

ENERGY

2011 Data Book

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END-USE ENERGY CONSUMPTION BY SECTOR¹

Source: Washington State Department of Commerce

Energy Office 360-725-3120

Internet Homepage: <http://www.commerce.wa.gov/>

Billions of BTUs²

<u>Calendar Year</u>	<u>Total</u>	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Transportation</u>
1990	1,253,873	171,846	130,072	384,278	567,677
1991	1,250,258	181,886	133,694	357,960	576,718
1992	1,316,288	172,102	127,233	373,799	643,154
1993	1,290,252	196,121	136,227	366,439	591,465
1994	1,319,445	191,713	137,255	383,280	607,198
1995	1,340,173	191,871	140,386	376,870	631,046
1996	1,350,767	210,195	148,005	372,689	619,877
1997	1,378,833	208,196	148,110	386,646	635,882
1998	1,364,239	203,825	147,166	412,561	600,688
1999	1,400,063	220,201	157,626	410,210	612,026
2000	1,356,274	220,416	161,032	351,053	623,773
2001	1,301,998	238,541	168,595	297,986	596,877
2002	1,226,193	230,983	157,478	256,262	581,470
2003	1,224,101	222,351	159,348	262,705	579,696
2004	1,249,258	224,435	158,500	264,025	602,297
2005	1,270,666	216,999	158,778	283,248	611,641
2006	1,329,324	221,210	162,020	317,960	628,134
2007	1,354,551	229,057	166,511	289,486	669,497
2008	1,325,730	239,395	174,479	292,537	619,319

¹Does not include non-energy uses of petroleum (waxes, asphalt, lubricants, etc.).

²British Thermal Unit (BTU): The quantity of heat required to raise the temperature of one pound of water by one degree Fahrenheit. 1 therm = 100,000 BTU.

Table: YT01

PRIMARY ENERGY CONSUMPTION BY ENERGY SOURCE¹

Source: Washington State Department of Commerce

Energy Office 360-725-3120

Internet Homepage: <http://www.commerce.wa.gov/>

Billions of BTUs²

<u>Calendar Year</u>	<u>BioMass</u>	<u>Coal</u>	<u>Hydro- electricity</u>	<u>Nuclear Electricity</u>	<u>Natural Gas</u>	<u>Petroleum</u>
1990	93,429	85,575	297,501	60,762	167,616	676,098
1991	73,889	89,085	303,942	44,346	179,395	677,582
1992	95,374	106,087	232,378	59,605	180,769	743,461
1993	96,463	97,804	229,001	74,946	229,616	688,228
1994	96,294	106,884	222,995	70,444	263,176	711,589
1995	90,131	69,790	280,535	72,938	264,474	728,189
1996	89,664	90,901	335,270	58,691	283,909	724,871
1997	94,158	80,465	354,420	65,526	268,141	742,686
1998	87,123	103,476	271,515	72,556	303,307	696,917
1999	89,417	96,875	329,911	63,598	302,262	709,141
2000	89,553	106,240	273,508	89,744	297,569	728,836
2001	92,656	99,441	186,548	86,200	322,413	718,376
2002	87,636	100,832	266,098	94,457	240,494	690,171
2003	95,670	118,207	244,647	79,353	255,839	679,310
2004	92,552	112,539	243,961	93,651	269,572	695,180
2005	83,413	112,284	240,829	86,016	272,167	712,008
2006	106,215	69,150	271,827	97,350	271,034	736,377
2007	81,852	95,737	260,370	85,018	279,701	772,694
2008	79,649	94,601	255,485	96,896	307,172	727,583

¹Totals differ from sector totals due to exports/imports of electricity and system/generation losses.

²British Thermal Unit (BTU): The quantity of heat required to raise the temperature of pound of water by one degree Fahrenheit. 1 therm = 100,000 BTU.

