

**Per capita carbon emissions from transportation and residential energy use, 2005**

<b>Metropolitan Area</b>	<b>Rank</b>	<b>Carbon Footprint (metric tons)</b>
Honolulu, HI	1	1.356
Los Angeles-Long Beach-Santa Ana, CA	2	1.413
Portland-Vancouver-Beaverton, OR-WA	3	1.446
New York-Northern New Jersey-Long Island, NY-NJ-PA	4	1.495
Boise City-Nampa, ID	5	1.507
Seattle-Tacoma-Bellevue, WA	6	1.556
San Jose-Sunnyvale-Santa Clara, CA	7	1.573
San Francisco-Oakland-Fremont, CA	8	1.585
El Paso, TX	9	1.613
San Diego-Carlsbad-San Marcos, CA	10	1.630
Oxnard-Thousand Oaks-Ventura, CA	11	1.754
Sacramento--Arden-Arcade--Roseville, CA	12	1.768
Greenville, SC	13	1.859
Rochester, NY	14	1.908
Chicago-Naperville-Joliet, IL-IN-WI	15	1.965
Buffalo-Niagara Falls, NY	16	1.995
Tucson, AZ	17	2.000
Las Vegas-Paradise, NV	18	2.013
Stockton, CA	19	2.016
Boston-Cambridge-Quincy, MA-NH	20	2.024
Phoenix-Mesa-Scottsdale, AZ	21	2.072
Fresno, CA	22	2.076
Lancaster, PA	23	2.091
New Haven-Milford, CT	24	2.097
Poughkeepsie-Newburgh-Middletown, NY	25	2.133
Colorado Springs, CO	26	2.134
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	27	2.137
Miami-Fort Lauderdale-Miami Beach, FL	28	2.156
New Orleans-Metairie-Kenner, LA	29	2.162
Bridgeport-Stamford-Norwalk, CT	30	2.181
Cleveland-Elyria-Mentor, OH	31	2.235
Riverside-San Bernardino-Ontario, CA	32	2.257
San Antonio, TX	33	2.270
Pittsburgh, PA	34	2.276
Houston-Baytown-Sugar Land, TX	35	2.292
Virginia Beach-Norfolk-Newport News, VA-NC	36	2.340
Detroit-Warren-Livonia, MI	37	2.350
Albuquerque, NM	38	2.355
Allentown-Bethlehem-Easton, PA-NJ	39	2.364
Providence-New Bedford-Fall River, RI-MA	40	2.368
Hartford-West Hartford-East Hartford, CT	41	2.381
Denver-Aurora, CO	42	2.392
Charleston-North Charleston, SC	43	2.429
Milwaukee-Waukesha-West Allis, WI	44	2.436
Minneapolis-St. Paul-Bloomington, MN-WI	45	2.440
Springfield, MA	46	2.446
Tampa-St. Petersburg-Clearwater, FL	47	2.499
Baton Rouge, LA	48	2.511
Worcester, MA	49	2.517
Salt Lake City, UT	50	2.522
Albany-Schenectady-Troy, NY	51	2.524
Columbia, SC	52	2.534
Bakersfield, CA	53	2.540
Orlando, FL	54	2.551
Austin-Round Rock, TX	55	2.567
Greensboro-High Point, NC	56	2.576

