

Table 311. Energy Consumption Estimates by Source, Selected Years 1960-1999, Wisconsin

Year	Coal ^a	Natural Gas ^b	Petroleum											Nuclear Electric Power	Hydro-electric Power ^d	Wood and Waste	Net Interstate Flow of Electricity/Losses ^f	Total ^g	
			Asphalt & Road Oil ^a	Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	Kero-sene ^a	LPG ^a	Lubri-cants ^a	Motor Gasoline	Residual Fuel ^a	Other ^{a,c}	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels											Million kWh	Other ^{a,e}	Million kWh			
1960	12,737	91	2,847	427	21,750	245	2,964	4,258	872	33,125	4,394	530	R 71,412	0	2,399	—	—	-185	
1965	14,528	200	2,806	636	23,508	629	1,249	5,246	898	36,295	3,209	R 1,240	R 75,716	0	2,131	—	—	1,343	
1970	16,899	338	4,671	332	25,841	1,603	3,002	7,679	992	45,483	2,936	R 1,539	R 94,078	157	1,904	—	—	-1,922	
1975	12,733	365	3,019	173	26,561	2,206	974	8,448	923	51,548	2,106	R 1,979	R 97,936	10,293	2,037	—	—	-1,338	
1980	15,644	352	3,016	124	22,495	2,397	222	6,036	1,019	49,606	1,772	R 2,051	R 88,738	9,911	2,115	—	—	4,498	
1985	18,034	308	1,690	102	22,605	1,663	234	5,377	927	46,557	402	R 2,371	R 81,929	10,979	2,546	—	—	18,817	
1990	20,097	309	3,685	122	23,051	1,424	48	6,664	1,044	48,989	1,125	R 2,099	R 88,249	11,226	R h 2,020	—	R 12,319	—	
1991	20,659	332	3,332	105	23,013	1,352	49	8,471	934	49,898	851	R 2,828	R 90,832	10,991	R 2,524	—	R 12,804	—	
1992	20,071	332	3,105	121	22,753	1,721	51	7,780	952	50,285	854	R 3,138	R 90,760	11,207	R 2,386	—	R 12,667	—	
1993	20,897	348	3,253	119	24,475	1,912	76	8,626	969	51,634	1,264	R 3,173	R 95,502	11,465	R 2,471	—	R 14,979	—	
1994	21,731	356	3,521	285	26,029	1,975	58	8,957	1,013	53,048	1,287	R 3,188	R 99,361	11,516	R 2,220	—	R 16,207	—	
1995	23,066	380	4,154	374	24,949	2,044	59	8,753	996	55,053	842	R 3,017	R 100,240	10,970	R 2,371	—	R 18,989	—	
1996	24,020	403	4,126	367	25,534	1,530	73	R 11,139	966	56,313	1,037	R 13,418	R 114,503	10,121	R 2,805	—	R 18,041	—	
1997	25,491	401	5,155	486	26,131	1,949	67	R 9,935	1,021	55,696	1,087	R 14,518	R 116,045	3,916	R 3,032	—	R 27,550	—	
