

MONTANA
Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2020, Montana
 (Trillion Btu)

Year	Fossil Fuels										Fossil Fuels (as commingled)			
	Coal	Natural Gas excluding Supplemental Gaseous Fuels ^a	Petroleum							Total	Total	Natural Gas including Supplemental Gaseous Fuels ^a	Distillate Fuel Oil including Biodiesel ^a	Motor Gasoline including Fuel Ethanol ^a
			Distillate Fuel Oil excluding Biodiesel ^a	HGL ^b	Jet Fuel ^c	Motor Gasoline excluding Fuel Ethanol ^a	Residual Fuel Oil	Other ^d	Total					
1960	4.0	57.6	28.5	2.8	1.4	36.4	13.0	24.9	107.0	168.6	57.6	28.5	36.4	
1965	5.5	70.8	28.9	3.5	2.1	40.5	7.8	27.8	110.7	187.0	70.8	28.9	40.5	
1970	12.0	90.6	28.1	5.0	3.6	48.7	8.0	32.8	126.2	228.8	90.6	28.1	48.7	
1971	11.5	91.1	33.3	5.3	4.3	49.9	7.9	32.5	133.2	235.7	91.1	33.3	49.9	
1972	13.2	87.0	36.1	6.5	4.3	53.2	9.2	37.0	146.3	246.5	87.0	36.1	53.2	
1973	15.2	93.1	40.7	5.7	4.2	57.2	11.1	37.6	156.5	264.9	93.1	40.7	57.2	
1974	14.7	81.7	45.7	5.6	4.4	55.4	14.2	33.2	158.4	254.8	81.7	45.7	55.4	
1975	18.6	81.2	44.2	5.2	4.6	55.8	13.7	31.2	154.7	254.5	81.2	44.2	55.8	
1976	42.2	75.4	49.0	5.4	4.2	61.0	15.9	31.5	167.0	284.5	75.4	49.0	61.0	
1977	57.8	71.6	48.1	5.2	4.3	58.3	15.8	32.3	163.9	293.3	71.6	48.1	58.3	
1978	57.6	72.7	48.0	6.3	3.9	67.3	15.7	31.1	172.3	302.6	72.7	48.0	67.3	
1979	63.4	69.1	52.6	4.1	5.1	58.6	36.3	30.0	186.7	319.3	69.1	52.6	58.6	
1980	60.2	61.5	43.7	6.7	5.2	54.7	25.3	28.1	163.7	285.4	61.5	43.7	54.7	
1981	62.5	53.0	37.7	3.8	4.5	56.7	15.7	25.5	143.9	259.5	53.0	37.7	56.7	
1982	48.6	52.8	33.9	5.3	3.5	54.8	10.1	22.4	130.1	231.5	52.8	33.9	54.8	
1983	42.8	46.6	51.6	5.6	3.7	55.3	8.2	23.7	148.1	237.5	46.6	51.6	55.3	
1984	90.3	47.1	47.5	3.8	3.6	54.9	5.0	26.0	140.8	278.2	47.1	47.5	54.9	
1985	99.1	47.3	60.8	5.7	3.8	53.5	0.8	27.0	151.7	298.1	47.3	60.8	53.5	
1986	133.2	41.1	38.6	5.5	4.8	53.4	0.3	30.7	133.3	307.7	41.1	38.6	53.4	
1987	132.9	39.6	36.3	6.3	4.0	53.9	0.1	32.6	133.2	305.7	39.6	36.3	53.9	
1988	181.5	42.9	35.4	5.6	4.5	54.8	1.4	33.7	135.5	359.9	42.9	35.4	54.8	
1989	179.4	46.7	42.7	6.0	4.2	54.2	1.1	35.4	143.6	369.6	46.7	42.7	54.2	
1990	168.8	44.4	42.4	6.4	4.0	54.3	1.4	34.0	142.4	355.7	44.4	42.4	54.3	
1991	184.2	46.7	42.1	4.0	3.5	54.4	0.9	30.3	135.2	366.1	46.7	42.1	54.4	
1992	194.1	46.6	39.8	3.8	4.8	56.3	0.6	34.6	139.9	380.6	46.6	39.8	56.3	
1993	161.9	54.3	42.6	7.8	5.0	57.3	4.3	32.5	149.5	365.7	54.3	42.6	57.4	
1994	193.7	53.3	43.0	3.9	4.8	57.9	2.3	36.9	148.7	395.7	53.3	43.0	57.9	
1995	175.3	59.6	46.8	3.4	5.9	58.9	1.5	39.5	156.0	390.9	59.6	46.8	59.0	
1996	138.8	63.3	47.0	5.8	5.7	61.2	1.1	45.6	166.4	368.4	63.3	47.0	61.2	
1997	162.6	61.7	52.6	1.0	4.5	59.8	1.0	41.6	160.5	384.8	61.7	52.6	59.8	
1998	186.1	61.4	45.8	1.0	4.5	60.3	0.7	47.3	159.5	407.0	61.4	45.8	60.3	
1999	186.8	63.6	46.1	2.0	4.7	61.2	0.1	59.1	173.2	423.6	63.6	46.1	61.2	
2000	176.8	69.6	47.0	5.0	4.2	60.1	(s)	49.2	165.4	411.8	69.6	47.0	60.1	
2001	184.4	66.5	49.3	5.3	4.3	60.4	(s)	37.1	156.4	407.3	66.5	49.3	60.5	
2002	166.3	71.0	47.4	5.6	4.4	61.6	0.2	42.4	161.6	398.9	71.0	47.4	61.7	
2003	189.0	70.0	46.3	8.2	4.7	61.5	(s)	36.5	157.1	416.2	70.0	46.3	61.6	
2004	195.6	68.6	58.1	9.1	5.7	62.2	0.3	40.8	176.1	440.3	68.6	58.1	62.3	
2005	199.5	71.1	66.7	9.3	6.3	60.2	0.7	39.7	182.9	453.5	71.1	66.7	61.1	
2006	194.3	75.1	71.0	9.1	5.9	60.9	0.8	46.5	194.3	463.7	75.1	71.0	62.0	
2007	202.5	75.1	80.3	11.2	5.8	60.3	0.0	48.9	206.4	484.0	75.1	80.3	62.1	
2008	203.3	77.6	74.4	11.3	4.7	57.1	0.0	44.9	192.4	473.3	77.6	74.4	59.4	
2009	172.8	76.6	66.6	9.9	4.5	57.6	0.4	43.7	182.8	432.2	76.6	66.6	60.3	
2010	203.3	72.9	56.9	9.0	R 6.4	57.9	(s)	41.8	R 172.0	R 448.2	72.9	56.9	60.3	
2011	165.7	79.5	60.8	9.7	R 6.3	56.3	(s)	45.4	R 178.6	423.7	79.5	60.9	59.4	
2012	157.3	75.2	57.8	8.0	R 6.4	56.8	(s)	45.1	R 174.0	406.6	75.2	57.8	60.2	
2013	166.1	82.3	60.7	7.7	R 4.9	57.9	(s)	42.8	R 174.0	R 422.4	82.3	60.8	61.4	
2014	175.4	80.1	56.5	8.8	R 5.4	58.6	(s)	40.5	R 169.8	R 425.2	80.1	56.6	62.1	
2015	178.4	77.4	48.7	9.0	R 4.8	60.2	0.0	43.7	R 166.4	R 422.3	77.4	48.7	64.6	
2016	161.9	77.6	50.0	8.1	R 6.2	60.9	0.0	43.6	R 168.8	R 408.3	77.6	50.1	65.6	
2017	156.1	83.3	51.9	9.0	R 7.4	60.8	0.0	45.3	R 174.3	R 413.7	83.3	51.9	65.5	
2018	152.3	90.8	53.1	9.6	R 7.6	60.0	0.0	42.9	R 173.2	R 416.3	90.8	53.2	64.6	
2019	159.2	92.6	54.6	11.8	R 6.7	60.0	0.0	43.7	R 176.7	R 428.6	92.6	54.6	64.7	
2020	98.9	87.5	57.7	10.8	6.8	56.3	0.0	44.2	175.8	362.2	87.5	57.8	60.7	