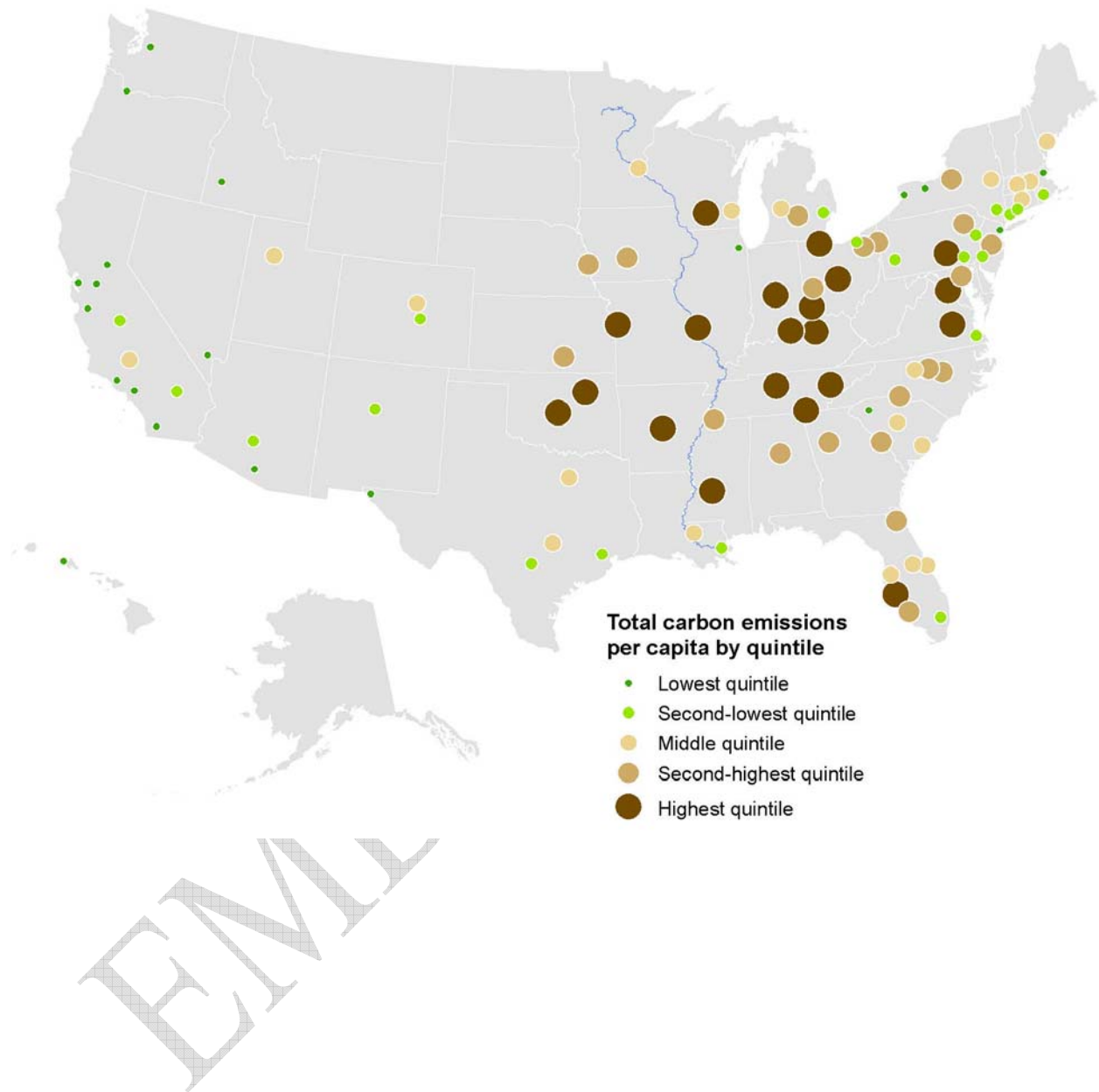
Source: Marilyn Brown, Frank Southworth, and Andrea Sarzynski, "Shrinking the Carbon Footprint of Metropolitan America" (Washington: Brookings Institution, 2008).

