



State Agencies Estimated Vehicle Fuel Use and Costs

Fiscal Year 2022 Report
June 22, 2023

Facilities include:

University of Wisconsin System
Department of Administration
Department of Corrections
Department of Health Services
Department of Veterans Affairs
Department of Public Instruction
Department of Natural Resources
Department of Transportation

Wisconsin Office of Energy Innovation

State of Wisconsin Agencies Estimated Vehicle Fuel Use and Costs

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Department of Transportation

Report for Fiscal Year 2022
Final Draft June 24, 2023

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- University of Wisconsin System
- Department of Administration
- Department of Corrections
- Department of Health Services
- Department of Public Instruction
- Department of Veterans Affairs
- Department of Natural Resources
- Department of Transportation

This report is a work in progress to provide estimated vehicle fuel use and costs intended for State of Wisconsin agencies as an initial assessment of vehicle fuel use and to develop electric vehicle (EV) conversion and fuel conservation plans. Future reports are planned to document EV and conservation plans based on coordinated input from agency vehicle fleet managers.

This material is based upon work supported by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy (EERE) under the State Energy Program Award Number DE-EE0008669.

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State of Wisconsin estimated vehicle fuel use and costs use were compiled, and report prepared, by Innovative Business Engineering, McFarland, Wisconsin.

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Executive Summary

Transporting people and goods accounts for 1.8 trillion tons, or 27 percent, of U.S. greenhouse gas (GHG) emissions and approximately 70 percent of all U.S. oil use (or about 13.1 million barrels of oil per day, excluding biofuels). With the burning of gasoline and diesel accounting for 59 percent and 24 percent of the transportation sector’s emissions, respectively, significant reductions in auto and truck emissions are essential to climate change mitigation efforts. Fleet electrification coupled with renewable electricity generation are gaining traction, along with cleaner alternative fuels, but increasing the fleet’s energy efficiency remains critical. Increasing vehicle fuel efficiency is a cost-effective way to significantly lower the transportation sector’s emissions and reduce vehicle lifecycle cost without requiring major infrastructure adaptations. In addition, fuel efficiency standards can have beneficial health effects as they lower other forms of harmful emissions, such as air toxics and ultrafine particulates.

Beginning in Fiscal Year 2021 (FY2021), the State Energy Report has been expanded to include estimated vehicle fuel use and costs accounting reports to record, track, and communicate the estimated vehicle fuel use for state agencies. The methodology for estimating vehicle use is based on monthly agency fuels for vehicle expenditures in *OpenBook Wisconsin*, along with corresponding monthly local historical gas prices. The annual State Agency total vehicle fuel expenditures and estimated vehicle fuel use is summarized below (note FY20-FY22 Covid 19 shutdown impacts):

Fiscal Year	Vehicle Fuel Expenditures	Estimated Average Price \$/Gallon	Estimated Gallons	Estimated GHG CO2e Emissions Tons (2000 lb/Ton)
2013	\$ 17,706,248	\$ 3.55	4,988,630	48,889
2014	\$ 17,200,932	\$ 3.42	5,031,526	49,309
2015	\$ 13,666,691	\$ 2.76	4,954,844	48,557
2016	\$ 9,544,739	\$ 2.14	4,464,737	43,754
2017	\$ 10,021,510	\$ 2.19	4,584,519	44,928
2018	\$ 11,792,381	\$ 2.43	4,845,759	47,488
2019	\$ 11,685,247	\$ 2.52	4,629,679	45,371
2020	\$ 9,608,852	\$ 2.34	4,113,624	40,314
2021	\$ 6,849,841	\$ 2.29	2,993,678	29,338
2022	\$ 10,914,866	\$ 3.33	3,279,245	32,137

This report and estimates are works in progress as a starting point to provide estimated vehicle fuel use and costs intended for State of Wisconsin agencies as an initial assessment of vehicle fuel use and to develop electric vehicle (EV) conversion and fuel conservation plans. **Future reports should document EV and conservation plans based on coordinated input from agency vehicle fleet managers for tracking of vehicle fuel use and costs per mile, EV kwh per mile and CO2e GHG emissions (CO2e lb per vehicle mile).** More efficient vehicles that run on lower carbon-emitting fuels are critical to meeting energy security and climate protection goals. The State of Wisconsin promotes improvements in vehicle fuel economy, while working to accelerate a transition from petroleum-based fuels to other liquid and non-liquid “fuels” derived from sustainable renewable sources.

The Estimated Vehicle Fuel Use and Costs Reports are updated from time-to-time to reflect vehicle fuel data, accounting data and state agency fleet information input. Please refer to <https://psc.wi.gov/Pages/ServiceType/OEI/WisconsinEnergyStatistics.aspx> for the latest and updated State Agencies Estimated Vehicle Fuel Use and Costs Report.

Introduction

BACKGROUND

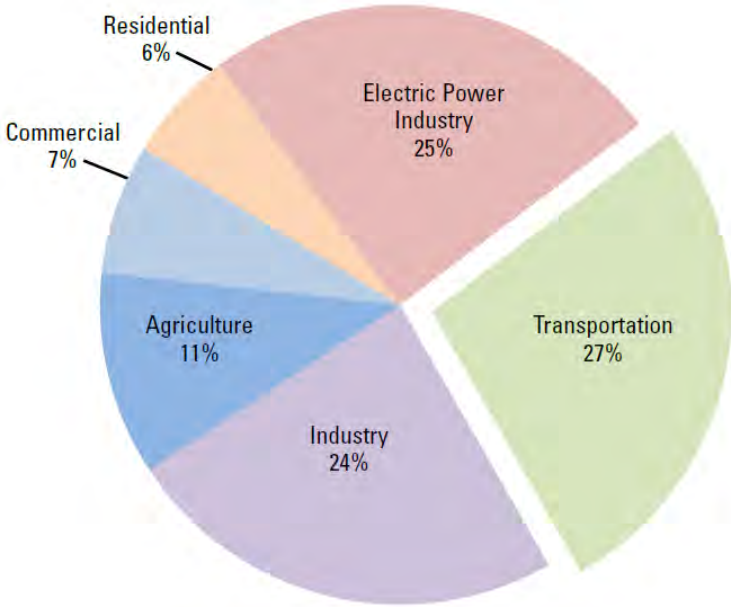
In order to understand the effects of building energy use, water use, vehicle fuel use and GHG emissions on water quality, air quality and human health, there needs to be recurring reports and studies on these effects. The State Facilities Energy Use, Energy GHG CO₂e Emissions, Estimated Water Use and Estimated Vehicle Fuel Use Reports are also useful for any measurement towards progress of conservation and GHG CO₂e emissions goals. This will also allow statewide agencies and decision-makers to collaborate to make better-informed decisions on how to reduce use and emissions. Without these data reports and studies, it would be hard to measure progress and see if implemented policies have yielded the intended impacts. These State Reports are developed to track State of Wisconsin facilities' consumption and GHG emissions to measure and help inform agencies regarding progress in Wisconsin's conservation and emissions-reduction goals.

Beginning in FY2021, the Estimated Vehicle Fuel Use and Costs Report was developed to for State Agencies as a work in progress and starting point to provide estimated vehicle fuel use and costs initial assessments. Future reports are planned to document EV and conservation plans based on coordinated input from agency sustainability coordinators and vehicle fleet managers for tracking of vehicle fuel use and costs per mile, EV kwh per mile and CO₂e GHG emissions (CO₂e lb per vehicle mile). More efficient vehicles that run on lower carbon-emitting fuels are critical to meeting energy security and climate protection goals. The State of Wisconsin promotes improvements in vehicle fuel economy, while working to accelerate a transition from petroleum-based fuels to other liquid and non-liquid "fuels" derived from sustainable renewable sources.

VEHICLE FUEL USE AND COST ACCOUNTING AND TRACKING

The vehicle fuel accounting and tracking reports were designed to record, track, and communicate the estimated State Agencies transportation vehicle fuel use and Greenhouse Gas Emissions. The transportation sector is one of the largest contributors to greenhouse gas (GHG) emissions. According to the Inventory of U.S. Greenhouse Gas Emissions 1990-2020, the transportation sector accounted for the largest portion (27%) of total U.S. GHG emissions in 2020. Cars, trucks, commercial aircraft, and railroads, among other sources, all contribute to transportation end-use sector emissions.

Calculations for GHG CO₂e emissions were based on estimated gallons of vehicle fuel use multiplied times an emissions factor of 19.60 pounds GHG emissions per gallon (EF 19.60) and 2000 pounds per ton.



Share of U.S. GHG Emissions by Economic Sector, 2020^{3,4}

Note: Totals may not add to 100% due to rounding.

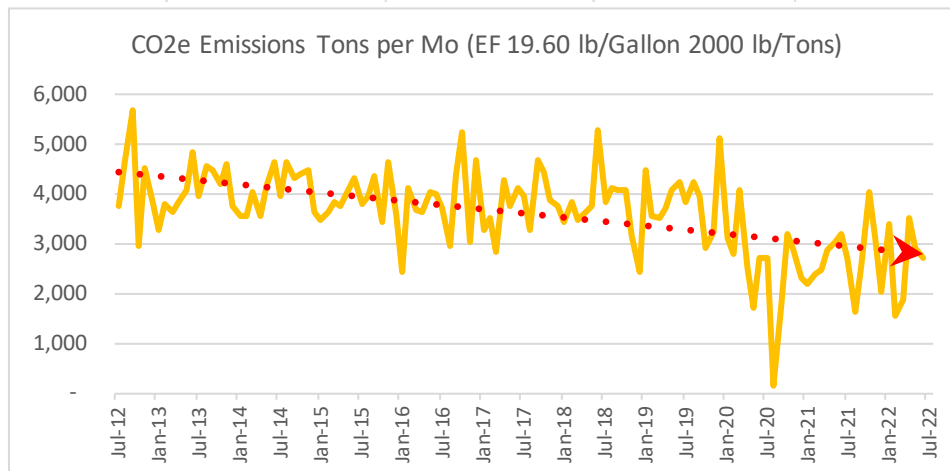
Statewide Sum of Agencies Estimated Vehicle Fuel Use and Costs

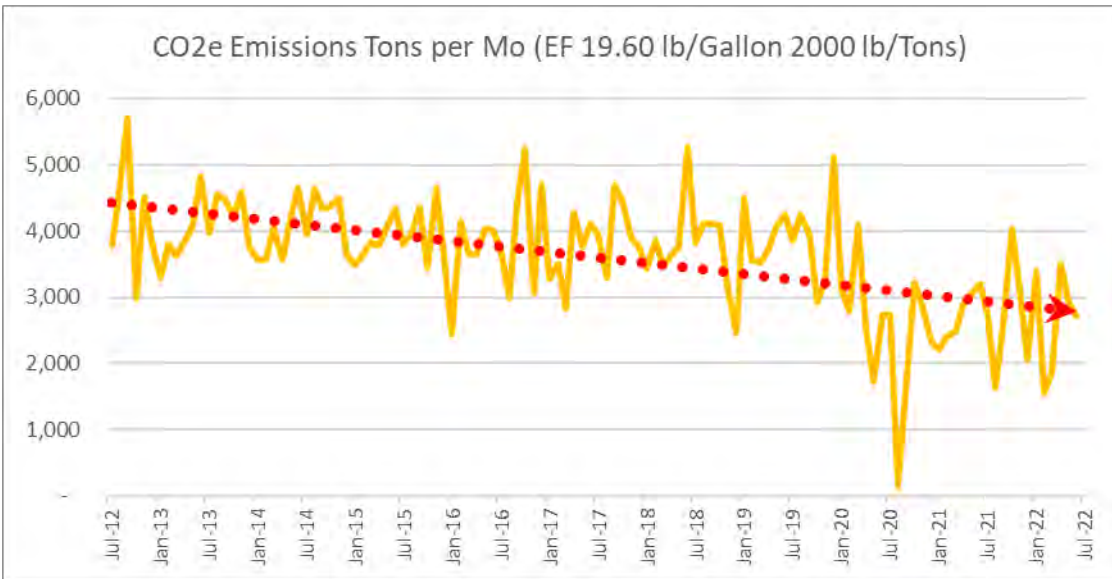
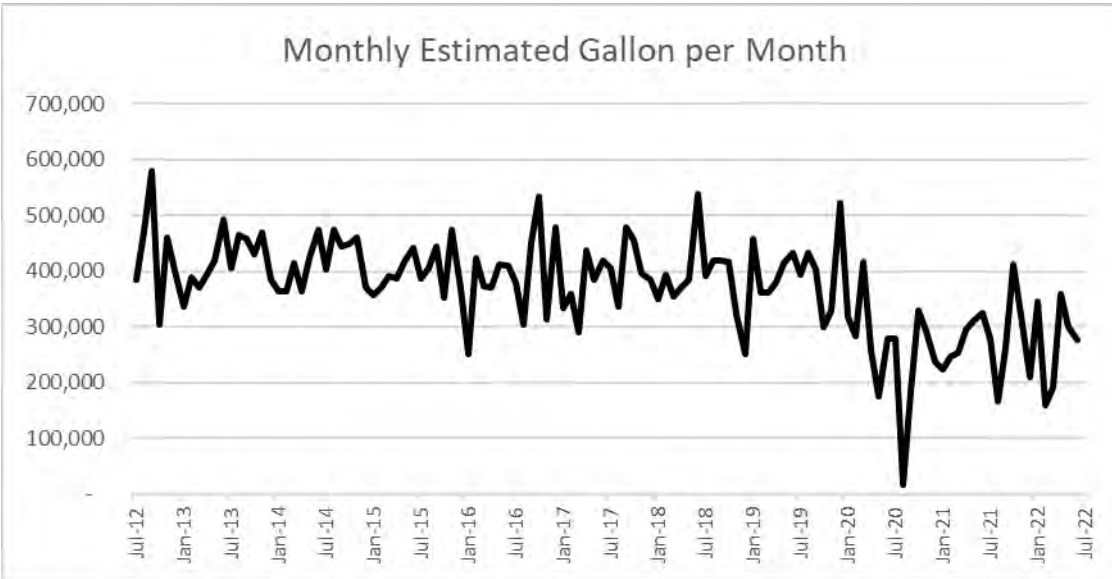
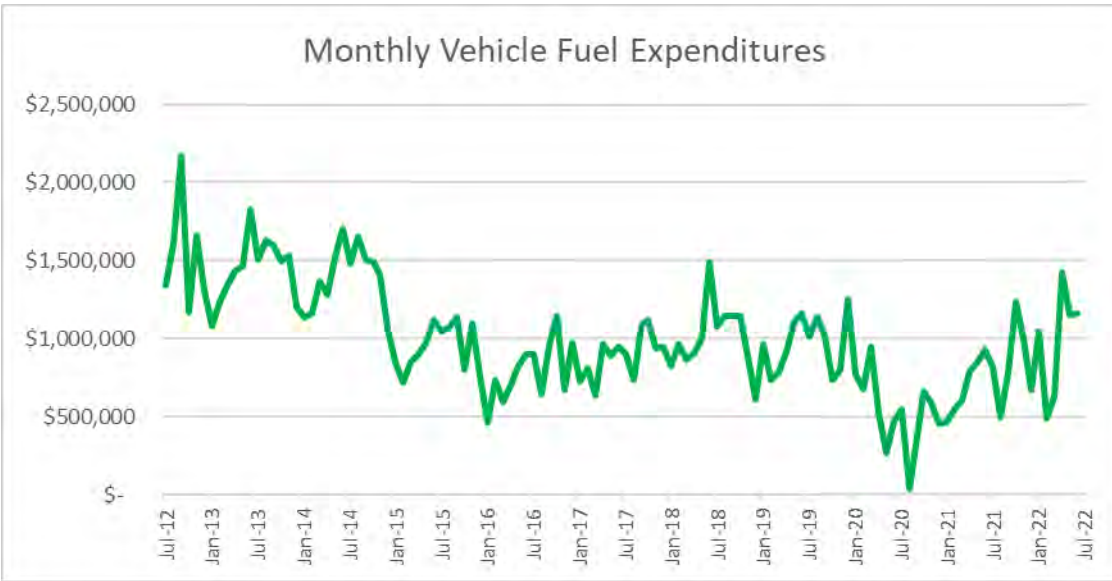


