

Enumeration of Kernel-Based Urban Areas (KBUs)

Data supplement to Rappaport, Jordan, and McKenzie Humann. 2025. “A Better Delineation of U.S. Metropolitan Areas.” Federal Reserve Bank of Kansas City, Research Working Paper no. 25-01, April.

The [paper](#) broadly defines metropolitan areas as unions of built-up locations near each other with combined population of at least moderate scale and among which a significant share of residents and workers travel on a day-to-day basis between places of residence, places of employment, and places of consumption. A wide range of parameterizations of our delineation algorithm are arguably consistent with this broad definition.

KBUs, our baseline parameterization, are likely to be appropriate for most questions and purposes. Their parameterization balances encompassing commuting flows and excluding locations insufficiently nearby or built up. One alternative parameterization, Kernel-Based Metropolitan Regions (KBMRs), more heavily weights encompassing commuting flows and so delineates metropolitan areas that are more expansive. Another alternative parameterization, Kernel-Based Urban Areas (KBUs), more heavily weights excluding less built-up and less near locations and so delineates metropolitan areas that are more compact.

Additional enumerations, workbooks, and maps are available from the paper’s [webpage](#).

Rank	KBUA Title	Cores	Population	Employment	Land Area (sq.mi)	Tracts	Max Dist (mi)	Inflow Rate	Outflow Rate
1	New York--Newark, NY--NJ	6	17,859,922	7,809,644	3,921	4,362	192	0.061	0.029
2	Los Angeles--Long Beach--Santa Ana, CA	6	12,745,111	5,391,525	2,136	2,629	102	0.070	0.039
3	Chicago, IL--IN--WI	3	8,474,063	3,914,412	2,634	1,926	98	0.058	0.031
4	Philadelphia, PA--NJ--DE--MD	4	5,229,738	2,375,141	2,154	1,334	99	0.099	0.076
5	Miami, FL	2	4,855,624	2,052,973	1,217	856	36	0.037	0.029
6	Dallas--Fort Worth--Arlington, TX	3	4,448,496	2,296,570	1,862	910	79	0.110	0.043
7	San Francisco--Oakland, CA	7	4,173,425	2,085,823	1,062	886	62	0.140	0.103
8	Houston, TX	7	4,054,278	1,895,492	1,769	758	73	0.103	0.046
9	Boston, MA--NH	1	4,035,292	2,180,812	2,040	839	68	0.143	0.053
10	Washington, DC--VA--MD	3	4,002,678	2,268,880	1,430	855	73	0.151	0.059
11	Detroit, MI	2	4,000,316	1,842,232	1,479	1,151	106	0.114	0.055
12	Atlanta, GA	4	3,544,702	1,953,350	2,509	564	84	0.137	0.041