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<b>Metropolitan Area</b>	<b>Rank</b>	<b>Carbon Footprint (metric tons)</b>
Dallas-Fort Worth-Arlington, TX	57	2.582
Portland-South Portland-Biddeford, ME	58	2.599
Palm Bay-Melbourne-Titusville, FL	59	2.604
Grand Rapids-Wyoming, MI	60	2.609
Durham, NC	61	2.610
Akron, OH	62	2.637
Scranton--Wilkes-Barre, PA	63	2.660
Trenton-Ewing, NJ	63	2.660
Omaha-Council Bluffs, NE-IA	65	2.676
Wichita, KS	66	2.681
Syracuse, NY	67	2.682
Atlanta-Sandy Springs-Marietta, GA	67	2.682
Baltimore-Towson, MD	69	2.714
Cape Coral-Fort Myers, FL	70	2.739
Lansing-East Lansing, MI	71	2.754
Charlotte-Gastonia-Concord, NC-SC	72	2.757
Youngstown-Warren-Boardman, OH-PA	73	2.758
Des Moines, IA	74	2.765
Dayton, OH	75	2.769
Raleigh-Cary, NC	76	2.795
Memphis, TN-MS-AR	77	2.870
Augusta-Richmond County, GA-SC	78	2.885
Birmingham-Hoover, AL	79	2.901
Jacksonville, FL	80	2.905
Madison, WI	81	2.914
Sarasota-Bradenton-Venice, FL	81	2.914
Columbus, OH	83	2.952
Kansas City, MO-KS	84	2.969
Little Rock-North Little Rock, AR	85	3.009
Richmond, VA	86	3.039
Jackson, MS	87	3.063
Chattanooga, TN-GA	88	3.110
Washington-Arlington-Alexandria, DC-VA-MD-WV	89	3.115
Tulsa, OK	90	3.124
Knoxville, TN	91	3.134
Harrisburg-Carlisle, PA	92	3.190
Oklahoma City, OK	93	3.204
St. Louis, MO-IL	94	3.217
Nashville-Davidson--Murfreesboro, TN	95	3.222
Louisville, KY-IN	96	3.233
Toledo, OH	97	3.240
Cincinnati-Middletown, OH-KY-IN	98	3.281
Indianapolis, IN	99	3.364
Lexington-Fayette, KY	100	3.455
Average Footprint for the 100 Largest Metro Areas		2.235

Source: Marilyn Brown, Frank Southworth, and Andrea Sarzynski, "Shrinking the Carbon Footprint of Metropolitan America" (Washington: Brookings Institution, 2008).