1998	24,720	360	6,012	454	25,737	1,864	65	8,461	1,069	58,740	980	14,565	117,946	9,397	2,286	—	—	22,080	—
1999	25,262	374	6,192	134	28,290	3,407	117	11,009	1,080	58,976	1,212	14,755	125,170	11,495	2,238	—	—	14,370	—
Trillion Btu																			
1960	304.7	93.8	18.9	2.2	126.7	1.3	16.8	17.1	5.3	174.0	27.6	3.1	393.0	0.0	25.8	39.2	0.0	-0.6	855.8
1965	347.9	204.1	18.6	3.2	136.9	3.5	7.1	21.0	5.4	190.7	20.2	6.9	R 413.5	0.0	22.3	39.4	0.0	4.6	R 1,031.8
1970	381.6	344.2	31.0	1.7	150.5	9.0	17.0	29.0	6.0	238.9	18.5	8.8	510.5	1.7	20.0	38.3	0.0	-6.6	1,289.8
1975	272.0	372.1	20.0	0.9	154.7	12.5	5.5	31.4	5.6	270.8	13.2	R 11.2	525.8	113.4	21.2	44.9	0.0	-4.6	1,344.8
1980	327.3	354.7	20.0	0.6	131.0	13.5	1.3	22.2	6.2	260.6	11.1	R 11.5	R 478.0	108.1	22.0	R 163.8	0.0	15.3	R 1,469.2
1985	360.7	311.4	11.2	0.5	131.7	9.3	1.3	19.4	5.6	244.6	2.5	R 13.1	439.3	118.7	26.6	R 188.6	(s)	64.2	R 1,509.5
1990	397.1	310.9	24.5	0.6	134.3	8.0	0.3	24.2	6.3	257.3	7.1	11.7	474.2	119.9	R h 21.0	R 101.2	h 0.3	42.0	R 1,466.6
1991	407.9	333.8	22.1	0.5	134.1	7.6	0.3	30.6	5.7	262.1	5.3	R 15.6	R 483.9	118.0	R 26.3	R 87.4	0.3	R 43.7	R 1,501.4
1992	399.2	334.6	20.6	0.6	132.5	9.7	0.3	28.2	5.8	264.1	5.4	17.3	R 484.5	119.7	R 24.7	R 88.0	0.3	R 43.2	R 1,494.2
1993	405.9	351.8	21.6	0.6	142.6	10.8	0.4	31.1	5.9	271.2	7.9	R 17.5	R 509.6	122.5	25.5	R 81.8	0.3	R 51.1	R 1,548.5
1994	426.0	359.9	23.4	1.4	151.6	11.1	0.3	32.6	6.1	R 277.4	8.1	R 17.6	R 529.8	122.9	R 22.9	R 86.3	0.3	R 55.3	R 1,603.4
1995	443.0	384.7	27.6	1.9	145.3	11.6	0.3	31.7	6.0	R 287.1	5.3	R 16.7	R 533.5	116.9	R 24.4	R 96.1	0.3	R 64.8	R 1,663.8
1996	452.8	408.0	27.4	1.9	148.7	8.7	0.4	R 40.2	5.9	R 293.7	6.5	R 72.4	R 605.8	107.5	R 29.0	R 102.9	0.3	R 61.6	R 1,768.5
1997	488.4	405.0	34.2	2.5	152.2	11.1	0.4	R 35.9	6.2	R 290.3	6.8	R 78.8	R 618.4	41.6	R 31.4	R 113.5	0.3	R 94.0	R 1,796.1
1998	470.2	363.9	39.9	2.3	149.9	10.6	0.4	30.6	6.5	306.2	6.2	79.1	631.5	99.8	23.6	65.2	0.4	75.3	1,732.5
1999	471.6	378.5	41.1	0.7	164.8	19.3	0.7	39.8	6.5	307.3	7.6	79.7	667.5	122.1	23.2	96.8	0.4	49.0	1,810.5