13	Phoenix--Mesa, AZ	3	2,928,655	1,348,097	939	623	63	0.061	0.044
14	Seattle, WA	2	2,788,055	1,502,065	1,142	600	52	0.105	0.036
15	San Diego, CA	2	2,650,005	1,234,076	949	568	38	0.071	0.051
16	Minneapolis--St. Paul, MN--WI	5	2,443,757	1,450,660	1,092	631	71	0.147	0.037
17	Baltimore, MD	5	2,321,700	1,078,815	1,003	571	67	0.153	0.158
18	St. Louis, MO--IL	3	2,094,523	1,099,557	1,015	433	70	0.155	0.050
19	Tampa--St. Petersburg, FL	2	2,071,504	964,558	923	472	52	0.088	0.054
20	Denver--Aurora, CO	4	2,010,465	1,041,381	674	481	43	0.109	0.092
21	Cleveland, OH	2	1,842,368	932,065	826	599	70	0.169	0.064
22	Pittsburgh, PA	4	1,797,849	900,979	1,081	565	80	0.187	0.070
23	San Jose, CA	2	1,612,994	841,152	395	324	42	0.231	0.172
24	Portland, OR--WA	3	1,608,634	864,727	581	352	58	0.141	0.062
25	Cincinnati, OH--KY--IN	4	1,566,833	839,528	840	388	57	0.182	0.074
26	Riverside--San Bernardino, CA	1	1,462,799	462,153	543	272	53	0.260	0.375
27	Orlando, FL	4	1,458,564	754,305	852	293	41	0.146	0.088
28	Sacramento, CA	4	1,417,972	653,187	531	307	53	0.150	0.100
29	Virginia Beach, VA	2	1,395,468	691,377	614	328	54	0.090	0.053
30	Kansas City, MO--KS	2	1,379,806	764,923	727	404	52	0.188	0.073
31	San Antonio, TX	1	1,306,759	617,778	451	254	31	0.147	0.062
32	Las Vegas, NV	2	1,292,762	593,516	333	311	35	0.059	0.050
33	Milwaukee, WI	3	1,288,154	669,593	532	378	46	0.169	0.069
34	Indianapolis, IN	2	1,175,208	674,426	678	251	45	0.200	0.069
35	Columbus, OH	3	1,155,268	669,539	517	282	30	0.186	0.064
36	Providence, RI--MA	1	1,154,617	514,793	563	254	42	0.163	0.183
37	New Orleans, LA	3	1,054,125	471,887	296	328	56	0.136	0.069
38	Bridgeport--Stamford, CT--NY	2	1,031,516	504,523	640	238	48	0.233	0.201
39	Buffalo, NY	2	994,189	465,226	443	259	39	0.141	0.073
40	Memphis, TN--MS--AR	1	938,257	468,011	438	223	39	0.179	0.072
41	Austin, TX	3	888,363	550,939	425	192	26	0.212	0.082
42	Salt Lake City, UT	1	860,507	476,308	278	184	19	0.196	0.071
43	Hartford, CT	2	843,755	473,474	521	218	58	0.307	0.159
44	Louisville, KY--IN	1	843,592	475,189	438	203	33	0.206	0.053
45	Jacksonville, FL	1	827,887	430,804	397	152	30	0.178	0.097
46	Oklahoma City, OK	2	810,422	436,834	436	263	29	0.205	0.067
47	Honolulu, HI	3	808,939	393,515	266	200	39	0.068	0.028
48	Nashville-Davidson, TN	2	805,737	530,247	537	177	42	0.321	0.104
49	Richmond, VA	1	805,674	448,095	494	209	29	0.213	0.084
50	Charlotte, NC--SC	2	758,675	492,801	577	149	30	0.299	0.118