^a Supplemental gaseous fuels (SGF) and biofuels are consumed with natural gas and petroleum products. In this table, SGF and biofuels are removed from natural gas and petroleum so that a fossil fuel total can be calculated without double-counting. Biofuels are included in "Renewable Energy."

^b Hydrocarbon gas liquids, include natural gas liquids and refinery olefins.

^c 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."

^d Includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and the "other petroleum

products" category. See Technical Notes, Section 4.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

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.

Table CT2. Primary Energy Consumption Estimates, Selected Years, 1960-2020, Montana (Continued)
(Trillion Btu)

Year	Nuclear Electric Power	Renewable Energy										Net Interstate Flow of Electricity ^k	Electricity Net Imports ^l	Total ^f
		Hydro-electric Power ^{e,f}	Biomass					Geo-thermal ^f	Solar ^{f,j}	Wind	Total ^f			
			Wood and Waste ^{f,g}	Fuel Ethanol ^h	Biodiesel	Losses and Co-products ⁱ	Total ^f							
1960	0.0	62.4	7.5	NA	NA	NA	7.5	0.0	NA	NA	69.9	-11.1	(s)	227.5
1965	0.0	87.7	7.8	NA	NA	NA	7.8	0.0	NA	NA	95.5	-23.7	(s)	258.8
1970	0.0	91.8	6.6	NA	NA	NA	6.6	0.0	NA	NA	98.4	-4.4	(s)	322.8
1971	0.0	100.5	6.7	NA	NA	NA	6.7	0.0	NA	NA	107.3	-9.0	(s)	333.9
1972	0.0	98.0	6.3	NA	NA	NA	6.3	0.0	NA	NA	104.3	-8.5	(s)	342.4
1973	0.0	78.1	6.5	NA	NA	NA	6.5	0.0	NA	NA	84.6	-1.9	(s)	347.7
1974	0.0	101.5	5.0	NA	NA	NA	5.0	0.0	NA	NA	106.6	-9.4	(s)	351.9
1975	0.0	105.8	6.2	NA	NA	NA	6.2	0.0	NA	NA	112.0	-21.1	(s)	345.4
1976	0.0	128.6	7.2	NA	NA	NA	7.2	0.0	NA	NA	135.8	-55.2	(s)	365.1
1977	0.0	88.3	9.1	NA	NA	NA	9.1	0.0	NA	NA	97.3	-29.6	(s)	361.1
1978	0.0	121.3	10.9	NA	NA	NA	10.9	0.0	NA	NA	132.2	-51.4	(s)	383.4
1979	0.0	107.1	12.3	NA	NA	NA	12.3	0.0	NA	NA	119.4	-41.5	(s)	397.2
1980	0.0	103.5	11.1	NA	NA	NA	11.1	0.0	NA	NA	114.6	-39.7	(s)	360.2
1981	0.0	118.4	12.6	(s)	NA	(s)	12.6	0.0	NA	NA	131.0	-53.3	(s)	337.2
1982	0.0	114.2	12.4	0.1	NA	(s)	12.5	0.0	NA	NA	126.7	-41.2	(s)	317.0
1983	0.0	121.6	13.9	0.1	NA	0.1	14.0	0.0	NA	0.0	135.7	-49.7	(s)	323.4
1984	0.0	116.0	14.3	0.1	NA	0.1	14.5	0.0	0.0	(s)	130.5	-49.2	(s)	359.5
1985	0.0	106.3	14.4	0.1	NA	0.1	14.6	0.0	0.0	(s)	120.8	-49.0	0.2	370.2
1986	0.0	113.4	20.2	(s)	NA	0.1	20.4	0.0	0.0	(s)	133.8	-88.9	(s)	352.6
1987	0.0	93.0	17.9	(s)	NA	0.1	18.0	0.0	0.0	0.0	111.0	-87.6	0.1	329.2