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c "Other" is the subtotal of 16 petroleum products consumed in the industrial sector. See a full description in Appendix A, Section 4, "Other Petroleum Products."

^d If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.

^e "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.

^f Net interstate flow of electricity is the difference between the amount of energy in the electricity sold within a State (including associated losses) and the energy input at the electric utilities within the State. A positive number

indicates that more electricity (including associated losses) came into the State than went out of the State during the year; conversely, a negative number indicates that more electricity (including associated losses) went out of the State than came into the State.

^g From 1989, "Total" does not equal the sum of the columns. Net imports of electricity generated from nonrenewable energy sources (shown in appendix Table A8) is included in the total but not in any other columns.

^h There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

kWh=kilowatthours. R=Revised data. —=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 312. Residential Energy Consumption Estimates, Selected Years 1960-1999, Wisconsin

Year	Coal ^a	Natural Gas ^b	Petroleum				Wood	Geothermal	Solar ^c	Electricity ^a	Electrical System Energy Losses ^d	Total
			Distillate Fuel ^a	Kerosene ^a	LPG ^a	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels				Thousand Cords	Million Kilowatthours	Net Energy	Million Kilowatthours		
1960	964	47	11,206	1,227	2,675	15,107	974	—	—	5,298	—	13,178
1965	709	79	11,790	660	3,692	16,142	744	—	—	6,963	—	16,624
1970	453	105	11,721	1,608	5,606	18,935	595	—	—	9,825	—	23,810
1975	202	120	11,019	530	5,405	16,953	587	—	—	11,782	—	28,420
1980	18	123	8,155	124	2,983	11,261	R 1,029	—	—	13,597	—	33,063
1985	9	116	6,423	195	3,045	9,663	1,033	—	—	16,307	—	38,312
1990	2	114	4,634	29	4,187	8,851	734	—	—	16,385	—	R 35,844
1991	4	124	5,128	30	5,241	10,399	773	—	—	17,349	—	R 37,717
1992	2	123	4,753	29	4,950	9,732	813	—	—	16,615	—	R 35,435
1993	13	130	5,132	47	5,575	10,754	R 421	—	—	17,373	—	R 36,695
1994	18	128	4,799	34	5,479	10,311	R 413	—	—	17,660	—	R 36,855
1995	45	136	3,955	34	5,560	9,549	R 458	—	—	18,635	—	R 38,853
1996	37	148	3,922	41	R 7,463	R 11,426	R 457	—	—	18,685	—	R 38,939
1997	57	136	3,431	44	R 6,596	R 10,071	R 275	—	—	18,510	—	R 38,504
1998	45	116	2,759	39	5,926	8,725	243	—	—	19,087	—	39,431
1999	55	128	2,951	61	6,995	10,006	260	—	—	19,502	—	38,210
Trillion Btu												
1960	21.1	49.1	65.3	7.0	10.7	83.0	19.5	0.0	0.0	18.1	190.7	45.0
1965	15.5	80.9	68.7	3.7	14.8	87.2	14.9	0.0	0.0	23.8	222.2	56.7
1970	9.5	107.2	68.3	9.1	21.2	98.6	11.9	0.0	0.0	33.5	260.8	81.2
1975	3.8	122.4	64.2	3.0	20.1	87.3	11.7	0.0	0.0	40.2	265.5	97.0
1980	0.4	124.2	47.5	0.7	11.0	59.2	R 20.6	0.0	0.0	46.4	250.8	112.8
1985	0.2	117.4	37.4	1.1	11.0	49.5	20.7	0.0	0.0	55.6	243.4	130.7
1990	0.1	114.7	27.0	0.2	15.2	42.3	14.7	e 0.1	e 0.2	55.9	e 228.0	122.3
1991	0.1	124.9	29.9	0.2	18.9	49.0	15.5	0.1	0.2	59.2	R 249.0	R 128.7
1992	(s)	124.5	27.7	0.2	17.9	45.8	16.3	0.1	0.2	56.7	243.6	R 120.9
1993	0.3	131.6	29.9	0.3	20.1	50.3	8.4	0.1	0.2	59.3	R 250.2	125.2
1994	0.5	129.7	28.0	0.2	19.9	48.1	R 8.3	0.1	0.2	60.3	R 247.1	R 125.8
1995	1.1	137.5	23.0	0.2	20.1	43.4	R 9.2	0.1	0.2	63.6	255.1	R 132.6
1996	0.9	149.8	22.8	0.2	R 27.0	R 50.0	9.1	0.1	0.2	63.8	R 274.0	R 132.9
1997	1.4	137.3	20.0	0.3	R 23.8	R 44.1	R 5.5	0.1	0.2	63.2	R 251.8	R 131.4
1998	1.1	117.2	16.1	0.2	21.4	37.7	4.9	0.1	0.2	65.1	226.4	134.5
1999	1.4	129.1	17.2	0.3	25.3	42.8	5.2	0.1	0.2	66.5	245.4	130.4

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Includes small amounts of solar thermal and photovoltaic energy consumed by the commercial sector that cannot be separately identified. See Appendix A, Section 5, for explanation of estimation methodology.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

renewable energy sources beginning in 1989.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 313. Commercial Energy Consumption Estimates, Selected Years 1960-1999, Wisconsin

