

# MSCS 264: Homework #14

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1. Read in the table of data found at this link: [https://en.wikipedia.org/wiki/List\\_of\\_United\\_States\\_cities\\_by\\_population](https://en.wikipedia.org/wiki/List_of_United_States_cities_by_population) and create a scatterplot of land area versus the 2018 estimated population. Identify and label any outlier cities using `geom_label_repel()`. Additionally, do necessary tidying: get rid of extraneous information in the cells, parse columns into the proper format, etc. A few things to look for:

#tibble2 is tidy, I just labeled the columns in tibble1 that I was going to actually use later on. To skip output in this chunk go to page 29.

```
link <- read_html("https://en.wikipedia.org/wiki/List_of_United_States_cities_by_population")
tables <- html_nodes(link, css = "table")
html_table(tables, header = TRUE, fill = TRUE)
```

```
## [[1]]
##   Map all coordinates using: OpenStreetMap
## 1       Download coordinates as: KML · GPX
##
## [[2]]
##
## 1
## 2
## 3
## 4
## 5
## 6
## 7 569 Primary Statistical Areas176 Combined Statistical Areas938 Core Based Statistical Areas392 Me
## 8
## 9
## 10
##
## [[3]]
##   Map this section's coordinates using: OpenStreetMap
## 1       Download coordinates as: KML · GPX
##
## [[4]]
##
##           State capital
## 1 NA           State largest city
## 2 NA State capital and largest city
## 3 NA           Federal capital
##
## [[5]]
##           2018rank           City           State[c] 2018estimate
## 1           1       New York[d]       New York    8,398,748
## 2           2       Los Angeles       California  3,990,456
## 3           3           Chicago       Illinois    2,705,994
## 4           4       Houston[3]       Texas        2,325,502
## 5           5           Phoenix       Arizona    1,660,272
## 6           6 Philadelphia[e]       Pennsylvania  1,584,138
## 7           7       San Antonio       Texas        1,532,233
## 8           8       San Diego         California  1,425,976
```

## 9	9	Dallas	Texas	1,345,047
## 10	10	San Jose	California	1,030,119
## 11	11	Austin	Texas	964,254
## 12	12	Jacksonville[f]	Florida	903,889
## 13	13	Fort Worth	Texas	895,008
## 14	14	Columbus	Ohio	892,533
## 15	15	San Francisco[g]	California	883,305
## 16	16	Charlotte	North Carolina	872,498
## 17	17	Indianapolis[h]	Indiana	867,125
## 18	18	Seattle	Washington	744,955
## 19	19	Denver[i]	Colorado	716,492
## 20	20	Washington[j]	District of Columbia	702,455
## 21	21	Boston	Massachusetts	694,583
## 22	22	El Paso	Texas	682,669
## 23	23	Detroit	Michigan	672,662
## 24	24	Nashville[k]	Tennessee	669,053
## 25	25	Portland	Oregon	653,115
## 26	26	Memphis	Tennessee	650,618
## 27	27	Oklahoma City	Oklahoma	649,021
## 28	28	Las Vegas	Nevada	644,644
## 29	29	Louisville[l]	Kentucky	620,118
## 30	30	Baltimore[m]	Maryland	602,495
## 31	31	Milwaukee	Wisconsin	592,025
## 32	32	Albuquerque	New Mexico	560,218
## 33	33	Tucson	Arizona	545,975
## 34	34	Fresno	California	530,093
## 35	35	Mesa	Arizona	508,958
## 36	36	Sacramento	California	508,529
## 37	37	Atlanta	Georgia	498,044
## 38	38	Kansas City	Missouri	491,918
## 39	39	Colorado Springs	Colorado	472,688
## 40	40	Miami	Florida	470,914
## 41	41	Raleigh	North Carolina	469,298
## 42	42	Omaha	Nebraska	468,262
## 43	43	Long Beach	California	467,354
## 44	44	Virginia Beach[m]	Virginia	450,189
## 45	45	Oakland	California	429,082
## 46	46	Minneapolis	Minnesota	425,403
## 47	47	Tulsa	Oklahoma	400,669
## 48	48	Arlington	Texas	398,112
## 49	49	Tampa	Florida	392,890
## 50	50	New Orleans[n]	Louisiana	391,006
## 51	51	Wichita	Kansas	389,255
## 52	52	Cleveland	Ohio	383,793
## 53	53	Bakersfield	California	383,579
## 54	54	Aurora	Colorado	374,114
## 55	55	Anaheim	California	352,005
## 56	56	Honolulu[b]	Hawaii	347,397
## 57	57	Santa Ana	California	332,725
## 58	58	Riverside	California	330,063
## 59	59	Corpus Christi	Texas	326,554
## 60	60	Lexington[o]	Kentucky	323,780
## 61	61	Stockton	California	311,178
## 62	62	Henderson	Nevada	310,390

## 63	63	Saint Paul	Minnesota	307,695
## 64	64	St. Louis[m]	Missouri	302,838
## 65	65	Cincinnati	Ohio	302,605
## 66	66	Pittsburgh	Pennsylvania	301,048
## 67	67	Greensboro	North Carolina	294,722
## 68	68	Anchorage[p]	Alaska	291,538
## 69	69	Plano	Texas	288,061
## 70	70	Lincoln	Nebraska	287,401
## 71	71	Orlando	Florida	285,713
## 72	72	Irvine	California	282,572
## 73	73	Newark	New Jersey	282,090
## 74	74	Toledo	Ohio	274,975
## 75	75	Durham	North Carolina	274,291
## 76	76	Chula Vista	California	271,651
## 77	77	Fort Wayne	Indiana	267,633
## 78	78	Jersey City	New Jersey	265,549
## 79	79	St. Petersburg	Florida	265,098
## 80	80	Laredo	Texas	261,639
## 81	81	Madison	Wisconsin	258,054
## 82	82	Chandler	Arizona	257,165
## 83	83	Buffalo	New York	256,304
## 84	84	Lubbock	Texas	255,885
## 85	85	Scottsdale	Arizona	255,310
## 86	86	Reno	Nevada	250,998
## 87	87	Glendale	Arizona	250,702
## 88	88	Gilbert[q]	Arizona	248,279
## 89	89	Winston-Salem	North Carolina	246,328
## 90	90	North Las Vegas	Nevada	245,949
## 91	91	Norfolk[m]	Virginia	244,076
## 92	92	Chesapeake[m]	Virginia	242,634
## 93	93	Garland	Texas	242,507
## 94	94	Irving	Texas	242,242
## 95	95	Hialeah	Florida	238,942
## 96	96	Fremont	California	237,807
## 97	97	Boise[r]	Idaho	228,790
## 98	98	Richmond[m]	Virginia	228,783
## 99	99	Baton Rouge[s]	Louisiana	221,599
## 100	100	Spokane	Washington	219,190
## 101	101	Des Moines	Iowa	216,853
## 102	102	Tacoma	Washington	216,279
## 103	103	San Bernardino	California	215,941
## 104	104	Modesto	California	215,030
## 105	105	Fontana	California	213,739
## 106	106	Santa Clarita	California	210,089
## 107	107	Birmingham	Alabama	209,880
## 108	108	Oxnard	California	209,877
## 109	109	Fayetteville	North Carolina	209,468
## 110	110	Moreno Valley	California	209,050
## 111	111	Rochester	New York	206,284
## 112	112	Glendale	California	201,361
## 113	113	Huntington Beach	California	200,641
## 114	114	Salt Lake City	Utah	200,591
## 115	115	Grand Rapids	Michigan	200,217
## 116	116	Amarillo	Texas	199,924

## 117	117	Yonkers	New York	199,663
## 118	118	Aurora	Illinois	199,602
## 119	119	Montgomery	Alabama	198,218
## 120	120	Akron	Ohio	198,006
## 121	121	Little Rock	Arkansas	197,881
## 122	122	Huntsville	Alabama	197,318
## 123	123	Augusta[t]	Georgia	196,939
## 124	124	Port St. Lucie	Florida	195,248
## 125	125	Grand Prairie	Texas	194,614
## 126	126	Columbus[u]	Georgia	194,160
## 127	127	Tallahassee	Florida	193,551
## 128	128	Overland Park	Kansas	192,536
## 129	129	Tempe	Arizona	192,364
## 130	130	McKinney	Texas	191,645
## 131	131	Mobile	Alabama	189,572
## 132	132	Cape Coral	Florida	189,343
## 133	133	Shreveport	Louisiana	188,987
## 134	134	Frisco	Texas	188,170
## 135	135	Knoxville	Tennessee	187,500
## 136	136	Worcester	Massachusetts	185,877
## 137	137	Brownsville	Texas	183,392
## 138	138	Vancouver	Washington	183,012
## 139	139	Fort Lauderdale	Florida	182,595
## 140	140	Sioux Falls	South Dakota	181,883
## 141	141	Ontario	California	181,107
## 142	142	Chattanooga	Tennessee	180,557
## 143	143	Providence	Rhode Island	179,335
## 144	144	Newport News[m]	Virginia	178,626
## 145	145	Rancho Cucamonga	California	177,751
## 146	146	Santa Rosa	California	177,586
## 147	147	Oceanside	California	176,080
## 148	148	Salem	Oregon	173,442
## 149	149	Elk Grove	California	172,886
## 150	150	Garden Grove	California	172,646
## 151	151	Pembroke Pines	Florida	172,374
## 152	152	Peoria	Arizona	172,259
## 153	153	Eugene	Oregon	171,245
## 154	154	Corona	California	168,819
## 155	155	Cary[v]	North Carolina	168,160
## 156	156	Springfield	Missouri	168,122
## 157	157	Fort Collins	Colorado	167,830
## 158	158	Jackson	Mississippi	164,422
## 159	159	Alexandria[m]	Virginia	160,530
## 160	160	Hayward	California	159,620
## 161	161	Lancaster	California	159,053
## 162	162	Lakewood	Colorado	156,798
## 163	163	Clarksville	Tennessee	156,794
## 164	164	Palmdale	California	156,667
## 165	165	Salinas	California	156,259
## 166	166	Springfield	Massachusetts	155,032
## 167	167	Hollywood	Florida	154,823
## 168	168	Pasadena	Texas	153,219
## 169	169	Sunnyvale	California	153,185
## 170	170	Macon[w]	Georgia	153,095

## 171	171	Kansas City[x]	Kansas	152,958
## 172	172	Pomona	California	152,361
## 173	173	Escondido	California	152,213
## 174	174	Killeen	Texas	149,103
## 175	175	Naperville	Illinois	148,304
## 176	176	Joliet	Illinois	148,099
## 177	177	Bellevue	Washington	147,599
## 178	178	Rockford	Illinois	146,526
## 179	179	Savannah	Georgia	145,862
## 180	180	Paterson	New Jersey	145,627
## 181	181	Torrance	California	145,182
## 182	182	Bridgeport	Connecticut	144,900
## 183	183	McAllen	Texas	143,433
## 184	184	Mesquite	Texas	142,816
## 185	185	Syracuse	New York	142,749
## 186	186	Midland	Texas	142,344
## 187	187	Pasadena	California	141,371
## 188	188	Murfreesboro	Tennessee	141,344
## 189	189	Miramar	Florida	140,823
## 190	190	Dayton	Ohio	140,640
## 191	191	Fullerton	California	139,640
## 192	192	Olathe	Kansas	139,605
## 193	193	Orange	California	139,484
## 194	194	Thornton	Colorado	139,436
## 195	195	Roseville	California	139,117
## 196	196	Denton	Texas	138,541
## 197	197	Waco	Texas	138,183
## 198	198	Surprise	Arizona	138,161
## 199	199	Carrollton	Texas	136,879
## 200	200	West Valley City	Utah	136,401
## 201	201	Charleston	South Carolina	136,208
## 202	202	Warren	Michigan	134,587
## 203	203	Hampton[m]	Virginia	134,313
## 204	204	Gainesville	Florida	133,857
## 205	205	Visalia	California	133,800
## 206	206	Coral Springs	Florida	133,507
## 207	207	Columbia	South Carolina	133,451
## 208	208	Cedar Rapids	Iowa	133,174
## 209	209	Sterling Heights	Michigan	132,964
## 210	210	New Haven	Connecticut	130,418
## 211	211	Stamford	Connecticut	129,775
## 212	212	Concord	California	129,688
## 213	213	Kent	Washington	129,618
## 214	214	Santa Clara	California	129,488
## 215	215	Elizabeth	New Jersey	128,885
## 216	216	Round Rock	Texas	128,739
## 217	217	Thousand Oaks	California	127,690
## 218	218	Lafayette[y]	Louisiana	126,143
## 219	219	Athens[z]	Georgia	125,964
## 220	220	Topeka	Kansas	125,904
## 221	221	Simi Valley	California	125,851
## 222	222	Fargo	North Dakota	124,844
## 223	223	Norman	Oklahoma	123,471
## 224	224	Columbia	Missouri	123,180