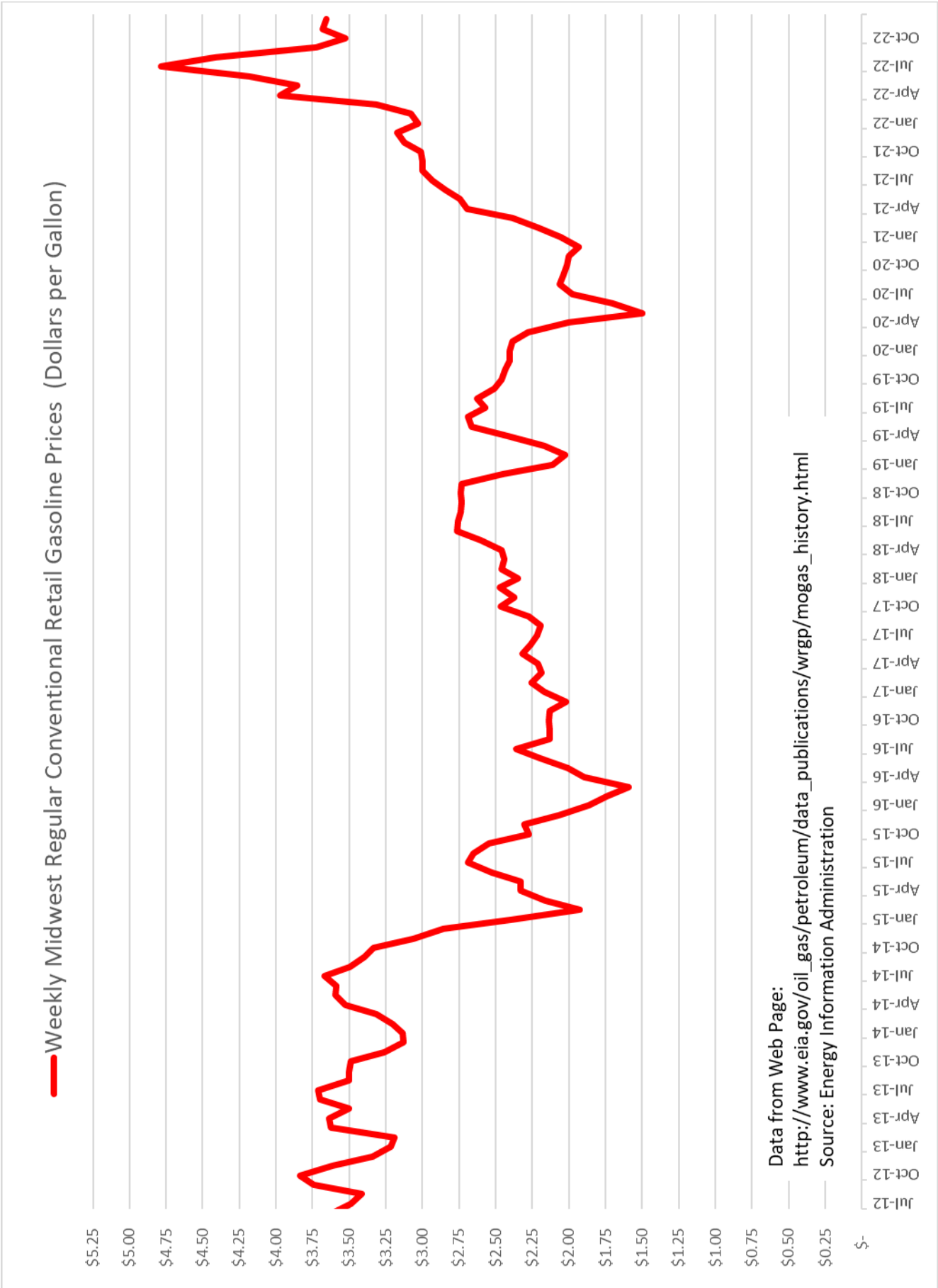
Total Estimated Agency Vehicle Fuel Use & Costs based on <https://openbook.wi.gov/data> expenditures:

State FY13-FY22 Vehicle Fuel Expenditures w/Estimated Use & CO2e

Fiscal Year	Vehicle Fuel Expenditures	Estimated Gallons	EF 19.60 lb/Gallon CO2 Emissions (2000 lb/Tons)	CO2e Change from FY2013 Baseline
2013	\$ 17,706,248	4,988,630	48,889	0.00%
2014	\$ 17,200,932	5,031,526	49,309	0.86%
2015	\$ 13,666,691	4,954,844	48,557	-0.68%
2016	\$ 9,544,739	4,464,737	43,754	-10.50%
2017	\$ 10,021,510	4,584,519	44,928	-8.10%
2018	\$ 11,792,381	4,845,759	47,488	-2.86%
2019	\$ 11,685,247	4,629,679	45,371	-7.20%
2020	\$ 9,608,852	4,113,624	40,314	-17.54%
2021	\$ 6,849,841	2,993,678	29,338	-39.99%
2022	\$ 10,914,866	3,279,245	32,137	-34.27%







State of WI Totals

Vendor Name in OpenBook WI >\$10,000 FY19-FY22	FY19-FY22 Total	2019	2020	2021	2022
Sum of All State of WI Totals	\$ 39,058,806	\$ 11,685,247	\$ 9,608,852	\$ 6,849,841	\$ 10,914,866
US Bank Supplier for Fuel/Fleet Card	\$ 20,994,995	\$ 8,445,274	\$ 7,005,056	\$ 4,976,160	\$ 568,505
WEX Bank	\$ 7,755,312	\$ -	\$ -	\$ -	\$ 7,755,312
Cole Oil Co Inc	\$ 1,603,078	\$ 462,905	\$ 435,936	\$ 295,525	\$ 408,711
Voyager Fleet Systems	\$ 1,014,771	\$ 472,259	\$ 389,075	\$ 153,438	\$ -
EH Wolf & Sons	\$ 692,281	\$ 136,864	\$ 111,191	\$ 131,879	\$ 312,346
INSIGHT FS	\$ 593,881	\$ 264,216	\$ 210,656	\$ 96,606	\$ 22,404
MEFFERT OIL COMPANY INC	\$ 501,464	\$ 148,791	\$ 113,265	\$ 112,052	\$ 127,355
MEFFERT OIL CO INC	\$ 486,287	\$ 168,793	\$ 97,547	\$ 78,829	\$ 141,118
Corrections, Dept Of	\$ 466,243	\$ 65,759	\$ 54,909	\$ 122,428	\$ 223,146
NEW HORIZONS SUPPLY COOP	\$ 296,118	\$ 108,611	\$ 79,785	\$ 60,977	\$ 46,745
QUALITY STATE OIL CO INC	\$ 252,948	\$ 123,643	\$ 96,792	\$ 32,513	\$ -
Skoglund Oil Co Inc	\$ 240,079	\$ 108,207	\$ 101,151	\$ 30,471	\$ 250
EDWARD H WOLF & SONS INC	\$ 238,927	\$ -	\$ -	\$ 73,656	\$ 165,271
US BANK VOYAGER FLEET SYS	\$ 228,215	\$ 97,541	\$ 94,803	\$ 33,942	\$ 1,929
PETROLEUM TRADERS CORP	\$ 221,873	\$ 127,080	\$ 74,366	\$ 20,427	\$ -
COMO OIL & PROPANE	\$ 200,673	\$ 33,426	\$ 35,789	\$ 32,722	\$ 98,735
THALER OIL CO INC	\$ 191,997	\$ 68,056	\$ 56,487	\$ 30,368	\$ 37,086
WEBER OIL CO INC	\$ 187,264	\$ 9,565	\$ 9,143	\$ 47,372	\$ 121,183
Quality State Oil Co, Inc	\$ 177,542	\$ 83,914	\$ 66,752	\$ 23,904	\$ 2,972
RITCHIE LAKELAND OIL CO INC	\$ 174,806	\$ 65,069	\$ 55,386	\$ 14,175	\$ 40,175
VENTURE FUELS LLC	\$ 167,227	\$ -	\$ -	\$ 14,247	\$ 152,979
QUALITY PROPANE AND FUELS	\$ 165,184	\$ -	\$ -	\$ 31,012	\$ 134,172
SCULLY OIL CO INC	\$ 142,091	\$ 62,699	\$ 51,310	\$ 28,082	\$ -
US Bank Supplier for P-Card Payments	\$ 140,141	\$ 31,951	\$ 42,896	\$ 18,402	\$ 46,893
FRONTIER FS	\$ 124,691	\$ 22,247	\$ 21,260	\$ 31,656	\$ 49,529
Mansfield Oil Company of Gainesville Inc	\$ 123,079	\$ -	\$ -	\$ 32,481	\$ 90,597
COLE OIL CO. INC.	\$ 121,466	\$ 68,740	\$ 50,282	\$ 2,445	\$ -
MEFFERT OIL COMPANY, INC.	\$ 113,150	\$ 68,159	\$ 44,991	\$ -	\$ -
Midwest Industrial Fuels Inc	\$ 100,732	\$ 45,747	\$ 44,839	\$ 10,146	\$ -
Board of Regents UW System	\$ 98,687	\$ 30,750	\$ 45,406	\$ 22,531	\$ -
US BANK VOYAGER FLEET SYSTEMS	\$ 91,127	\$ 1,680	\$ -	\$ -	\$ 89,447
University Of Wisconsin-System	\$ 81,354	\$ 38,048	\$ 35,572	\$ 6,525	\$ 1,208
CONSOLIDATED ENERGY COMPANY	\$ 80,081	\$ -	\$ -	\$ 28,616	\$ 51,465
MIDWEST FUELS	\$ 68,871	\$ 41,805	\$ 27,066	\$ -	\$ -
US BANK CORPORATE PAYMENT SYS	\$ 67,994	\$ -	\$ -	\$ 67,994	\$ -
VOYAGER FLEET SYSTEMS INC	\$ 61,991	\$ 27,977	\$ -	\$ 22,398	\$ 11,616
HEINZ CTC INC	\$ 59,139	\$ 28,321	\$ 4,296	\$ 3,717	\$ 22,804
Us Bank	\$ 52,870	\$ -	\$ -	\$ 52,996	\$ (125)
Medford Cooperative Inc	\$ 50,850	\$ 21,113	\$ 16,440	\$ 6,300	\$ 6,998
E H WOLF & SONS INC	\$ 49,412	\$ 27,595	\$ 18,906	\$ 2,911	\$ -
ALLEGIANT OIL	\$ 46,886	\$ -	\$ -	\$ -	\$ 46,886
Hopson Oil Llc	\$ 43,085	\$ 22,284	\$ 12,577	\$ 8,224	\$ -
UNITED COOPERATIVE	\$ 41,868	\$ 12,106	\$ 10,702	\$ 8,150	\$ 10,910
Us Treasury	\$ 31,056	\$ 15,307	\$ 377	\$ 15,195	\$ 177
NEW HORIZONS SUPPLY COOPERATIVE	\$ 30,476	\$ 12,529	\$ 10,360	\$ 7,587	\$ -
US BANK VOYAGER FLEET SYSTEM INC	\$ 28,018	\$ 18,612	\$ 8,874	\$ 532	\$ -
Capital Data Inc	\$ 27,116	\$ -	\$ -	\$ -	\$ 27,116
WEBER OIL CO	\$ 25,306	\$ 21,841	\$ 3,466	\$ -	\$ -
J F Ahern Co	\$ 20,380	\$ -	\$ 20,380	\$ -	\$ -
Wi Aviation Four Lakes Inc	\$ 19,840	\$ -	\$ -	\$ 19,840	\$ -
HEINZ OIL COMPANY	\$ 14,873	\$ 4,906	\$ 7,174	\$ 2,793	\$ -
Town of Barnes	\$ 13,929	\$ 2,461	\$ 811	\$ 1,700	\$ 8,958
City Of Platteville	\$ 13,679	\$ -	\$ -	\$ -	\$ 13,679
CORPORATE PAYMENT SYSTEMS	\$ 12,165	\$ 12,165	\$ -	\$ -	\$ -
Department of Ag Trade & Consumer Protcn	\$ 10,789	\$ 983	\$ 668	\$ 434	\$ 8,704

University of Wisconsin System (UWS)

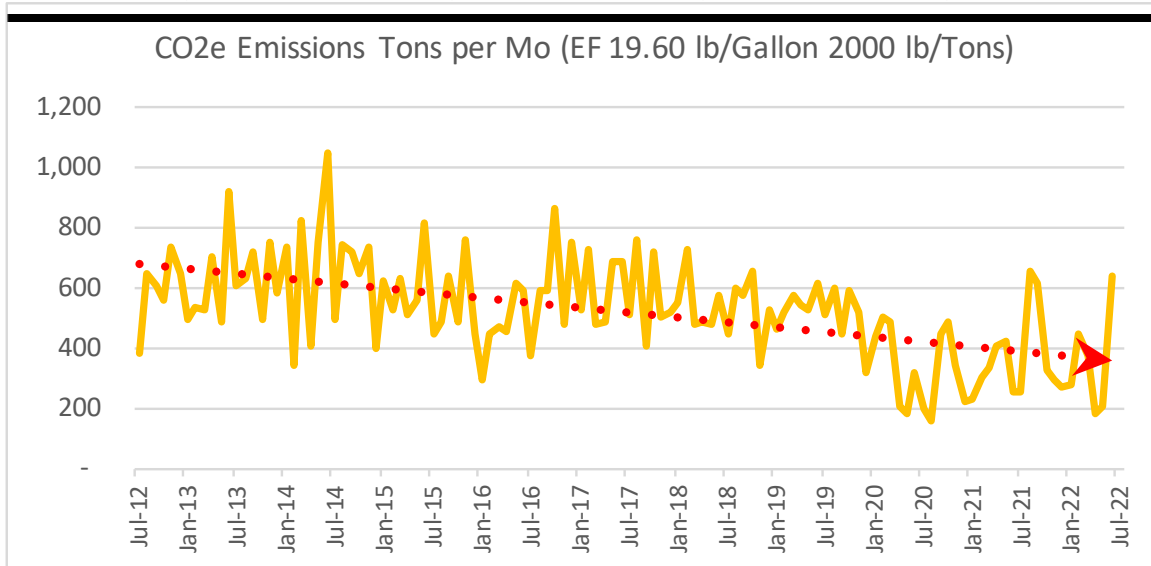


Estimated Agency Vehicle Fuel Use & Costs based on <https://openbook.wi.gov/data> expenditures:

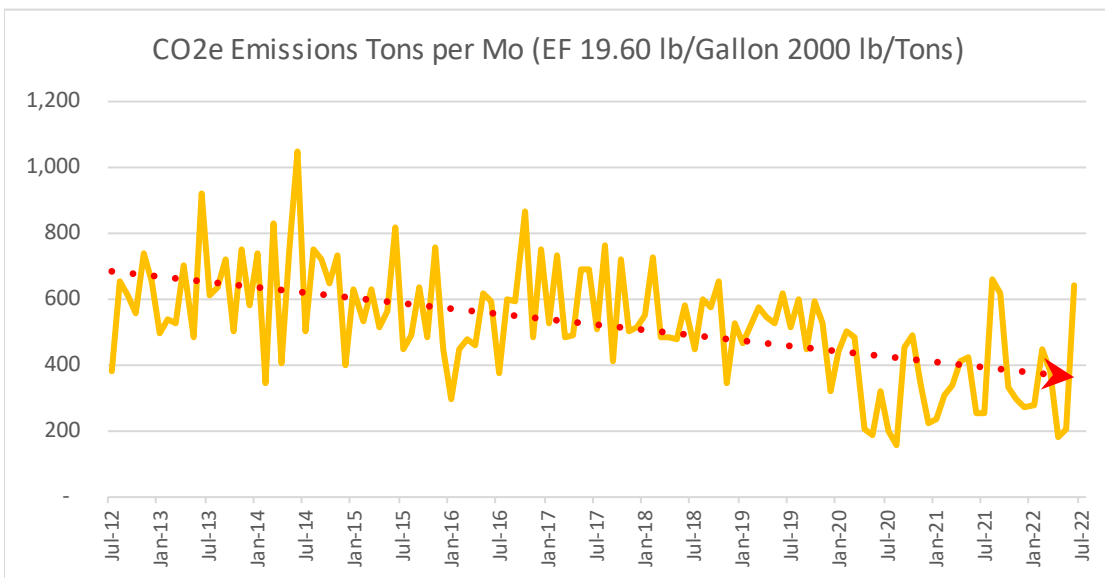
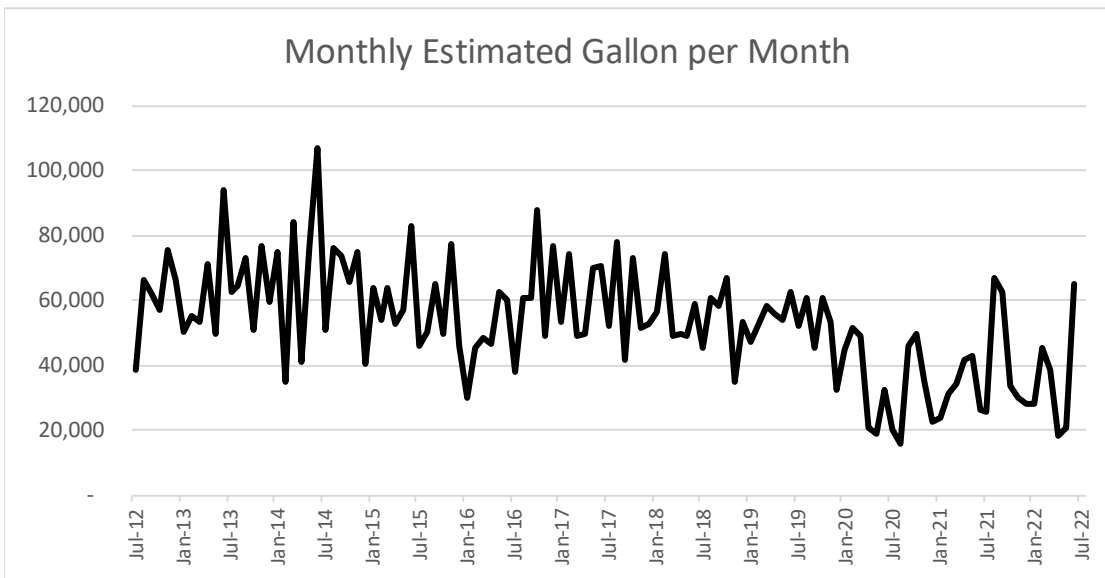
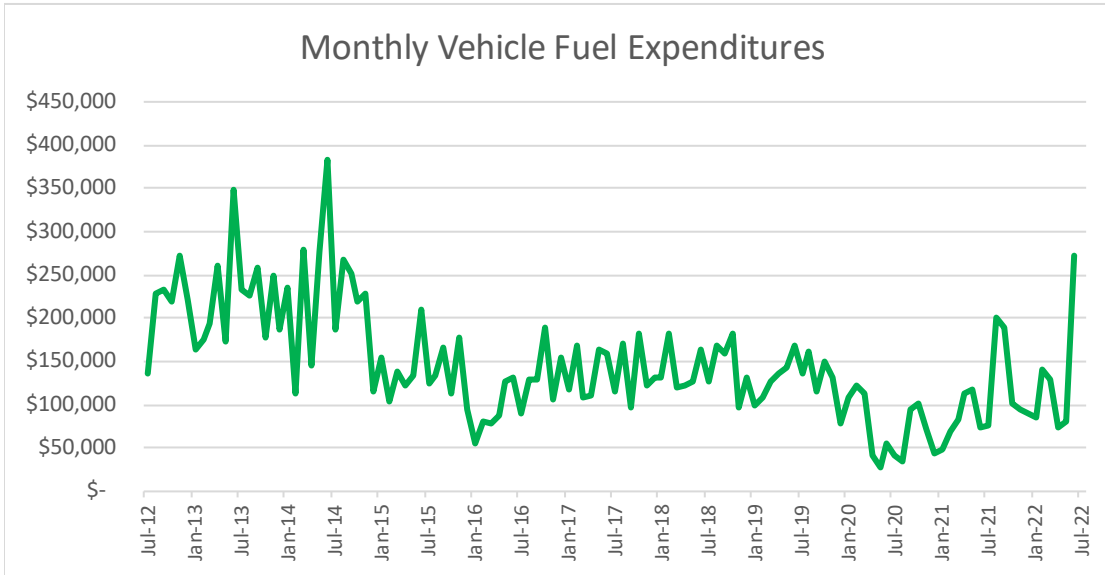
University of Wisconsin System

FY13-FY22 Vehicle Fuel Expenditures w/Estimated Use & CO2e

Fiscal Year	Vehicle Fuel Expenditures	Estimated Gallons	EF 19.60 lb/Gallon CO2 Emissions (2000 lb/Tons)	CO2e Change from FY2013 Baseline
2013	\$ 2,624,758	741,137	7,263	0.00%
2014	\$ 2,762,665	807,446	7,913	8.95%
2015	\$ 2,132,570	758,036	7,429	2.28%
2016	\$ 1,368,350	627,961	6,154	-15.27%
2017	\$ 1,622,856	741,981	7,271	0.11%
2018	\$ 1,662,361	686,512	6,728	-7.37%
2019	\$ 1,647,324	653,012	6,400	-11.89%
2020	\$ 1,238,004	524,381	5,139	-29.25%
2021	\$ 888,106	391,184	3,834	-47.22%
2022	\$ 1,530,869	464,719	4,554	-37.30%



University of Wisconsin System



University of Wisconsin System

Vendor Name in OpenBook WI >\$1000 FY19-FY22	FY19-FY22 Total	2019	2020	2021	2022
Sum of All University of Wisconsin System	\$ 5,304,302	\$ 1,647,324	\$ 1,238,004	\$ 888,106	\$ 1,530,869
Voyager Fleet Systems	\$ 1,014,771	\$ 472,259	\$ 389,075	\$ 153,438	\$ -
WEX Bank	\$ 504,397	\$ -	\$ -	\$ -	\$ 504,397
MEFFERT OIL COMPANY INC	\$ 501,464	\$ 148,791	\$ 113,265	\$ 112,052	\$ 127,355
QUALITY STATE OIL CO INC	\$ 252,948	\$ 123,643	\$ 96,792	\$ 32,513	\$ -
EDWARD H WOLF & SONS INC	\$ 238,927	\$ -	\$ -	\$ 73,656	\$ 165,271
US BANK VOYAGER FLEET SYS	\$ 228,215	\$ 97,541	\$ 94,803	\$ 33,942	\$ 1,929
PETROLEUM TRADERS CORP	\$ 221,873	\$ 127,080	\$ 74,366	\$ 20,427	\$ -
THALER OIL CO INC	\$ 191,997	\$ 68,056	\$ 56,487	\$ 30,368	\$ 37,086
INSIGHT FS	\$ 184,370	\$ 81,979	\$ 66,833	\$ 33,739	\$ 1,819
NEW HORIZONS SUPPLY COOP	\$ 183,070	\$ 78,361	\$ 51,372	\$ 38,644	\$ 14,694
Skoglund Oil Co Inc	\$ 172,734	\$ 86,460	\$ 61,406	\$ 24,619	\$ 250
VENTURE FUELS LLC	\$ 167,227	\$ -	\$ -	\$ 14,247	\$ 152,979
QUALITY PROPANE AND FUELS	\$ 165,184	\$ -	\$ -	\$ 31,012	\$ 134,172
FRONTIER FS	\$ 124,691	\$ 22,247	\$ 21,260	\$ 31,656	\$ 49,529
COLE OIL CO. INC.	\$ 121,466	\$ 68,740	\$ 50,282	\$ 2,445	\$ -
MEFFERT OIL COMPANY, INC.	\$ 113,150	\$ 68,159	\$ 44,991	\$ -	\$ -
Mansfield Oil Company of Gainesville Inc	\$ 102,391	\$ -	\$ -	\$ 27,562	\$ 74,830
US BANK VOYAGER FLEET SYSTEMS	\$ 91,127	\$ 1,680	\$ -	\$ -	\$ 89,447
CONSOLIDATED ENERGY COMPANY	\$ 80,081	\$ -	\$ -	\$ 28,616	\$ 51,465
MIDWEST FUELS	\$ 68,871	\$ 41,805	\$ 27,066	\$ -	\$ -
US BANK CORPORATE PAYMENT SYS	\$ 67,994	\$ -	\$ -	\$ 67,994	\$ -
VOYAGER FLEET SYSTEMS INC	\$ 61,991	\$ 27,977	\$ -	\$ 22,398	\$ 11,616
Us Bank	\$ 52,870	\$ -	\$ -	\$ 52,996	\$ (125)
E H WOLF & SONS INC	\$ 49,412	\$ 27,595	\$ 18,906	\$ 2,911	\$ -
ALLEGIANT OIL	\$ 46,886	\$ -	\$ -	\$ -	\$ 46,886
Cole Oil Co Inc	\$ 36,550	\$ -	\$ -	\$ 22,753	\$ 13,798
NEW HORIZONS SUPPLY COOPERATIVE	\$ 30,476	\$ 12,529	\$ 10,360	\$ 7,587	\$ -
US BANK VOYAGER FLEET SYSTEM INC	\$ 28,018	\$ 18,612	\$ 8,874	\$ 532	\$ -
Medford Cooperative Inc	\$ 26,315	\$ 8,468	\$ 4,793	\$ 6,056	\$ 6,998
WEBER OIL CO	\$ 25,306	\$ 21,841	\$ 3,466	\$ -	\$ -
J F Ahern Co	\$ 20,380	\$ -	\$ 20,380	\$ -	\$ -
HEINZ OIL COMPANY	\$ 14,873	\$ 4,906	\$ 7,174	\$ 2,793	\$ -
City Of Platteville	\$ 13,679	\$ -	\$ -	\$ -	\$ 13,679
CORPORATE PAYMENT SYSTEMS	\$ 12,165	\$ 12,165	\$ -	\$ -	\$ -
PLATTEVILLE, CITY OF	\$ 9,847	\$ -	\$ -	\$ -	\$ 9,847
PLATTEVILLE PARKS & RECR TN DEPT	\$ 9,412	\$ -	\$ -	\$ -	\$ 9,412
Ritchie Lakeland Oil Inc	\$ 9,055	\$ -	\$ -	\$ 2,087	\$ 6,968
RITCHIE LAKELAND OIL CO	\$ 7,122	\$ 2,431	\$ 3,016	\$ 1,676	\$ -
QUALITY STATE OIL COMPANY	\$ 6,479	\$ 1,934	\$ 1,783	\$ 2,762	\$ -
WEBER OIL COMPANY INC	\$ 6,133	\$ 4,017	\$ -	\$ 2,116	\$ -
THALER OIL CO	\$ 4,861	\$ 4,861	\$ -	\$ -	\$ -
WI DEPARTMENT OF ADMINISTRATION	\$ 4,163	\$ 1,025	\$ 2,777	\$ 360	\$ -
US BANK CORPORATE PAYMENT SYSTEMS	\$ 3,515	\$ -	\$ 3,634	\$ (119)	\$ -
REMINGTON OIL COMPANY INC	\$ 3,396	\$ -	\$ -	\$ -	\$ 3,396
VOYAGER FLEET SYSTEMS, INC.	\$ 3,015	\$ 1,160	\$ 1,856	\$ -	\$ -
E H WOLF & SONS	\$ 2,909	\$ -	\$ -	\$ 2,909	\$ -
NECEDAH NATL WILDLIFE REFUGE	\$ 2,800	\$ 2,800	\$ -	\$ -	\$ -
APPLETON OIL CO INC	\$ 2,252	\$ 1,882	\$ 370	\$ -	\$ -
Superieur Petrol & Convenience	\$ 1,931	\$ -	\$ 705	\$ 319	\$ 906
ZURBUCHEN OIL INC	\$ 1,512	\$ 1,512	\$ -	\$ -	\$ -
AMERICAN EXPRESS TRS INC	\$ 1,247	\$ 1,005	\$ -	\$ 242	\$ -
AMERIGAS PROPANE LP	\$ 1,027	\$ 265	\$ 137	\$ 176	\$ 449



State of Wisconsin

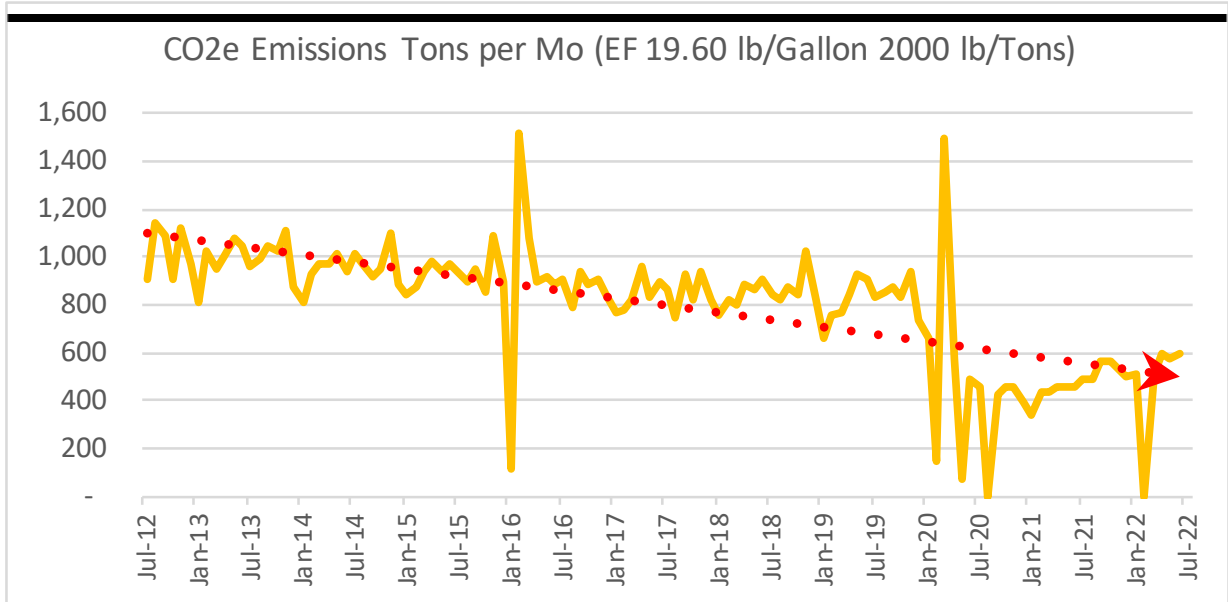
Department of Administration

Estimated Agency Vehicle Fuel Use & Costs based on <https://openbook.wi.gov/data> expenditures:

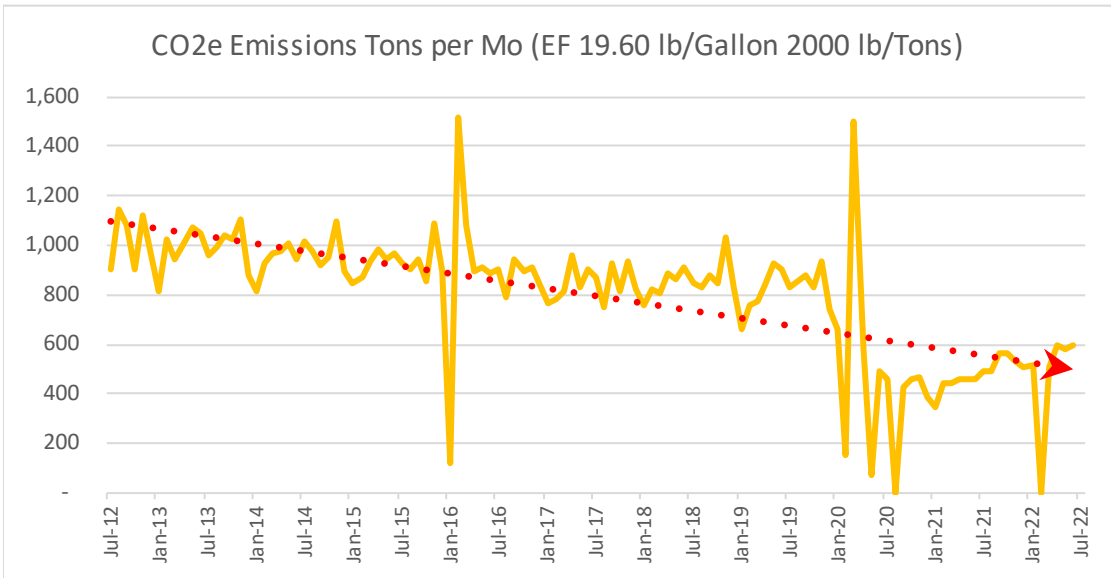
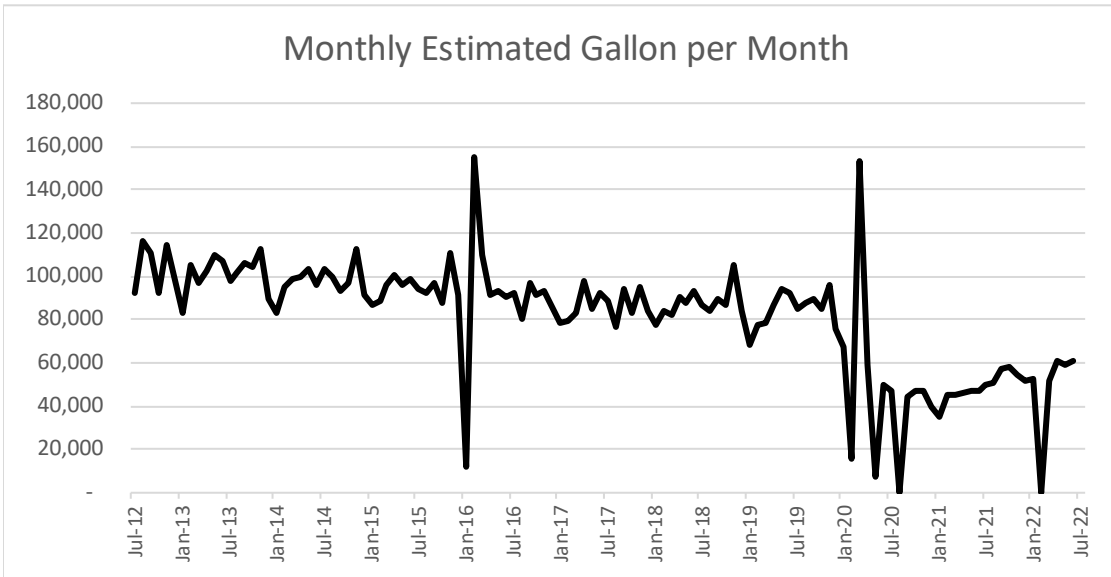
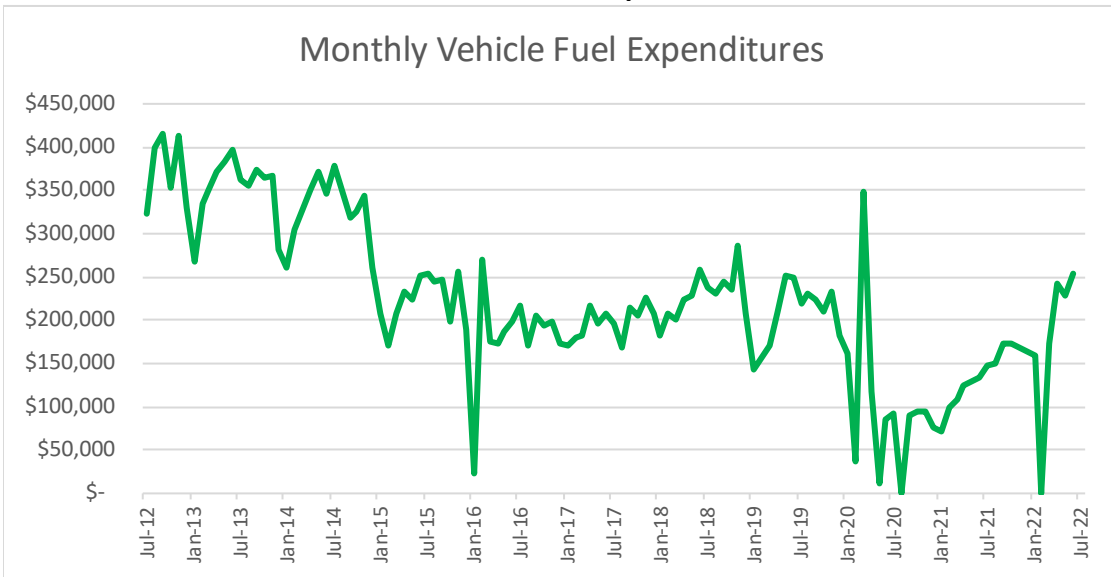
Administration, Department of

FY13-FY22 Vehicle Fuel Expenditures w/Estimated Use & CO2e

Fiscal Year	Vehicle Fuel Expenditures	Estimated Gallons	EF 19.60 lb/Gallon CO2 Emissions (2000 lb/Tons)	CO2e Change from FY2013 Baseline
2013	\$ 4,336,645	1,228,488	12,039	0.00%
2014	\$ 4,061,300	1,187,887	11,641	-3.30%
2015	\$ 3,265,432	1,163,173	11,399	-5.32%
2016	\$ 2,415,822	1,125,282	11,028	-8.40%
2017	\$ 2,314,742	1,055,246	10,341	-14.10%
2018	\$ 2,517,206	1,037,416	10,167	-15.55%
2019	\$ 2,624,788	1,033,410	10,127	-15.88%
2020	\$ 2,057,994	869,929	8,525	-29.19%
2021	\$ 1,113,356	489,833	4,800	-60.13%
2022	\$ 2,032,644	606,704	5,946	-50.61%



Administration, Department of



Administration, Department of

Vendor Name in OpenBook WI >\$1000 FY19-FY22	FY19-FY22 Total	2019	2020	2021	2022
Sum of All Administration, Department of	\$ 7,828,782	\$ 2,624,788	\$ 2,057,994	\$ 1,113,356	\$ 2,032,644
US Bank Supplier for Fuel/Fleet Card	\$ 5,738,992	\$ 2,549,405	\$ 1,972,511	\$ 1,079,724	\$ 137,353
WEX Bank	\$ 1,883,606	\$ -	\$ -	\$ -	\$ 1,883,606
Board of Regents UW System	\$ 98,687	\$ 30,750	\$ 45,406	\$ 22,531	\$ -
University Of Wisconsin-System	\$ 81,354	\$ 38,048	\$ 35,572	\$ 6,525	\$ 1,208
Department of Ag Trade & Consumer Protcn	\$ 10,789	\$ 983	\$ 668	\$ 434	\$ 8,704
DEPARTMENT OF HEALTH SERVICES	\$ 7,260	\$ 3,961	\$ 2,348	\$ 436	\$ 515
University of Wisconsin System	\$ 3,589	\$ 168	\$ 45	\$ 3,377	\$ -

Department of Corrections

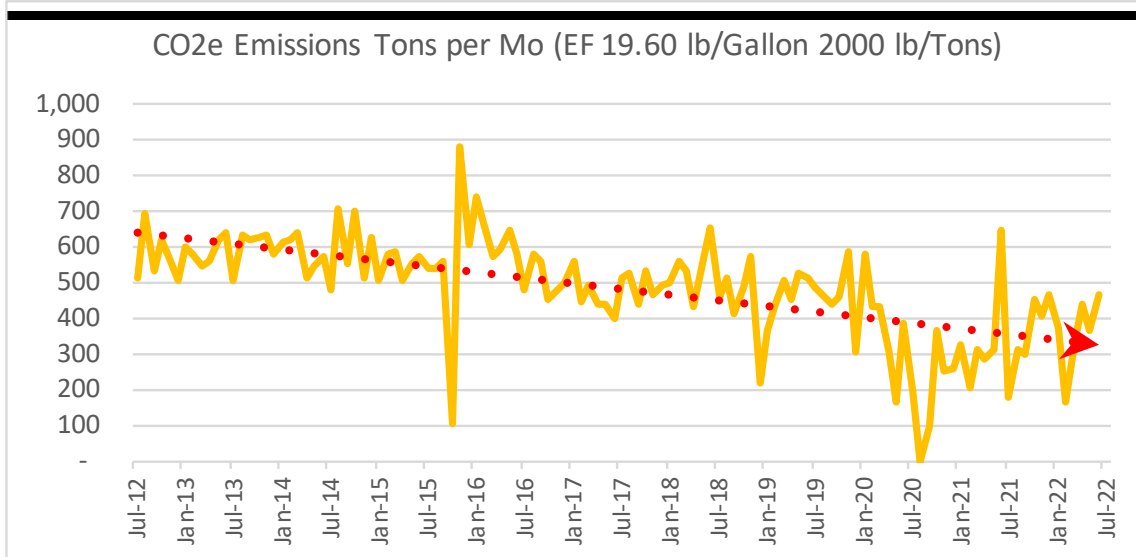


Estimated Agency Vehicle Fuel Use & Costs based on <https://openbook.wi.gov/data> expenditures:

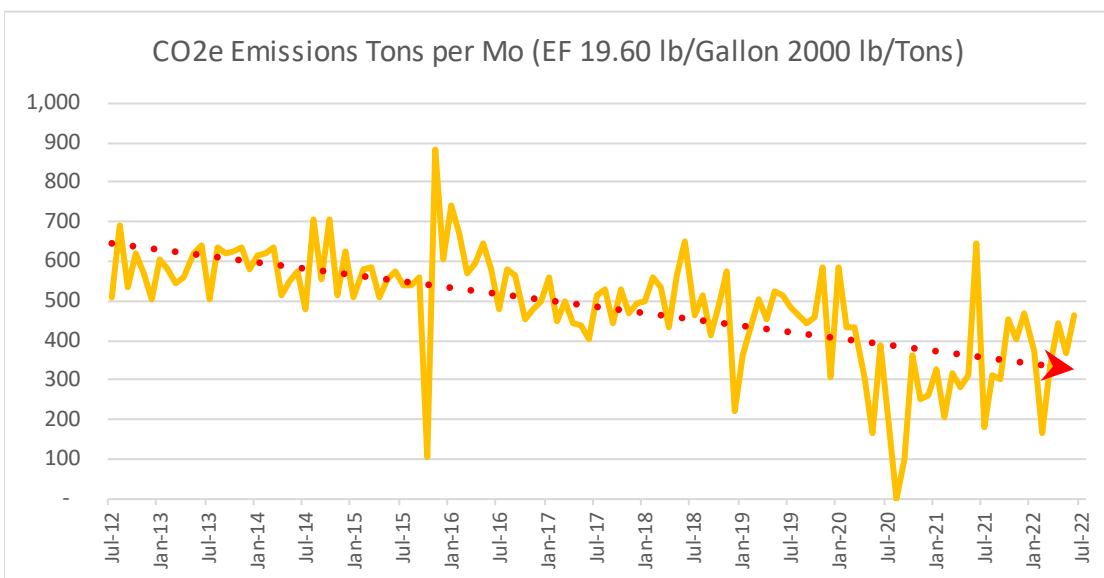
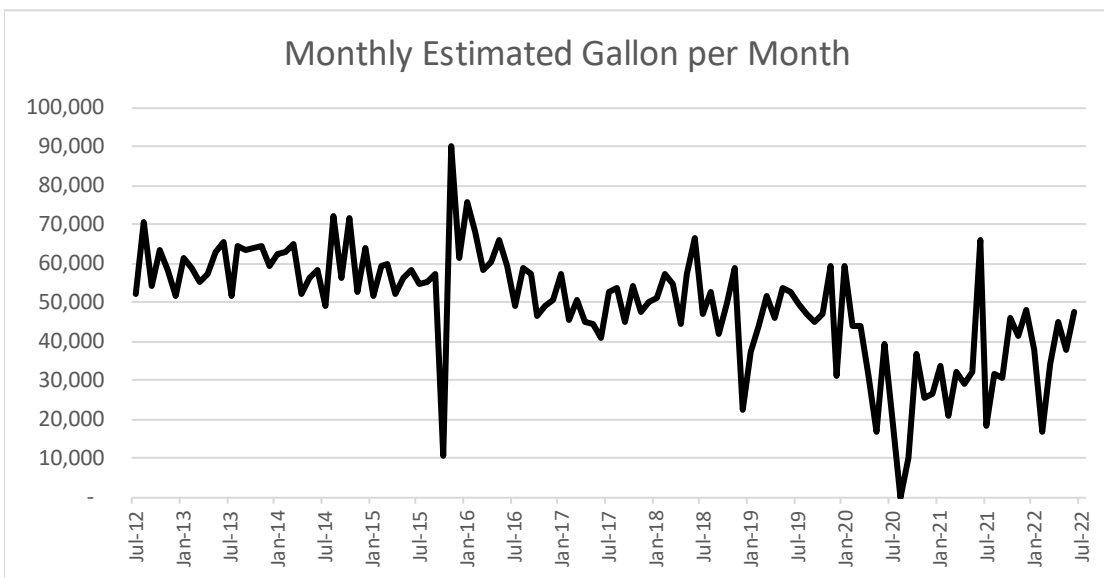
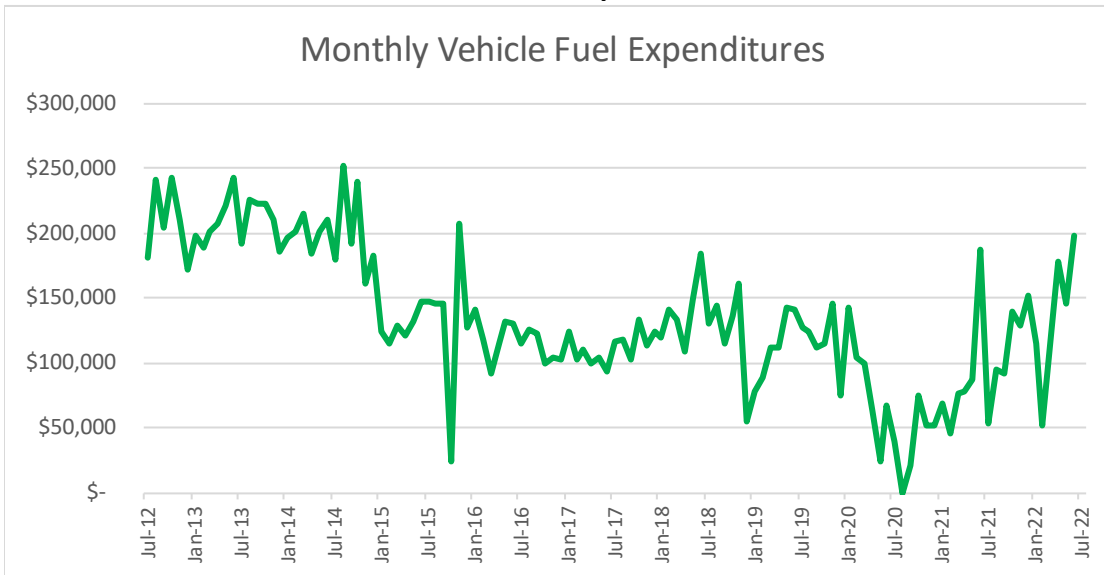
Corrections, Department of

FY13-FY22 Vehicle Fuel Expenditures w/Estimated Use & CO2e

Fiscal Year	Vehicle Fuel Expenditures	Estimated Gallons	EF 19.60 lb/Gallon CO2 Emissions (2000 lb/Tons)	CO2e Change from FY2013 Baseline
2013	\$ 2,513,485	712,628	6,984	0.00%
2014	\$ 2,470,392	725,451	7,109	1.80%
2015	\$ 1,977,036	704,497	6,904	-1.14%
2016	\$ 1,530,077	717,895	7,035	0.74%
2017	\$ 1,305,009	596,331	5,844	-16.32%
2018	\$ 1,546,312	635,363	6,227	-10.84%
2019	\$ 1,417,563	558,391	5,472	-21.64%
2020	\$ 1,203,712	514,514	5,042	-27.80%
2021	\$ 783,452	333,308	3,266	-53.23%
2022	\$ 1,466,617	436,104	4,274	-38.80%