Enumeration of KBUAs (ranks 1 to 50 of 346): “Max Dist” is the distance between the tract centroids that are farthest from each other. Tables with more detailed variables for KBUAs and analogous tables for KBMAs and KBMRs are available from the paper’s [webpage](#).

Rank	KBUA Title	Cores	Population	Employment	Land Area (sq.mi)	Tracts	Max Dist (mi)	Inflow Rate	Outflow Rate
51	Tucson, AZ	1	717,288	340,410	355	165	26	0.112	0.060
52	Rochester, NY	1	668,651	365,882	314	173	43	0.228	0.078
53	Dayton, OH	1	662,709	346,711	350	166	30	0.249	0.146
54	Birmingham, AL	2	634,221	367,040	454	144	31	0.302	0.085
55	El Paso, TX--NM	1	631,014	235,341	250	117	30	0.119	0.077
56	Omaha, NE--IA	1	615,895	345,689	267	189	34	0.149	0.054
57	Fresno, CA	3	609,174	236,303	226	120	27	0.179	0.146
58	Albany, NY	2	606,393	355,194	395	155	32	0.257	0.077
59	Albuquerque, NM	3	603,451	292,639	278	144	21	0.140	0.095
60	Akron, OH	1	559,419	254,739	375	133	36	0.246	0.268
61	Sarasota--Bradenton, FL	1	552,143	232,728	318	134	34	0.125	0.094
62	Tulsa, OK	2	550,846	322,599	322	171	33	0.264	0.078
63	Grand Rapids, MI	1	547,947	328,384	330	115	41	0.282	0.122
64	Allentown--Bethlehem, PA--NJ	1	543,851	259,574	356	126	41	0.257	0.213
65	Springfield, MA--CT	1	532,848	245,552	335	116	30	0.250	0.224
66	New Haven, CT	1	532,389	251,289	355	121	47	0.282	0.267
67	Raleigh, NC	2	519,964	338,439	425	92	27	0.358	0.220
68	Toledo, OH--MI	1	487,275	234,213	219	132	31	0.207	0.154
69	McAllen, TX	1	481,152	154,881	405	67	34	0.152	0.134
70	Baton Rouge, LA	2	451,230	240,627	336	96	24	0.263	0.104
71	Colorado Springs, CO	1	441,164	226,330	232	99	16	0.151	0.131
72	Knoxville, TN	2	430,921	265,706	429	95	38	0.326	0.094
73	Palm Bay--Melbourne, FL	2	430,900	184,837	267	83	25	0.109	0.109
74	Charleston--North Charleston, SC	1	409,450	211,787	307	89	32	0.193	0.121
75	Youngstown, OH--PA	1	409,037	180,488	269	122	34	0.257	0.200
76	Columbia, SC	1	401,919	246,492	322	98	27	0.291	0.100
77	Wichita, KS	1	400,403	217,414	191	108	36	0.222	0.105
78	Syracuse, NY	1	400,381	229,079	221	125	34	0.279	0.080
79	Worcester, MA--CT	1	395,819	193,606	270	91	32	0.367	0.329
80	Modesto, CA	3	391,500	137,317	155	77	24	0.204	0.257
81	Oxnard, CA	3	389,561	153,584	119	77	22	0.248	0.313
82	Bakersfield, CA	2	389,400	140,902	139	85	25	0.179	0.186
83	Stockton, CA	2	379,366	130,238	125	83	16	0.251	0.285
84	Ogden--Layton, UT	1	373,340	156,043	189	76	19	0.196	0.266
85	Harrisburg, PA	2	365,532	252,680	244	82	43	0.394	0.133
86	Lakeland, FL	3	354,275	156,579	302	80	32	0.252	0.214
87	Scranton, PA	1	353,477	181,994	204	112	48	0.289	0.121
88	Cape Coral, FL	2	352,524	143,700	283	85	29	0.169	0.176
89	Greenville, SC	2	351,110	213,129	327	84	29	0.345	0.179
90	Flint, MI	1	350,127	161,386	241	101	27	0.324	0.244
91	Manchester--Nashua, NH	2	347,172	183,125	293	70	27	0.320	0.309
92	Boise City, ID	2	344,384	186,409	216	57	37	0.197	0.125
93	Little Rock, AR	1	331,390	210,311	231	74	41	0.371	0.161
94	Madison, WI	2	330,670	229,055	179	72	23	0.282	0.121
95	Poughkeepsie--Newburgh, NY	1	328,190	139,307	296	69	37	0.384	0.398
96	Des Moines, IA	1	326,850	214,853	162	71	21	0.294	0.112
97	Spokane, WA	2	326,775	175,911	158	83	39	0.244	0.100
98	Mobile, AL	2	321,599	153,803	224	100	26	0.294	0.155
99	Chattanooga, TN--GA	1	319,161	177,661	320	72	18	0.284	0.117
100	Pensacola, FL	1	317,733	146,564	264	60	27	0.181	0.132

Enumeration of KBUAs (ranks 51 to 100 of 346): “Max Dist” is the distance between the tract centroids that are farthest from each other. Tables with more detailed variables for KBUAs and analogous tables for KBMAs and KBMRs are available from the paper’s [webpage](#).