Table: YT02

ENERGY EXPENDITURES BY SECTOR

Source: Washington State Department of Commerce

Energy Office 360-725-3120

Internet Homepage: <http://www.commerce.wa.gov/>

*\$ in Millions*¹

<u>Calendar Year</u>	<u>Total</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Residential</u>	<u>Transportation</u>
1970	5,251	492	908	1,187	2,664
1971	5,288	512	928	1,215	2,633
1972	5,481	617	1,007	1,293	2,564
1973	5,848	677	1,032	1,286	2,853
1974	6,843	683	1,231	1,290	3,639
1975	7,282	728	1,386	1,296	3,872
1976	7,557	755	1,384	1,342	4,076
1977	7,991	812	1,490	1,421	4,268
1978	8,102	784	1,485	1,417	4,415
1979	9,640	909	1,589	1,601	5,541
1980	11,296	1,042	1,907	1,659	6,688
1981	12,761	1,296	2,321	1,971	7,173
1982	12,535	1,588	2,477	2,186	6,284
1983	11,336	1,523	2,147	2,310	5,356
1984	12,209	1,637	2,743	2,299	5,529
1985	11,899	1,760	2,264	2,379	5,496
1986	10,141	1,486	1,870	2,155	4,630
1987	10,216	1,495	1,913	2,114	4,694
1988	10,561	1,563	2,168	2,222	4,608
1989	11,271	1,545	2,276	2,321	5,128
1990	11,802	1,515	2,158	2,271	5,858
1991	11,647	1,502	2,070	2,268	5,808
1992	11,212	1,494	1,957	2,129	5,633
1993	11,246	1,593	1,937	2,385	5,330
1994	11,679	1,665	2,067	2,430	5,517
1995	11,845	1,699	2,090	2,410	5,645
1996	12,590	1,779	1,979	2,594	6,237
1997	12,476	1,746	2,016	2,550	6,165
1998	11,344	1,727	2,171	2,498	4,948
1999	12,626	1,822	2,296	2,651	5,858
2000	14,627	1,932	2,356	2,787	7,551
2001	14,269	2,286	2,052	3,246	6,685
2002	13,371	2,324	1,660	3,277	6,110
2003	14,262	2,293	1,779	3,068	7,122
2004	16,095	2,372	1,929	3,188	8,605
2005	18,433	2,435	2,323	3,370	10,305
2006	20,600	2,586	2,558	3,582	11,873
2007	21,737	2,592	2,421	3,793	12,930
2008	24,266	2,696	2,842	3,922	14,806

¹Adjusted to 2000 dollars.

Table: YT03

SELECTED ENERGY PRICES

Source: Washington State Department of Commerce

Energy Office 360-725-3120

Internet Homepage: <http://www.commerce.wa.gov/>

\$ per Million BTUs¹

<u>Calendar Year</u>	<u>Petroleum</u>	<u>Electricity</u>	<u>Natural Gas</u>	<u>Bio-fuels</u>	<u>Coal</u>
1978	9.49	7.41	5.75	0.98	3.69
1979	11.57	7.47	6.24	1.08	4.15
1980	14.30	8.28	8.09	0.95	5.00
1981	15.80	9.76	8.28	0.97	5.04
1982	14.78	12.81	9.66	0.89	4.99
1983	13.30	13.89	9.00	0.87	4.22
1984	12.47	14.67	8.60	0.88	4.17
1985	12.06	14.53	7.96	0.84	3.99
1986	8.59	14.27	6.65	0.75	3.45
1987	8.61	14.20	5.38	0.76	3.70
1988	7.91	14.39	5.46	0.74	3.58
1989	8.44	14.46	5.26	1.19	3.53
1990	9.49	13.45	4.56	1.10	3.45
1991	9.33	12.94	4.42	1.20	3.80
1992	8.11	12.88	4.57	1.12	3.63
1993	8.37	13.42	4.76	1.14	3.46
1994	8.35	14.48	4.60	1.12	3.86
1995	8.34	14.48	4.41	1.29	3.84
1996	9.26	14.62	4.31	1.16	3.62
1997	9.05	13.91	4.41	1.08	3.44
1998	7.70	13.78	4.04	1.16	2.91
1999	8.93	13.80	4.26	1.23	2.84
2000	11.33	14.17	5.71	1.42	2.83
2001	10.39	17.17	7.85	1.77	2.69
2002	9.71	18.64	7.42	1.83	2.76
2003	11.23	18.17	7.11	1.65	2.62
2004	13.22	17.45	8.42	1.70	2.79
2005	15.52	17.01	9.81	2.23	3.31
2006	17.35	17.24	10.32	2.31	3.59
2007	17.87	17.36	10.28	2.14	3.63
2008	22.17	17.31	9.73	2.59	4.43

¹British Thermal Unit (BTU): The quantity of heat required to raise the temperature of one pound of water by one degree Fahrenheit. 1 therm = 100,000 BTU.