## 225	225	Abilene	Texas	122,999
## 226	226	Wilmington	North Carolina	122,607
## 227	227	Hartford	Connecticut	122,587
## 228	228	Victorville	California	122,312
## 229	229	Pearland	Texas	122,149
## 230	230	Vallejo	California	121,913
## 231	231	Ann Arbor	Michigan	121,890
## 232	232	Berkeley	California	121,643
## 233	233	Allentown	Pennsylvania	121,433
## 234	234	Richardson	Texas	120,981
## 235	235	Odessa	Texas	120,568
## 236	236	Arvada	Colorado	120,492
## 237	237	Cambridge	Massachusetts	118,977
## 238	238	Sugar Land	Texas	118,600
## 239	239	Beaumont	Texas	118,428
## 240	240	Lansing	Michigan	118,427
## 241	241	Evansville	Indiana	117,963
## 242	242	Rochester	Minnesota	116,961
## 243	243	Independence	Missouri	116,925
## 244	244	Fairfield	California	116,884
## 245	245	Provo	Utah	116,702
## 246	246	Clearwater	Florida	116,478
## 247	247	College Station	Texas	116,218
## 248	248	West Jordan	Utah	116,046
## 249	249	Carlsbad	California	115,877
## 250	250	El Monte	California	115,586
## 251	251	Murrieta	California	114,985
## 252	252	Temecula	California	114,742
## 253	253	Springfield	Illinois	114,694
## 254	254	Palm Bay	Florida	114,194
## 255	255	Costa Mesa	California	113,615
## 256	256	Westminster	Colorado	113,479
## 257	257	North Charleston	South Carolina	113,237
## 258	258	Miami Gardens	Florida	113,069
## 259	259	Manchester	New Hampshire	112,525
## 260	260	High Point	North Carolina	112,316
## 261	261	Downey	California	112,269
## 262	262	Clovis	California	112,022
## 263	263	Pompano Beach	Florida	111,954
## 264	264	Pueblo	Colorado	111,750
## 265	265	Elgin	Illinois	111,683
## 266	266	Lowell	Massachusetts	111,670
## 267	267	Antioch	California	111,535
## 268	268	West Palm Beach	Florida	111,398
## 269	269	Peoria	Illinois	111,388
## 270	270	Everett	Washington	111,262
## 271	271	Ventura[aa]	California	111,128
## 272	272	Centennial	Colorado	110,831
## 273	273	Lakeland	Florida	110,516
## 274	274	Gresham	Oregon	110,158
## 275	275	Richmond	California	110,146
## 276	276	Billings	Montana	109,550
## 277	277	Inglewood	California	109,419
## 278	278	Broken Arrow	Oklahoma	109,171

## 279	279	Sandy Springs	Georgia	108,797
## 280	280	Jurupa Valley	California	108,393
## 281	281	Hillsboro	Oregon	108,389
## 282	282	Waterbury	Connecticut	108,093
## 283	283	Santa Maria	California	107,408
## 284	284	Boulder	Colorado	107,353
## 285	285	Greeley	Colorado	107,348
## 286	286	Daly City	California	107,008
## 287	287	Meridian	Idaho	106,804
## 288	288	Lewisville	Texas	106,586
## 289	289	Davie[ac]	Florida	106,558
## 290	290	West Covina	California	106,311
## 291	291	League City	Texas	106,244
## 292	292	Tyler	Texas	105,729
## 293	293	Norwalk	California	105,120
## 294	294	San Mateo	California	105,025
## 295	295	Green Bay	Wisconsin	104,879
## 296	296	Wichita Falls	Texas	104,576
## 297	297	Sparks	Nevada	104,246
## 298	298	Lakewood[ad]	New Jersey	104,157
## 299	299	Burbank	California	103,695
## 300	300	Rialto	California	103,440
## 301	301	Allen	Texas	103,383
## 302	302	El Cajon	California	103,241
## 303	303	Las Cruces	New Mexico	102,926
## 304	304	Renton	Washington	102,153
## 305	305	Davenport	Iowa	102,085
## 306	306	South Bend	Indiana	101,860
## 307	307	Vista	California	101,224
## 308	308	Tuscaloosa	Alabama	101,113
## 309	309	Clinton[ae]	Michigan	100,800
## 310	310	Edison[ad]	New Jersey	100,693
## 311	311	Woodbridge[ad]	New Jersey	100,450
## 312	312	San Angelo	Texas	100,215
## 313	313	Kenosha	Wisconsin	100,164
## 314	314	Vacaville	California	100,154

##	2010Census	Change	2016 land area	2016 land area
## 1	8,175,133	+2.74%	301.5 sq mi	780.9 km2
## 2	3,792,621	+5.22%	468.7 sq mi	1,213.9 km2
## 3	2,695,598	+0.39%	227.3 sq mi	588.7 km2
## 4	2,100,263	+10.72%	637.5 sq mi	1,651.1 km2
## 5	1,445,632	+14.85%	517.6 sq mi	1,340.6 km2
## 6	1,526,006	+3.81%	134.2 sq mi	347.6 km2
## 7	1,327,407	+15.43%	461.0 sq mi	1,194.0 km2
## 8	1,307,402	+9.07%	325.2 sq mi	842.3 km2
## 9	1,197,816	+12.29%	340.9 sq mi	882.9 km2
## 10	945,942	+8.90%	177.5 sq mi	459.7 km2
## 11	790,390	+22.00%	312.7 sq mi	809.9 km2
## 12	821,784	+9.99%	747.4 sq mi	1,935.8 km2
## 13	741,206	+20.75%	342.9 sq mi	888.1 km2
## 14	787,033	+13.40%	218.5 sq mi	565.9 km2
## 15	805,235	+9.70%	46.9 sq mi	121.5 km2
## 16	731,424	+19.29%	305.4 sq mi	791.0 km2
## 17	820,445	+5.69%	361.5 sq mi	936.3 km2

## 18	608,660	+22.39%	83.8 sq mi	217.0 km2
## 19	600,158	+19.38%	153.3 sq mi	397.0 km2
## 20	601,723	+16.74%	61.1 sq mi	158.2 km2
## 21	617,594	+12.47%	48.3 sq mi	125.1 km2
## 22	649,121	+5.17%	256.8 sq mi	665.1 km2
## 23	713,777	-5.76%	138.8 sq mi	359.5 km2
## 24	601,222	+11.28%	475.9 sq mi	1,232.6 km2
## 25	583,776	+11.88%	133.5 sq mi	345.8 km2
## 26	646,889	+0.58%	317.4 sq mi	822.1 km2
## 27	579,999	+11.90%	606.3 sq mi	1,570.3 km2
## 28	583,756	+10.43%	134.4 sq mi	348.1 km2
## 29	597,337	+3.81%	263.5 sq mi	682.5 km2
## 30	620,961	-2.97%	80.9 sq mi	209.5 km2
## 31	594,833	-0.47%	96.2 sq mi	249.2 km2
## 32	545,852	+2.63%	188.2 sq mi	487.4 km2
## 33	520,116	+4.97%	230.8 sq mi	597.8 km2
## 34	494,665	+7.16%	114.4 sq mi	296.3 km2
## 35	439,041	+15.92%	137.9 sq mi	357.2 km2
## 36	466,488	+9.01%	97.9 sq mi	253.6 km2
## 37	420,003	+18.58%	133.5 sq mi	345.8 km2
## 38	459,787	+6.99%	315.0 sq mi	815.8 km2
## 39	416,427	+13.51%	195.6 sq mi	506.6 km2
## 40	399,457	+17.89%	36.0 sq mi	93.2 km2
## 41	403,892	+16.19%	145.1 sq mi	375.8 km2
## 42	408,958	+14.50%	133.2 sq mi	345.0 km2
## 43	462,257	+1.10%	50.3 sq mi	130.3 km2
## 44	437,994	+2.78%	244.7 sq mi	633.8 km2
## 45	390,724	+9.82%	55.9 sq mi	144.8 km2
## 46	382,578	+11.19%	54.0 sq mi	139.9 km2
## 47	391,906	+2.24%	196.8 sq mi	509.7 km2
## 48	365,438	+8.94%	95.8 sq mi	248.1 km2
## 49	335,709	+17.03%	113.4 sq mi	293.7 km2
## 50	343,829	+13.72%	169.4 sq mi	438.7 km2
## 51	382,368	+1.80%	160.4 sq mi	415.4 km2
## 52	396,815	-3.28%	77.7 sq mi	201.2 km2
## 53	347,483	+10.39%	148.8 sq mi	385.4 km2
## 54	325,078	+15.08%	153.5 sq mi	397.6 km2
## 55	336,265	+4.68%	50.0 sq mi	129.5 km2
## 56	337,256	+3.01%	60.5 sq mi	156.7 km2
## 57	324,528	+2.53%	27.1 sq mi	70.2 km2
## 58	303,871	+8.62%	81.2 sq mi	210.3 km2
## 59	305,215	+6.99%	174.6 sq mi	452.2 km2
## 60	295,803	+9.46%	283.6 sq mi	734.5 km2
## 61	291,707	+6.67%	61.7 sq mi	159.8 km2
## 62	257,729	+20.43%	104.7 sq mi	271.2 km2
## 63	285,068	+7.94%	52.0 sq mi	134.7 km2
## 64	319,294	-5.15%	62.0 sq mi	160.6 km2
## 65	296,943	+1.91%	77.4 sq mi	200.5 km2
## 66	305,704	-1.52%	55.4 sq mi	143.5 km2
## 67	269,666	+9.29%	128.3 sq mi	332.3 km2
## 68	291,826	-0.10%	1,706.6 sq mi	4,420.1 km2
## 69	259,841	+10.86%	71.7 sq mi	185.7 km2
## 70	258,379	+11.23%	92.1 sq mi	238.5 km2
## 71	238,300	+19.90%	105.2 sq mi	272.5 km2



## 72	212,375	+33.05%	65.6 sq mi	169.9 km2
## 73	277,140	+1.79%	24.1 sq mi	62.4 km2
## 74	287,208	-4.26%	80.7 sq mi	209.0 km2
## 75	228,330	+20.13%	109.8 sq mi	284.4 km2
## 76	243,916	+11.37%	49.6 sq mi	128.5 km2
## 77	253,691	+5.50%	110.6 sq mi	286.5 km2
## 78	247,597	+7.25%	14.8 sq mi	38.3 km2
## 79	244,769	+8.31%	61.8 sq mi	160.1 km2
## 80	236,091	+10.82%	101.1 sq mi	261.8 km2
## 81	233,209	+10.65%	77.0 sq mi	199.4 km2
## 82	236,123	+8.91%	64.9 sq mi	168.1 km2
## 83	261,310	-1.92%	40.4 sq mi	104.6 km2
## 84	229,573	+11.46%	124.6 sq mi	322.7 km2
## 85	217,385	+17.45%	183.9 sq mi	476.3 km2
## 86	225,221	+11.45%	107.3 sq mi	277.9 km2
## 87	226,721	+10.58%	59.1 sq mi	153.1 km2
## 88	208,453	+19.11%	68.0 sq mi	176.1 km2
## 89	229,617	+7.28%	132.5 sq mi	343.2 km2
## 90	216,961	+13.36%	98.0 sq mi	253.8 km2
## 91	242,803	+0.52%	53.3 sq mi	138.0 km2
## 92	222,209	+9.19%	338.5 sq mi	876.7 km2
## 93	226,876	+6.89%	57.0 sq mi	147.6 km2
## 94	216,290	+12.00%	67.0 sq mi	173.5 km2
## 95	224,669	+6.35%	21.5 sq mi	55.7 km2
## 96	214,089	+11.08%	77.5 sq mi	200.7 km2
## 97	205,671	+11.24%	82.1 sq mi	212.6 km2
## 98	204,214	+12.03%	59.8 sq mi	154.9 km2
## 99	229,493	-3.44%	85.9 sq mi	222.5 km2
## 100	208,916	+4.92%	68.7 sq mi	177.9 km2
## 101	203,433	+6.60%	88.9 sq mi	230.2 km2
## 102	198,397	+9.01%	49.7 sq mi	128.7 km2
## 103	209,924	+2.87%	61.5 sq mi	159.3 km2
## 104	201,165	+6.89%	43.0 sq mi	111.4 km2
## 105	196,069	+9.01%	43.0 sq mi	111.4 km2
## 106	176,320	+19.15%	52.8 sq mi	136.8 km2
## 107	212,237	-1.11%	146.1 sq mi	378.4 km2
## 108	197,899	+6.05%	26.9 sq mi	69.7 km2
## 109	200,564	+4.44%	147.7 sq mi	382.5 km2
## 110	193,365	+8.11%	51.3 sq mi	132.9 km2
## 111	210,565	-2.03%	35.8 sq mi	92.7 km2
## 112	191,719	+5.03%	30.4 sq mi	78.7 km2
## 113	189,992	+5.60%	26.9 sq mi	69.7 km2
## 114	186,440	+7.59%	111.2 sq mi	288.0 km2
## 115	188,040	+6.48%	44.4 sq mi	115.0 km2
## 116	190,695	+4.84%	101.4 sq mi	262.6 km2
## 117	195,976	+1.88%	18.0 sq mi	46.6 km2
## 118	197,899	+0.86%	44.9 sq mi	116.3 km2
## 119	205,764	-3.67%	159.8 sq mi	413.9 km2
## 120	199,110	-0.55%	62.0 sq mi	160.6 km2
## 121	193,524	+2.25%	118.7 sq mi	307.4 km2
## 122	180,105	+9.56%	213.4 sq mi	552.7 km2
## 123	195,844	+0.56%	302.5 sq mi	783.5 km2
## 124	164,603	+18.62%	118.9 sq mi	307.9 km2
## 125	175,396	+10.96%	72.3 sq mi	187.3 km2