Year	Coal ^a	Natural Gas ^b	Petroleum					Wood	Electricity ^a	Electrical System Energy Losses ^c	Total ^d			
			Distillate Fuel ^a	Kerosene ^a	LPG ^a	Motor Gasoline	Residual Fuel ^a							
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels					Thousand Cords	Geothermal	Million Kilowatthours	Net Energy	Million Kilowatthours		
1960	1,785	11	1,817	101	472	295	556	3,239	18	—	3,059	—	7,608	
1965	1,314	24	1,911	54	652	309	407	3,332	14	—	4,160	—	9,933	
1970	840	55	1,900	132	989	56	244	3,321	11	—	6,180	—	14,975	
1975	375	67	1,786	43	954	52	168	3,004	11	—	8,342	—	20,121	
1980	33	77	1,682	57	526	76	30	2,371	25	—	10,019	—	24,363	
1985	17	73	3,172	18	537	283	106	4,117	R 28	—	12,087	—	28,398	
1990	3	66	1,832	9	739	320	220	3,118	R 47	—	13,408	—	R 29,331	
1991	6	72	1,960	9	925	247	179	3,319	R 49	—	13,997	—	R 30,429	
1992	3	71	1,551	10	873	212	231	2,878	R 53	—	13,929	—	R 29,707	
1993	24	77	1,547	11	984	50	197	2,789	34	—	14,373	—	R 30,357	
1994	33	79	1,306	8	967	89	167	2,536	35	—	15,037	—	R 31,382	
1995	84	85	1,062	10	981	51	110	2,214	35	—	15,642	—	R 32,612	
1996	68	94	991	12	R 1,317	80	133	R 2,533	R 37	—	16,188	—	R 33,736	
1997	105	89	1,332	7	R 1,164	51	135	R 2,688	R 30	—	16,480	—	R 34,280	
1998	83	81	1,364	10	1,046	52	249	2,721	30	—	16,934	—	34,982	
1999	102	82	1,318	7	1,234	85	201	2,845	36	—	18,381	—	36,014	
Trillion Btu														
1960	39.1	11.3	10.6	0.6	1.9	1.5	3.5	18.1	0.4	0.0	10.4	79.3	26.0	105.2
1965	28.6	24.0	11.1	0.3	2.6	1.6	2.6	18.2	0.3	0.0	14.2	85.3	33.9	119.2
1970	17.7	55.6	11.1	0.7	3.7	0.3	1.5	17.4	0.2	0.0	21.1	112.0	51.1	163.1
1975	7.1	68.9	10.4	0.2	3.5	0.3	1.1	15.5	0.2	0.0	28.5	120.2	68.7	188.8
1980	0.8	77.7	9.8	0.3	1.9	0.4	0.2	12.6	0.5	0.0	34.2	125.8	83.1	209.0
1985	0.4	73.5	18.5	0.1	1.9	1.5	0.7	22.7	R 0.6	0.0	41.2	R 138.4	96.9	R 235.3
1990	0.1	66.7	10.7	(s)	2.7	1.7	1.4	16.5	R 0.9	e 0.0	45.7	R e 129.9	100.1	R e 230.0
1991	0.2	72.0	11.4	(s)	3.3	1.3	1.1	17.2	R 1.0	0.0	47.8	R 138.1	R 103.8	R 242.0
1992	0.1	72.0	9.0	0.1	3.2	1.1	1.5	14.8	R 1.1	0.0	47.5	R 135.4	R 101.4	R 236.8
1993	0.6	77.9	9.0	0.1	3.5	0.3	1.2	14.1	0.7	0.0	49.0	142.4	103.6	R 245.9
1994	0.8	79.6	7.6	(s)	3.5	0.5	1.0	12.7	0.7	0.0	51.3	145.1	107.1	252.1
1995	2.1	85.8	6.2	0.1	3.6	0.3	0.7	10.8	0.7	0.0	53.4	152.7	R 111.3	R 264.0
1996	1.7	95.0	5.8	0.1	R 4.8	0.4	0.8	R 11.9	R 0.7	0.0	55.2	R 164.6	R 115.1	R 279.7
1997	2.6	89.7	7.8	(s)	4.2	0.3	0.8	13.1	0.6	0.0	56.2	R 162.3	R 117.0	R 279.3
1998	2.1	82.2	7.9	0.1	3.8	0.3	1.6	13.6	0.6	0.0	57.8	156.3	119.4	275.6
1999	2.5	82.7	7.7	(s)	4.5	0.4	1.3	13.9	0.7	0.0	62.7	162.6	122.9	285.4

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels.