**Per capita carbon emissions from transportation and residential energy use, 2005  
(metric tons)**



**Per capita carbon emissions from transportation, 2005**

Metropolitan Area	Highway Rank	Highway Total (metric tons)	Auto Rank	Auto (metric tons)	Truck Rank	Truck (metric tons)
New York-Northern New Jersey-Long Island, NY-NJ-PA	1	0.825	1	0.664	7	0.161
Honolulu, HI	2	0.847	3	0.786	1	0.061
Rochester, NY	3	0.950	7	0.812	2	0.138
Buffalo-Niagara Falls, NY	4	0.982	6	0.801	12	0.181
Los Angeles-Long Beach-Santa Ana, CA	5	1.022	17	0.882	3	0.139
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	6	1.023	5	0.789	22	0.234
Boston-Cambridge-Quincy, MA-NH	7	1.028	14	0.872	6	0.156
Lancaster, PA	8	1.030	2	0.767	29	0.263
Las Vegas-Paradise, NV	9	1.032	12	0.845	13	0.186
Portland-Vancouver-Beaverton, OR-WA	10	1.053	13	0.860	15	0.193
Boise City-Nampa, ID	11	1.059	10	0.830	20	0.229
Cleveland-Elyria-Mentor, OH	12	1.072	11	0.842	21	0.230
New Haven-Milford, CT	13	1.103	16	0.876	19	0.227
Colorado Springs, CO	14	1.109	21	0.937	9	0.172
Springfield, MA	15	1.114	23	0.948	8	0.166
El Paso, TX	16	1.129	9	0.830	39	0.300
Chicago-Naperville-Joliet, IL-IN-WI	17	1.132	8	0.820	41	0.312
Virginia Beach-Norfolk-Newport News, VA-NC	18	1.145	33	1.004	4	0.141
Greenville, SC	19	1.151	15	0.874	33	0.277
Washington-Arlington-Alexandria, DC-VA-MD-WV	20	1.157	30	0.984	10	0.173
New Orleans-Metairie-Kenner, LA	21	1.163	4	0.789	50	0.374
Providence-New Bedford-Fall River, RI-MA	22	1.168	37	1.014	5	0.154
San Jose-Sunnyvale-Santa Clara, CA	23	1.183	34	1.009	11	0.174
Pittsburgh, PA	24	1.185	19	0.913	32	0.272
Bridgeport-Stamford-Norwalk, CT	25	1.193	28	0.972	18	0.220
San Francisco-Oakland-Fremont, CA	26	1.195	32	0.998	16	0.197
Seattle-Tacoma-Bellevue, WA	27	1.200	24	0.955	25	0.245
San Antonio, TX	28	1.255	27	0.969	36	0.286
San Diego-Carlsbad-San Marcos, CA	29	1.270	48	1.078	14	0.192
Miami-Fort Lauderdale-Miami Beach, FL	30	1.295	42	1.031	30	0.264
Houston-Sugar Land-Baytown, TX	31	1.308	41	1.030	34	0.278
Hartford-West Hartford-East Hartford, CT	32	1.309	45	1.046	28	0.263
Poughkeepsie-Newburgh-Middletown, NY	32	1.309	35	1.010	37	0.299
Milwaukee-Waukesha-West Allis, WI	34	1.310	43	1.038	31	0.272
Dayton, OH	35	1.318	18	0.898	62	0.420
Allentown-Bethlehem-Easton, PA-NJ	36	1.337	26	0.964	49	0.373
Sacramento--Arden-Arcade--Roseville, CA	37	1.346	47	1.063	35	0.283
Minneapolis-St. Paul-Bloomington, MN-WI	37	1.346	50	1.090	27	0.256
Detroit-Warren-Livonia, MI	39	1.348	60	1.131	17	0.217
Baltimore-Towson, MD	40	1.355	44	1.044	40	0.311
Oxnard-Thousand Oaks-Ventura, CA	41	1.361	54	1.116	24	0.245
Wichita, KS	42	1.362	40	1.028	45	0.335
Denver-Aurora, CO	43	1.367	55	1.116	26	0.251
Akron, OH	44	1.371	39	1.023	48	0.348
Baton Rouge, LA	44	1.371	25	0.956	59	0.416
Tucson, AZ	46	1.394	20	0.924	74	0.470
Dallas-Fort Worth-Arlington, TX	47	1.406	49	1.081	43	0.325
Phoenix-Mesa-Scottsdale, AZ	48	1.414	22	0.940	77	0.474
Albuquerque, NM	49	1.431	31	0.990	67	0.442
Portland-South Portland-Biddeford, ME	50	1.443	51	1.097	47	0.346
Salt Lake City, UT	51	1.476	29	0.981	80	0.495
Worcester, MA	52	1.478	77	1.242	23	0.237
Tampa-St. Petersburg-Clearwater, FL	53	1.512	71	1.212	38	0.300