1988	0.0	85.0	18.6	(s)	NA	0.1	18.7	0.0	0.0	0.0	103.7	-121.8	(s)	341.8
1989	0.0	99.8	10.7	(s)	NA	0.1	10.8	0.1	(s)	0.0	110.8	-128.6	0.1	351.8
1990	0.0	111.5	11.7	(s)	NA	0.1	11.8	0.1	(s)	0.0	123.4	-128.6	0.2	350.6
1991	0.0	124.9	17.1	(s)	NA	0.1	17.2	0.1	(s)	0.0	142.3	-153.1	0.1	355.3
1992	0.0	85.5	10.0	(s)	NA	0.1	10.2	0.1	(s)	(s)	95.8	-127.0	0.1	349.4
1993	0.0	99.1	9.7	0.1	NA	0.0	9.8	0.1	(s)	0.0	109.0	-106.9	(s)	367.8
1994	0.0	84.1	10.1	0.0	NA	0.1	10.2	0.1	(s)	0.0	94.4	-118.2	(s)	371.9
1995	0.0	110.8	16.4	0.1	NA	0.1	16.6	0.1	(s)	0.0	127.5	-126.5	(s)	391.9
1996	0.0	142.6	15.7	0.0	NA	(s)	15.8	0.1	(s)	0.0	158.5	-129.3	0.1	397.8
1997	0.0	136.9	16.2	0.0	NA	(s)	16.2	0.1	(s)	0.0	153.3	-170.5	(s)	367.6
1998	0.0	113.4	14.7	(s)	NA	(s)	14.8	0.1	(s)	0.0	128.3	-144.1	0.1	391.3
1999	0.0	141.3	15.3	(s)	NA	(s)	15.4	0.3	(s)	0.0	157.0	-184.6	-0.1	395.9
2000	0.0	98.2	15.3	(s)	NA	(s)	15.3	0.3	(s)	0.0	113.8	-114.9	(s)	410.6
2001	0.0	68.3	11.9	0.1	(s)	(s)	12.0	0.3	(s)	0.0	80.7	-130.1	(s)	357.8
2002	0.0	97.3	11.0	0.1	(s)	(s)	11.1	0.3	(s)	0.0	108.7	-126.2	0.2	381.6
2003	0.0	88.1	12.0	0.1	(s)	(s)	12.1	0.3	(s)	0.0	100.5	-136.9	(s)	379.7
2004	0.0	88.7	12.5	0.1	(s)	0.0	12.7	0.3	(s)	0.0	101.6	-140.1	-0.1	401.7
2005	0.0	95.9	17.8	0.9	(s)	0.0	18.7	0.3	(s)	0.0	114.9	-146.3	(s)	422.1
2006	0.0	100.5	17.1	1.1	(s)	0.0	18.2	0.3	(s)	4.3	123.3	-144.7	-0.7	441.7
2007	0.0	92.6	20.0	1.8	(s)	0.0	21.8	0.3	(s)	4.9	119.6	-133.5	-0.2	469.9
2008	0.0	98.5	18.5	2.3	(s)	(s)	20.8	0.3	(s)	5.8	125.4	-141.2	-0.8	456.7
2009	0.0	92.8	12.7	2.6	(s)	(s)	15.4	0.3	(s)	8.0	116.5	-120.4	-1.0	427.2
2010	0.0	91.8	13.5	2.4	(s)	0.0	16.0	0.3	(s)	9.1	117.2	-159.0	-1.3	R 405.1
2011	0.0	122.4	5.3	3.1	0.1	0.0	8.4	0.4	(s)	12.3	143.5	-161.7	-1.3	R 404.3
2012	0.0	107.4	4.6	3.4	0.1	0.0	8.0	0.3	0.1	12.0	127.8	-136.7	-0.6	397.1
2013	0.0	92.0	5.3	3.6	0.1	0.0	9.0	0.3	0.1	16.7	118.1	-132.8	-1.2	R 406.6
2014	0.0	109.2	5.7	3.5	(s)	0.0	9.3	0.3	0.1	18.8	137.7	-154.4	-3.3	R 405.3
2015	0.0	92.1	14.1	4.4	(s)	0.0	18.6	0.3	0.1	18.3	129.5	-147.5	-0.6	R 403.6
2016	0.0	93.1	14.8	4.7	0.1	(s)	19.5	0.3	0.1	19.8	132.8	-135.1	0.4	R 406.4
2017	0.0	100.8	14.9	4.7	(s)	(s)	19.6	0.3	0.3	19.9	R 141.0	-132.5	0.7	R 422.9
2018	0.0	103.8	R 18.8	4.6	(s)	(s)	23.4	0.3	0.5	19.6	147.6	-126.0	-1.7	R 436.3
2019	0.0	89.1	R 18.2	4.7	(s)	(s)	22.9	0.3	0.5	21.1	133.9	-113.9	-2.7	R 445.9
2020	0.0	94.3	15.9	4.4	(s)	(s)	20.4	0.3	0.6	26.8	142.4	-71.3	-3.9	429.3