## 126	189,885	+2.25%	216.4 sq mi	560.5 km2
## 127	181,376	+6.71%	100.4 sq mi	260.0 km2
## 128	173,372	+11.05%	75.1 sq mi	194.5 km2
## 129	161,719	+18.95%	40.0 sq mi	103.6 km2
## 130	131,117	+46.16%	63.0 sq mi	163.2 km2
## 131	195,111	-2.84%	139.4 sq mi	361.0 km2
## 132	154,305	+22.71%	105.6 sq mi	273.5 km2
## 133	199,311	-5.18%	107.1 sq mi	277.4 km2
## 134	116,989	+60.84%	67.7 sq mi	175.3 km2
## 135	178,874	+4.82%	98.5 sq mi	255.1 km2
## 136	181,045	+2.67%	37.4 sq mi	96.9 km2
## 137	175,023	+4.78%	132.5 sq mi	343.2 km2
## 138	161,791	+13.12%	46.9 sq mi	121.5 km2
## 139	165,521	+10.32%	34.6 sq mi	89.6 km2
## 140	153,888	+18.19%	75.4 sq mi	195.3 km2
## 141	163,924	+10.48%	49.9 sq mi	129.2 km2
## 142	167,674	+7.68%	143.1 sq mi	370.6 km2
## 143	178,042	+0.73%	18.4 sq mi	47.7 km2
## 144	180,719	-1.16%	69.1 sq mi	179.0 km2
## 145	165,269	+7.55%	40.0 sq mi	103.6 km2
## 146	167,815	+5.82%	41.3 sq mi	107.0 km2
## 147	167,086	+5.38%	41.3 sq mi	107.0 km2
## 148	154,637	+12.16%	48.6 sq mi	125.9 km2
## 149	153,015	+12.99%	42.2 sq mi	109.3 km2
## 150	170,883	+1.03%	18.0 sq mi	46.6 km2
## 151	154,019	+11.92%	33.0 sq mi	85.5 km2
## 152	154,065	+11.81%	175.7 sq mi	455.1 km2
## 153	156,185	+9.64%	44.1 sq mi	114.2 km2
## 154	152,374	+10.79%	39.5 sq mi	102.3 km2
## 155	135,234	+24.35%	56.5 sq mi	146.3 km2
## 156	159,498	+5.41%	82.3 sq mi	213.2 km2
## 157	143,986	+16.56%	55.8 sq mi	144.5 km2
## 158	173,514	-5.24%	111.0 sq mi	287.5 km2
## 159	139,966	+14.69%	15.0 sq mi	38.8 km2
## 160	144,186	+10.70%	45.5 sq mi	117.8 km2
## 161	156,633	+1.55%	94.3 sq mi	244.2 km2
## 162	142,980	+9.66%	42.9 sq mi	111.1 km2
## 163	132,929	+17.95%	98.3 sq mi	254.6 km2
## 164	152,750	+2.56%	106.0 sq mi	274.5 km2
## 165	150,441	+3.87%	23.6 sq mi	61.1 km2
## 166	153,060	+1.29%	31.9 sq mi	82.6 km2
## 167	140,768	+9.98%	27.3 sq mi	70.7 km2
## 168	149,043	+2.80%	43.5 sq mi	112.7 km2
## 169	140,081	+9.35%	22.0 sq mi	57.0 km2
## 170	91,351	+67.59%	249.3 sq mi	645.7 km2
## 171	145,786	+4.92%	124.8 sq mi	323.2 km2
## 172	149,058	+2.22%	23.0 sq mi	59.6 km2
## 173	143,911	+5.77%	37.1 sq mi	96.1 km2
## 174	127,921	+16.56%	53.5 sq mi	138.6 km2
## 175	141,853	+4.55%	38.7 sq mi	100.2 km2
## 176	147,433	+0.45%	64.4 sq mi	166.8 km2
## 177	122,363	+20.62%	33.5 sq mi	86.8 km2
## 178	152,871	-4.15%	63.5 sq mi	164.5 km2
## 179	136,286	+7.03%	103.6 sq mi	268.3 km2

## 180	146,199	-0.39%	8.4 sq mi	21.8 km2
## 181	145,438	-0.18%	20.5 sq mi	53.1 km2
## 182	144,229	+0.47%	16.1 sq mi	41.7 km2
## 183	129,877	+10.44%	58.4 sq mi	151.3 km2
## 184	139,824	+2.14%	47.2 sq mi	122.2 km2
## 185	145,170	-1.67%	25.0 sq mi	64.7 km2
## 186	111,147	+28.07%	74.4 sq mi	192.7 km2
## 187	137,122	+3.10%	23.0 sq mi	59.6 km2
## 188	108,755	+29.97%	55.9 sq mi	144.8 km2
## 189	122,041	+15.39%	29.4 sq mi	76.1 km2
## 190	141,527	-0.63%	55.7 sq mi	144.3 km2
## 191	135,161	+3.31%	22.4 sq mi	58.0 km2
## 192	125,872	+10.91%	60.9 sq mi	157.7 km2
## 193	136,416	+2.25%	25.4 sq mi	65.8 km2
## 194	118,772	+17.40%	35.7 sq mi	92.5 km2
## 195	118,788	+17.11%	43.0 sq mi	111.4 km2
## 196	113,383	+22.19%	93.4 sq mi	241.9 km2
## 197	124,805	+10.72%	89.0 sq mi	230.5 km2
## 198	117,517	+17.57%	107.9 sq mi	279.5 km2
## 199	119,097	+14.93%	36.3 sq mi	94.0 km2
## 200	129,480	+5.35%	35.5 sq mi	91.9 km2
## 201	120,083	+13.43%	109.0 sq mi	282.3 km2
## 202	134,056	+0.40%	34.4 sq mi	89.1 km2
## 203	137,436	-2.27%	51.5 sq mi	133.4 km2
## 204	124,354	+7.64%	62.3 sq mi	161.4 km2
## 205	124,442	+7.52%	37.5 sq mi	97.1 km2
## 206	121,096	+10.25%	23.8 sq mi	61.6 km2
## 207	129,272	+3.23%	133.5 sq mi	345.8 km2
## 208	126,326	+5.42%	70.8 sq mi	183.4 km2
## 209	129,699	+2.52%	36.5 sq mi	94.5 km2
## 210	129,779	+0.49%	18.7 sq mi	48.4 km2
## 211	122,643	+5.82%	37.6 sq mi	97.4 km2
## 212	122,067	+6.24%	30.5 sq mi	79.0 km2
## 213	92,411	+40.26%	33.7 sq mi	87.3 km2
## 214	116,468	+11.18%	18.4 sq mi	47.7 km2
## 215	124,969	+3.13%	12.3 sq mi	31.9 km2
## 216	99,887	+28.88%	35.6 sq mi	92.2 km2
## 217	126,683	+0.79%	55.2 sq mi	143.0 km2
## 218	120,623	+4.58%	53.8 sq mi	139.3 km2
## 219	115,452	+9.11%	116.4 sq mi	301.5 km2
## 220	127,473	-1.23%	61.5 sq mi	159.3 km2
## 221	124,237	+1.30%	41.5 sq mi	107.5 km2
## 222	105,549	+18.28%	49.3 sq mi	127.7 km2
## 223	110,925	+11.31%	178.8 sq mi	463.1 km2
## 224	108,500	+13.53%	65.0 sq mi	168.3 km2
## 225	117,063	+5.07%	106.7 sq mi	276.4 km2
## 226	106,476	+15.15%	51.6 sq mi	133.6 km2
## 227	124,775	-1.75%	17.4 sq mi	45.1 km2
## 228	115,903	+5.53%	73.3 sq mi	189.8 km2
## 229	91,252	+33.86%	46.3 sq mi	119.9 km2
## 230	115,942	+5.15%	30.7 sq mi	79.5 km2
## 231	113,934	+6.98%	28.1 sq mi	72.8 km2
## 232	112,580	+8.05%	10.5 sq mi	27.2 km2
## 233	118,032	+2.88%	17.5 sq mi	45.3 km2

## 234	99,223	+21.93%	28.6 sq mi	74.1 km2
## 235	99,940	+20.64%	45.2 sq mi	117.1 km2
## 236	106,433	+13.21%	38.6 sq mi	100.0 km2
## 237	105,162	+13.14%	6.4 sq mi	16.6 km2
## 238	78,817	+50.48%	34.0 sq mi	88.1 km2
## 239	118,296	+0.11%	82.1 sq mi	212.6 km2
## 240	114,297	+3.61%	39.1 sq mi	101.3 km2
## 241	117,429	+0.45%	47.3 sq mi	122.5 km2
## 242	106,769	+9.55%	54.6 sq mi	141.4 km2
## 243	116,830	+0.08%	77.8 sq mi	201.5 km2
## 244	105,321	+10.98%	40.9 sq mi	105.9 km2
## 245	112,488	+3.75%	41.7 sq mi	108.0 km2
## 246	107,685	+8.17%	25.9 sq mi	67.1 km2
## 247	93,857	+23.82%	51.0 sq mi	132.1 km2
## 248	103,712	+11.89%	32.3 sq mi	83.7 km2
## 249	105,328	+10.02%	37.7 sq mi	97.6 km2
## 250	113,475	+1.86%	9.6 sq mi	24.9 km2
## 251	103,466	+11.13%	33.6 sq mi	87.0 km2
## 252	100,097	+14.63%	37.3 sq mi	96.6 km2
## 253	116,250	-1.34%	60.1 sq mi	155.7 km2
## 254	103,190	+10.66%	65.7 sq mi	170.2 km2
## 255	109,960	+3.32%	15.7 sq mi	40.7 km2
## 256	106,114	+6.94%	31.7 sq mi	82.1 km2
## 257	97,471	+16.18%	73.7 sq mi	190.9 km2
## 258	107,167	+5.51%	18.2 sq mi	47.1 km2
## 259	109,565	+2.70%	33.1 sq mi	85.7 km2
## 260	104,371	+7.61%	55.2 sq mi	143.0 km2
## 261	111,772	+0.44%	12.4 sq mi	32.1 km2
## 262	95,631	+17.14%	24.2 sq mi	62.7 km2
## 263	99,845	+12.13%	24.0 sq mi	62.2 km2
## 264	106,595	+4.84%	53.6 sq mi	138.8 km2
## 265	108,188	+3.23%	37.4 sq mi	96.9 km2
## 266	106,519	+4.84%	13.6 sq mi	35.2 km2
## 267	102,372	+8.95%	29.4 sq mi	76.1 km2
## 268	99,919	+11.49%	55.1 sq mi	142.7 km2
## 269	115,007	-3.15%	48.2 sq mi	124.8 km2
## 270	103,019	+8.00%	33.3 sq mi	86.2 km2
## 271	106,433	+4.41%	21.8 sq mi	56.5 km2
## 272	100,377	+10.41%	29.5 sq mi	76.4 km2
## 273	97,422	+13.44%	65.9 sq mi	170.7 km2
## 274	105,594	+4.32%	23.3 sq mi	60.3 km2
## 275	103,701	+6.21%	30.1 sq mi	78.0 km2
## 276	104,170	+5.16%	43.7 sq mi	113.2 km2
## 277	109,673	-0.23%	9.1 sq mi	23.6 km2
## 278	98,850	+10.44%	61.7 sq mi	159.8 km2
## 279	93,853	+15.92%	37.7 sq mi	97.6 km2
## 280	0	NA[ab]	42.9 sq mi	111.1 km2
## 281	91,611	+18.31%	25.0 sq mi	64.7 km2
## 282	110,366	-2.06%	28.5 sq mi	73.8 km2
## 283	99,553	+7.89%	22.8 sq mi	59.1 km2
## 284	97,385	+10.24%	24.8 sq mi	64.2 km2
## 285	92,889	+15.57%	47.8 sq mi	123.8 km2
## 286	101,123	+5.82%	7.6 sq mi	19.7 km2
## 287	75,092	+42.23%	29.8 sq mi	77.2 km2