^c Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^d Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

^e There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of

renewable energy sources beginning in 1989.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 314. Industrial Energy Consumption Estimates, Selected Years 1960-1999, Wisconsin

Year	Coal	Natural Gas ^a	Petroleum										Hydro-electric Power ^b	Wood and Waste	Other ^{b,c}	Total	Million kWh	Electricity ^b	Electrical System Energy Losses ^e	
			Asphalt and Road Oil ^b	Distillate Fuel ^b	Kerosene ^b	LPG ^b	Lubricants ^b	Motor Gasoline	Residual Fuel ^b	Other ^{b,c}	Total									
Year	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels																	
1960	4,710	30	2,847	6,950	1,636	1,088	345	2,774	3,416	530	R 19,585	338	—	—	4,230	—	10,520	—		
1965	5,789	82	2,806	7,654	535	866	405	2,541	2,371	R 1,240	R 18,419	306	—	—	6,153	—	14,691	—		
1970	5,147	141	4,671	7,917	1,262	1,009	440	2,471	1,554	R 1,299	R 20,623	306	—	—	8,570	—	20,767	—		
1975	2,439	152	3,019	7,150	401	1,996	426	2,027	1,105	R 1,942	R 18,065	318	—	—	10,823	—	26,106	—		
1980	2,364	130	3,016	3,589	41	2,444	497	1,633	1,439	R 2,043	R 14,701	258	—	—	13,290	—	32,317	—		
1985	2,132	115	1,690	3,074	21	1,611	452	1,137	158	R 2,348	R 10,492	258	—	—	17,195	—	40,398	—		
1990	1,960	122	3,685	3,596	11	1,619	508	780	903	R 2,099	R 13,201	R f 229	—	—	19,405	—	R 42,450	—		
1991	1,878	129	3,332	4,103	10	2,166	455	997	672	R 2,828	R 14,562	R 254	—	—	19,686	—	R 42,795	—		
1992	1,835	130	3,105	4,181	12	1,836	464	816	614	R 3,096	R 14,124	R 263	—	—	20,382	—	R 43,469	—		
1993	1,811	134	3,253	4,779	19	1,916	472	825	1,056	R 3,063	R 15,383	R 280	—	—	21,410	—	R 45,222	—		
1994	1,984	135	3,521	5,040	16	2,217	494	914	1,109	R 3,027	R 16,337	R 306	—	—	22,714	—	R 47,403	—		
1995	1,949	146	4,154	4,443	15	2,089	485	934	710	R 2,873	R 15,703	R 274	—	—	23,690	—	R 49,392	—		
1996	1,678	150	4,126	4,787	20	R 2,253	471	921	872	R 13,285	R 26,734	R 289	—	—	23,871	—	R 49,747	—		