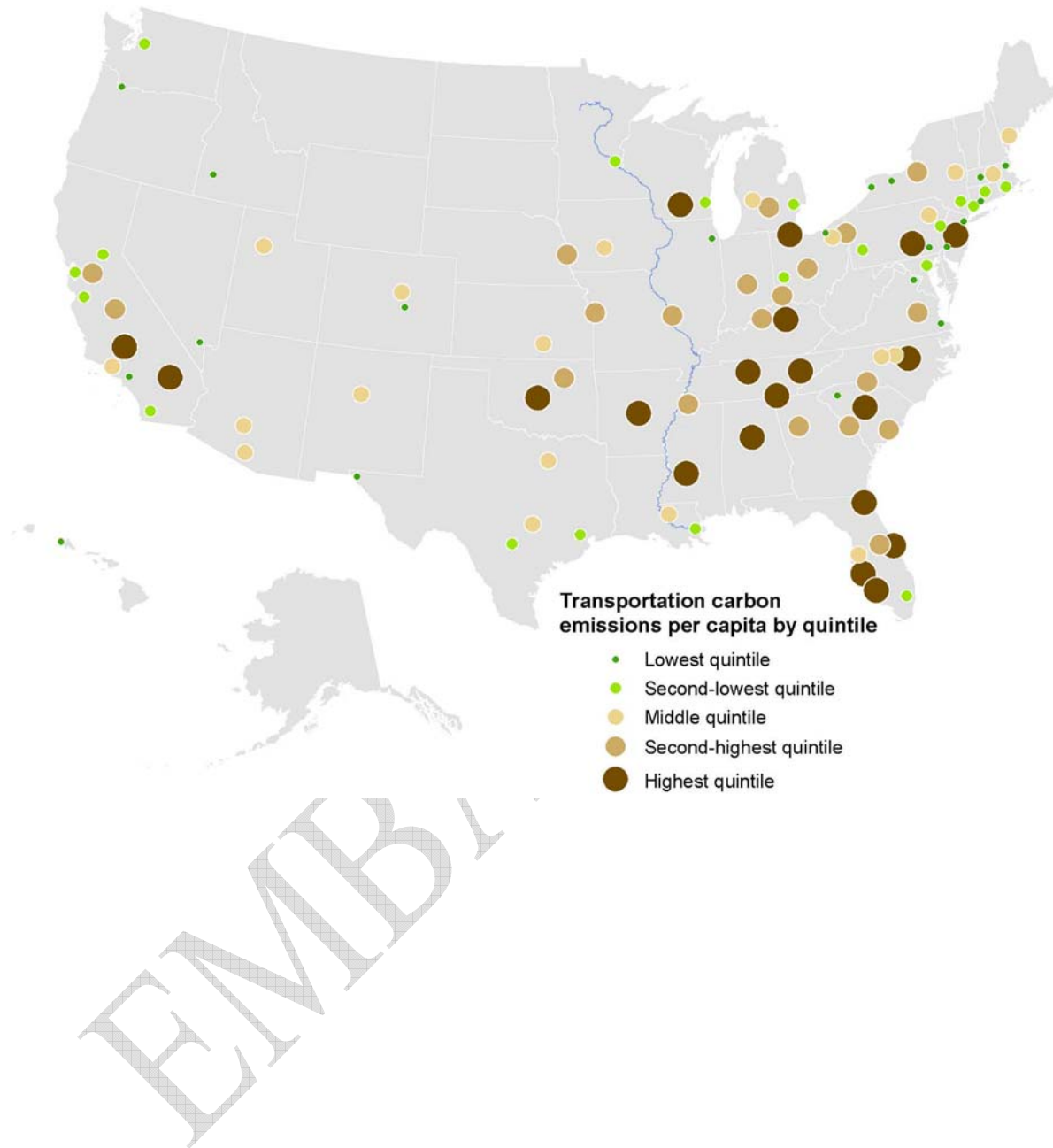
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Metropolitan Area	Highway Rank	Highway Total (metric tons)	Auto Rank	Auto (metric tons)	Truck Rank	Truck (metric tons)
Austin-Round Rock, TX	54	1.518	57	1.119	54	0.398
Greensboro-High Point, NC	55	1.522	53	1.104	60	0.418
Scranton--Wilkes-Barre, PA	56	1.524	36	1.011	81	0.513
Des Moines, IA	57	1.528	70	1.206	42	0.322
Grand Rapids-Wyoming, MI	58	1.536	69	1.197	46	0.339
Durham, NC	59	1.542	56	1.119	64	0.424
Albany-Schenectady-Troy, NY	60	1.559	75	1.231	44	0.328
Youngstown-Warren-Boardman, OH-PA	60	1.559	38	1.015	87	0.544
Omaha-Council Bluffs, NE-IA	62	1.566	63	1.147	61	0.419
Cincinnati-Middletown, OH-KY-IN	63	1.575	61	1.140	66	0.436
Stockton, CA	64	1.622	46	1.059	89	0.563
Kansas City, MO-KS	65	1.630	64	1.159	75	0.471
Atlanta-Sandy Springs-Marietta, GA	66	1.634	73	1.224	58	0.410
Charleston-North Charleston, SC	67	1.637	66	1.175	69	0.462
Lansing-East Lansing, MI	68	1.649	78	1.247	55	0.402
Columbus, OH	69	1.652	67	1.176	78	0.476
Orlando-Kissimmee, FL	70	1.684	81	1.277	57	0.408
Fresno, CA	71	1.687	62	1.146	86	0.541
Memphis, TN-MS-AR	72	1.692	65	1.162	85	0.530
Louisville, KY-IN	73	1.700	59	1.129	91	0.571
Tulsa, OK	73	1.700	87	1.305	53	0.395
St. Louis, MO-IL	75	1.707	76	1.235	76	0.473