## 288	95,290	+11.85%	36.7 sq mi	95.1 km2
## 289	91,992	+15.83%	34.9 sq mi	90.4 km2
## 290	106,098	+0.20%	16.0 sq mi	41.4 km2
## 291	83,560	+27.15%	51.2 sq mi	132.6 km2
## 292	96,900	+9.11%	56.6 sq mi	146.6 km2
## 293	105,549	-0.41%	9.7 sq mi	25.1 km2
## 294	97,207	+8.04%	12.1 sq mi	31.3 km2
## 295	104,057	+0.79%	45.4 sq mi	117.6 km2
## 296	104,553	+0.02%	72.2 sq mi	187.0 km2
## 297	90,264	+15.49%	35.9 sq mi	93.0 km2
## 298	92,843	+12.19%	24.7 sq mi	64.0 km2
## 299	103,340	+0.34%	17.4 sq mi	45.1 km2
## 300	99,171	+4.30%	22.3 sq mi	57.8 km2
## 301	84,246	+22.72%	27.1 sq mi	70.2 km2
## 302	99,478	+3.78%	14.5 sq mi	37.6 km2
## 303	97,618	+5.44%	76.9 sq mi	199.2 km2
## 304	90,927	+12.35%	23.4 sq mi	60.6 km2
## 305	99,685	+2.41%	62.9 sq mi	162.9 km2
## 306	101,168	+0.68%	41.4 sq mi	107.2 km2
## 307	93,834	+7.88%	18.7 sq mi	48.4 km2
## 308	90,468	+11.77%	71.7 sq mi	185.7 km2
## 309	96,796	+4.14%	28.1 sq mi	72.8 km2
## 310	99,967	+0.73%	30.1 sq mi	78.0 km2
## 311	99,585	+0.87%	23.3 sq mi	60.3 km2
## 312	93,200	+7.53%	59.9 sq mi	155.1 km2
## 313	99,218	+0.95%	28.0 sq mi	72.5 km2
## 314	92,428	+8.36%	29.0 sq mi	75.1 km2
##	2016 population density		2016 population density	
## 1	28,317/sq mi		10,933/km2	
## 2	8,484/sq mi		3,276/km2	
## 3	11,900/sq mi		4,600/km2	
## 4	3,613/sq mi		1,395/km2	
## 5	3,120/sq mi		1,200/km2	
## 6	11,683/sq mi		4,511/km2	
## 7	3,238/sq mi		1,250/km2	
## 8	4,325/sq mi		1,670/km2	
## 9	3,866/sq mi		1,493/km2	
## 10	5,777/sq mi		2,231/km2	
## 11	3,031/sq mi		1,170/km2	
## 12	1,178/sq mi		455/km2	
## 13	2,491/sq mi		962/km2	
## 14	3,936/sq mi		1,520/km2	
## 15	18,569/sq mi		7,170/km2	
## 16	2,757/sq mi		1,064/km2	
## 17	2,366/sq mi		914/km2	
## 18	8,405/sq mi		3,245/km2	
## 19	4,521/sq mi		1,746/km2	
## 20	11,148/sq mi		4,304/km2	
## 21	13,938/sq mi		5,381/km2	
## 22	2,660/sq mi		1,030/km2	
## 23	4,847/sq mi		1,871/km2	
## 24	1,388/sq mi		536/km2	
## 25	4,793/sq mi		1,851/km2	
## 26	2,056/sq mi		794/km2	

## 27	1,053/sq mi	407/km2
## 28	4,709/sq mi	1,818/km2
## 29	2,339/sq mi	903/km2
## 30	7,598/sq mi	2,934/km2
## 31	6,186/sq mi	2,388/km2
## 32	2,972/sq mi	1,147/km2
## 33	2,299/sq mi	888/km2
## 34	4,563/sq mi	1,762/km2
## 35	3,514/sq mi	1,357/km2
## 36	5,059/sq mi	1,953/km2
## 37	3,539/sq mi	1,366/km2
## 38	1,528/sq mi	590/km2
## 39	2,378/sq mi	918/km2
## 40	12,599/sq mi	4,865/km2
## 41	3,163/sq mi	1,221/km2
## 42	3,356/sq mi	1,296/km2
## 43	9,347/sq mi	3,609/km2
## 44	1,850/sq mi	710/km2
## 45	7,514/sq mi	2,901/km2
## 46	7,660/sq mi	2,960/km2
## 47	2,048/sq mi	791/km2
## 48	4,100/sq mi	1,600/km2
## 49	3,326/sq mi	1,284/km2
## 50	2,311/sq mi	892/km2
## 51	2,431/sq mi	939/km2
## 52	4,965/sq mi	1,917/km2
## 53	2,529/sq mi	976/km2
## 54	2,356/sq mi	910/km2
## 55	7,021/sq mi	2,711/km2
## 56	5,815/sq mi	2,245/km2
## 57	12,333/sq mi	4,762/km2
## 58	3,999/sq mi	1,544/km2
## 59	1,866/sq mi	720/km2
## 60	1,123/sq mi	434/km2
## 61	4,977/sq mi	1,922/km2
## 62	2,798/sq mi	1,080/km2
## 63	5,815/sq mi	2,245/km2
## 64	5,023/sq mi	1,939/km2
## 65	3,860/sq mi	1,490/km2
## 66	5,481/sq mi	2,116/km2
## 67	2,237/sq mi	864/km2
## 68	175/sq mi	68/km2
## 69	3,990/sq mi	1,540/km2
## 70	3,044/sq mi	1,175/km2
## 71	2,635/sq mi	1,017/km2
## 72	4,057/sq mi	1,566/km2
## 73	11,691/sq mi	4,514/km2
## 74	3,451/sq mi	1,332/km2
## 75	2,395/sq mi	925/km2
## 76	5,387/sq mi	2,080/km2
## 77	2,391/sq mi	923/km2
## 78	17,848/sq mi	6,891/km2
## 79	4,223/sq mi	1,631/km2
## 80	2,544/sq mi	982/km2

## 81	3,280/sq mi	1,270/km2
## 82	3,813/sq mi	1,472/km2
## 83	6,359/sq mi	2,455/km2
## 84	2,027/sq mi	783/km2
## 85	1,341/sq mi	518/km2
## 86	2,286/sq mi	883/km2
## 87	4,161/sq mi	1,607/km2
## 88	3,487/sq mi	1,346/km2
## 89	1,828/sq mi	706/km2
## 90	2,436/sq mi	941/km2
## 91	4,599/sq mi	1,776/km2
## 92	703/sq mi	271/km2
## 93	4,122/sq mi	1,592/km2
## 94	3,557/sq mi	1,373/km2
## 95	10,995/sq mi	4,245/km2
## 96	3,008/sq mi	1,161/km2
## 97	2,718/sq mi	1,049/km2
## 98	3,732/sq mi	1,441/km2
## 99	2,651/sq mi	1,024/km2
## 100	3,144/sq mi	1,214/km2
## 101	2,424/sq mi	936/km2
## 102	4,251/sq mi	1,641/km2
## 103	3,516/sq mi	1,358/km2
## 104	4,934/sq mi	1,905/km2
## 105	4,876/sq mi	1,883/km2
## 106	3,446/sq mi	1,331/km2
## 107	1,452/sq mi	561/km2
## 108	7,729/sq mi	2,984/km2
## 109	1,386/sq mi	535/km2
## 110	4,006/sq mi	1,547/km2
## 111	5,835/sq mi	2,253/km2
## 112	6,606/sq mi	2,551/km2
## 113	7,459/sq mi	2,880/km2
## 114	1,742/sq mi	673/km2
## 115	4,424/sq mi	1,708/km2
## 116	1,968/sq mi	760/km2
## 117	11,156/sq mi	4,307/km2
## 118	4,479/sq mi	1,729/km2
## 119	1,252/sq mi	483/km2
## 120	3,188/sq mi	1,231/km2
## 121	1,673/sq mi	646/km2
## 122	905/sq mi	349/km2
## 123	652/sq mi	252/km2
## 124	1,557/sq mi	601/km2
## 125	2,637/sq mi	1,018/km2
## 126	913/sq mi	353/km2
## 127	1,901/sq mi	734/km2
## 128	2,516/sq mi	971/km2
## 129	4,562/sq mi	1,761/km2
## 130	2,735/sq mi	1,056/km2
## 131	1,384/sq mi	534/km2
## 132	1,703/sq mi	658/km2
## 133	1,820/sq mi	700/km2
## 134	2,417/sq mi	933/km2

## 135	1,891/sq mi	730/km2
## 136	4,933/sq mi	1,905/km2
## 137	1,387/sq mi	536/km2
## 138	3,728/sq mi	1,439/km2
## 139	5,166/sq mi	1,995/km2
## 140	2,312/sq mi	893/km2
## 141	3,471/sq mi	1,340/km2
## 142	1,241/sq mi	479/km2
## 143	9,740/sq mi	3,760/km2
## 144	2,631/sq mi	1,016/km2
## 145	4,413/sq mi	1,704/km2
## 146	4,241/sq mi	1,637/km2
## 147	4,249/sq mi	1,641/km2
## 148	3,445/sq mi	1,330/km2
## 149	4,022/sq mi	1,553/km2
## 150	9,714/sq mi	3,751/km2
## 151	5,109/sq mi	1,973/km2
## 152	934/sq mi	361/km2
## 153	3,777/sq mi	1,458/km2
## 154	4,222/sq mi	1,630/km2
## 155	2,873/sq mi	1,109/km2
## 156	2,033/sq mi	785/km2
## 157	2,943/sq mi	1,136/km2
## 158	1,524/sq mi	588/km2
## 159	10,387/sq mi	4,010/km2
## 160	3,493/sq mi	1,349/km2
## 161	1,698/sq mi	656/km2
## 162	3,599/sq mi	1,390/km2
## 163	1,529/sq mi	590/km2
## 164	1,484/sq mi	573/km2
## 165	6,662/sq mi	2,572/km2
## 166	4,830/sq mi	1,860/km2
## 167	5,568/sq mi	2,150/km2
## 168	3,525/sq mi	1,361/km2
## 169	6,944/sq mi	2,681/km2
## 170	612/sq mi	236/km2
## 171	1,216/sq mi	470/km2
## 172	6,630/sq mi	2,560/km2
## 173	4,087/sq mi	1,578/km2
## 174	2,680/sq mi	1,030/km2
## 175	3,802/sq mi	1,468/km2
## 176	2,302/sq mi	889/km2
## 177	4,221/sq mi	1,630/km2
## 178	2,325/sq mi	898/km2
## 179	1,417/sq mi	547/km2
## 180	17,500/sq mi	6,800/km2
## 181	7,180/sq mi	2,770/km2
## 182	9,064/sq mi	3,500/km2
## 183	2,435/sq mi	940/km2
## 184	3,045/sq mi	1,176/km2
## 185	5,735/sq mi	2,214/km2
## 186	1,809/sq mi	698/km2
## 187	6,176/sq mi	2,385/km2
## 188	2,360/sq mi	910/km2