Rank	KBUA Title	Cores	Population	Employment	Land Area (sq.mi)	Tracts	Max Dist (mi)	Inflow Rate	Outflow Rate
101	Augusta-Richmond County, GA--SC	1	316,508	137,934	281	60	33	0.252	0.242
102	Provo--Orem, UT	2	313,746	139,104	135	71	20	0.172	0.170
103	Santa Rosa, CA	2	310,938	151,503	174	59	23	0.267	0.272
104	Lancaster, PA	2	309,432	169,781	236	64	36	0.305	0.216
105	Lansing, MI	1	302,696	187,236	184	86	32	0.322	0.149
106	Corpus Christi, TX	2	299,521	115,248	125	58	27	0.147	0.212
107	Fort Wayne, IN	1	282,010	156,572	176	77	20	0.263	0.159
108	Jackson, MS	2	280,912	157,669	197	70	25	0.371	0.194
109	Lexington-Fayette, KY	3	280,220	159,287	135	63	23	0.270	0.203
110	Durham, NC	1	279,046	206,541	233	63	19	0.448	0.180
111	Reno, NV	1	278,420	157,351	153	51	13	0.206	0.083
112	Canton, OH	1	277,027	137,294	194	59	22	0.272	0.220
113	Ann Arbor, MI	1	271,323	168,210	144	82	25	0.430	0.314
114	Winston-Salem, NC	1	269,901	159,843	266	67	26	0.366	0.196
115	Trenton, NJ	1	262,855	126,376	107	61	18	0.465	0.424
116	Greensboro, NC	1	262,285	187,215	186	63	18	0.442	0.211
117	Davenport, IA--IL	1	261,864	145,351	167	77	18	0.238	0.101
118	Barnstable Town, MA	1	259,694	98,862	427	55	55	0.110	0.238
119	South Bend, IN--MI	1	256,104	130,323	155	69	19	0.267	0.188
120	Fayetteville, NC	1	254,640	139,877	214	43	13	0.254	0.104
121	Indio--Palm Springs--Cathedral City, CA	2	254,511	97,629	138	59	27	0.298	0.282
122	Port St. Lucie, FL	1	253,176	94,459	187	48	19	0.195	0.242
123	Shreveport, LA	1	247,160	142,337	195	65	21	0.342	0.083
124	Lancaster--Palmdale, CA	1	243,647	53,776	99	48	15	0.308	0.570
125	Rockford, IL	1	238,177	121,111	112	66	22	0.296	0.221
126	Daytona Beach--Port Orange, FL	1	232,630	103,079	136	48	15	0.228	0.187
127	Lincoln, NE	1	225,386	135,841	91	53	12	0.174	0.088
128	Beaumont, TX	2	224,730	103,136	148	63	22	0.323	0.180
129	Bonita Springs, FL	2	224,143	110,693	166	46	14	0.265	0.124
130	Peoria, IL	1	223,586	123,117	153	58	18	0.331	0.184
131	Anchorage, AK	2	220,937	108,750	74	46	31	0.170	0.163
132	Eugene, OR	1	220,487	121,609	91	51	21	0.226	0.112
133	Montgomery, AL	2	219,768	121,755	130	53	23	0.337	0.142
134	Boulder--Longmont, CO	3	213,180	141,484	100	49	15	0.402	0.268
135	Reading, PA	1	212,368	114,380	108	55	15	0.377	0.248
136	Evansville, IN--KY	1	208,489	124,608	145	57	27	0.309	0.115
137	Columbus, GA--AL	1	203,164	99,252	119	57	16	0.295	0.157
138	Springfield, MO	1	202,465	136,447	130	53	16	0.369	0.122
139	Gulfport--Biloxi, MS	1	201,519	114,456	178	45	44	0.315	0.148
140	Santa Cruz--Watsonville, CA	2	200,705	92,474	77	40	28	0.270	0.298
141	Huntsville, AL	1	200,151	130,621	217	56	16	0.388	0.163
142	Lubbock, TX	1	199,811	102,493	89	52	23	0.204	0.108
143	Atlantic City, NJ	1	199,759	112,376	133	51	27	0.357	0.175
144	Fort Collins, CO	1	199,293	113,016	113	47	15	0.249	0.194
145	Salem, OR	2	195,645	95,242	69	35	21	0.326	0.248
146	Erie, PA	1	194,796	100,872	85	53	37	0.266	0.130
147	York, PA	1	194,308	110,286	159	47	21	0.352	0.241
148	Fairfield--Vacaville, CA	2	194,275	57,374	84	34	10	0.263	0.492
149	Tallahassee, FL	1	193,176	127,630	127	41	14	0.316	0.070
150	Waterbury, CT	1	186,350	61,869	106	43	11	0.360	0.519

Enumeration of KBUAs (ranks 101 to 150 of 346): “Max Dist” is the distance between the tract centroids that are farthest from each other. Tables with more detailed variables for KBUAs and analogous tables for KBMAs and KBMRs are available from the paper’s [webpage](#).

