

**M I C H I G A N** Table ET2. Total End-Use Energy Price and Expenditure Estimates, Selected Years, 1970-2020, Michigan

Year	Primary Energy										Electricity Retail Sales	Total Energy <sup>h,i,j</sup>	
	Coal	Natural Gas <sup>a</sup>	Petroleum					Biomass	Total <sup>h,i,j</sup>				
			Distillate Fuel Oil <sup>b</sup>	HGL <sup>c</sup>	Jet Fuel <sup>d</sup>	Motor Gasoline <sup>e</sup>	Residual Fuel Oil			Other <sup>f</sup>			Wood and Waste <sup>g,h</sup>
Prices in Dollars per Million Btu													
1970	0.57	0.80	1.10	1.91	0.74	2.71	0.56	2.10	2.09	1.01	1.35	5.55	1.71
1975	1.83	1.42	2.50	3.89	2.08	4.72	1.95	3.85	3.93	1.29	2.65	9.78	3.34
1980	2.05	3.05	6.78	6.85	6.38	10.09	3.30	8.74	8.91	2.16	5.47	15.40	6.57
1985	2.05	5.71	7.74	9.29	6.09	9.10	4.39	10.98	8.79	2.30	6.75	19.88	8.46
1990	1.80	4.35	7.44	10.78	5.65	8.78	3.10	9.88	8.51	1.84	6.10	20.85	8.08
1995	1.68	4.17	6.95	8.98	3.93	8.47	2.60	9.31	8.04	1.45	5.81	20.72	7.96
2000	1.64	4.52	9.95	12.00	6.51	11.90	3.64	10.46	11.18	1.68	7.69	20.89	9.74
2005	3.03	9.61	16.59	17.69	13.03	17.69	6.73	14.47	17.10	3.65	13.16	21.25	14.53
2006	3.26	10.92	18.74	19.67	14.94	19.99	7.78	20.31	19.56	3.74	15.11	23.90	16.66
2007	3.26	10.22	20.06	21.71	16.47	22.32	8.43	21.38	21.50	3.96	15.93	25.04	17.57
2008	4.05	10.99	26.41	25.63	22.76	25.57	12.06	27.32	25.61	4.78	18.06	26.24	19.53
2009	5.14	10.22	16.64	22.98	12.60	18.58	7.87	R 24.94	18.64	3.72	14.45	27.63	16.80
2010	5.23	10.08	21.18	R 22.44	16.23	22.04	9.78	R 21.66	R 21.50	3.85	15.87	29.05	R 18.31
2011	5.97	9.50	27.40	R 24.79	22.39	28.03	13.26	R 26.07	R 27.25	4.09	R 18.49	30.57	20.73
2012	5.84	8.73	28.04	R 21.70	22.99	28.62	14.63	R 25.92	R 27.70	3.87	R 18.71	32.29	21.33
2013	4.83	8.07	28.02	R 21.58	21.97	27.92	13.56	R 25.31	R 27.08	4.14	R 17.65	32.89	R 20.31
2014	4.57	8.53	27.22	25.92	20.70	26.69	12.73	R 24.11	R 26.24	4.53	R 17.26	32.38	R 19.84
2015	4.27	7.65	18.54	18.25	11.88	19.16	7.43	R 21.06	R 18.62	4.38	13.25	31.57	R 16.43
2016	3.61	6.91	15.77	R 16.46	9.72	17.04	4.60	R 17.31	R 16.28	3.66	11.91	32.44	15.57
2017	4.30	7.07	18.22	R 19.52	12.27	19.13	6.38	R 17.08	R 18.35	3.85	R 12.98	33.12	16.50
2018	4.66	6.96	21.96	R 20.61	15.64	21.21	8.00	R 21.07	R 20.89	4.08	R 14.16	33.46	R 17.47
2019	5.35	6.84	20.72	R 17.68	14.37	20.21	7.51	R 20.32	R 19.72	4.33	13.48	33.93	R 16.89
2020	4.90	6.89	16.80	15.70	9.10	16.59	5.51	17.61	16.29	3.50	11.60	35.85	16.00

  