## 189	4,709/sq mi	1,818/km2
## 190	2,522/sq mi	974/km2
## 191	6,282/sq mi	2,425/km2
## 192	2,225/sq mi	859/km2
## 193	5,532/sq mi	2,136/km2
## 194	3,829/sq mi	1,478/km2
## 195	3,085/sq mi	1,191/km2
## 196	1,433/sq mi	553/km2
## 197	1,510/sq mi	580/km2
## 198	1,230/sq mi	470/km2
## 199	3,674/sq mi	1,419/km2
## 200	3,847/sq mi	1,485/km2
## 201	1,233/sq mi	476/km2
## 202	3,928/sq mi	1,517/km2
## 203	2,629/sq mi	1,015/km2
## 204	2,112/sq mi	815/km2
## 205	3,495/sq mi	1,349/km2
## 206	5,465/sq mi	2,110/km2
## 207	1,006/sq mi	388/km2
## 208	1,852/sq mi	715/km2
## 209	3,628/sq mi	1,401/km2
## 210	6,948/sq mi	2,683/km2
## 211	3,434/sq mi	1,326/km2
## 212	4,221/sq mi	1,630/km2
## 213	3,784/sq mi	1,461/km2
## 214	6,845/sq mi	2,643/km2
## 215	10,459/sq mi	4,038/km2
## 216	3,396/sq mi	1,311/km2
## 217	2,335/sq mi	902/km2
## 218	2,372/sq mi	916/km2
## 219	1,060/sq mi	410/km2
## 220	2,062/sq mi	796/km2
## 221	3,044/sq mi	1,175/km2
## 222	2,450/sq mi	950/km2
## 223	683/sq mi	264/km2
## 224	1,856/sq mi	717/km2
## 225	1,146/sq mi	442/km2
## 226	2,278/sq mi	880/km2
## 227	7,083/sq mi	2,735/km2
## 228	1,668/sq mi	644/km2
## 229	2,453/sq mi	947/km2
## 230	3,951/sq mi	1,525/km2
## 231	4,298/sq mi	1,659/km2
## 232	11,547/sq mi	4,458/km2
## 233	6,882/sq mi	2,657/km2
## 234	3,963/sq mi	1,530/km2
## 235	2,608/sq mi	1,007/km2
## 236	3,043/sq mi	1,175/km2
## 237	17,289/sq mi	6,675/km2
## 238	3,488/sq mi	1,347/km2
## 239	1,441/sq mi	556/km2
## 240	2,967/sq mi	1,146/km2
## 241	2,526/sq mi	975/km2
## 242	2,088/sq mi	806/km2

## 243	1,504/sq mi	581/km2
## 244	2,806/sq mi	1,083/km2
## 245	2,803/sq mi	1,082/km2
## 246	4,415/sq mi	1,705/km2
## 247	2,199/sq mi	849/km2
## 248	3,520/sq mi	1,360/km2
## 249	3,023/sq mi	1,167/km2
## 250	12,063/sq mi	4,658/km2
## 251	3,324/sq mi	1,283/km2
## 252	3,031/sq mi	1,170/km2
## 253	1,925/sq mi	743/km2
## 254	1,676/sq mi	647/km2
## 255	7,186/sq mi	2,775/km2
## 256	3,592/sq mi	1,387/km2
## 257	1,483/sq mi	573/km2
## 258	6,212/sq mi	2,398/km2
## 259	3,339/sq mi	1,289/km2
## 260	2,015/sq mi	778/km2
## 261	9,134/sq mi	3,527/km2
## 262	4,404/sq mi	1,700/km2
## 263	4,558/sq mi	1,760/km2
## 264	2,058/sq mi	795/km2
## 265	2,998/sq mi	1,158/km2
## 266	8,129/sq mi	3,139/km2
## 267	3,772/sq mi	1,456/km2
## 268	1,963/sq mi	758/km2
## 269	2,371/sq mi	915/km2
## 270	3,275/sq mi	1,264/km2
## 271	5,027/sq mi	1,941/km2
## 272	3,727/sq mi	1,439/km2
## 273	1,615/sq mi	624/km2
## 274	4,786/sq mi	1,848/km2
## 275	3,648/sq mi	1,409/km2
## 276	2,525/sq mi	975/km2
## 277	12,160/sq mi	4,700/km2
## 278	1,741/sq mi	672/km2
## 279	2,804/sq mi	1,083/km2
## 280	2,414/sq mi	932/km2
## 281	4,207/sq mi	1,624/km2
## 282	3,799/sq mi	1,467/km2
## 283	4,662/sq mi	1,800/km2
## 284	4,358/sq mi	1,683/km2
## 285	2,176/sq mi	840/km2
## 286	14,009/sq mi	5,409/km2
## 287	3,584/sq mi	1,384/km2
## 288	2,852/sq mi	1,101/km2
## 289	2,919/sq mi	1,127/km2
## 290	6,740/sq mi	2,600/km2
## 291	1,992/sq mi	769/km2
## 292	1,852/sq mi	715/km2
## 293	10,946/sq mi	4,226/km2
## 294	8,592/sq mi	3,317/km2
## 295	2,316/sq mi	894/km2
## 296	1,450/sq mi	560/km2

## 297	2,810/sq mi	1,080/km2
## 298	4,079/sq mi	1,575/km2
## 299	6,003/sq mi	2,318/km2
## 300	4,633/sq mi	1,789/km2
## 301	3,715/sq mi	1,434/km2
## 302	7,156/sq mi	2,763/km2
## 303	1,323/sq mi	511/km2
## 304	4,314/sq mi	1,666/km2
## 305	1,631/sq mi	630/km2
## 306	2,457/sq mi	949/km2
## 307	5,436/sq mi	2,099/km2
## 308	1,399/sq mi	540/km2
## 309	3,573/sq mi	1,380/km2
## 310	3,389/sq mi	1,309/km2
## 311	4,351/sq mi	1,680/km2
## 312	1,681/sq mi	649/km2
## 313	3,577/sq mi	1,381/km2
## 314	3,449/sq mi	1,332/km2

##	Location
## 1	40°39 49 N 73°56 19 W / 40.6635°N 73.9387°W / 40.6635; -73.9387 (1 New York City)
## 2	34°01 10 N 118°24 39 W / 34.0194°N 118.4108°W / 34.0194; -118.4108 (2 Los Angeles)
## 3	41°50 15 N 87°40 54 W / 41.8376°N 87.6818°W / 41.8376; -87.6818 (3 Chicago)
## 4	29°47 12 N 95°23 27 W / 29.7866°N 95.3909°W / 29.7866; -95.3909 (4 Houston)
## 5	33°34 20 N 112°05 24 W / 33.5722°N 112.0901°W / 33.5722; -112.0901 (6 Phoenix)
## 6	40°00 34 N 75°08 00 W / 40.0094°N 75.1333°W / 40.0094; -75.1333 (5 Philadelphia)
## 7	29°28 21 N 98°31 30 W / 29.4724°N 98.5251°W / 29.4724; -98.5251 (7 San Antonio)
## 8	32°48 55 N 117°08 06 W / 32.8153°N 117.1350°W / 32.8153; -117.1350 (8 San Diego)
## 9	32°47 36 N 96°45 59 W / 32.7933°N 96.7665°W / 32.7933; -96.7665 (9 Dallas)
## 10	37°17 48 N 121°49 08 W / 37.2967°N 121.8189°W / 37.2967; -121.8189 (10 San Jose)
## 11	30°18 14 N 97°45 16 W / 30.3039°N 97.7544°W / 30.3039; -97.7544 (11 Austin)
## 12	30°20 13 N 81°39 42 W / 30.3369°N 81.6616°W / 30.3369; -81.6616 (12 Jacksonville)
## 13	32°46 53 N 97°20 48 W / 32.7815°N 97.3467°W / 32.7815; -97.3467 (16 Fort Worth)
## 14	39°59 07 N 82°59 05 W / 39.9852°N 82.9848°W / 39.9852; -82.9848 (15 Columbus)
## 15	37°43 38 N 123°01 56 W / 37.7272°N 123.0322°W / 37.7272; -123.0322 (13 San Francisco)
## 16	35°12 28 N 80°49 52 W / 35.2078°N 80.8310°W / 35.2078; -80.8310 (17 Charlotte)
## 17	39°46 36 N 86°08 45 W / 39.7767°N 86.1459°W / 39.7767; -86.1459 (14 Indianapolis)
## 18	47°37 14 N 122°21 03 W / 47.6205°N 122.3509°W / 47.6205; -122.3509 (20 Seattle)
## 19	39°45 43 N 104°52 52 W / 39.7619°N 104.8811°W / 39.7619; -104.8811 (Denver)
## 20	38°54 15 N 77°01 02 W / 38.9041°N 77.0172°W / 38.9041; -77.0172 (Washington, D.C.)
## 21	42°19 55 N 71°01 13 W / 42.3320°N 71.0202°W / 42.3320; -71.0202 (Boston)
## 22	31°50 54 N 106°25 37 W / 31.8484°N 106.4270°W / 31.8484; -106.4270 (19 El Paso)
## 23	42°22 59 N 83°06 08 W / 42.3830°N 83.1022°W / 42.3830; -83.1022 (18 Detroit)
## 24	36°10 18 N 86°47 06 W / 36.1718°N 86.7850°W / 36.1718; -86.7850 (Nashville)
## 25	45°32 13 N 122°39 00 W / 45.5370°N 122.6500°W / 45.5370; -122.6500 (Portland)
## 26	35°06 10 N 89°58 39 W / 35.1028°N 89.9774°W / 35.1028; -89.9774 (Memphis)
## 27	35°28 02 N 97°30 49 W / 35.4671°N 97.5137°W / 35.4671; -97.5137 (Oklahoma City)
## 28	36°13 45 N 115°15 36 W / 36.2292°N 115.2601°W / 36.2292; -115.2601 (Las Vegas)
## 29	38°09 55 N 85°38 51 W / 38.1654°N 85.6474°W / 38.1654; -85.6474 (Louisville)
## 30	39°18 00 N 76°36 38 W / 39.3000°N 76.6105°W / 39.3000; -76.6105 (Baltimore)
## 31	43°03 48 N 87°58 00 W / 43.0633°N 87.9667°W / 43.0633; -87.9667 (Milwaukee)
## 32	35°06 20 N 106°38 51 W / 35.1056°N 106.6474°W / 35.1056; -106.6474 (Albuquerque)
## 33	32°09 11 N 110°52 14 W / 32.1531°N 110.8706°W / 32.1531; -110.8706 (Tucson)
## 34	36°47 01 N 119°47 36 W / 36.7836°N 119.7934°W / 36.7836; -119.7934 (Fresno)
## 35	33°24 07 N 111°43 03 W / 33.4019°N 111.7174°W / 33.4019; -111.7174 (Mesa)

