	-0.9	-0.2	-3.5	-4.5	-5.4	-4.8	-3.8	-6.1	-5.9	
AEO 1993								8.0	5.8	6.0	4.2	2.0	3.0	2.9	2.2	0.8	1.4	-2.0	-2.9	-3.8	-3.1	-1.8	-4.1	-3.7	
AEO 1994									6.8	7.1	6.0	4.3	5.8	6.6	6.4	5.6	7.2	4.4	4.2	4.2	5.8	8.0	6.2	7.5	
AEO 1995										4.5	3.0	1.3	2.8	3.7	3.5	2.7	4.2	1.4	1.0	0.7	2.2	4.4	3.2	4.4	
AEO 1996											4.2	3.0	4.6	5.4	5.2	4.3	5.7	3.1	3.1	3.0	4.3	6.4	4.8	6.3	
AEO 1997												1.4	4.0	5.7	6.2	5.7	7.7	5.6	5.9	6.1	8.0	10.4	8.9	10.2	
AEO 1998													2.9	5.3	6.9	7.1	9.9	8.0	8.6	9.1	11.5	14.7	13.8	15.6	
AEO 1999														2.6	5.9	7.2	10.6	8.7	9.4	10.0	12.7	16.0	15.1	17.2	
AEO 2000															3.1	5.1	8.1	7.2	8.5	9.5	12.5	16.5	16.3	19.1	
AEO 2001																-2.9	-0.7	-2.0	-1.1	-0.5	1.8	4.9	4.5	6.6	
AEO 2002																	1.3	1.8	3.0	3.6	5.7	8.4	7.0	7.9	
AEO 2003																		-0.4	0.4	0.5	3.0	6.7	6.6	8.8	
AEO 2004																			0.9	2.2	5.1	8.4	7.7	9.5	
AEO 2005																				-0.9	1.7	5.3	5.0	7.9	
AEO 2006																					-0.4	1.7	1.9	3.5	
AEO 2007																						0.2	0.2	2.2	
AEO 2008																								0.2	2.8
AEO 2009																									1.0
Average Absolute Percent Difference (All AEOs)	10.4	8.8	5.1	3.4	3.7	4.4	3.4	4.3	5.4	6.4	8.7	5.0	5.8	6.4	6.7	8.1	5.0	4.2	4.4	4.5	6.6	7.3	6.7	7.9	

* There is no report titled *Annual Energy Outlook 1988* due to a change in the naming convention of the AEOs.
 Sources: Forecasts: *Annual Energy Outlook*, Mid-Price or Reference Case Projections, Various Editions.
 Energy Information Administration, *Annual Energy Review 2008*, DOE/EIA-0384(2007) (Washington, DC, June 23, 2008), Table 1.3, and Bureau of Economic
 Historical Data: Analysis, US Dept. of Commerce, <http://www.bea.gov/national/xls/gdplev.xls>, June 2008.