Table: YT04

NATURAL GAS PRICES BY SECTOR

Source: Washington State Department of Commerce

Energy Office 360-725-3120

Internet Homepage: <http://www.commerce.wa.gov/>

\$ per Billion BTU¹

<u>Calendar Year</u>	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Electric Utilities</u>
1978	82.50	67.49	49.15	57.24
1979	85.97	75.44	53.29	60.32
1980	104.23	94.83	67.94	70.86
1981	108.39	96.23	69.49	72.18
1982	116.70	105.52	81.79	100.53
1983	113.93	100.67	74.51	87.55
1984	109.24	97.18	71.95	82.17
1985	103.01	85.09	67.92	73.67
1986	91.44	77.91	48.26	44.60
1987	80.75	67.04	38.23	38.49
1988	79.76	66.56	38.66	45.37
1989	76.29	64.92	36.74	72.43
1990	67.12	55.34	32.54	41.75
1991	60.59	52.51	33.00	51.08
1992	63.01	54.43	33.77	41.09
1993	64.19	55.70	36.46	47.96
1994	68.26	58.68	32.70	58.88
1995	69.16	58.72	29.93	53.61
1996	65.34	55.59	28.22	57.04
1997	63.67	53.39	32.74	66.90
1998	65.62	53.37	27.04	38.32
1999	64.61	53.73	27.99	30.31
2000	77.58	65.23	38.85	57.50
2001	104.89	92.35	48.00	82.23
2002	99.04	87.47	45.31	36.11
2003	87.77	76.84	56.26	34.03
2004	100.00	94.85	71.33	46.88
2005	114.61	101.31	89.90	64.89
2006	125.51	112.45	82.68	54.81
2007	126.88	113.33	79.41	56.47
2008	115.41	101.53	82.15	75.67

¹British Thermal Unit (BTU): The quantity of heat required to raise the temperature of one pound of water by one degree Fahrenheit. 1 therm = 100,000 BTU.

Table: YT05

ELECTRICITY PRICES BY SECTOR

Source: Washington State Department of Commerce

Energy Office 360-725-3120

Internet Homepage: <http://www.commerce.wa.gov/>

Cents per Kilowatt Hour

<u>Calendar Year</u>	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>
1985	6.17	5.85	3.45
1986	6.20	5.93	3.41
1987	6.41	5.73	3.52
1988	6.32	5.59	3.90
1989	6.21	5.61	3.80
1990	6.05	5.46	3.29
1991	5.82	5.36	3.06
1992	5.81	5.40	2.92
1993	5.86	5.55	3.06
1994	6.21	5.73	3.49
1995	6.07	5.70	3.62
1996	6.05	5.68	3.50
1997	5.86	5.55	3.24
1998	5.91	5.46	3.32
1999	5.90	5.44	3.38
2000	5.80	5.29	3.73
2001	6.32	5.93	5.27
2002	6.88	6.53	5.33
2003	6.74	6.48	5.09
2004	6.61	6.40	4.44
2005	6.54	6.33	4.27
2006	6.60	6.42	4.29
2007	6.82	6.16	4.29
2008	6.87	6.15	4.14

Table: YT06

ENERGY CONSUMPTION PER CAPITA

Source: Washington State Department of Commerce

Energy Office 360-725-3120

Internet Homepage: <http://www.commerce.wa.gov/>

Million BTUs per Person¹

<u>Calendar Year</u>	<u>WA Consumption Per Capita²</u>	<u>U.S. Consumption Per Capita²</u>
1970	247	262
1971	252	262
1972	270	271
1973	281	277
1974	268	266
1975	258	254
1976	258	265
1977	260	266
1978	261	268
1979	262	267
1980	245	252
1981	245	243
1982	231	230
1983	221	226
1984	240	236
1985	238	232
1986	250	230
1987	253	235
1988	265	244
1989	263	245
1990	258	238
1991	249	235
1992	256	237
1993	245	238
1994	246	241
1995	245	243
1996	243	250
1997	243	248
1998	237	242
1999	240	243
2000	230	241
2001	218	233
2002	203	235
2003	201	234
2004	203	235
2005	203	232
2006	209	230
2007	209	231
2008	201	225

¹British Thermal Unit (BTU): The quantity of heat required to raise the temperature of one pound of water by one degree Fahrenheit.
1 therm = 100,000 BTU.

²Million BTUs per person.

Table: YT07