1997	1,761	156	5,155	4,888	15	R 2,077	497	914	940	R 14,340	R 28,827	R 297	—	—	25,103	—	R 52,218	—		
1998	1,689	142	6,012	4,521	16	1,312	521	669	717	14,383	28,151	214	—	—	26,040	—	53,794	—		
1999	1,655	146	6,192	6,339	49	2,727	526	753	1,003	14,554	32,144	251	—	—	25,665	—	50,285	—		
Trillion Btu																				
1960	116.6	30.8	18.9	40.5	9.3	4.4	2.1	14.6	21.5	3.1	R 114.2	3.6	19.3	0.0	14.4	R 299.0	35.9	334.9		
1965	142.4	83.0	18.6	44.6	3.0	3.5	2.5	13.3	14.9	6.9	R 107.3	3.2	24.2	0.0	21.0	R 381.1	50.1	431.3		
1970	119.6	143.6	31.0	46.1	7.2	3.8	2.7	13.0	9.8	R 7.3	R 120.8	3.2	26.1	0.0	29.2	442.6	70.9	R 513.4		
1975	54.7	155.5	20.0	41.6	2.3	7.4	2.6	10.6	6.9	R 11.0	102.5	3.3	32.9	0.0	36.9	385.9	89.1	475.0		
1980	54.6	130.6	20.0	20.9	0.2	9.0	3.0	8.6	9.0	R 11.4	R 82.2	2.7	R 142.1	0.0	45.3	R 457.4	110.3	R 567.7		
1985	49.7	116.4	11.2	17.9	0.1	5.8	2.7	6.0	1.0	R 12.9	R 57.7	2.7	R 166.5	0.0	58.7	R 451.7	137.8	R 589.5		
1990	47.3	122.6	24.5	20.9	0.1	5.9	3.1	4.1	5.7	11.7	75.9	R f 2.4	R 83.8	f 0.0	66.2	R f 398.2	144.8	R f 543.0		
1991	45.6	129.7	22.1	23.9	0.1	7.8	2.8	5.2	4.2	R 15.6	81.8	R 2.7	R 69.3	0.0	67.2	R 396.2	R 146.0	R 542.3		
1992	44.5	131.4	20.6	24.4	0.1	6.7	2.8	4.3	3.9	R 17.0	79.7	2.7	R 69.2	0.0	69.5	R 397.1	R 148.3	R 545.4		
1993	43.4	135.5	21.6	27.8	0.1	6.9	2.9	4.3	6.6	16.9	R 87.1	2.9	R 70.4	0.0	73.1	R 412.5	154.3	R 566.8		
1994	47.9	136.7	23.4	29.4	0.1	8.1	3.0	4.8	7.0	16.7	R 92.3	3.2	R 74.6	0.0	77.5	R 432.2	161.7	R 594.0		
1995	47.2	147.7	27.6	25.9	0.1	7.6	2.9	4.9	4.5	R 15.8	R 89.2	2.8	R 83.3	0.0	80.8	R 451.0	R 168.5	R 619.6		
1996	40.1	151.5	27.4	27.9	0.1	8.1	2.9	4.8	5.5	R 71.6	R 148.2	3.0	R 89.7	0.0	81.4	R 513.9	R 169.7	R 683.6		
1997	42.5	157.4	34.2	28.5	0.1	R 7.5	3.0	4.8	5.9	R 77.7	R 161.7	3.1	R 103.5	0.0	85.7	R 553.9	R 178.2	R 732.0		
1998	41.0	143.5	39.9	26.3	0.1	4.7	3.2	3.5	4.5	78.0	160.2	2.2	55.2	0.0	88.8	491.0	183.5	674.5		
1999	40.2	148.2	41.1	36.9	0.3	9.9	3.2	3.9	6.3	78.4	180.0	2.6	87.3	0.0	87.6	545.9	171.6	717.4		