Syracuse, NY	76	1.720	91	1.333	51	0.387
Charlotte-Gastonia-Concord, NC-SC	77	1.724	79	1.256	73	0.468
Indianapolis, IN	78	1.732	58	1.127	94	0.605
Richmond, VA	79	1.738	92	1.335	56	0.404
Augusta-Richmond County, GA-SC	80	1.740	74	1.226	82	0.514
Lexington-Fayette, KY	80	1.740	52	1.101	96	0.639
Raleigh-Cary, NC	82	1.754	82	1.277	79	0.477
Birmingham-Hoover, AL	83	1.756	93	1.335	63	0.421
Palm Bay-Melbourne-Titusville, FL	84	1.759	85	1.295	70	0.464
Columbia, SC	85	1.771	72	1.216	88	0.554
Cape Coral-Fort Myers, FL	86	1.808	95	1.373	65	0.435
Madison, WI	87	1.814	94	1.353	68	0.461
Oklahoma City, OK	88	1.846	90	1.320	84	0.526
Chattanooga, TN-GA	89	1.858	80	1.272	92	0.586
Knoxville, TN	90	1.867	97	1.402	71	0.465
Trenton-Ewing, NJ	91	1.877	100	1.483	52	0.394
Riverside-San Bernardino-Ontario, CA	92	1.885	83	1.289	93	0.596
Nashville-Davidson--Murfreesboro, TN	93	1.886	88	1.319	90	0.567
Sarasota-Bradenton-Venice, FL	94	1.897	96	1.381	83	0.516
Jacksonville, FL	95	1.902	98	1.435	72	0.467
Little Rock-North Little Rock, AR	96	1.999	84	1.293	97	0.706
Toledo, OH	97	2.005	68	1.190	99	0.815
Harrisburg-Carlisle, PA	98	2.041	89	1.320	98	0.721
Jackson, MS	99	2.073	99	1.459	95	0.614
Bakersfield, CA	100	2.189	86	1.303	100	0.886
Average Transportation Footprint for the 100 Largest Metro Areas		1.310		1.004		0.305