Rank	KBUA Title	Cores	Population	Employment	Land Area (sq.mi)	Tracts	Max Dist (mi)	Inflow Rate	Outflow Rate
151	Roanoke, VA	1	184,679	118,735	115	39	17	0.332	0.079
152	Santa Barbara, CA	1	183,076	106,285	63	37	27	0.260	0.121
153	Savannah, GA	1	182,502	100,898	137	57	13	0.334	0.148
154	Lorain--Elyria, OH	1	181,985	72,681	101	49	20	0.303	0.375
155	Green Bay, WI	1	181,200	112,826	100	41	14	0.313	0.167
156	Kalamazoo, MI	2	180,775	110,017	115	47	26	0.358	0.200
157	Bremerton, WA	1	177,461	83,211	143	40	14	0.275	0.249
158	Appleton, WI	1	175,849	112,461	84	43	16	0.349	0.198
159	Amarillo, TX	1	173,192	86,818	112	49	17	0.219	0.097
160	Temecula--Murrieta, CA	1	172,933	48,138	110	33	21	0.460	0.614
161	Lafayette, LA	1	171,895	102,857	175	37	10	0.357	0.132
162	Portland, ME	1	167,458	123,506	119	42	21	0.447	0.209
163	Victorville--Hesperia--Apple Valley, CA	1	166,681	41,167	108	28	13	0.344	0.533
164	Salinas, CA	1	166,391	53,322	48	31	18	0.386	0.443
165	Gainesville, FL	1	164,937	97,391	118	30	11	0.328	0.141
166	Hickory, NC	1	164,151	123,013	239	34	37	0.482	0.209
167	Asheville, NC	1	161,837	88,523	185	40	41	0.489	0.192
168	Muskegon, MI	1	159,537	77,318	154	38	15	0.294	0.225
169	Laredo, TX	1	158,798	51,515	44	28	4	0.180	0.160
170	Fayetteville--Springdale, AR	1	157,294	111,209	132	32	8	0.432	0.152
171	Norwich--New London, CT	1	154,869	95,624	132	39	19	0.424	0.263
172	Waco, TX	1	151,254	81,673	103	35	11	0.321	0.105
173	Visalia, CA	2	150,497	51,640	59	32	20	0.331	0.389
174	Cedar Rapids, IA	1	148,941	99,588	98	33	11	0.326	0.142
175	Brownsville, TX	1	147,586	47,823	47	43	7	0.289	0.234
176	New Bedford, MA	1	147,153	59,515	92	42	15	0.325	0.342
177	Binghamton, NY	1	144,110	89,666	80	41	28	0.405	0.140
178	Killeen, TX	1	142,767	82,882	171	24	19	0.322	0.198
179	Huntington, WV--KY--OH	1	141,872	77,829	92	46	31	0.456	0.226
180	Wilmington, NC	1	140,791	81,220	110	29	11	0.295	0.168
181	Fort Walton Beach, FL	1	139,422	69,236	90	26	34	0.237	0.213
182	Charleston, WV	1	137,558	96,945	124	38	28	0.471	0.109
183	Spartanburg, SC	1	137,555	88,797	165	33	20	0.473	0.239
184	Olympia--Lacey, WA	1	136,303	77,893	96	23	16	0.376	0.260
185	Gastonia, NC	1	135,749	60,784	148	33	19	0.418	0.428
186	Springfield, IL	1	135,508	101,650	97	40	11	0.392	0.078
187	Fargo, ND--MN	1	133,160	83,191	52	28	12	0.208	0.110
188	Saginaw, MI	1	130,879	68,085	74	34	15	0.448	0.281
189	Kennewick--Richland, WA	1	129,171	61,215	98	25	18	0.287	0.194
190	Topeka, KS	1	128,605	88,597	94	32	11	0.379	0.096
191	Racine, WI	1	128,485	56,082	54	28	21	0.289	0.306
192	Elkhart, IN	1	128,335	84,150	116	19	15	0.415	0.221
193	Utica, NY	2	127,134	65,213	80	42	24	0.414	0.212
194	High Point, NC	1	126,615	74,348	114	30	11	0.498	0.386
195	Panama City, FL	1	125,875	64,614	119	24	22	0.189	0.080
196	Sioux Falls, SD	1	123,538	87,412	61	25	15	0.290	0.084
197	Champaign, IL	1	122,325	84,488	66	29	8	0.335	0.081
198	Lake Charles, LA	1	121,162	61,485	95	29	25	0.373	0.232
199	Santa Maria, CA	1	120,985	41,614	54	25	8	0.276	0.367
200	Macon, GA	1	118,767	59,451	80	34	12	0.465	0.293

Enumeration of KBUAs (ranks 151 to 200 of 346): “Max Dist” is the distance between the tract centroids that are farthest from each other. Tables with more detailed variables for KBUAs and analogous tables for KBMAs and KBMRs are available from the paper’s [webpage](#).