Corrections, Department of



Corrections, Department of

Vendor Name in OpenBook WI >\$1000 FY19-FY22	FY19-FY22 Total	2019	2020	2021	2022
Sum of All Corrections, Department of	\$ 4,871,344	\$ 1,417,563	\$ 1,203,712	\$ 783,452	\$ 1,466,617
Cole Oil Co Inc	\$ 1,444,455	\$ 410,110	\$ 387,476	\$ 251,956	\$ 394,913
US Bank Supplier for Fuel/Fleet Card	\$ 923,755	\$ 390,867	\$ 342,950	\$ 166,811	\$ 23,127
Corrections, Dept Of	\$ 465,996	\$ 65,513	\$ 54,909	\$ 122,428	\$ 223,146
WEX Bank	\$ 368,807	\$ -	\$ -	\$ -	\$ 368,807
MEFFERT OIL CO INC	\$ 350,761	\$ 130,990	\$ 65,385	\$ 56,000	\$ 98,386
EH Wolf & Sons	\$ 268,173	\$ 55,348	\$ 46,148	\$ 43,764	\$ 122,913
INSIGHT FS	\$ 187,162	\$ 88,454	\$ 73,674	\$ 22,405	\$ 2,629
COMO OIL & PROPANE	\$ 144,067	\$ 29,413	\$ 34,210	\$ 20,643	\$ 59,801
RITCHIE LAKELAND OIL CO INC	\$ 140,741	\$ 47,753	\$ 45,312	\$ 7,698	\$ 39,978
WEBER OIL CO INC	\$ 111,924	\$ -	\$ -	\$ 35,775	\$ 76,149
Quality State Oil Co, Inc	\$ 105,694	\$ 52,395	\$ 48,819	\$ 4,480	\$ -
Midwest Industrial Fuels Inc	\$ 100,732	\$ 45,747	\$ 44,839	\$ 10,146	\$ -
SCULLY OIL CO INC	\$ 80,347	\$ 34,694	\$ 26,799	\$ 18,854	\$ -
NEW HORIZONS SUPPLY COOP	\$ 67,296	\$ 19,061	\$ 17,218	\$ 14,067	\$ 16,949
HEINZ CTC INC	\$ 43,857	\$ 21,757	\$ -	\$ 2,698	\$ 19,402
Medford Cooperative Inc	\$ 24,535	\$ 12,644	\$ 11,647	\$ 244	\$ -
Mansfield Oil Company of Gainesville Inc	\$ 20,687	\$ -	\$ -	\$ 4,920	\$ 15,768
Hopson Oil Llc	\$ 16,290	\$ 12,063	\$ 4,227	\$ -	\$ -
Halron Lubricants Inc	\$ 2,261	\$ -	\$ -	\$ -	\$ 2,261
Wisconsin Fuel & Heating Inc	\$ 1,631	\$ 405	\$ -	\$ 334	\$ 891

Department of Health Services



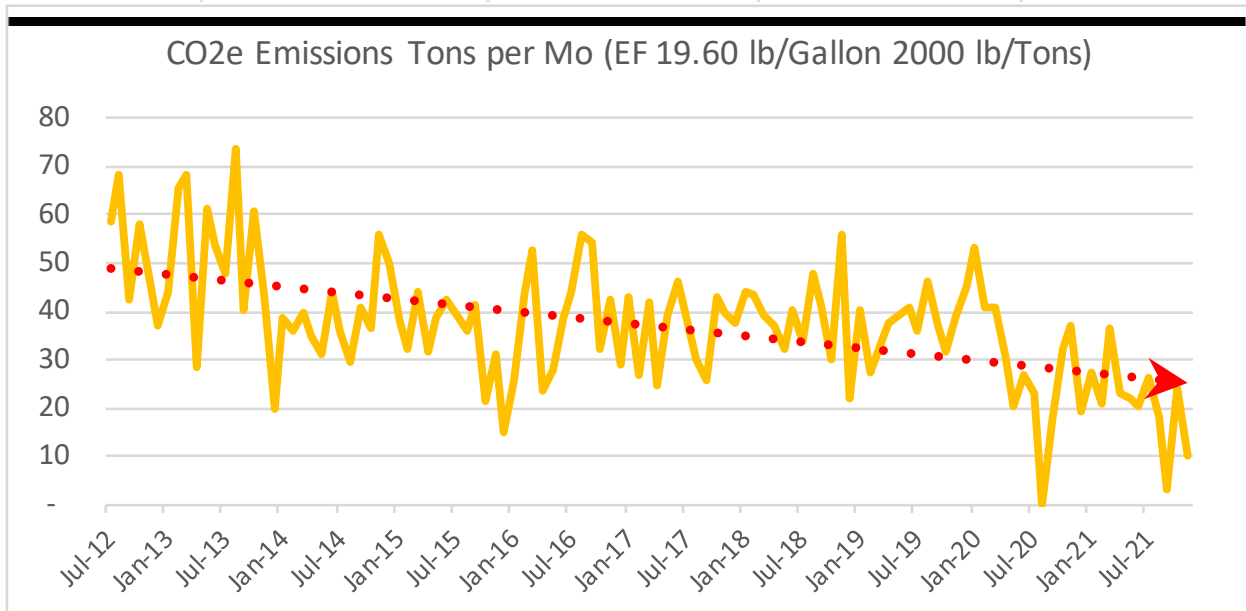
WISCONSIN DEPARTMENT of HEALTH SERVICES

Estimated Agency Vehicle Fuel Use & Costs based on <https://openbook.wi.gov/data> expenditures:

Health Services, Department of

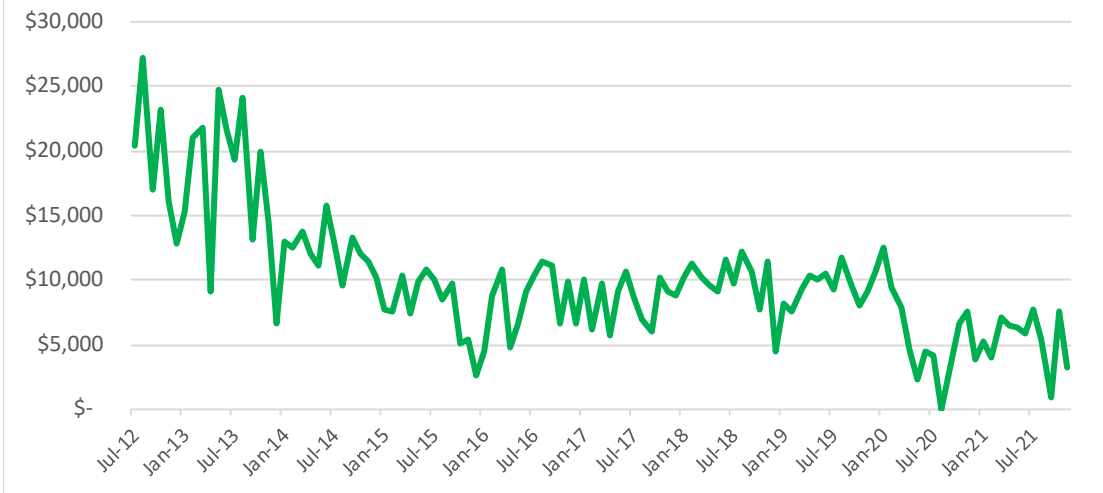
FY13-FY21 Vehicle Fuel Expenditures w/Estimated Use & CO2e

Fiscal Year	Vehicle Fuel Expenditures	Estimated Gallons	EF 19.60 lb/Gallon CO2 Emissions (2000 lb/Tons)	CO2e Change from FY2013 Baseline
2013	\$ 230,085	64,534	632	0.00%
2014	\$ 175,686	52,011	510	-19.40%
2015	\$ 123,282	48,605	476	-24.68%
2016	\$ 85,820	40,469	397	-37.29%
2017	\$ 107,399	49,016	480	-24.05%
2018	\$ 111,826	45,842	449	-28.97%
2019	\$ 111,810	45,966	450	-28.77%
2020	\$ 99,699	45,832	449	-28.98%
2021	\$ 61,197	28,507	279	-55.83%

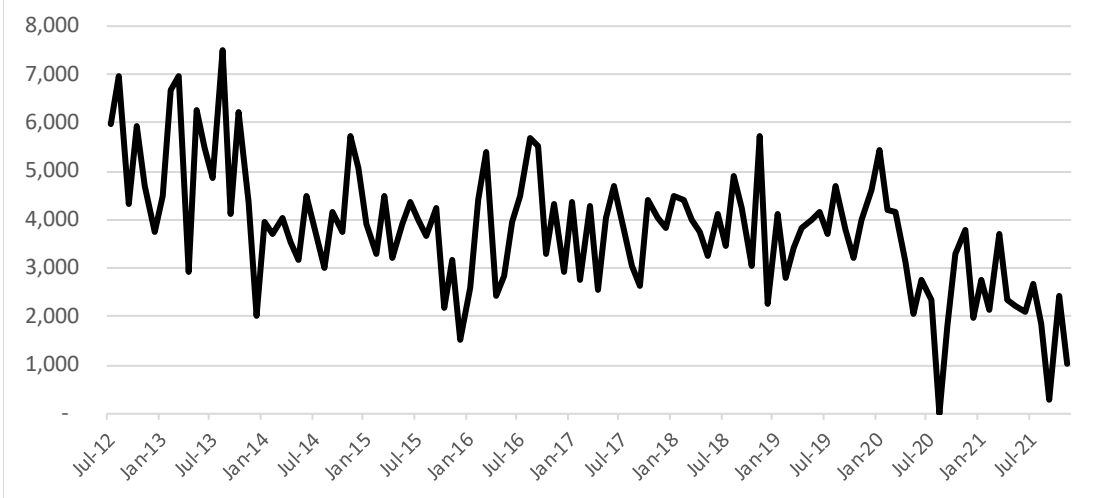


Health Services, Department of

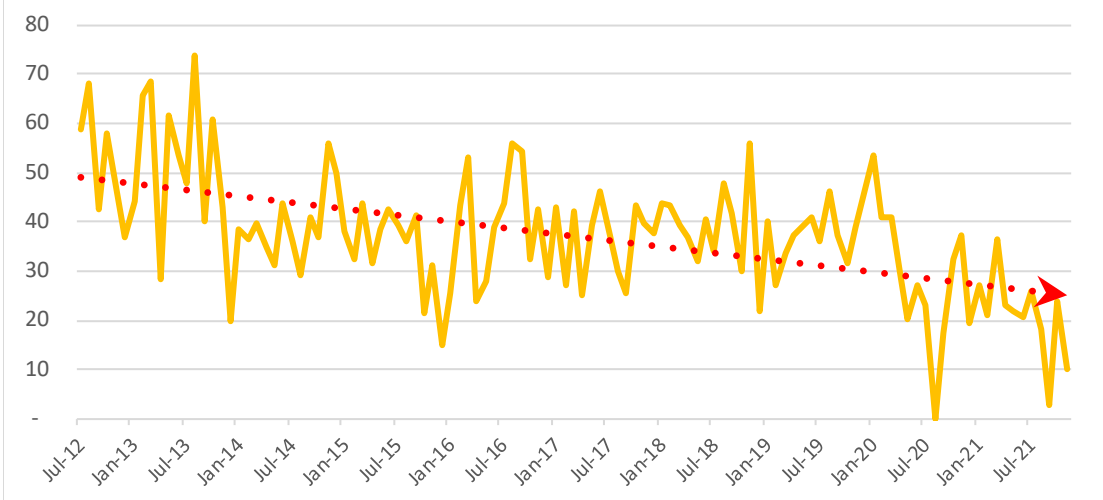
Monthly Vehicle Fuel Expenditures



Monthly Estimated Gallon per Month



CO2e Emissions Tons per Mo (EF 19.60 lb/Gallon 2000 lb/Tons)



Corrections, Department of

Vendor Name in OpenBook WI >\$1000 FY19-FY22	FY19-FY22 Total	2019	2020	2021	2022
Sum of All Corrections, Department of	\$ 4,871,344	\$ 1,417,563	\$ 1,203,712	\$ 783,452	\$ 1,466,617
Cole Oil Co Inc	\$ 1,444,455	\$ 410,110	\$ 387,476	\$ 251,956	\$ 394,913
US Bank Supplier for Fuel/Fleet Card	\$ 923,755	\$ 390,867	\$ 342,950	\$ 166,811	\$ 23,127
Corrections, Dept Of	\$ 465,996	\$ 65,513	\$ 54,909	\$ 122,428	\$ 223,146
WEX Bank	\$ 368,807	\$ -	\$ -	\$ -	\$ 368,807
MEFFERT OIL CO INC	\$ 350,761	\$ 130,990	\$ 65,385	\$ 56,000	\$ 98,386
EH Wolf & Sons	\$ 268,173	\$ 55,348	\$ 46,148	\$ 43,764	\$ 122,913
INSIGHT FS	\$ 187,162	\$ 88,454	\$ 73,674	\$ 22,405	\$ 2,629
COMO OIL & PROPANE	\$ 144,067	\$ 29,413	\$ 34,210	\$ 20,643	\$ 59,801
RITCHIE LAKELAND OIL CO INC	\$ 140,741	\$ 47,753	\$ 45,312	\$ 7,698	\$ 39,978
WEBER OIL CO INC	\$ 111,924	\$ -	\$ -	\$ 35,775	\$ 76,149
Quality State Oil Co, Inc	\$ 105,694	\$ 52,395	\$ 48,819	\$ 4,480	\$ -
Midwest Industrial Fuels Inc	\$ 100,732	\$ 45,747	\$ 44,839	\$ 10,146	\$ -
SCULLY OIL CO INC	\$ 80,347	\$ 34,694	\$ 26,799	\$ 18,854	\$ -
NEW HORIZONS SUPPLY COOP	\$ 67,296	\$ 19,061	\$ 17,218	\$ 14,067	\$ 16,949
HEINZ CTC INC	\$ 43,857	\$ 21,757	\$ -	\$ 2,698	\$ 19,402
Medford Cooperative Inc	\$ 24,535	\$ 12,644	\$ 11,647	\$ 244	\$ -
Mansfield Oil Company of Gainesville Inc	\$ 20,687	\$ -	\$ -	\$ 4,920	\$ 15,768
Hopson Oil Llc	\$ 16,290	\$ 12,063	\$ 4,227	\$ -	\$ -
Halron Lubricants Inc	\$ 2,261	\$ -	\$ -	\$ -	\$ 2,261
Wisconsin Fuel & Heating Inc	\$ 1,631	\$ 405	\$ -	\$ 334	\$ 891

Department of Public Instruction

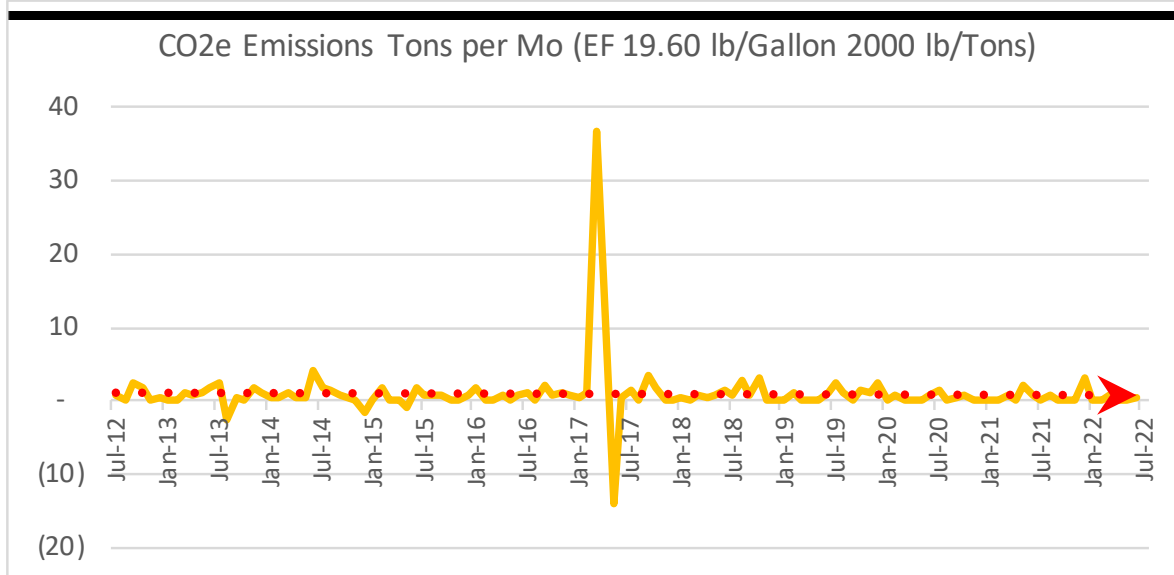


Estimated Agency Vehicle Fuel Use & Costs based on <https://openbook.wi.gov/data> expenditures:

Public Instruction, Department of

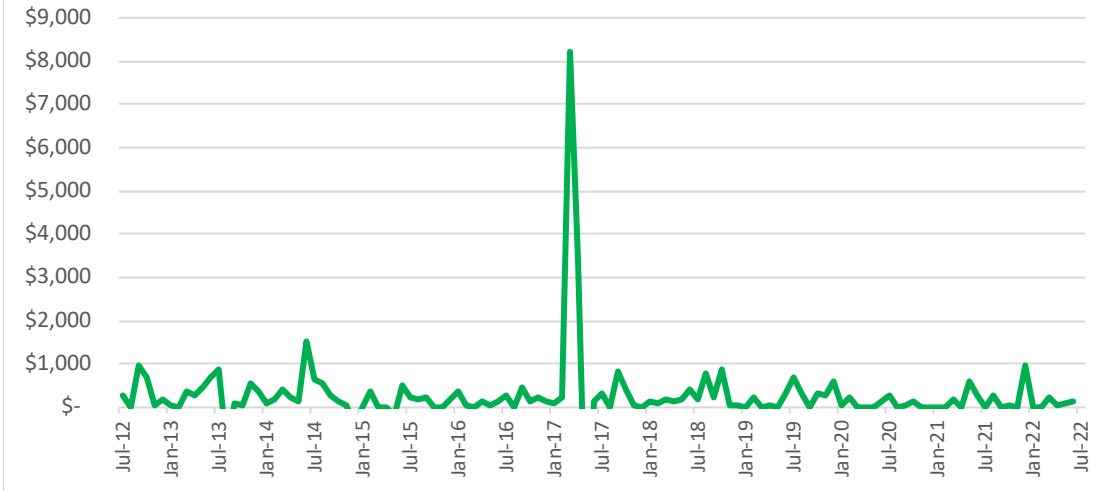
FY13-FY22 Vehicle Fuel Expenditures w/Estimated Use & CO2e

Fiscal Year	Vehicle Fuel Expenditures	Estimated Gallons	EF 19.60 lb/Gallon CO2 Emissions (2000 lb/Tons)	CO2e Change from FY2013 Baseline
2013	\$ 3,960	1,082	11	0.00%
2014	\$ 3,599	1,040	10	-3.86%
2015	\$ 1,864	615	6	-43.15%
2016	\$ 1,581	724	7	-33.05%
2017	\$ 10,075	4,675	46	332.21%
2018	\$ 2,697	1,118	11	3.38%
2019	\$ 2,766	1,046	10	-3.29%
2020	\$ 2,494	1,026	10	-5.18%
2021	\$ 1,512	621	6	-42.62%
2022	\$ 1,734	532	5	-50.83%

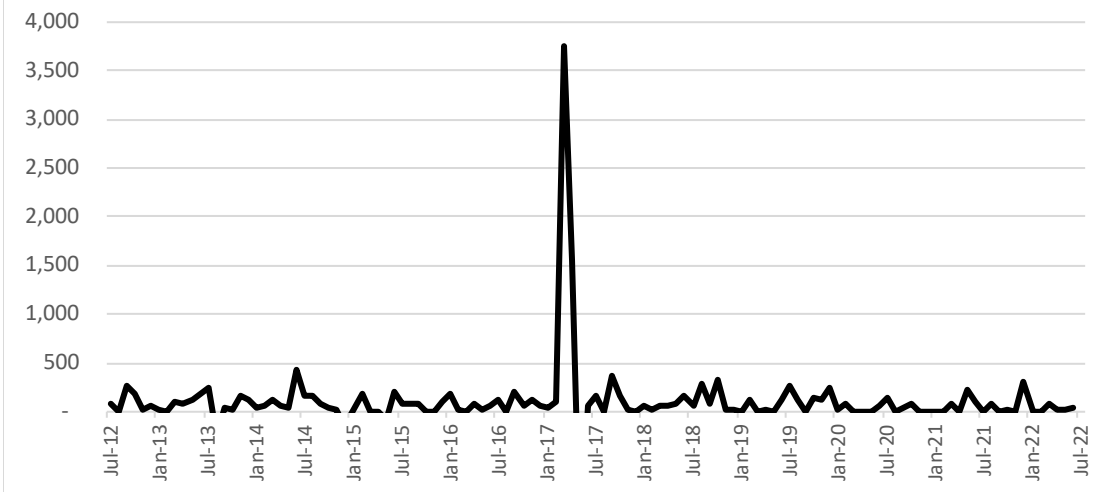


Public Instruction, Department of

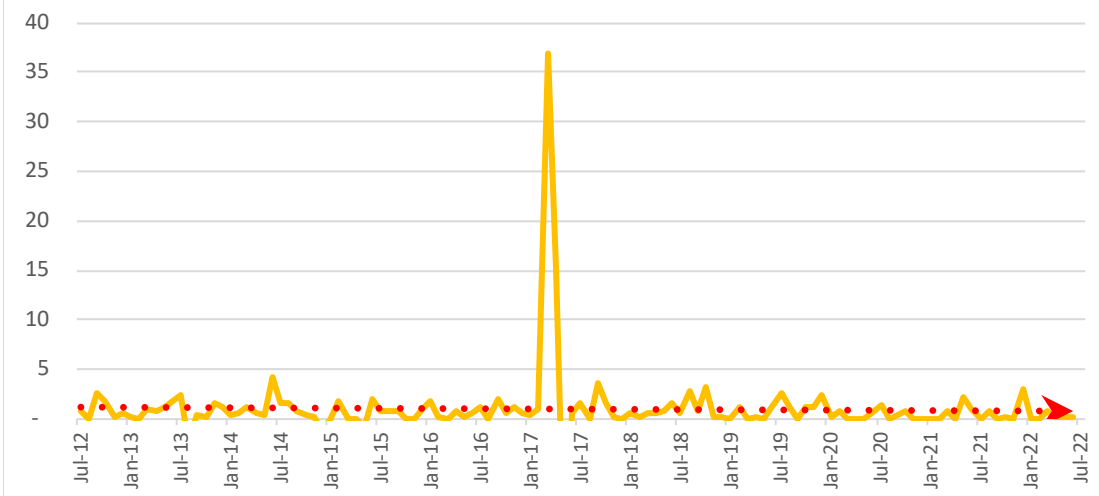
Monthly Vehicle Fuel Expenditures



Monthly Estimated Gallon per Month



CO2e Emissions Tons per Mo (EF 19.60 lb/Gallon 2000 lb/Tons)



Public Instruction, Department of

Vendor Name in OpenBook WI >\$1000 FY19-FY22	FY19-FY22 Total	2019	2020	2021	2022
Sum of All Public Instruction, Department of	\$ 8,505	\$ 2,766	\$ 2,494	\$ 1,512	\$ 1,734
Frawley Oil Company	\$ 4,086	\$ 1,352	\$ 1,230	\$ 882	\$ 623
Brown Oil Co	\$ 3,545	\$ 1,082	\$ 1,122	\$ 596	\$ 745

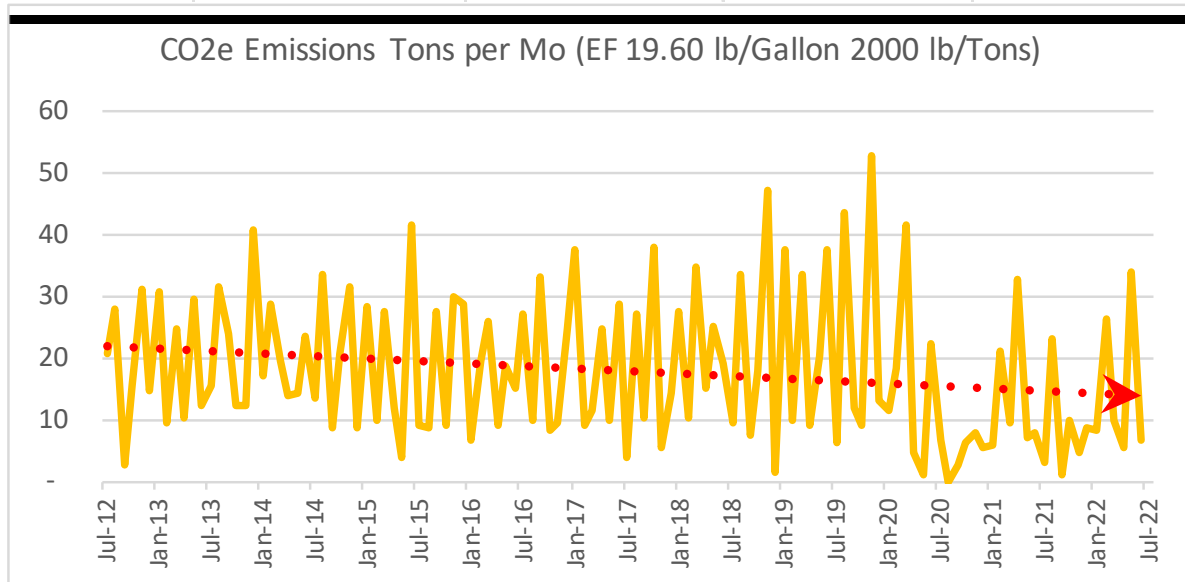
Department of Veterans Affairs



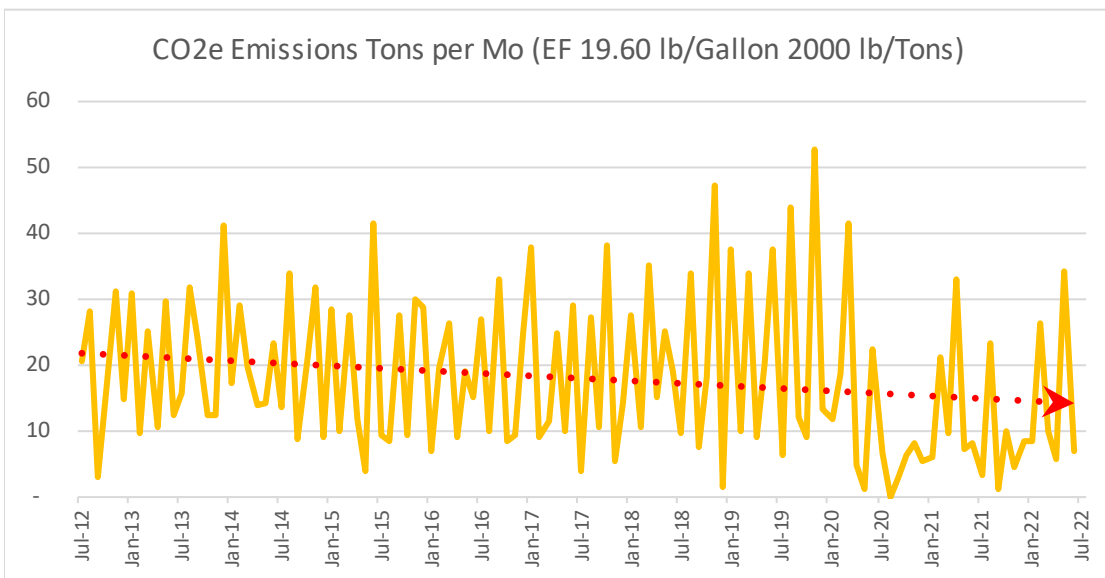
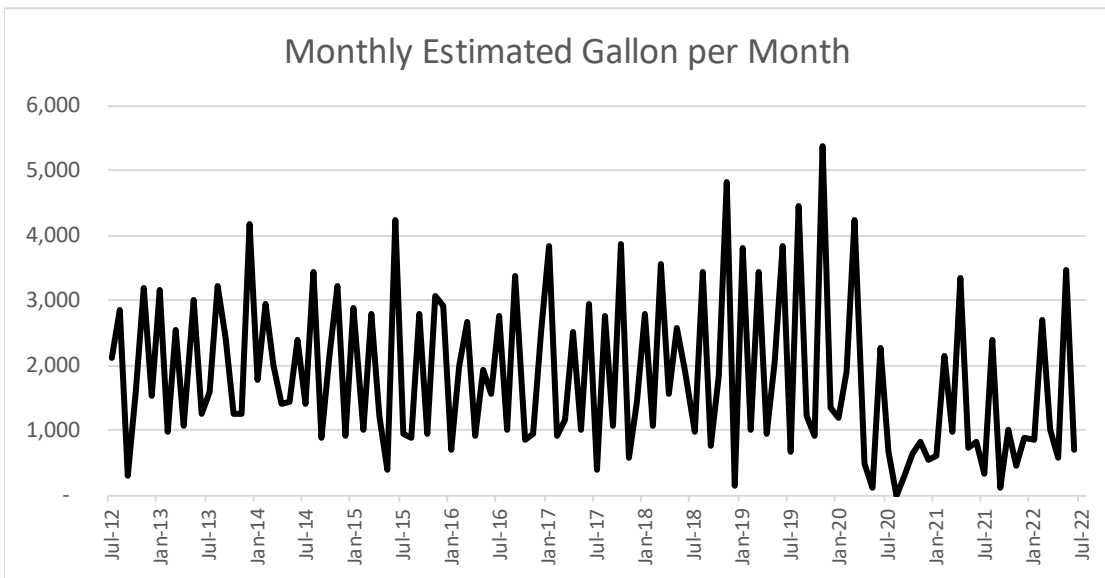
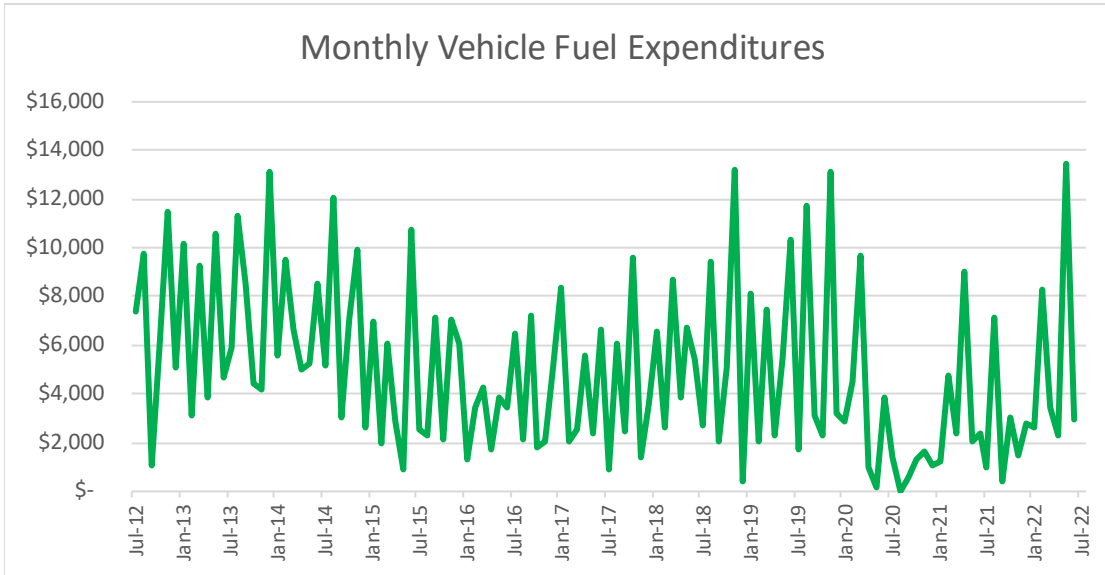
Estimated Agency Vehicle Fuel Use & Costs based on <https://openbook.wi.gov/data> expenditures:

Veterans Affairs, Department of

FY13-FY22 Vehicle Fuel Expenditures w/Estimated Use & CO2e					
Fiscal Year	Vehicle Fuel Expenditures	Estimated Gallons	EF 19.60 lb/Gallon CO2 Emissions (2000 lb/Tons)	CO2e Change from FY2013 Baseline	
2013	\$ 82,565	23,589	231	0.00%	
2014	\$ 87,887	25,975	255	10.11%	
2015	\$ 69,228	24,568	241	4.15%	
2016	\$ 45,372	21,335	209	-9.55%	
2017	\$ 52,425	23,913	234	1.37%	
2018	\$ 57,711	23,645	232	0.24%	
2019	\$ 68,626	27,173	266	15.19%	
2020	\$ 57,214	24,204	237	2.61%	
2021	\$ 27,670	11,635	114	-50.67%	
2022	\$ 48,791	14,555	143	-38.30%	