Source: Marilyn Brown, Frank Southworth, and Andrea Sarzynski, "Shrinking the Carbon Footprint of Metropolitan America" (Washington: Brookings Institution, 2008).

**Per capita carbon emissions from transportation, 2005 (metric tons)**



**Per capita carbon emissions from residential energy use, 2005**

Metropolitan Area	Rank	Residential Total (metric tons)	Residential Electricity (metric tons)	Other Residential Fuels (metric tons)
Bakersfield, CA	1	0.350	0.159	0.191
Seattle-Tacoma-Bellevue, WA	2	0.356	0.154	0.202
San Diego-Carlsbad-San Marcos, CA	3	0.360	0.157	0.202
Riverside-San Bernardino-Ontario, CA	4	0.372	0.184	0.188
San Jose-Sunnyvale-Santa Clara, CA	5	0.389	0.190	0.199
Fresno, CA	6	0.390	0.202	0.187
San Francisco-Oakland-Fremont, CA	6	0.390	0.176	0.215
Los Angeles-Long Beach-Santa Ana, CA	8	0.391	0.213	0.178
Portland-Vancouver-Beaverton, OR-WA	9	0.393	0.198	0.196
Stockton, CA	10	0.394	0.200	0.193
Oxnard-Thousand Oaks-Ventura, CA	10	0.394	0.189	0.205
Sacramento--Arden-Arcade--Roseville, CA	12	0.422	0.198	0.225
Boise City-Nampa, ID	13	0.447	0.143	0.304
El Paso, TX	14	0.483	0.364	0.119
Honolulu, HI	15	0.509	0.495	0.014
Tucson, AZ	16	0.606	0.509	0.097
Phoenix-Mesa-Scottsdale, AZ	17	0.658	0.570	0.087
New York-Northern New Jersey-Long Island, NY-NJ-PA	18	0.670	0.225	0.445
Greenville, SC	19	0.709	0.567	0.142
Columbia, SC	20	0.764	0.625	0.139
Trenton-Ewing, NJ	21	0.783	0.275	0.508
Charleston-North Charleston, SC	22	0.792	0.654	0.138
Poughkeepsie-Newburgh-Middletown, NY	23	0.824	0.313	0.511
Chicago-Naperville-Joliet, IL-IN-WI	24	0.833	0.374	0.459
Palm Bay-Melbourne-Titusville, FL	25	0.845	0.818	0.027
Miami-Fort Lauderdale-Miami Beach, FL	26	0.861	0.841	0.020
Orlando, FL	27	0.866	0.842	0.025
Albuquerque, NM	28	0.924	0.618	0.306
Cape Coral-Fort Myers, FL	29	0.932	0.906	0.026
Rochester, NY	30	0.958	0.384	0.574
Syracuse, NY	31	0.962	0.390	0.571
Albany-Schenectady-Troy, NY	32	0.966	0.381	0.584
Las Vegas-Paradise, NV	33	0.981	0.755	0.227
Houston-Baytown-Sugar Land, TX	34	0.983	0.858	0.125
Tampa-St. Petersburg-Clearwater, FL	35	0.988	0.961	0.026
Bridgeport-Stamford-Norwalk, CT	35	0.988	0.304	0.684
Jackson, MS	37	0.990	0.834	0.156
New Haven-Milford, CT	38	0.994	0.292	0.702
Boston-Cambridge-Quincy, MA-NH	39	0.996	0.412	0.584
New Orleans-Metairie-Kenner, LA	40	0.999	0.849	0.150
Detroit-Warren-Livonia, MI	41	1.002	0.385	0.617
Jacksonville, FL	42	1.003	0.979	0.024
Little Rock-North Little Rock, AR	43	1.010	0.803	0.207
Buffalo-Niagara Falls, NY	44	1.014	0.404	0.609
San Antonio, TX	45	1.015	0.880	0.135
Sarasota-Bradenton-Venice, FL	46	1.018	0.990	0.028
Denver-Aurora, CO	47	1.025	0.625	0.400
Colorado Springs, CO	47	1.025	0.620	0.405
Allentown-Bethlehem-Easton, PA-NJ	49	1.027	0.558	0.469
Charlotte-Gastonia-Concord, NC-SC	50	1.033	0.846	0.187
Worcester, MA	51	1.038	0.429	0.609
Raleigh-Cary, NC	52	1.041	0.859	0.182
Salt Lake City, UT	53	1.046	0.661	0.385

Source: Marilyn Brown, Frank Southworth, and Andrea Sarzynski, "Shrinking the Carbon Footprint of Metropolitan America" (Washington: Brookings Institution, 2008).