^a Includes supplemental gaseous fuels.^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.^c "Other" is the subtotal of 16 petroleum products. See a full description in Appendix A, Section 4, "Other Petroleum Products."^d "Other" is geothermal, wind, photovoltaic, and solar thermal energy. See Appendix A, Section 5, for explanation of estimation methodology.^e Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for

electrical system energy losses.

^f There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

R=Revised data.

kWh=kilowatthours. — =Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 315. Transportation Energy Consumption Estimates, Selected Years 1960-1999, Wisconsin

Year	Coal ^a	Natural Gas ^b	Petroleum								Ethanol ^c	Electricity ^a	Electrical System Energy Losses ^d	Total ^c	
			Aviation Gasoline ^a	Distillate Fuel ^a	Jet Fuel ^a	LPG ^a	Lubricants ^a	Motor Gasoline	Residual Fuel ^a	Total					
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels								Thousand Barrels	Million Kilowatthours	Net Energy	Million Kilowatthours	
1960	83	1	427	1,773	245	23	527	30,056	378	33,430	0	0	—	0	—
1965	19	2	636	2,148	629	36	493	33,446	378	37,765	0	0	—	0	—
1970	8	7	332	4,179	1,603	74	552	42,956	6	49,703	0	0	—	0	—
1975	(s)	5	173	6,064	2,169	93	497	49,469	285	58,751	0	0	—	0	—
1980	0	8	124	8,570	2,397	84	523	47,897	235	59,829	0	0	—	0	—
1985	0	3	102	9,685	1,663	184	476	45,136	138	57,383	R e 28	0	—	0	—
1990	0	4	122	12,875	1,424	118	535	47,890	2	62,965	R 196	0	—	0	—
1991	0	4	105	11,676	1,352	139	479	48,655	(s)	62,406	R 489	0	—	0	—
1992	0	4	121	12,186	1,721	120	488	49,257	8	63,901	R 425	0	—	0	—
1993	0	4	119	12,895	1,912	151	497	50,759	11	66,344	R 356	0	—	0	—
1994	0	10	285	14,666	1,975	294	519	52,045	11	69,795	R 392	(s)	—	(s)	—
1995	0	4	374	15,296	2,044	123	511	54,068	22	72,438	R 861	(s)	—	(s)	—
1996	0	4	367	15,673	1,530	R 106	495	55,313	32	R 73,516	R 1,362	(s)	—	(s)	—
1997	0	5	486	16,216	1,949	R 99	523	54,731	12	R 74,017	R 1,594	(s)	—	(s)	—
1998	0	4	454	16,781	1,864	176	548	58,019	15	77,856	824	(s)	—	(s)	—
1999	0	4	134	17,342	3,407	52	554	58,138	8	79,633	697	(s)	—	(s)	—
Trillion Btu															
1960	2.0	0.6	2.2	10.3	1.3	0.1	3.2	157.9	2.4	177.4	0.0	0.0	180.0	0.0	180.0
1965	0.5	1.6	3.2	12.5	3.5	0.1	3.0	175.7	2.4	200.4	0.0	0.0	202.5	0.0	202.5
1970	0.2	6.7	1.7	24.3	9.0	0.3	3.3	225.7	(s)	264.4	0.0	0.0	271.3	0.0	271.3
1975	(s)	5.1	0.9	35.3	12.3	0.3	3.0	259.9	1.8	313.5	0.0	0.0	318.5	0.0	318.5
1980	0.0	8.3	0.6	49.9	13.5	0.3	3.2	251.6	1.5	320.6	0.0	0.0	328.9	0.0	328.9
1985	0.0	2.8	0.5	56.4	9.3	0.7	2.9	237.1	0.9	307.8	R e 0.1	0.0	e 310.6	0.0	e 310.6
1990	0.0	4.4	0.6	75.0	8.0	0.4	3.2	251.6	(s)	338.9	R 0.7	0.0	343.3	0.0	343.3
1991	0.0	4.5	0.5	68.0	7.6	0.5	2.9	255.6	(s)	335.1	R 1.7	0.0	339.6	0.0	339.6
1992	0.0	4.0	0.6	71.0	9.7	0.4	3.0	258.7	0.1	343.5	R 1.5	0.0	347.5	0.0	347.5
1993	0.0	3.7	0.6	75.1	10.8	0.5	3.0	266.6	0.1	356.7	R 1.3	0.0	360.4	0.0	360.4
1994	0.0	10.0	1.4	85.4	11.1	1.1	3.2	R 272.2	0.1	R 374.5	R 1.4	(s)	R 384.5	(s)	R 384.5
1995	0.0	4.3	1.9	89.1	11.6	0.4	3.1	R 282.0	0.1	R 388.2	R 3.0	(s)	R 392.5	(s)	R 392.5
1996	0.0	4.3	1.9	91.3	8.7	0.4	3.0	R 288.5	0.2	R 393.9	R 4.8	(s)	R 398.2	(s)	R 398.2
1997	0.0	4.7	2.5	94.5	11.1	R 0.4	3.2	R 285.3	0.1	R 396.9	R 5.6	(s)	R 401.5	(s)	R 401.5
1998	0.0	4.4	2.3	97.7	10.6	0.6	3.3	302.4	0.1	417.1	2.9	(s)	421.4	(s)	421.4
1999	0.0	4.2	0.7	101.0	19.3	0.2	3.4	303.0	(s)	427.6	2.5	(s)	431.8	(s)	431.8

^a The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.

^b Includes supplemental gaseous fuels. Transportation use of natural gas is gas consumed in the operation of pipelines, primarily in compressors, and, since 1990, is also gas consumed as vehicle fuel.

^c Ethanol blended into motor gasoline, which is accounted for under motor gasoline, is shown separately here to display the use of renewable energy by the transportation sector and is included only once in the total.

^d Incurred in the generation, transmission, and distribution of electricity plus plant use and unaccounted for electrical system energy losses.

^e There is a discontinuity in this time series between 1980 and 1981 due to the expanded coverage of renewable energy sources beginning in 1981.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.

Table 316. Estimates of Energy Input at Electric Utilities, Selected Years, 1960-1999, Wisconsin