Expenditures in Million Dollars													
1970	194.1	593.0	237.0	44.8	30.4	1,378.2	15.8	176.9	1,883.2	6.3	2,676.6	1,041.7	3,718.3
1975	467.5	1,174.9	593.3	109.7	65.8	2,686.4	42.2	273.1	3,770.4	7.9	5,420.6	2,139.6	7,560.3
1980	464.9	2,543.0	1,060.3	171.3	236.9	5,144.7	66.9	681.2	7,361.3	33.4	10,402.6	3,647.5	14,050.2
1985	359.8	3,933.4	1,143.6	465.9	223.6	4,466.4	40.8	597.7	6,938.0	39.1	11,302.9	4,993.3	16,296.2
1990	223.9	3,423.9	1,041.1	575.4	319.7	4,608.3	22.9	630.7	7,198.1	54.2	10,936.7	5,797.5	16,734.2
1995	193.7	3,498.7	1,092.3	479.3	196.3	4,875.1	4.9	650.9	7,298.9	57.0	11,048.3	6,636.2	17,684.5
2000	172.4	3,652.4	1,763.2	734.5	266.3	7,310.1	9.5	850.5	10,934.1	60.6	14,819.4	7,400.3	22,219.7
2005	245.8	7,136.4	2,890.1	1,523.0	253.5	10,984.2	46.0	968.2	16,665.0	145.3	24,192.6	7,934.7	32,127.3
2006	261.7	7,176.3	3,221.0	1,096.7	349.4	12,242.4	46.1	1,199.2	18,154.8	139.7	25,732.5	8,724.5	34,457.0
2007	260.0	6,564.7	3,373.4	1,307.5	492.3	13,317.1	64.4	1,305.1	19,859.9	152.7	26,837.3	9,251.2	36,088.5
2008	354.7	7,248.4	4,033.9	1,216.9	598.8	14,543.0	93.0	1,344.0	21,829.6	194.0	29,626.8	9,378.2	39,005.0
2009	274.6	6,355.1	2,437.6	1,029.3	305.0	10,376.1	23.2	R 1,208.6	R 15,379.9	113.6	R 22,123.1	9,158.8	R 31,281.9
2010	375.3	6,033.0	3,203.2	R 938.6	R 789.8	12,109.9	28.8	R 857.3	R 17,927.5	149.6	R 24,485.4	10,171.9	R 34,657.3
2011	422.3	5,983.8	4,169.1	R 1,014.1	R 1,116.9	15,027.2	53.3	R 912.2	R 22,292.8	172.9	R 28,871.8	10,846.5	R 39,718.4
2012	361.2	5,046.5	4,115.9	R 766.5	R 1,128.4	15,219.1	42.2	R 915.1	R 22,187.2	166.1	R 27,761.1	11,422.9	R 39,184.0
2013	334.9	5,540.9	4,580.2	R 1,009.6	R 1,090.1	15,407.8	32.2	R 1,070.7	R 23,190.6	184.9	R 29,251.3	11,520.6	R 40,771.9
2014	294.1	6,235.5	4,514.0	R 1,271.9	R 1,028.3	14,733.8	20.6	R 1,122.9	R 22,691.5	201.1	R 29,422.2	11,364.3	R 40,786.5
2015	265.9	5,116.2	3,178.7	763.1	R 659.9	10,794.2	10.9	R 1,024.3	R 16,431.2	212.5	R 22,025.8	10,992.2	R 33,018.0
2016	140.8	4,475.0	2,684.1	R 734.3	R 551.8	9,774.1	14.0	R 894.7	R 14,652.8	168.6	R 19,437.2	11,512.6	R 30,949.8
2017	229.9	4,634.4	2,880.1	R 872.4	R 715.6	10,852.6	27.9	R 860.7	R 16,209.3	R 170.8	R 21,244.4	11,462.3	R 32,706.7
2018	250.1	4,947.7	3,929.2	R 1,071.4	R 891.0	12,060.9	40.9	R 973.7	R 18,967.1	R 195.2	R 24,360.1	11,921.5	R 36,281.5
2019	267.5	4,935.0	3,572.4	R 947.8	R 814.1	R 11,332.1	43.0	R 993.1	R 17,702.6	R 192.2	R 23,097.3	11,670.1	R 34,767.4
2020	154.1	4,480.1	2,612.7	767.9	268.6	7,952.8	22.6	857.2	12,481.7	138.1	17,254.1	11,816.1	29,070.2

<sup>a</sup> Includes supplemental gaseous fuels that are commingled with natural gas.  
<sup>b</sup> Beginning in 2009, includes biodiesel blended into distillate fuel oil.  
<sup>c</sup> Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.  
<sup>d</sup> Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Petroleum."  
<sup>e</sup> Beginning in 1993, includes fuel ethanol blended into motor gasoline.  
<sup>f</sup> Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum products" category. See Technical Notes, Section 4.  
<sup>g</sup> Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.  
<sup>h</sup> There is a discontinuity in this time series between 1988 and 1989 due to the expanded coverage of the use of wood and biomass waste beginning in 1989.

<sup>i</sup> There are no direct fuel costs for hydroelectric, geothermal, solar, or wind energy.  
<sup>j</sup> For 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.  
Where shown, R = Revised data and (s) = Value less than 0.05 million dollars.  
Where shown, — = No consumption, including cases where adjustments were made. See explanation of adjustments in Section 7 of the Technical Notes.  
Notes: Price estimates are weighted averages of price estimates and expenditure estimates are the sum of expenditure estimates for the residential, commercial, industrial, and transportation sectors. Expenditure totals may not equal sum of components due to independent rounding.  
Web Page: All data are available at <https://www.eia.gov/state/seds/seds-data-complete.php>.  
Sources: Data sources, estimation procedures, and assumptions are described in the Technical Notes.