Rank	KBUA Title	Cores	Population	Employment	Land Area (sq.mi)	Tracts	Max Dist (mi)	Inflow Rate	Outflow Rate
201	Medford, OR	1	118,711	67,515	88	22	17	0.308	0.093
202	San Luis Obispo, CA	3	118,094	57,290	72	22	23	0.304	0.266
203	College Station--Bryan, TX	1	116,814	62,617	38	24	7	0.309	0.160
204	Concord, NC	1	115,630	53,939	129	19	8	0.476	0.492
205	Frederick, MD	1	115,154	66,639	112	17	17	0.507	0.457
206	Pueblo, CO	1	114,174	42,832	64	41	16	0.226	0.254
207	Seaside--Monterey--Marina, CA	1	112,277	55,010	43	28	12	0.330	0.305
208	Lafayette, IN	1	111,836	72,846	41	28	7	0.372	0.137
209	Vero Beach--Sebastian, FL	1	110,126	41,834	104	23	12	0.249	0.266
210	North Port, FL	1	108,573	35,876	91	18	17	0.301	0.324
211	Merced, CA	1	107,467	33,424	53	26	12	0.245	0.317
212	Bloomington--Normal, IL	1	105,888	76,907	46	28	7	0.354	0.105
213	Tuscaloosa, AL	1	105,375	60,233	83	29	9	0.382	0.175
214	Billings, MT	1	105,228	61,389	64	23	24	0.208	0.055
215	Chico, CA	2	104,823	49,140	50	22	21	0.291	0.227
216	Hagerstown, MD--WV	1	103,163	55,597	94	23	21	0.531	0.332
217	Abilene, TX	1	102,809	54,630	55	30	9	0.257	0.113
218	Duluth, MN--WI	1	101,913	66,720	69	42	13	0.398	0.148
219	Yakima, WA	1	100,929	51,340	38	17	13	0.414	0.212
220	Clarksville, TN--KY	1	100,842	56,206	103	20	13	0.404	0.307
221	Lynchburg, VA	1	100,062	59,802	115	27	12	0.383	0.149
222	Odessa, TX	1	99,733	42,731	60	24	10	0.272	0.207
223	Grand Junction, CO	1	99,059	46,071	90	23	24	0.145	0.116
224	Wichita Falls, TX	2	98,838	56,401	67	27	14	0.283	0.131
225	Redding, CA	1	98,332	50,982	85	19	11	0.356	0.144
226	Leominster--Fitchburg, MA	1	97,996	44,625	67	22	19	0.487	0.481
227	Jacksonville, NC	1	97,342	50,027	97	18	11	0.328	0.360
228	Waterloo, IA	1	97,110	57,199	61	30	12	0.347	0.191
229	Athens-Clarke County, GA	1	96,911	63,609	90	27	12	0.451	0.192
230	Yuba City, CA	1	95,823	31,288	58	19	9	0.274	0.350
231	Fort Smith, AR	1	95,320	74,568	76	21	7	0.498	0.087
232	Monroe, LA	1	94,664	55,376	75	28	12	0.446	0.199
233	Kenosha, WI	1	94,210	29,636	31	23	4	0.347	0.552
234	Yuma, AZ	1	93,925	35,721	40	19	8	0.259	0.230
235	Sioux City, IA--NE	1	93,818	48,022	53	23	10	0.306	0.259
236	Hemet, CA	1	92,545	24,750	31	25	8	0.420	0.488
237	Burlington, VT	1	92,259	73,126	86	20	11	0.445	0.177
238	Columbia, MO	1	92,151	69,399	76	20	7	0.384	0.109
239	Johnson City, TN	1	91,719	49,359	106	22	17	0.464	0.285
240	Fredericksburg, VA	1	90,930	42,389	94	14	11	0.480	0.513
241	Midland, TX	1	90,783	41,775	34	23	7	0.269	0.217
242	Bloomington, IN	1	89,944	56,610	55	22	10	0.358	0.151
243	Harlingen, TX	1	89,439	38,099	59	20	14	0.476	0.320
244	Myrtle Beach, SC	1	88,884	74,118	80	23	28	0.528	0.163
245	Vineland, NJ	2	88,686	36,874	54	21	21	0.510	0.459
246	Eau Claire, WI	1	87,021	59,583	63	19	12	0.382	0.169
247	Holland, MI	1	86,832	64,573	63	13	12	0.490	0.232
248	Greeley, CO	1	86,435	41,209	39	19	6	0.321	0.299
249	Brooksville, FL	1	86,172	23,481	68	16	16	0.430	0.493
250	Rochester, MN	1	85,939	71,288	47	25	17	0.433	0.097

Enumeration of KBUAs (ranks 201 to 250 of 346): “Max Dist” is the distance between the tract centroids that are farthest from each other. Tables with more detailed variables for KBUAs and analogous tables for KBMAs and KBMRs are available from the paper’s [webpage](#).