## 36 38°34 00 N 121°28 07 W / 38.5666°N 121.4686°W / 38.5666; -121.4686 (Sacramento)  
 ## 37 33°45 46 N 84°25 22 W / 33.7629°N 84.4227°W / 33.7629; -84.4227 (Atlanta)  
 ## 38 39°07 30 N 94°33 04 W / 39.1251°N 94.5510°W / 39.1251; -94.5510 (Kansas City, MO)  
 ## 39 38°52 02 N 104°45 39 W / 38.8673°N 104.7607°W / 38.8673; -104.7607 (Colorado Springs)  
 ## 40 25°46 31 N 80°12 31 W / 25.7752°N 80.2086°W / 25.7752; -80.2086 (Miami)  
 ## 41 35°49 50 N 78°38 30 W / 35.8306°N 78.6418°W / 35.8306; -78.6418 (Raleigh)  
 ## 42 41°15 52 N 96°02 42 W / 41.2644°N 96.0451°W / 41.2644; -96.0451 (Omaha)  
 ## 43 33°48 33 N 118°09 19 W / 33.8092°N 118.1553°W / 33.8092; -118.1553 (Long Beach)  
 ## 44 36°46 48 N 76°01 31 W / 36.7800°N 76.0252°W / 36.7800; -76.0252 (Virginia Beach)  
 ## 45 37°46 11 N 122°13 33 W / 37.7698°N 122.2257°W / 37.7698; -122.2257 (Oakland)  
 ## 46 44°57 48 N 93°16 06 W / 44.9633°N 93.2683°W / 44.9633; -93.2683 (Minneapolis)  
 ## 47 36°07 40 N 95°54 08 W / 36.1279°N 95.9023°W / 36.1279; -95.9023 (Tulsa)  
 ## 48 32°42 03 N 97°07 29 W / 32.7007°N 97.1247°W / 32.7007; -97.1247 (Arlington)  
 ## 49 27°58 12 N 82°28 47 W / 27.9701°N 82.4797°W / 27.9701; -82.4797 (Tampa)  
 ## 50 30°03 12 N 89°56 04 W / 30.0534°N 89.9345°W / 30.0534; -89.9345 (New Orleans)  
 ## 51 37°41 27 N 97°20 45 W / 37.6907°N 97.3459°W / 37.6907; -97.3459 (Wichita)  
 ## 52 41°28 43 N 81°40 46 W / 41.4785°N 81.6794°W / 41.4785; -81.6794 (Cleveland)  
 ## 53 35°19 16 N 119°01 06 W / 35.3212°N 119.0183°W / 35.3212; -119.0183 (Bakersfield)  
 ## 54 39°41 17 N 104°41 23 W / 39.6880°N 104.6897°W / 39.6880; -104.6897 (Aurora)  
 ## 55 33°51 20 N 117°45 36 W / 33.8555°N 117.7601°W / 33.8555; -117.7601 (Anaheim)  
 ## 56 21°19 27 N 157°50 51 W / 21.3243°N 157.8476°W / 21.3243; -157.8476 (Honolulu)  
 ## 57 33°44 11 N 117°52 59 W / 33.7363°N 117.8830°W / 33.7363; -117.8830 (Santa Ana)  
 ## 58 33°56 17 N 117°23 36 W / 33.9381°N 117.3932°W / 33.9381; -117.3932 (Riverside)  
 ## 59 27°45 15 N 97°10 24 W / 27.7543°N 97.1734°W / 27.7543; -97.1734 (Corpus Christi)  
 ## 60 38°02 27 N 84°27 30 W / 38.0407°N 84.4583°W / 38.0407; -84.4583 (Lexington)  
 ## 61 37°58 35 N 121°18 48 W / 37.9763°N 121.3133°W / 37.9763; -121.3133 (Stockton)  
 ## 62 36°00 35 N 115°02 09 W / 36.0097°N 115.0357°W / 36.0097; -115.0357 (Henderson)  
 ## 63 44°56 56 N 93°06 15 W / 44.9489°N 93.1041°W / 44.9489; -93.1041 (Saint Paul)  
 ## 64 38°38 09 N 90°14 41 W / 38.6357°N 90.2446°W / 38.6357; -90.2446 (St. Louis)  
 ## 65 39°08 25 N 84°30 21 W / 39.1402°N 84.5058°W / 39.1402; -84.5058 (Cincinnati)  
 ## 66 40°26 23 N 79°58 36 W / 40.4398°N 79.9766°W / 40.4398; -79.9766 (Pittsburgh)  
 ## 67 36°05 42 N 79°49 37 W / 36.0951°N 79.8270°W / 36.0951; -79.8270 (Greensboro)  
 ## 68 61°10 27 N 149°17 03 W / 61.1743°N 149.2843°W / 61.1743; -149.2843 (Anchorage)  
 ## 69 33°03 03 N 96°44 52 W / 33.0508°N 96.7479°W / 33.0508; -96.7479 (Plano)  
 ## 70 40°48 38 N 96°40 49 W / 40.8105°N 96.6803°W / 40.8105; -96.6803 (Lincoln)  
 ## 71 28°25 00 N 81°16 25 W / 28.4166°N 81.2736°W / 28.4166; -81.2736 (Orlando)  
 ## 72 33°40 42 N 117°46 17 W / 33.6784°N 117.7713°W / 33.6784; -117.7713 (Irvine)  
 ## 73 40°43 27 N 74°10 21 W / 40.7242°N 74.1726°W / 40.7242; -74.1726 (Newark)  
 ## 74 41°39 51 N 83°34 55 W / 41.6641°N 83.5819°W / 41.6641; -83.5819 (Toledo)  
 ## 75 35°58 52 N 78°54 10 W / 35.9811°N 78.9029°W / 35.9811; -78.9029 (Durham)  
 ## 76 32°37 40 N 117°00 55 W / 32.6277°N 117.0152°W / 32.6277; -117.0152 (Chula Vista)  
 ## 77 41°05 18 N 85°08 38 W / 41.0882°N 85.1439°W / 41.0882; -85.1439 (Fort Wayne)  
 ## 78 40°42 41 N 74°03 53 W / 40.7114°N 74.0648°W / 40.7114; -74.0648 (Jersey City)  
 ## 79 27°45 43 N 82°38 39 W / 27.7620°N 82.6441°W / 27.7620; -82.6441 (St. Petersburg)  
 ## 80 27°33 37 N 99°29 21 W / 27.5604°N 99.4892°W / 27.5604; -99.4892 (Laredo)  
 ## 81 43°05 16 N 89°25 48 W / 43.0878°N 89.4299°W / 43.0878; -89.4299 (Madison)  
 ## 82 33°16 58 N 111°51 18 W / 33.2829°N 111.8549°W / 33.2829; -111.8549 (Chandler)  
 ## 83 42°53 33 N 78°51 35 W / 42.8925°N 78.8597°W / 42.8925; -78.8597 (Buffalo)  
 ## 84 33°33 56 N 101°53 12 W / 33.5656°N 101.8867°W / 33.5656; -101.8867 (Lubbock)  
 ## 85 33°41 03 N 111°51 40 W / 33.6843°N 111.8611°W / 33.6843; -111.8611 (Scottsdale)  
 ## 86 39°32 57 N 119°51 00 W / 39.5491°N 119.8499°W / 39.5491; -119.8499 (Reno)  
 ## 87 33°31 59 N 112°11 24 W / 33.5331°N 112.1899°W / 33.5331; -112.1899 (Glendale)  
 ## 88 33°18 37 N 111°44 35 W / 33.3103°N 111.7431°W / 33.3103; -111.7431 (Gilbert)  
 ## 89 36°06 10 N 80°15 40 W / 36.1027°N 80.2610°W / 36.1027; -80.2610 (Winston-Salem)

## 90 36°17 09 N 115°05 38 W / 36.2857°N 115.0939°W / 36.2857; -115.0939 (North Las Vegas)  
 ## 91 36°55 23 N 76°14 41 W / 36.9230°N 76.2446°W / 36.9230; -76.2446 (Norfolk)  
 ## 92 36°40 46 N 76°18 06 W / 36.6794°N 76.3018°W / 36.6794; -76.3018 (Chesapeake)  
 ## 93 32°54 35 N 96°37 49 W / 32.9098°N 96.6303°W / 32.9098; -96.6303 (Garland)  
 ## 94 32°51 28 N 96°58 12 W / 32.8577°N 96.9700°W / 32.8577; -96.9700 (Irving)  
 ## 95 25°52 12 N 80°18 10 W / 25.8699°N 80.3029°W / 25.8699; -80.3029 (Hialeah)  
 ## 96 37°29 40 N 121°56 28 W / 37.4945°N 121.9412°W / 37.4945; -121.9412 (Fremont)  
 ## 97 43°36 01 N 116°13 54 W / 43.6002°N 116.2317°W / 43.6002; -116.2317 (Boise)  
 ## 98 37°31 53 N 77°28 34 W / 37.5314°N 77.4760°W / 37.5314; -77.4760 (Richmond)  
 ## 99 30°26 32 N 91°07 51 W / 30.4422°N 91.1309°W / 30.4422; -91.1309 (Baton Rouge)  
 ## 100 47°40 01 N 117°26 00 W / 47.6669°N 117.4333°W / 47.6669; -117.4333 (Spokane)  
 ## 101 41°34 21 N 93°36 37 W / 41.5726°N 93.6102°W / 41.5726; -93.6102 (Des Moines)  
 ## 102 47°15 08 N 122°27 35 W / 47.2522°N 122.4598°W / 47.2522; -122.4598 (Tacoma)  
 ## 103 34°08 30 N 117°17 37 W / 34.1416°N 117.2936°W / 34.1416; -117.2936 (San Bernardino)  
 ## 104 37°38 15 N 121°00 11 W / 37.6375°N 121.0030°W / 37.6375; -121.0030 (Modesto)  
 ## 105 34°06 32 N 117°27 46 W / 34.1090°N 117.4629°W / 34.1090; -117.4629 (Fontana)  
 ## 106 34°24 11 N 118°30 15 W / 34.4030°N 118.5042°W / 34.4030; -118.5042 (Santa Clarita)  
 ## 107 33°31 39 N 86°47 56 W / 33.5274°N 86.7990°W / 33.5274; -86.7990 (Birmingham)  
 ## 108 34°12 08 N 119°12 17 W / 34.2023°N 119.2046°W / 34.2023; -119.2046 (Oxnard)  
 ## 109 35°04 58 N 78°58 25 W / 35.0828°N 78.9735°W / 35.0828; -78.9735 (Fayetteville)  
 ## 110 33°55 24 N 117°12 21 W / 33.9233°N 117.2057°W / 33.9233; -117.2057 (Moreno Valley)  
 ## 111 43°10 12 N 77°37 01 W / 43.1699°N 77.6169°W / 43.1699; -77.6169 (Rochester)  
 ## 112 34°10 53 N 118°14 45 W / 34.1814°N 118.2458°W / 34.1814; -118.2458 (Glendale)  
 ## 113 33°41 26 N 118°00 33 W / 33.6906°N 118.0093°W / 33.6906; -118.0093 (Huntington Beach)  
 ## 114 40°46 37 N 111°55 52 W / 40.7769°N 111.9310°W / 40.7769; -111.9310 (Salt Lake City)  
 ## 115 42°57 40 N 85°39 20 W / 42.9612°N 85.6556°W / 42.9612; -85.6556 (Grand Rapids)  
 ## 116 35°12 00 N 101°49 49 W / 35.1999°N 101.8302°W / 35.1999; -101.8302 (Amarillo)  
 ## 117 40°56 45 N 73°52 03 W / 40.9459°N 73.8674°W / 40.9459; -73.8674 (Yonkers)  
 ## 118 41°45 49 N 88°17 24 W / 41.7635°N 88.2901°W / 41.7635; -88.2901 (Aurora)  
 ## 119 32°20 50 N 86°15 58 W / 32.3472°N 86.2661°W / 32.3472; -86.2661 (Montgomery)  
 ## 120 41°04 50 N 81°31 17 W / 41.0805°N 81.5214°W / 41.0805; -81.5214 (Akron)  
 ## 121 34°43 31 N 92°21 31 W / 34.7254°N 92.3586°W / 34.7254; -92.3586 (Little Rock)  
 ## 122 34°41 56 N 86°40 23 W / 34.6990°N 86.6730°W / 34.6990; -86.6730 (Huntsville)  
 ## 123 33°21 56 N 82°04 24 W / 33.3655°N 82.0734°W / 33.3655; -82.0734 (Augusta)  
 ## 124 27°16 50 N 80°23 18 W / 27.2806°N 80.3883°W / 27.2806; -80.3883 (Port St. Lucie)  
 ## 125 32°41 13 N 97°01 16 W / 32.6869°N 97.0211°W / 32.6869; -97.0211 (Grand Prairie)  
 ## 126 32°30 37 N 84°52 30 W / 32.5102°N 84.8749°W / 32.5102; -84.8749 (Columbus)  
 ## 127 30°27 18 N 84°15 12 W / 30.4551°N 84.2534°W / 30.4551; -84.2534 (Tallahassee)  
 ## 128 38°53 20 N 94°41 26 W / 38.8890°N 94.6906°W / 38.8890; -94.6906 (Overland Park)  
 ## 129 33°23 18 N 111°55 54 W / 33.3884°N 111.9318°W / 33.3884; -111.9318 (Tempe)  
 ## 130 33°11 55 N 96°40 05 W / 33.1985°N 96.6680°W / 33.1985; -96.6680 (McKinney)  
 ## 131 30°40 06 N 88°06 01 W / 30.6684°N 88.1002°W / 30.6684; -88.1002 (Mobile)  
 ## 132 26°38 36 N 81°59 51 W / 26.6432°N 81.9974°W / 26.6432; -81.9974 (Cape Coral)  
 ## 133 32°28 01 N 93°47 32 W / 32.4669°N 93.7922°W / 32.4669; -93.7922 (Shreveport)  
 ## 134 33°09 19 N 96°49 21 W / 33.1554°N 96.8226°W / 33.1554; -96.8226 (Frisco)  
 ## 135 35°58 15 N 83°56 57 W / 35.9707°N 83.9493°W / 35.9707; -83.9493 (Knoxville)  
 ## 136 42°16 10 N 71°48 28 W / 42.2695°N 71.8078°W / 42.2695; -71.8078 (Worcester)  
 ## 137 25°59 57 N 97°27 18 W / 25.9991°N 97.4550°W / 25.9991; -97.4550 (Brownsville)  
 ## 138 45°38 06 N 122°35 45 W / 45.6349°N 122.5957°W / 45.6349; -122.5957 (Vancouver)  
 ## 139 26°08 28 N 80°08 48 W / 26.1412°N 80.1467°W / 26.1412; -80.1467 (Fort Lauderdale)  
 ## 140 43°32 18 N 96°43 55 W / 43.5383°N 96.7320°W / 43.5383; -96.7320 (Sioux Falls)  
 ## 141 34°02 22 N 117°36 15 W / 34.0394°N 117.6042°W / 34.0394; -117.6042 (Ontario)  
 ## 142 35°03 58 N 85°14 54 W / 35.0660°N 85.2484°W / 35.0660; -85.2484 (Chattanooga)  
 ## 143 41°49 23 N 71°25 08 W / 41.8231°N 71.4188°W / 41.8231; -71.4188 (Providence)

