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This is the methodology I have concocted over the years to help me figure out how much carbon I have personally contributed to the atmosphere. It's a continual work in progress.

How much carbon was emitted because of me?	
Total estimated tons of carbon emitted annually 🛈	
2022	0.4
2021	4.6
2020	9.4
2019	10.9
2018	10.4

Electricity					
Estimated tons of carbon emitted in 2022 (i)					1.6
Kilowatt hours per year	On ·	Mid	· Off	kWh	Carbon (tons)
2022 (Smart-meter installed)	13%	6%	81%	5,986	2.6
2021 (Fixed wiring issue + new A/C installed)	—	—	—	5,657	2.4
2020	—	—	—	5,890	2.5
2019	—	-	_	7,443	3.2
2018	—	_	—	7,451	3.2
Energy provider (j	Fos	ssil fu	els	Carbon free	Carbon (tons)
2022 (Xcel Energy)		63%		37%	-1.0
2021 (Xcel Energy)		65%		35%	-0.8
2020 (Xcel Energy)		69%		32%	-0.8
2019 (Xcel Energy)		70%		30%	-1.0
2018 (Xcel Energy)		72%		28%	-0.9

Natural gas Estimated tons of carbon emitted in 2022 (i)		2.6
Therms per year	Therms	Carbon (tons)
2022	492	2.6
2021	482	2.6
2020	474	2.5
2019	537	2.8
2018	482	2.6

Transportation			
Estimated tons of carbon emitted in 2022 (j			3.8
Miles per year	Gas (gallons)	Drive	Fly
2022 (Average vehicle MPG: 23 MPG)	310	7,191	6,644
2021 (Average vehicle MPG: 15 MPG)	412	6,307	2,048
2020		4,507	3,402
2019		9,154	6,964
2018		8,650	4,229
2017		9,550	5,000
2016		10,833	5,000
2015		9,967	5,000
2014		35,000	10,000
2013		45,000	40,000
2012		45,000	65,000

Offsets

Estimated tons of carbon absorbed in 2022 (i)

Estimated tons of carbon absorbed in 2022 ()			-7.7
Trees planted (i)	This year	Cumulative	Carbon (tons)
2022	350	691	-7.6
2021	321	341	-3.8
2020	20	20	-0.2
Direct air capture (DAC) (j			Carbon (tons)
2022 (62 kg carbon via ClimeWorks)			-0.068
2021 (55 kg carbon via ClimeWorks)			-0.061
Permanent underground mineralization (j)			Carbon (tons)
2022 (O kg carbon via DNV + Carbfix)			
Seaweed / algae farming 🛈			Carbon (tons)
2022 (0 kg carbon via —)			—

Estimated tons of carbon emitted in 2022 ()			TBD 2023
Pounds of material (i)	2020	2021	2022
Aluminum			5
Corrugated cardboard			25
Electronics		65	_
Generic recyclables	123	172	_
Glass			64
Landfill	37	93	58
Organic (Off-site)	289	234	208
Organic (On-site)			5
Paper		—	45
Plastics (#1 PET and #2 HDPE)		—	17
Plastics (#4 LDPE grocery bags)			4
Plastics (#5 PP)	_		6
Scrap metal	_	100	34
Tetra Paks	_		0.5
Tires	_	96	
Total	449	760	473
Pounds diverted from places it shouldn't have been	(j)	2021	2022
Organic waste in landfills (via –)			
Plastics in oceans & rivers (via The Ocean Cleanup)		30	120

Estimated tons of carbon emitted in 2022 (i)		TBD 2023
Gallons per year (i)	Municipal	Rain barre
2022 (New raised-bed gardens + re-seeded front yard)	21,217	627
2021	14,853	300
2020 (New water meter installed + rain barrel)	43,729	45
2019	88,000	_
2018	125,000	_
My Charity:water donations provided clean water for ①		People
2022		2

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