Year	Coal	Natural Gas ^a	Petroleum				Nuclear Electric Power	Hydroelectric Power ^e	Wood and Waste	Geothermal Energy	Other ^{b,f}	Total ^g
			Heavy Oil ^{b,c}	Light Oil ^{b,d}	Petroleum Coke ^b	Total						
	Thousand Short Tons	Billion Cubic Feet	Thousand Barrels				Million Kilowatthours					
1960	5,195	2	45	5	0	50	0	2,061	0	0	0	—
1965	6,697	14	53	6	0	59	0	1,825	2	0	0	—
1970	10,450	31	1,132	124	240	1,497	157	1,597	8	0	0	—
1975	9,716	20	548	578	37	1,163	10,293	1,719	0	0	0	—
1980	13,229	14	68	499	9	576	9,911	1,857	62	0	0	—
1985	15,876	1	0	251	24	274	10,979	2,288	88	0	(s)	—
1990	18,133	2	0	113	0	113	11,226	1,791	173	0	(s)	—
1991	18,771	3	0	147	0	147	10,991	R 2,270	157	0	(s)	—
1992	18,231	3	0	82	43	125	11,207	R 2,123	150	0	0	—
1993	19,049	3	0	123	110	233	11,465	2,191	220	0	0	—
1994	19,696	4	0	220	161	380	11,516	R 1,914	265	0	0	—
1995	20,987	9	0	194	144	337	10,970	R 2,097	285	0	0	—
1996	22,236	7	0	161	133	293	10,121	R 2,517	319	0	0	—
1997	23,568	16	0	263	178	441	3,916	R 2,736	372	0	0	—
1998	22,903	16	0	312	181	493	9,397	2,071	441	0	0	—
1999	23,450	14	0	341	201	542	11,495	1,988	343	0	0	—
Trillion Btu												
1960	125.8	2.1	0.3	(s)	0.0	0.3	0.0	22.2	0.0	0.0	0.0	150.4
1965	161.0	14.7	0.3	(s)	0.0	0.4	0.0	19.1	(s)	0.0	0.0	195.1
1970	234.6	31.2	7.1	0.7	1.4	9.3	1.7	16.8	0.1	0.0	0.0	293.6
1975	206.3	20.3	3.4	3.4	0.2	7.0	113.4	17.9	0.0	0.0	0.0	364.8
1980	271.5	13.8	0.4	2.9	0.1	3.4	108.1	19.3	0.6	0.0	0.0	416.8
1985	310.3	1.3	0.0	1.5	0.1	1.6	118.7	23.9	0.9	0.0	(s)	456.8
1990	349.7	2.4	0.0	0.7	0.0	0.7	119.9	18.6	1.8	0.0	(s)	493.0
1991	362.0	2.7	0.0	0.9	0.0	0.9	118.0	R 23.7	1.6	0.0	(s)	R 509.0
1992	354.6	2.6	0.0	0.5	0.3	0.7	119.7	R 22.0	1.5	0.0	0.0	R 501.1
1993	361.5	3.1	0.0	0.7	0.7	1.4	122.5	22.6	2.3	0.0	0.0	513.3
1994	376.8	3.9	0.0	1.3	1.0	2.2	122.9	R 19.7	2.7	0.0	0.0	R 528.3
1995	392.5	9.4	0.0	1.1	0.9	2.0	116.9	R 21.6	2.9	0.0	0.0	R 545.4
1996	410.1	7.4	0.0	0.9	0.8	1.7	107.5	R 26.0	3.3	0.0	0.0	R 556.6
1997	441.9	15.9	0.0	1.5	1.1	2.6	41.6	R 28.3	R 3.9	0.0	0.0	R 537.5
1998	426.0	16.6	0.0	1.8	1.1	2.9	99.8	21.4	4.6	0.0	0.0	573.9
1999	427.5	14.2	0.0	2.0	1.2	3.2	122.1	20.6	3.5	0.0	0.0	592.6

^a Includes supplemental gaseous fuels.^b The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the "Additional Notes" under each type of energy in Appendix A.^c Prior to 1980, based on oil used in steam plants. Since 1980, heavy oil includes fuel oil nos. 4, 5, and 6 and residual fuel oils.^d Prior to 1980, based on oil used in internal combustion and gas turbine engine plants. Since 1980, light oil includes fuel oil nos. 1 and 2, kerosene, and jet fuel.^e If applicable, through 1988, includes all net imports of electricity, and, from 1989, includes only the portion of imports of electricity that is derived from hydroelectric power.^f "Other" is electricity generated for distribution from wind, photovoltaic, and solar thermal energy.^g If applicable, from 1989, includes net imports of electricity generated from nonrenewable energy sources not shown in other columns. See data in appendix Table A8.

R=Revised data.

—=Not applicable.

(s)=Btu value less than 0.05 and physical unit value less than 0.5.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Data sources, estimation procedures, and assumptions are described in the appendices to this report.