Rank	KBUA Title	Cores	Population	Employment	Land Area (sq.mi)	Tracts	Max Dist (mi)	Inflow Rate	Outflow Rate
251	Anderson, IN	1	85,410	37,234	73	24	12	0.385	0.384
252	Decatur, IL	1	84,528	49,034	56	28	7	0.384	0.150
253	Springfield, OH	1	84,506	39,546	48	26	8	0.394	0.324
254	Ocala, FL	1	84,296	62,666	86	19	12	0.576	0.230
255	Tyler, TX	1	83,938	56,250	55	22	8	0.548	0.286
256	Warner Robins, GA	1	83,144	38,972	79	14	6	0.321	0.324
257	Longview, TX	2	82,996	52,029	79	18	11	0.488	0.194
258	Burlington, NC	1	82,921	52,008	75	14	16	0.468	0.296
259	Greenville, NC	1	81,831	47,085	81	11	8	0.408	0.274
260	Jackson, MI	1	81,275	47,429	70	23	9	0.503	0.277
261	La Crosse, WI--MN	1	81,118	54,853	46	19	16	0.372	0.148
262	Houma, LA	1	80,881	36,872	59	18	21	0.519	0.424
263	Leesburg--Eustis, FL	1	80,577	43,296	78	15	19	0.573	0.359
264	San Angelo, TX	1	80,393	39,466	50	18	6	0.226	0.155
265	Albany, GA	1	80,319	49,506	75	24	13	0.482	0.114
266	Port Huron, MI	1	77,407	43,549	55	23	7	0.407	0.254
267	Kingsport, TN	1	77,334	43,651	95	19	13	0.502	0.268
268	St. Cloud, MN	1	77,068	59,498	49	15	6	0.455	0.232
269	Lawrence, KS	1	76,808	40,550	36	15	6	0.264	0.289
270	Las Cruces, NM	1	76,503	34,296	61	15	6	0.399	0.340
271	Santa Fe, NM	1	75,377	54,285	42	22	10	0.406	0.127
272	Parkersburg, WV--OH	1	75,300	48,417	47	26	12	0.505	0.152
273	Napa, CA	1	75,245	29,944	25	16	8	0.399	0.470
274	Battle Creek, MI	1	74,478	45,585	70	22	22	0.496	0.269
275	Bellingham, WA	1	73,891	43,576	49	11	13	0.428	0.307
276	Gainesville, GA	1	73,751	52,831	95	12	12	0.589	0.344
277	Mansfield, OH	2	73,244	45,328	57	21	13	0.493	0.242
278	Charlottesville, VA	1	72,973	57,649	33	20	6	0.548	0.215
279	Iowa City, IA	1	71,278	59,965	34	16	7	0.423	0.156
280	El Centro--Calxico, CA	2	71,182	14,337	28	13	14	0.270	0.339
281	Muncie, IN	1	71,120	43,745	35	22	5	0.448	0.222
282	Cheyenne, WY	1	70,356	35,678	51	16	7	0.156	0.087
283	St. Joseph, MO	1	70,261	38,594	37	21	6	0.366	0.167
284	Florence, AL	1	69,679	44,368	68	18	8	0.498	0.210
285	Anniston, AL	1	68,455	38,660	106	17	9	0.442	0.203
286	Rochester--Dover, NH	1	68,216	31,991	63	14	11	0.494	0.539
287	Alexandria, LA	1	67,976	42,042	65	20	9	0.490	0.163
288	Lima, OH	1	67,513	39,485	54	23	7	0.478	0.242
289	Oshkosh, WI	1	66,669	37,010	32	16	6	0.368	0.316
290	Altoona, PA	1	66,105	44,219	27	21	7	0.520	0.221
291	Rock Hill, SC	1	65,892	33,762	71	16	9	0.528	0.488
292	Wheeling, WV--OH	1	65,855	42,243	49	30	15	0.535	0.236
293	Hanford, CA	2	64,921	12,663	28	13	11	0.258	0.433
294	Logan, UT	1	64,812	32,872	53	13	5	0.273	0.210
295	Texarkana, TX--AR	1	64,812	41,993	50	15	7	0.497	0.152
296	Newark, OH	1	64,683	33,430	73	16	8	0.437	0.363
297	Lawton, OK	1	64,209	24,186	28	20	7	0.404	0.450
298	State College, PA	2	62,737	48,135	28	13	11	0.539	0.190
299	Florence, SC	2	62,585	46,271	73	16	10	0.572	0.282
300	Davis, CA	1	62,101	30,114	16	13	6	0.394	0.408

Enumeration of KBUAs (ranks 251 to 300 of 346): “Max Dist” is the distance between the tract centroids that are farthest from each other. Tables with more detailed variables for KBUAs and analogous tables for KBMAs and KBMRs are available from the paper’s [webpage](#).