## 144 37°04 34 N 76°31 19 W / 37.0762°N 76.5220°W / 37.0762; -76.5220 (Newport News)  
 ## 145 34°07 24 N 117°33 51 W / 34.1233°N 117.5642°W / 34.1233; -117.5642 (Rancho Cucamonga)  
 ## 146 38°26 48 N 122°42 22 W / 38.4468°N 122.7061°W / 38.4468; -122.7061 (Santa Rosa)  
 ## 147 33°13 28 N 117°18 22 W / 33.2245°N 117.3062°W / 33.2245; -117.3062 (Oceanside)  
 ## 148 44°55 25 N 123°01 24 W / 44.9237°N 123.0232°W / 44.9237; -123.0232 (Salem)  
 ## 149 38°24 53 N 121°23 06 W / 38.4146°N 121.3850°W / 38.4146; -121.3850 (Elk Grove)  
 ## 150 33°46 44 N 117°57 38 W / 33.7788°N 117.9605°W / 33.7788; -117.9605 (Garden Grove)  
 ## 151 26°01 16 N 80°20 25 W / 26.0210°N 80.3404°W / 26.0210; -80.3404 (Pembroke Pines)  
 ## 152 33°47 10 N 112°18 29 W / 33.7862°N 112.3080°W / 33.7862; -112.3080 (Peoria)  
 ## 153 44°03 24 N 123°06 58 W / 44.0567°N 123.1162°W / 44.0567; -123.1162 (Eugene)  
 ## 154 33°51 43 N 117°33 56 W / 33.8620°N 117.5655°W / 33.8620; -117.5655 (Corona)  
 ## 155 35°46 51 N 78°48 48 W / 35.7809°N 78.8133°W / 35.7809; -78.8133 (Cary)  
 ## 156 37°11 39 N 93°17 29 W / 37.1942°N 93.2913°W / 37.1942; -93.2913 (Springfield)  
 ## 157 40°32 54 N 105°03 53 W / 40.5482°N 105.0648°W / 40.5482; -105.0648 (Fort Collins)  
 ## 158 32°18 57 N 90°12 46 W / 32.3158°N 90.2128°W / 32.3158; -90.2128 (Jackson)  
 ## 159 38°49 12 N 77°05 03 W / 38.8201°N 77.0841°W / 38.8201; -77.0841 (Alexandria)  
 ## 160 37°37 43 N 122°06 09 W / 37.6287°N 122.1024°W / 37.6287; -122.1024 (Hayward)  
 ## 161 34°41 37 N 118°10 31 W / 34.6936°N 118.1753°W / 34.6936; -118.1753 (Lancaster)  
 ## 162 39°41 56 N 105°07 03 W / 39.6989°N 105.1176°W / 39.6989; -105.1176 (Lakewood)  
 ## 163 36°33 59 N 87°20 43 W / 36.5664°N 87.3452°W / 36.5664; -87.3452 (Clarksville)  
 ## 164 34°35 28 N 118°06 19 W / 34.5910°N 118.1054°W / 34.5910; -118.1054 (Palmdale)  
 ## 165 36°41 25 N 121°38 01 W / 36.6902°N 121.6337°W / 36.6902; -121.6337 (Salinas)  
 ## 166 42°06 56 N 72°32 24 W / 42.1155°N 72.5400°W / 42.1155; -72.5400 (Springfield)  
 ## 167 26°01 52 N 80°09 53 W / 26.0310°N 80.1646°W / 26.0310; -80.1646 (Hollywood)  
 ## 168 29°39 31 N 95°09 02 W / 29.6586°N 95.1506°W / 29.6586; -95.1506 (Pasadena)  
 ## 169 37°23 09 N 122°01 35 W / 37.3858°N 122.0263°W / 37.3858; -122.0263 (Sunnyvale)  
 ## 170 32°48 32 N 83°41 39 W / 32.8088°N 83.6942°W / 32.8088; -83.6942 (Macon)  
 ## 171 39°07 21 N 94°44 30 W / 39.1225°N 94.7418°W / 39.1225; -94.7418 (Kansas City)  
 ## 172 34°03 31 N 117°45 40 W / 34.0585°N 117.7611°W / 34.0585; -117.7611 (Pomona)  
 ## 173 33°07 59 N 117°04 26 W / 33.1331°N 117.0740°W / 33.1331; -117.0740 (Escondido)  
 ## 174 31°04 40 N 97°43 55 W / 31.0777°N 97.7320°W / 31.0777; -97.7320 (Killeen)  
 ## 175 41°44 57 N 88°09 43 W / 41.7492°N 88.1620°W / 41.7492; -88.1620 (Naperville)  
 ## 176 41°31 04 N 88°08 56 W / 41.5177°N 88.1488°W / 41.5177; -88.1488 (Joliet)  
 ## 177 47°35 52 N 122°09 23 W / 47.5979°N 122.1565°W / 47.5979; -122.1565 (Bellevue)  
 ## 178 42°15 32 N 89°03 53 W / 42.2588°N 89.0646°W / 42.2588; -89.0646 (Rockford)  
 ## 179 32°00 09 N 81°09 13 W / 32.0025°N 81.1536°W / 32.0025; -81.1536 (Savannah)  
 ## 180 40°54 53 N 74°09 46 W / 40.9148°N 74.1628°W / 40.9148; -74.1628 (Paterson)  
 ## 181 33°50 06 N 118°20 29 W / 33.8350°N 118.3414°W / 33.8350; -118.3414 (Torrance)  
 ## 182 41°11 15 N 73°11 45 W / 41.1874°N 73.1958°W / 41.1874; -73.1958 (Bridgeport)  
 ## 183 26°13 56 N 98°14 47 W / 26.2322°N 98.2464°W / 26.2322; -98.2464 (McAllen)  
 ## 184 32°45 46 N 96°35 20 W / 32.7629°N 96.5888°W / 32.7629; -96.5888 (Mesquite)  
 ## 185 43°02 28 N 76°08 37 W / 43.0410°N 76.1436°W / 43.0410; -76.1436 (Syracuse)  
 ## 186 32°01 29 N 102°06 49 W / 32.0246°N 102.1135°W / 32.0246; -102.1135 (Midland)  
 ## 187 34°09 38 N 118°08 23 W / 34.1606°N 118.1396°W / 34.1606; -118.1396 (Pasadena)  
 ## 188 35°51 08 N 86°24 58 W / 35.8522°N 86.4160°W / 35.8522; -86.4160 (Murfreesboro)  
 ## 189 25°58 37 N 80°20 09 W / 25.9770°N 80.3358°W / 25.9770; -80.3358 (Miramar)  
 ## 190 39°46 39 N 84°11 59 W / 39.7774°N 84.1996°W / 39.7774; -84.1996 (Dayton)  
 ## 191 33°53 09 N 117°55 41 W / 33.8857°N 117.9280°W / 33.8857; -117.9280 (Fullerton)  
 ## 192 38°53 03 N 94°49 10 W / 38.8843°N 94.8195°W / 38.8843; -94.8195 (Olathe)  
 ## 193 33°47 13 N 117°51 41 W / 33.7870°N 117.8613°W / 33.7870; -117.8613 (Orange)  
 ## 194 39°55 10 N 104°56 34 W / 39.9194°N 104.9428°W / 39.9194; -104.9428 (Thornton)  
 ## 195 38°46 08 N 121°19 08 W / 38.7690°N 121.3189°W / 38.7690; -121.3189 (Roseville)  
 ## 196 33°13 00 N 97°08 29 W / 33.2166°N 97.1414°W / 33.2166; -97.1414 (Denton)  
 ## 197 31°33 36 N 97°11 10 W / 31.5601°N 97.1860°W / 31.5601; -97.1860 (Waco)

## 198 33°40 14 N 112°27 10 W / 33.6706°N 112.4527°W / 33.6706; -112.4527 (Surprise)  
 ## 199 32°59 18 N 96°53 59 W / 32.9884°N 96.8998°W / 32.9884; -96.8998 (Carrollton)  
 ## 200 40°41 19 N 112°00 42 W / 40.6885°N 112.0118°W / 40.6885; -112.0118 (West Valley City)  
 ## 201 32°49 04 N 79°57 32 W / 32.8179°N 79.9590°W / 32.8179; -79.9590 (Charleston)  
 ## 202 42°29 34 N 83°01 30 W / 42.4929°N 83.0250°W / 42.4929; -83.0250 (Warren)  
 ## 203 37°02 53 N 76°17 50 W / 37.0480°N 76.2971°W / 37.0480; -76.2971 (Hampton)  
 ## 204 29°40 44 N 82°20 46 W / 29.6788°N 82.3461°W / 29.6788; -82.3461 (Gainesville)  
 ## 205 36°19 38 N 119°19 44 W / 36.3273°N 119.3289°W / 36.3273; -119.3289 (Visalia)  
 ## 206 26°16 15 N 80°15 33 W / 26.2707°N 80.2593°W / 26.2707; -80.2593 (Coral Springs)  
 ## 207 34°01 45 N 80°53 53 W / 34.0291°N 80.8980°W / 34.0291; -80.8980 (Columbia)  
 ## 208 41°58 01 N 91°40 40 W / 41.9670°N 91.6778°W / 41.9670; -91.6778 (Cedar Rapids)  
 ## 209 42°34 52 N 83°01 49 W / 42.5812°N 83.0303°W / 42.5812; -83.0303 (Sterling Heights)  
 ## 210 41°18 39 N 72°55 30 W / 41.3108°N 72.9250°W / 41.3108; -72.9250 (New Haven)  
 ## 211 41°04 48 N 73°32 46 W / 41.0799°N 73.5460°W / 41.0799; -73.5460 (Stamford)  
 ## 212 37°58 20 N 122°00 06 W / 37.9722°N 122.0016°W / 37.9722; -122.0016 (Concord)  
 ## 213 47°23 17 N 122°12 46 W / 47.3880°N 122.2127°W / 47.3880; -122.2127 (Kent)  
 ## 214 37°21 53 N 121°58 04 W / 37.3646°N 121.9679°W / 37.3646; -121.9679 (Santa Clara)  
 ## 215 40°39 59 N 74°11 37 W / 40.6664°N 74.1935°W / 40.6664; -74.1935 (Elizabeth)  
 ## 216 30°31 31 N 97°39 58 W / 30.5252°N 97.6660°W / 30.5252; -97.6660 (Round Rock)  
 ## 217 34°11 36 N 118°52 27 W / 34.1933°N 118.8742°W / 34.1933; -118.8742 (Thousand Oaks)  
 ## 218 30°12 27 N 92°01 43 W / 30.2074°N 92.0285°W / 30.2074; -92.0285 (Lafayette)  
 ## 219 33°56 59 N 83°22 12 W / 33.9496°N 83.3701°W / 33.9496; -83.3701 (Athens)  
 ## 220 39°02 05 N 95°41 46 W / 39.0347°N 95.6962°W / 39.0347; -95.6962 (Topeka)  
 ## 221 34°16 01 N 118°44 55 W / 34.2669°N 118.7485°W / 34.2669; -118.7485 (Simi Valley)  
 ## 222 46°51 55 N 96°49 44 W / 46.8652°N 96.8290°W / 46.8652; -96.8290 (Fargo)  
 ## 223 35°14 26 N 97°20 43 W / 35.2406°N 97.3453°W / 35.2406; -97.3453 (Norman)  
 ## 224 38°57 06 N 92°19 43 W / 38.951561°N 92.328638°W / 38.951561; -92.328638 (Columbia)  
 ## 225 32°27 16 N 99°44 17 W / 32.4545°N 99.7381°W / 32.4545; -99.7381 (Abilene)  
 ## 226 34°12 33 N 77°53 09 W / 34.2092°N 77.8858°W / 34.2092; -77.8858 (Wilmington)  
 ## 227 41°45 57 N 72°40 54 W / 41.7659°N 72.6816°W / 41.7659; -72.6816 (Hartford)  
 ## 228 34°31 40 N 117°21 13 W / 34.5277°N 117.3536°W / 34.5277; -117.3536 (Victorville)  
 ## 229 29°33 21 N 95°19 23 W / 29.5558°N 95.3231°W / 29.5558; -95.3231 (Pearland)  
 ## 230 38°06 28 N 122°15 50 W / 38.1079°N 122.2640°W / 38.1079; -122.2640 (Vallejo)  
 ## 231 42°16 34 N 83°43 51 W / 42.2761°N 83.7309°W / 42.2761; -83.7309 (Ann Arbor)  
 ## 232 37°52 01 N 122°17 57 W / 37.8670°N 122.2991°W / 37.8670; -122.2991 (Berkeley)  
 ## 233 40°35 37 N 75°28 42 W / 40.5936°N 75.4784°W / 40.5936; -75.4784 (Allentown)  
 ## 234 32°58 20 N 96°42 29 W / 32.9723°N 96.7081°W / 32.9723; -96.7081 (Richardson)  
 ## 235 31°53 02 N 102°20 28 W / 31.8838°N 102.3411°W / 31.8838; -102.3411 (Odessa)  
 ## 236 39°50 01 N 105°09 01 W / 39.8337°N 105.1503°W / 39.8337; -105.1503 (Arvada)  
 ## 237 42°22 34 N 71°07 07 W / 42.3760°N 71.1187°W / 42.3760; -71.1187 (Cambridge)  
 ## 238 29°35 58 N 95°36 51 W / 29.5994°N 95.6142°W / 29.5994; -95.6142 (Sugar Land)  
 ## 239 30°05 06 N 94°08 43 W / 30.0849°N 94.1453°W / 30.0849; -94.1453 (Beaumont)  
 ## 240 42°42 51 N 84°33 33 W / 42.7143°N 84.5593°W / 42.7143; -84.5593 (Lansing)  
 ## 241 37°59 16 N 87°32 05 W / 37.9877°N 87.5347°W / 37.9877; -87.5347 (Evansville)  
 ## 242 44°00 55 N 92°28 38 W / 44.0154°N 92.4772°W / 44.0154; -92.4772 (Rochester)  
 ## 243 39°05 08 N 94°21 08 W / 39.0855°N 94.3521°W / 39.0855; -94.3521 (Independence)  
 ## 244 38°15 33 N 122°01 56 W / 38.2593°N 122.0321°W / 38.2593; -122.0321 (Fairfield)  
 ## 245 40°14 43 N 111°38 41 W / 40.2453°N 111.6448°W / 40.2453; -111.6448 (Provo)  
 ## 246 27°58 44 N 82°46 00 W / 27.9789°N 82.7666°W / 27.9789; -82.7666 (Clearwater)  
 ## 247 30°35 07 N 96°17 47 W / 30.5852°N 96.2964°W / 30.5852; -96.2964 (College Station)  
 ## 248 40°36 09 N 112°00 03 W / 40.6024°N 112.0008°W / 40.6024; -112.0008 (West Jordan)  
 ## 249 33°07 26 N 117°16 58 W / 33.1239°N 117.2828°W / 33.1239; -117.2828 (Carlsbad)  
 ## 250 34°04 29 N 118°01 45 W / 34.0746°N 118.0291°W / 34.0746; -118.0291 (El Monte)  
 ## 251 33°34 20 N 117°11 25 W / 33.5721°N 117.1904°W / 33.5721; -117.1904 (Murrieta)