^e Conventional hydroelectric power. For 1960 through 1989, includes pumped-storage hydroelectricity, which cannot be separately identified.

^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.

^g Wood, wood-derived fuels, and biomass waste. Prior to 2001, includes non-biomass waste.

^h Excludes denaturant. Because of differences in data sources and estimation methods, the ratio of fuel ethanol consumption and motor gasoline consumption should not be interpreted as the average ethanol blend rate. Pre-2005 estimates are not comparable to those for later years. See Section 5 of Technical Notes.

ⁱ Losses and co-products from the production of biodiesel and fuel ethanol.

^j Solar thermal and photovoltaic energy.

^k Includes the energy losses associated with the generation, transmission, and distribution of the electricity flowing across state lines. A positive number indicates that more electricity came into the state than went out of the state during the year.

Pre-1990 estimates are not comparable to those for later years. See Section 6 of Technical Notes for an explanation of changes in methodology.

^l Electricity traded with Canada and Mexico. Calculated by converting net imports in kilowatt-hours by 3,412 Btu per kilowatt-hour.

NA = Not available.

Where shown, R = Revised data and (s) = Value less than +0.05 and greater than -0.05 trillion Btu.

Notes: Totals may not equal sum of components due to independent rounding. The continuity of these data series estimates may be affected by changing data sources and estimation methodologies. See the Technical Notes for each type of energy.

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.