Rank	KBUA Title	Cores	Population	Employment	Land Area (sq.mi)	Tracts	Max Dist (mi)	Inflow Rate	Outflow Rate
301	Dover, DE	2	61,420	41,021	74	16	11	0.517	0.293
302	Dubuque, IA	1	61,132	40,704	32	17	6	0.362	0.139
303	Johnstown, PA	1	61,111	36,086	38	26	8	0.505	0.216
304	Joplin, MO	1	60,588	42,817	66	13	7	0.497	0.216
305	Pocatello, ID	1	59,735	28,239	35	16	6	0.209	0.170
306	Longview, WA	1	59,732	17,240	36	15	8	0.314	0.285
307	Jackson, TN	1	59,722	41,821	59	17	6	0.535	0.261
308	Idaho Falls, ID	1	59,694	38,028	32	14	9	0.417	0.127
309	Mandeville--Covington, LA	1	59,424	27,893	67	9	5	0.547	0.525
310	Kokomo, IN	1	59,277	41,409	35	15	5	0.483	0.175
311	Sheboygan, WI	1	59,055	37,498	31	12	5	0.383	0.222
312	Rocky Mount, NC	1	58,307	29,884	59	12	6	0.510	0.306
313	Terre Haute, IN	1	58,193	36,509	29	21	6	0.551	0.309
314	Weirton--Steubenville, WV--OH	1	57,914	30,077	32	20	12	0.526	0.359
315	Hattiesburg, MS	1	57,904	37,347	59	14	8	0.484	0.228
316	Corvallis, OR	1	57,308	35,351	41	14	9	0.373	0.153
317	Lebanon, PA	1	57,214	26,461	38	14	14	0.447	0.449
318	Elmira, NY	1	57,012	32,044	29	17	4	0.482	0.236
319	Missoula, MT	1	56,478	42,151	53	11	6	0.408	0.139
320	Benton Harbor--St. Joseph, MI	1	56,229	32,358	41	18	9	0.479	0.293
321	Bay City, MI	1	56,130	26,465	26	17	5	0.497	0.459
322	Michigan City, IN	1	55,957	32,625	42	17	15	0.520	0.369
323	Great Falls, MT	1	55,769	27,937	35	17	12	0.283	0.222
324	Dalton, GA	2	55,403	55,484	76	11	18	0.657	0.205
325	Victoria, TX	1	54,796	27,042	29	14	3	0.381	0.266
326	Grand Forks, ND--MN	1	54,646	30,679	27	14	6	0.242	0.196
327	Wildwood--North Wildwood--Cape May, NJ	1	54,497	20,177	59	12	10	0.268	0.323
328	Kahului--Kihei, HI	2	54,021	17,424	15	10	12	0.414	0.365
329	Coeur d'Alene, ID	1	53,945	27,908	30	11	12	0.468	0.386
330	Bowling Green, KY	1	53,257	40,904	47	11	5	0.503	0.206
331	Sumter, SC	1	53,051	24,853	49	11	10	0.488	0.431
332	Slidell, LA	1	52,734	20,832	34	11	7	0.530	0.585
333	Anderson, SC	1	52,617	35,791	58	14	11	0.606	0.367
334	Wausau, WI	1	52,301	31,976	29	13	6	0.497	0.374
335	Pascagoula, MS	1	51,887	29,604	34	15	10	0.544	0.338
336	Beloit, WI--IL	1	51,823	19,722	32	13	4	0.463	0.548
337	Tracy, CA	1	51,821	10,842	9	7	2	0.516	0.764
338	Porterville, CA	1	51,702	18,005	21	10	6	0.422	0.405
339	Portsmouth, NH--ME	1	51,456	42,582	60	12	9	0.670	0.478
340	Owensboro, KY	1	51,393	30,883	29	14	6	0.514	0.290
341	Sherman, TX	1	51,289	32,498	51	13	6	0.527	0.293
342	Morgantown, WV	1	50,870	39,885	47	14	8	0.505	0.111
343	Salisbury, MD	1	50,807	21,307	45	11	6	0.496	0.242
344	Kankakee, IL	1	50,630	21,387	35	13	6	0.483	0.502
345	Auburn, AL	1	50,100	32,376	45	11	9	0.522	0.241
346	Temple, TX	1	50,083	28,855	33	13	10	0.595	0.459

Enumeration of KBUAs (ranks 301 to 346 of 346): “Max Dist” is the distance between the tract centroids that are farthest from each other. Tables with more detailed variables for KBUAs and analogous tables for KBMAs and KBMRs are available from the paper’s [webpage](#).