Veterans Affairs, Department of



Veterans Affairs, Department of

Vendor Name in OpenBook WI >\$1000 FY19-FY22	FY19-FY22 Total	2019	2020	2021	2022
Sum of All Veterans Affairs, Department of	\$ 202,300	\$ 68,626	\$ 57,214	\$ 27,670	\$ 48,791
INSIGHT FS	\$ 56,598	\$ 28,982	\$ 26,402	\$ 1,214	\$ -
EH Wolf & Sons	\$ 42,012	\$ -	\$ -	\$ 9,930	\$ 32,082
US Bank Supplier for Fuel/Fleet Card	\$ 28,288	\$ 12,734	\$ 9,138	\$ 5,701	\$ 715
Hopson Oil Llc	\$ 26,795	\$ 10,221	\$ 8,350	\$ 8,224	\$ -
US Bank Supplier for P-Card Payments	\$ 25,179	\$ 9,765	\$ 8,997	\$ 1,439	\$ 4,977
HEINZ CTC INC	\$ 15,282	\$ 6,565	\$ 4,296	\$ 1,019	\$ 3,402
WEX Bank	\$ 5,871	\$ -	\$ -	\$ -	\$ 5,871
LANDMARK SERVICES COOPERATIVE	\$ 1,744	\$ -	\$ -	\$ -	\$ 1,744

Department of Natural Resources

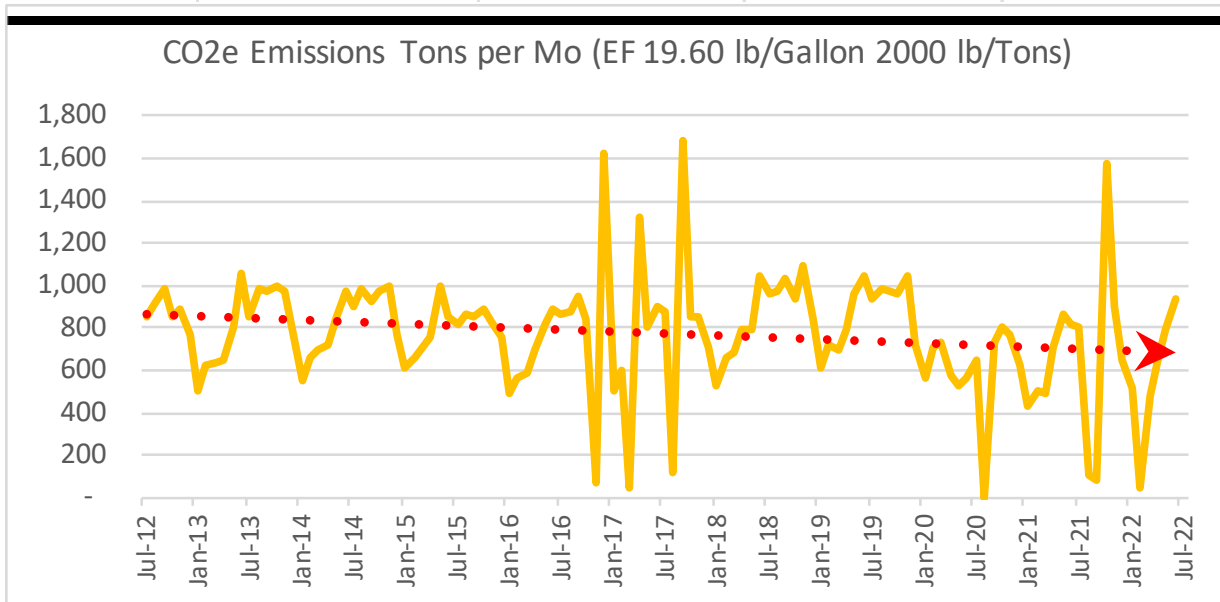


Estimated Agency Vehicle Fuel Use & Costs based on <https://openbook.wi.gov/data> expenditures:

Natural Resources, Department of

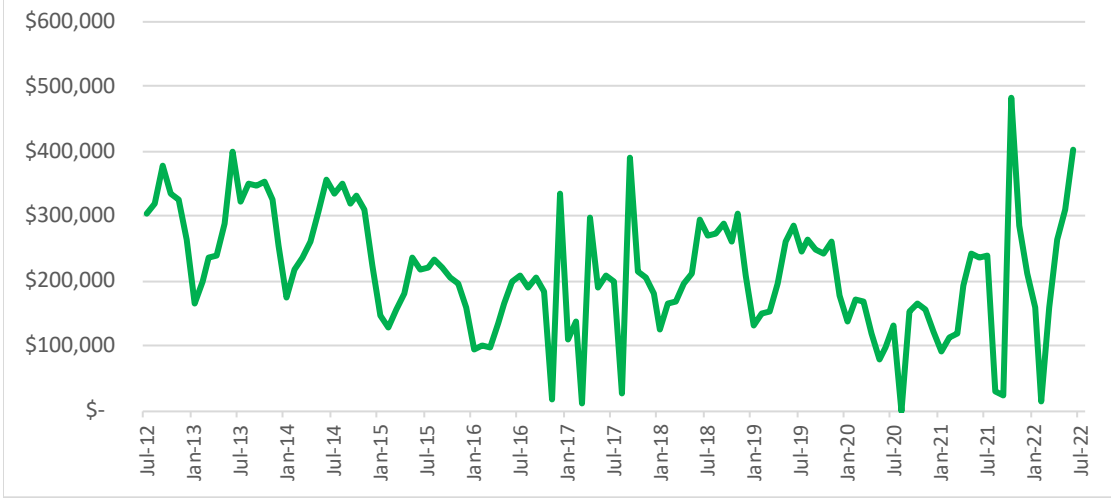
FY13-FY22 Vehicle Fuel Expenditures w/Estimated Use & CO2e

Fiscal Year	Vehicle Fuel Expenditures	Estimated Gallons	EF 19.60 lb/Gallon CO2 Emissions (2000 lb/Tons)	CO2e Change from FY2013 Baseline
2013	\$ 3,455,296	973,384	9,539	0.00%
2014	\$ 3,504,450	1,021,646	10,012	4.96%
2015	\$ 2,942,748	1,032,593	10,119	6.08%
2016	\$ 2,029,696	923,219	9,048	-5.15%
2017	\$ 2,095,114	959,327	9,401	-1.44%
2018	\$ 2,386,438	980,562	9,610	0.74%
2019	\$ 2,787,383	1,088,944	10,672	11.87%
2020	\$ 2,216,514	949,107	9,301	-2.49%
2021	\$ 1,723,137	753,408	7,383	-22.60%
2022	\$ 2,586,579	767,580	7,522	-21.14%



Natural Resources, Department of

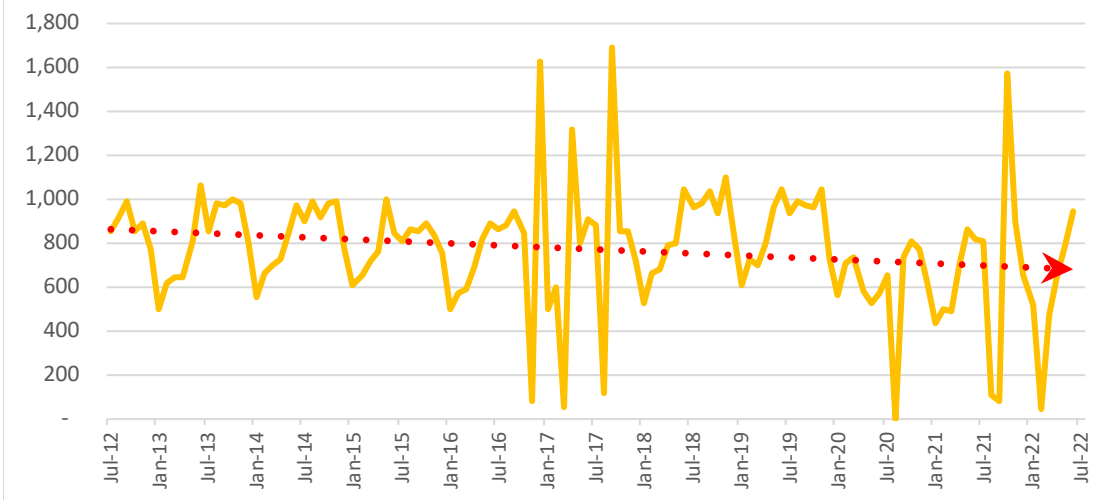
Monthly Vehicle Fuel Expenditures



Monthly Estimated Gallon per Month



CO2e Emissions Tons per Mo (EF 19.60 lb/Gallon 2000 lb/Tons)



Natural Resources, Department of

Vendor Name in OpenBook WI >\$1000 FY19-FY22	FY19-FY22 Total	2019	2020	2021	2022
Sum of All Natural Resources, Department of	\$ 9,313,613	\$2,787,383	\$2,216,514	\$1,723,137	\$2,586,579
US Bank Supplier for Fuel/Fleet Card	\$ 6,184,702	\$2,509,919	\$2,003,517	\$1,520,488	\$ 150,778
WEX Bank	\$ 2,141,979	\$ -	\$ -	\$ -	\$2,141,979
INSIGHT FS	\$ 165,751	\$ 64,801	\$ 43,746	\$ 39,248	\$ 17,956
MEFFERT OIL CO INC	\$ 135,526	\$ 37,803	\$ 32,162	\$ 22,828	\$ 42,732
EH Wolf & Sons	\$ 133,365	\$ 13,067	\$ 10,037	\$ 34,189	\$ 76,072
WEBER OIL CO INC	\$ 73,206	\$ 9,565	\$ 9,143	\$ 11,598	\$ 42,900
Quality State Oil Co, Inc	\$ 71,847	\$ 31,519	\$ 17,932	\$ 19,424	\$ 2,972
Cole Oil Co Inc	\$ 56,687	\$ 24,732	\$ 21,229	\$ 10,726	\$ -
COMO OIL & PROPANE	\$ 56,606	\$ 4,013	\$ 1,580	\$ 12,079	\$ 38,935
NEW HORIZONS SUPPLY COOP	\$ 45,752	\$ 11,189	\$ 11,195	\$ 8,266	\$ 15,102
Skoglund Oil Co Inc	\$ 45,452	\$ 21,747	\$ 17,852	\$ 5,852	\$ -
US Bank Supplier for P-Card Payments	\$ 42,386	\$ 10,092	\$ 8,566	\$ 7,296	\$ 16,433
UNITED COOPERATIVE	\$ 38,132	\$ 10,868	\$ 9,377	\$ 6,977	\$ 10,910
RITCHIE LAKELAND OIL CO INC	\$ 34,065	\$ 17,316	\$ 10,075	\$ 6,476	\$ 198
Town of Barnes	\$ 13,929	\$ 2,461	\$ 811	\$ 1,700	\$ 8,958
SCULLY OIL CO INC	\$ 11,935	\$ 5,806	\$ 4,530	\$ 1,599	\$ -
Vilas County	\$ 8,942	\$ 3,118	\$ 1,882	\$ 1,557	\$ 2,385
MILWAUKEE COUNTY	\$ 6,963	\$ 421	\$ 1,887	\$ 1,715	\$ 2,940
Superieur Petrol Llc	\$ 5,827	\$ 1,021	\$ 1,511	\$ 1,731	\$ 1,565
Garrow Oil Marketing Inc	\$ 4,412	\$ -	\$ 1,349	\$ 471	\$ 2,592
ELSING OIL CO INC	\$ 3,847	\$ 900	\$ 1,607	\$ 1,340	\$ -
Pugh Marina On The Lake	\$ 3,799	\$ -	\$ -	\$ 2,075	\$ 1,724
Superieur Petrol, Inc	\$ 1,947	\$ 750	\$ 291	\$ 233	\$ 673
COUNTRYSIDE COOPERATIVE	\$ 1,927	\$ -	\$ 1,273	\$ 654	\$ -
HARBOR CENTRE MARINA	\$ 1,815	\$ -	\$ -	\$ -	\$ 1,815
LANDMARK SERVICES COOPERATIVE	\$ 1,714	\$ -	\$ -	\$ 906	\$ 809
HARBOR EXPRESS	\$ 1,429	\$ -	\$ 1,116	\$ 313	\$ -
Bay Marine	\$ 1,390	\$ -	\$ -	\$ -	\$ 1,390
Praxair Distribution Inc	\$ 1,278	\$ -	\$ -	\$ 1,278	\$ -
DINS GARAGE & MINI MART INC	\$ 1,254	\$ 949	\$ 305	\$ -	\$ -
Price County	\$ 1,125	\$ 1,125	\$ -	\$ -	\$ -

Department of Transportation

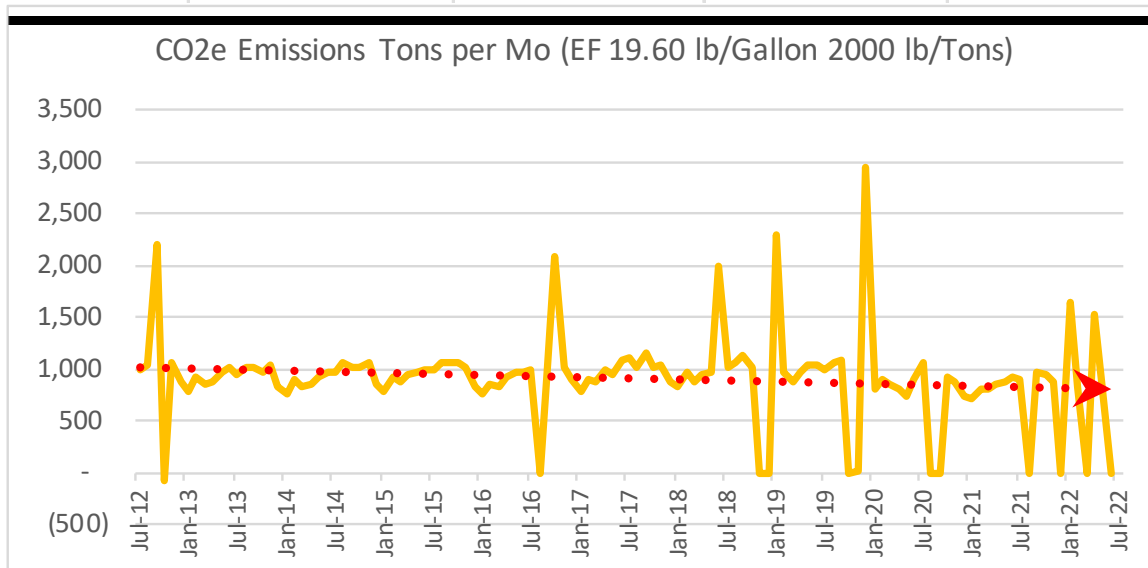


Estimated Agency Vehicle Fuel Use & Costs based on <https://openbook.wi.gov/data> expenditures:

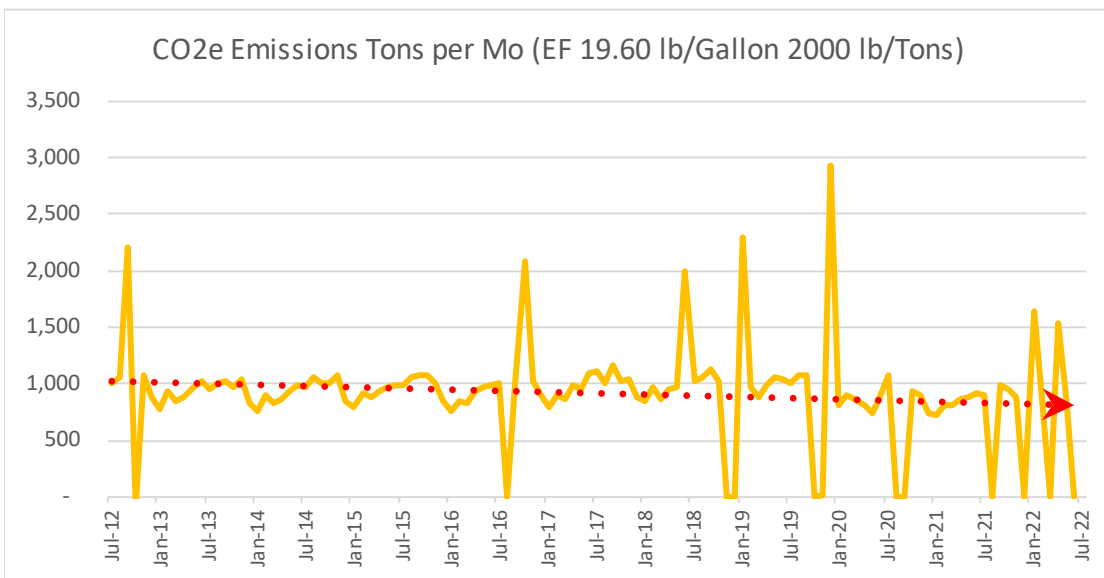
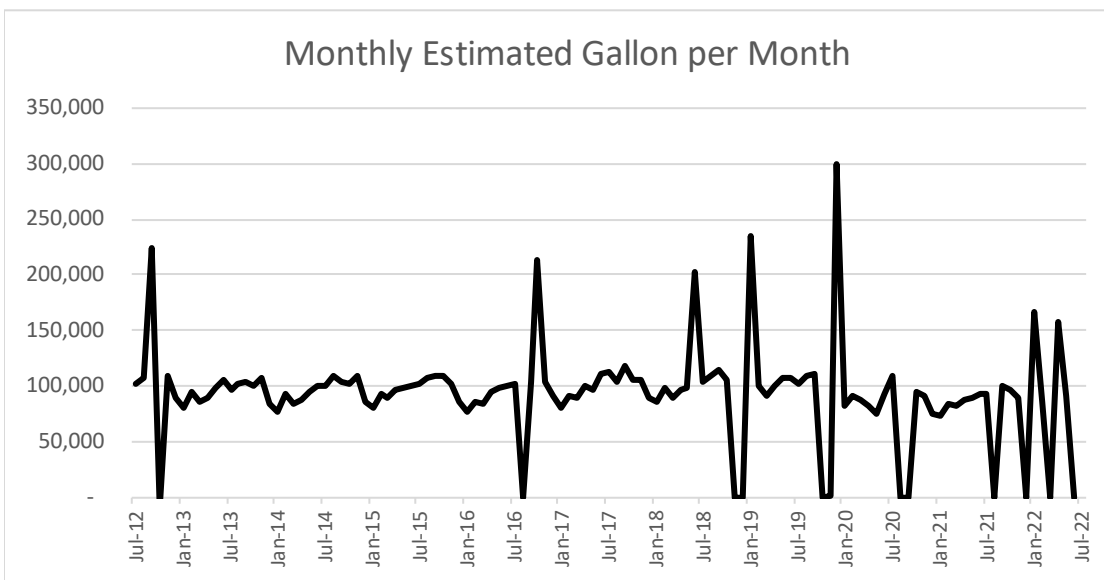
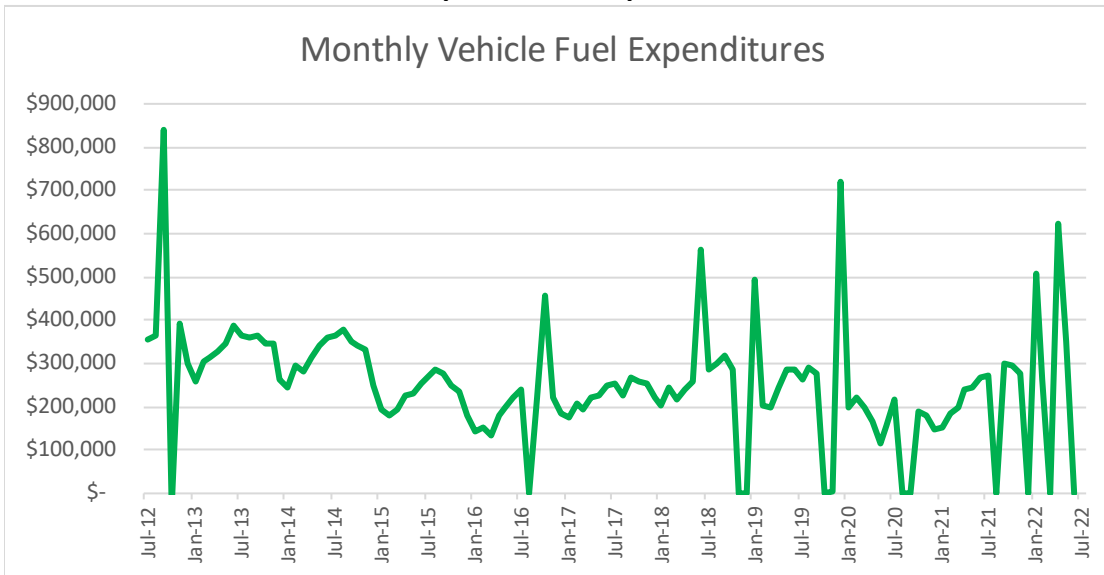
Transportation, Department of

FY13-FY22 Vehicle Fuel Expenditures w/Estimated Use & CO2e

Fiscal Year	Vehicle Fuel Expenditures	Estimated Gallons	EF 19.60 lb/Gallon CO2 Emissions (2000 lb/Tons)	CO2e Change from FY2013 Baseline
2013	\$ 4,160,923	1,179,293	11,557	0.00%
2014	\$ 3,875,447	1,132,390	11,097	-3.98%
2015	\$ 3,295,517	1,169,237	11,459	-0.85%
2016	\$ 2,528,308	1,158,475	11,353	-1.77%
2017	\$ 2,596,445	1,182,914	11,593	0.31%
2018	\$ 3,201,767	1,309,304	12,831	11.02%
2019	\$ 2,897,144	1,172,205	11,488	-0.60%
2020	\$ 2,602,829	1,134,705	11,120	-3.78%
2021	\$ 2,014,867	880,400	8,628	-25.35%
2022	\$ 2,888,186	880,204	8,626	-25.36%



Transportation, Department of



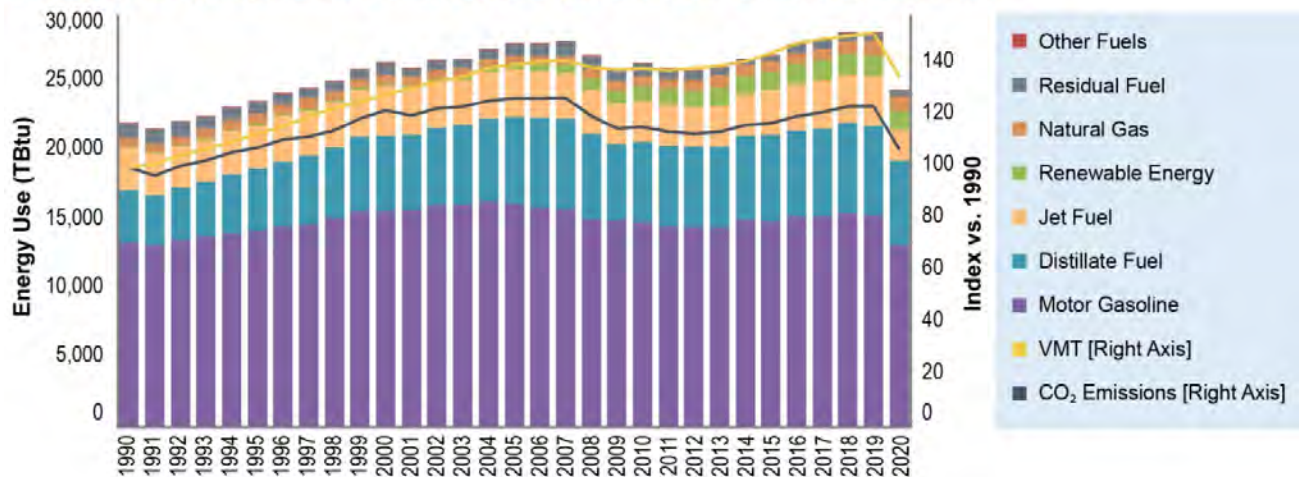
Transportation, Department of

Vendor Name in OpenBook WI >\$1000 FY19-FY22	FY19-FY22 Total	2019	2020	2021	2022
Sum of All Transportation, Department of	\$ 10,403,026	\$ 2,897,144	\$ 2,602,829	\$ 2,014,867	\$ 2,888,186
US Bank Supplier for Fuel/Fleet Card	\$ 7,744,810	\$ 2,895,319	\$ 2,596,792	\$ 2,014,730	\$ 237,969
WEX Bank	\$ 2,648,130	\$ -	\$ -	\$ -	\$ 2,648,130
US Bank Supplier for P-Card Payments	\$ 5,084	\$ 40	\$ 4,946	\$ 98	\$ -

Appendix A - Transportation Sector Greenhouse Gas Emissions

Transportation activities are the largest source of emissions, accounting for 27 percent of total U.S. greenhouse gas emissions in 2020. From 1990 to 2020, transportation CO₂ emissions from fossil fuel combustion rose by 7 percent due in large part to increased demand for travel. The number of vehicle miles traveled (VMT) by light-duty vehicles (i.e., passenger cars and light-duty trucks) increased by 30 percent from 1990 to 2020; VMT by medium- and heavy-duty trucks increased 107 percent over the same period. While an increased demand for travel has led to increasing CO₂ emissions since 1990, improvements in average new vehicle fuel economy since 2005 has slowed the rate of increase of CO₂ emissions. In 2020, light-duty vehicles represented 57 percent of CO₂ emissions from transportation fossil fuel combustion and medium- and heavy-duty trucks and buses represented 26 percent. Petroleum-based products supplied 94 percent of the energy used for transportation, with 57 percent from gasoline consumption in automobiles and other highway vehicles. Diesel fuel for freight trucks and jet fuel for aircraft accounted for 27 and 10 percent of fuel consumption, respectively. The remaining 1 percent of petroleum-based energy used for transportation was supplied by natural gas, residual fuel, aviation gasoline, and liquefied petroleum gases. Renewable fuels account for the remaining 6 percent of energy used for transportation.

Fuels Used in Transportation Sector, Onroad VMT, and Total Sector CO₂ Emissions



Appendix B - OpenBook WI Expenditures for Vehicle Fuel & Use Estimates

FY13-FY22 Vehicle Fuel Expenditures by Wisconsin State Agencies												
Sum of Amount	Columnr	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Grand Total
Row Labels												
Administration, Department of		4,361,710	4,099,011	3,142,934	2,162,475	2,314,742	2,517,206	2,624,788	2,057,994	1,113,356	2,032,644	26,426,860
Agriculture, Trade and Consumer Protection, Department of		41,385	33,465	35,088	16,749	14,015	20,513	21,403	20,113	19,062	38,069	259,862
Board on Aging and Long-Term Care		-	-	-	-	-	-	-	-	-	-	-
Children and Families, Department of					72	42	30		155		53	352
Corrections, Department of		2,509,692	2,465,920	1,960,478	1,442,448	1,305,009	1,546,312	1,417,563	1,203,712	783,452	1,466,617	16,101,203
Educational Communications Board		187						28	11			226
Employment Relations, Office of												
Health Services, Department of		229,310	173,372	122,440	81,537	107,399	111,826	111,810	99,699	61,197	76,814	1,175,404
Historical Society		30,353	33,820	25,577	24,940	19,838	6,275	6,333	6,096	2,632	7,130	162,993
Justice, Department of		3,856	667	632	297	407	1,713	3,176	776	199	28,057	39,780
Kickapoo Reserve Management Board					790	2,468	2,930	3,656	2,324	1,344	3,581	17,094
Military Affairs, Department of		43,658	38,034	38,841	21,253	59,566	242,313	58,565	71,014	195,679	178,735	947,658
Natural Resources, Department of		3,480,987	3,509,418	2,835,175	1,818,874	2,095,114	2,386,438	2,787,383	2,216,514	1,723,137	2,586,579	25,439,619
Public Defender Board			88									88
Public Instruction, Department of		4,498	3,630	1,469	1,347	10,075	2,697	2,766	2,494	1,512	1,734	32,222
Public Service Commission							9		25			34
Revenue, Department of		6,588	3,946	3,496	2,310	4,318	6,469	7,060	5,323	1,720	2,898	44,128
Safety and Professional Services, Department of					19	58	43	133				253
State Fair Park Board		116,495	106,492	93,213	60,957	56,706	24,378	26,225	21,951	15,079	22,885	544,380
Tourism, Department of		5,650	6,199	4,852	2,092	607	357	133	593	184		20,666
Transportation, Department of		4,166,022	3,878,080	3,203,600	2,496,038	2,355,746	3,201,767	2,897,144	2,602,829	2,014,867	2,888,186	29,704,279
University of Wisconsin System		2,624,758	2,762,665	2,132,570	1,368,350	1,622,856	1,662,361	1,647,324	1,238,004	888,106	1,530,869	17,477,861
Veterans Affairs, Department of		81,100	86,125	66,326	44,141	52,425	57,711	68,626	57,214	27,670	48,791	590,129
Wisconsin Technical College System, Board of						76	95	24	65			260
Workforce Development, Department of				49		43	938	1,108	1,947	646	1,226	5,957
Grand Total		17,706,248	17,200,932	13,666,691	9,544,739	10,021,510	11,792,381	11,685,247	9,608,852	6,849,841	10,914,866	118,991,306

FY13-FY22 Estimated Gallons based on Vehicle Fuel Expenditures by Wisconsin State Agencies

Row Labels	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Grand Total
Transportation, Department of	1,174,557	1,134,349	1,171,160	1,158,999	1,080,945	1,309,304	1,172,205	1,134,705	880,400	880,204	11,096,826
Administration, Department of	1,229,883	1,199,330	1,154,815	1,031,129	1,055,246	1,037,416	1,033,410	869,929	489,833	606,704	9,707,695
Natural Resources, Department of	975,381	1,024,074	1,024,100	844,870	959,327	980,562	1,088,944	949,107	753,408	767,580	9,367,353
University of Wisconsin System	741,137	807,446	758,036	627,961	741,981	686,512	653,012	524,381	391,184	464,719	6,396,370
Corrections, Department of	709,683	724,604	708,646	685,329	596,331	635,363	558,391	514,514	333,308	436,104	5,902,274
Health Services, Department of	65,036	50,585	44,953	39,142	48,992	45,989	44,419	42,435	27,233	23,109	431,895
Military Affairs, Department of	12,309	11,090	14,657	9,984	27,552	99,195	24,294	28,818	87,553	54,191	369,643
Veterans Affairs, Department of	23,069	25,515	23,898	20,878	23,913	23,645	27,173	24,204	11,635	14,555	218,485
State Fair Park Board	31,743	30,688	29,674	25,009	26,389	10,365	10,046	9,016	7,065	6,746	186,742
Agriculture, Trade and Consumer Protection, Department of	11,642	9,728	12,607	7,745	6,368	8,456	8,187	8,251	8,487	11,765	93,235
Historical Society	8,409	9,901	8,540	10,458	9,152	2,599	2,373	2,532	1,154	2,131	57,250
Revenue, Department of	1,875	1,164	1,321	1,153	1,967	2,690	2,780	2,244	752	884	16,831
Justice, Department of	1,055	188	264	127	181	700	1,445	328	80	8,440	12,809
Public Instruction, Department of	1,226	1,050	530	637	4,675	1,118	1,046	1,026	621	532	12,462
Kickapoo Reserve Management Board			400	400	1,117	1,249	1,400	966	579	1,159	6,869
Tourism, Department of	1,573	1,787	1,641	844	285	146	57	246	94		6,672
Workforce Development, Department of				24	19	379	429	819	293	405	2,367
Children and Families, Department of				37	20	12		62		17	149
Wisconsin Technical College System, Board of											107
Safety and Professional Services, Department of					33	38	10	26			101
Educational Communications Board	52			10	25	17	49				101
Public Defender Board		27									66
Public Service Commission						4		10			27
Employment Relations, Office of State Board on Aging and Long-Term Care											14
Grand Total	4,988,630	5,031,526	4,954,844	4,464,737	4,584,519	4,845,759	4,629,679	4,113,624	2,993,678	3,279,245	43,886,239

Appendix C - Agency and Facility Charging Stations Energy Data

UW-Madison Transportation EV Charging Station Data:

FY2022 - 112,484.757 kWh for all Chargepoint stations combined July 1, 2021 through June 30, 2022.
 FY2021 - July 1, 2020 to June 30, 2021 was 54,525.157 kWh.

Fiscal Year	Charging Station Energy (kWh)	Estimated GHG Savings (kg)	Estimated Gasoline Savings (gallons)
2015	13,601	5,712	1,707
2016	18,843	7,914	2,365
2017	26,878	11,289	3,373
2018	38,124	16,012	4,785
2019	59,136	24,837	7,422
2020	64,586	27,126	8,106
2021	54,525	22,901	6,843
2022	112,485	47,244	14,117