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Metropolitan Area	Rank	Residential Total (metric tons)	Residential Electricity (metric tons)	Other Residential Fuels (metric tons)
Atlanta-Sandy Springs-Marietta, GA	54	1.049	0.837	0.211
Austin-Round Rock, TX	54	1.049	0.913	0.137
Greensboro-High Point, NC	56	1.054	0.856	0.198
Lancaster, PA	57	1.061	0.565	0.496
Durham, NC	58	1.067	0.879	0.188
Hartford-West Hartford-East Hartford, CT	59	1.073	0.360	0.712
Grand Rapids-Wyoming, MI	59	1.073	0.486	0.586
Pittsburgh, PA	61	1.091	0.539	0.552
Minneapolis-St. Paul-Bloomington, MN-WI	62	1.094	0.658	0.436
Madison, WI	63	1.101	0.659	0.442
Lansing-East Lansing, MI	64	1.105	0.503	0.602
Omaha-Council Bluffs, NE-IA	65	1.109	0.756	0.354
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	66	1.114	0.619	0.495
Milwaukee-Waukesha-West Allis, WI	67	1.125	0.692	0.434
Scranton--Wilkes-Barre, PA	68	1.136	0.581	0.554
Baton Rouge, LA	68	1.139	0.994	0.145
Augusta-Richmond County, GA-SC	70	1.145	0.915	0.230
Birmingham-Hoover, AL	70	1.145	0.986	0.159
Harrisburg-Carlisle, PA	72	1.149	0.621	0.528
Portland-South Portland-Biddeford, ME	73	1.156	0.248	0.908
Cleveland-Elyria-Mentor, OH	74	1.163	0.694	0.468
Dallas-Fort Worth-Arlington, TX	75	1.177	1.046	0.131
Memphis, TN-MS-AR	76	1.178	0.995	0.183
Virginia Beach-Norfolk-Newport News, VA-NC	77	1.194	0.917	0.277
Youngstown-Warren-Boardman, OH-PA	78	1.199	0.767	0.432
Providence-New Bedford-Fall River, RI-MA	79	1.200	0.515	0.685
Toledo, OH	80	1.235	0.755	0.480
Des Moines, IA	81	1.237	0.840	0.397
Chattanooga, TN-GA	82	1.252	1.054	0.199
Akron, OH	83	1.266	0.780	0.485
Knoxville, TN	84	1.267	1.068	0.200
Columbus, OH	85	1.300	0.824	0.476
Richmond, VA	86	1.301	0.997	0.304
Wichita, KS	87	1.319	0.930	0.389
Springfield, MA	88	1.332	0.718	0.614
Nashville-Davidson--Murfreesboro, TN	89	1.336	1.150	0.186
Kansas City, MO-KS	90	1.339	1.024	0.315
Oklahoma City, OK	91	1.358	1.077	0.282
Baltimore-Towson, MD	91	1.358	1.015	0.343
Tulsa, OK	93	1.424	1.140	0.284
Dayton, OH	94	1.452	0.956	0.495
St. Louis, MO-IL	95	1.510	1.195	0.314
Louisville, KY-IN	96	1.532	1.318	0.215
Indianapolis, IN	97	1.632	1.235	0.397
Cincinnati-Middletown, OH-KY-IN	98	1.706	1.255	0.451
Lexington-Fayette, KY	99	1.715	1.477	0.238
Washington-Arlington-Alexandria, DC-VA-MD-WV	100	1.958	1.611	0.347
Average Residential Footprint for 100 Largest Metro Areas		0.925	0.611	0.314

Source: Marilyn Brown, Frank Southworth, and Andrea Sarzynski, "Shrinking the Carbon Footprint of Metropolitan America" (Washington: Brookings Institution, 2008).



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