## 252 33°29 35 N 117°07 54 W / 33.4931°N 117.1317°W / 33.4931; -117.1317 (Temecula)  
 ## 253 39°47 28 N 89°38 41 W / 39.7911°N 89.6446°W / 39.7911; -89.6446 (Springfield)  
 ## 254 27°59 08 N 80°39 45 W / 27.9856°N 80.6626°W / 27.9856; -80.6626 (Palm Bay)  
 ## 255 33°39 57 N 117°54 44 W / 33.6659°N 117.9123°W / 33.6659; -117.9123 (Costa Mesa)  
 ## 256 39°52 56 N 105°03 52 W / 39.8822°N 105.0644°W / 39.8822; -105.0644 (Westminster)  
 ## 257 32°55 04 N 80°03 54 W / 32.9178°N 80.0650°W / 32.9178; -80.0650 (North Charleston)  
 ## 258 25°56 56 N 80°14 37 W / 25.9489°N 80.2436°W / 25.9489; -80.2436 (Miami Gardens)  
 ## 259 42°59 06 N 71°26 39 W / 42.9849°N 71.4441°W / 42.9849; -71.4441 (Manchester)  
 ## 260 35°59 24 N 79°59 26 W / 35.9900°N 79.9905°W / 35.9900; -79.9905 (High Point)  
 ## 261 33°56 18 N 118°07 51 W / 33.9382°N 118.1309°W / 33.9382; -118.1309 (Downey)  
 ## 262 36°49 42 N 119°41 06 W / 36.8282°N 119.6849°W / 36.8282; -119.6849 (Clovis)  
 ## 263 26°14 30 N 80°08 02 W / 26.2416°N 80.1339°W / 26.2416; -80.1339 (Pompano Beach)  
 ## 264 38°16 12 N 104°36 44 W / 38.2699°N 104.6123°W / 38.2699; -104.6123 (Pueblo)  
 ## 265 42°02 23 N 88°19 18 W / 42.0396°N 88.3217°W / 42.0396; -88.3217 (Elgin)  
 ## 266 42°38 20 N 71°19 16 W / 42.6390°N 71.3211°W / 42.6390; -71.3211 (Lowell)  
 ## 267 37°58 45 N 121°47 46 W / 37.9791°N 121.7962°W / 37.9791; -121.7962 (Antioch)  
 ## 268 26°44 47 N 80°07 30 W / 26.7464°N 80.1251°W / 26.7464; -80.1251 (West Palm Beach)  
 ## 269 40°45 05 N 89°37 03 W / 40.7515°N 89.6174°W / 40.7515; -89.6174 (Peoria)  
 ## 270 47°57 24 N 122°11 29 W / 47.9566°N 122.1914°W / 47.9566; -122.1914 (Everett)  
 ## 271 34°16 04 N 119°15 15 W / 34.2678°N 119.2542°W / 34.2678; -119.2542 (Ventura)  
 ## 272 39°35 26 N 104°52 09 W / 39.5906°N 104.8691°W / 39.5906; -104.8691 (Centennial)  
 ## 273 28°03 20 N 81°57 18 W / 28.0555°N 81.9549°W / 28.0555; -81.9549 (Lakeland)  
 ## 274 45°30 08 N 122°26 30 W / 45.5023°N 122.4416°W / 45.5023; -122.4416 (Gresham)  
 ## 275 37°57 08 N 122°21 38 W / 37.9523°N 122.3606°W / 37.9523; -122.3606 (Richmond)  
 ## 276 45°47 19 N 108°33 00 W / 45.7885°N 108.5499°W / 45.7885; -108.5499 (Billings)  
 ## 277 33°57 22 N 118°20 39 W / 33.9561°N 118.3443°W / 33.9561; -118.3443 (Inglewood)  
 ## 278 36°02 11 N 95°46 52 W / 36.0365°N 95.7810°W / 36.0365; -95.7810 (Broken Arrow)  
 ## 279 33°55 53 N 84°22 07 W / 33.9315°N 84.3687°W / 33.9315; -84.3687 (Sandy Springs)  
 ## 280 34°00 09 N 117°28 03 W / 34.0026°N 117.4676°W / 34.0026; -117.4676 (Jurupa Valley)  
 ## 281 45°31 41 N 122°56 09 W / 45.5280°N 122.9357°W / 45.5280; -122.9357 (Hillsboro)  
 ## 282 41°33 31 N 73°02 12 W / 41.5585°N 73.0367°W / 41.5585; -73.0367 (Waterbury)  
 ## 283 34°56 00 N 120°26 38 W / 34.9332°N 120.4438°W / 34.9332; -120.4438 (Santa Maria)  
 ## 284 40°01 37 N 105°15 07 W / 40.0270°N 105.2519°W / 40.0270; -105.2519 (Boulder)  
 ## 285 40°24 55 N 104°46 11 W / 40.4153°N 104.7697°W / 40.4153; -104.7697 (Greeley)  
 ## 286 37°42 03 N 122°27 54 W / 37.7009°N 122.4650°W / 37.7009; -122.4650 (Daly City)  
 ## 287 43°36 51 N 116°23 56 W / 43.6142°N 116.3989°W / 43.6142; -116.3989 (Meridian)  
 ## 288 33°02 48 N 96°58 54 W / 33.0466°N 96.9818°W / 33.0466; -96.9818 (Lewisville)  
 ## 289 26°04 45 N 80°17 06 W / 26.0791°N 80.2850°W / 26.0791; -80.2850 (Davie)  
 ## 290 34°03 21 N 117°54 36 W / 34.0559°N 117.9099°W / 34.0559; -117.9099 (West Covina)  
 ## 291 29°29 24 N 95°06 33 W / 29.4901°N 95.1091°W / 29.4901; -95.1091 (League City)  
 ## 292 32°19 02 N 95°18 21 W / 32.3173°N 95.3059°W / 32.3173; -95.3059 (Tyler)  
 ## 293 33°54 27 N 118°05 01 W / 33.9076°N 118.0835°W / 33.9076; -118.0835 (Norwalk)  
 ## 294 37°33 37 N 122°18 38 W / 37.5603°N 122.3106°W / 37.5603; -122.3106 (San Mateo)  
 ## 295 44°31 15 N 87°59 03 W / 44.5207°N 87.9842°W / 44.5207; -87.9842 (Green Bay)  
 ## 296 33°54 24 N 98°31 33 W / 33.9067°N 98.5259°W / 33.9067; -98.5259 (Wichita Falls)  
 ## 297 39°33 16 N 119°44 08 W / 39.5544°N 119.7356°W / 39.5544; -119.7356 (Sparks)  
 ## 298 40°04 38 N 74°12 01 W / 40.0771°N 74.2004°W / 40.0771; -74.2004 (Lakewood)  
 ## 299 34°11 24 N 118°19 35 W / 34.1901°N 118.3264°W / 34.1901; -118.3264 (Burbank)  
 ## 300 34°06 42 N 117°23 18 W / 34.1118°N 117.3883°W / 34.1118; -117.3883 (Rialto)  
 ## 301 33°05 59 N 96°39 47 W / 33.0997°N 96.6631°W / 33.0997; -96.6631 (Allen)  
 ## 302 32°48 06 N 116°57 37 W / 32.8017°N 116.9604°W / 32.8017; -116.9604 (El Cajon)  
 ## 303 32°19 35 N 106°47 23 W / 32.3264°N 106.7897°W / 32.3264; -106.7897 (Las Cruces)  
 ## 304 47°28 34 N 122°11 31 W / 47.4761°N 122.1920°W / 47.4761; -122.1920 (Renton)  
 ## 305 41°33 15 N 90°36 14 W / 41.5541°N 90.6040°W / 41.5541; -90.6040 (Davenport)



```

## 306      41°40 37 N 86°16 08 W / 41.6769°N 86.2690°W / 41.6769; -86.2690 (South Bend)
## 307      33°11 22 N 117°14 19 W / 33.1895°N 117.2386°W / 33.1895; -117.2386 (Vista)
## 308      33°12 23 N 87°32 05 W / 33.2065°N 87.5346°W / 33.2065; -87.5346 (Tuscaloosa)
## 309      42°35 25 N 82°55 01 W / 42.5903°N 82.9170°W / 42.5903; -82.9170 (Clinton)
## 310      40°30 14 N 74°20 58 W / 40.5040°N 74.3494°W / 40.5040; -74.3494 (Edison)
## 311      40°33 39 N 74°17 34 W / 40.5607°N 74.2927°W / 40.5607; -74.2927 (Woodbridge)
## 312      31°26 28 N 100°27 02 W / 31.4411°N 100.4505°W / 31.4411; -100.4505 (San Angelo)
## 313      42°34 56 N 87°50 44 W / 42.5822°N 87.8456°W / 42.5822; -87.8456 (Kenosha)
## 314      38°21 14 N 121°58 22 W / 38.3539°N 121.9728°W / 38.3539; -121.9728 (Vacaville)

```

```
##
```

```
## [[6]]
```

```
##      Population Number of municipal governments[4]
```

```

## 1      1,000,000+      10
## 2 300,000-999,999      56
## 3 200,000-299,999      49
## 4 100,000-199,999     199
## 5      Total      314

```

```
##
```

```
## [[7]]
```

```
##      State Number of cities
```

```

## 1      CA      74
## 2      TX      40
## 3      FL      22
## 4      CO      12
## 5      AZ      10
## 6      NC      9
## 7      IL, WA      8
## 8      GA, MI, NJ, VA      7
## 9      OH, TN      6
## 10     AL, CT, KS, MA, MO, NV, NY, OR      5
## 11     IN, LA, OK, UT, WI      4
## 12     IA, MN, PA, SC      3
## 13     ID, KY, NE, NM      2
## 14 AK, AR, DC, HI, MD, MS, MT, ND, NH, RI, SD      1
## 15     DE, ME, VT, WV, WY      0

```

```
##
```

```
## [[8]]
```

```
##      Map this section's coordinates using: OpenStreetMap
```

```
## 1      Download coordinates as: KML · GPX
```

```
##
```

```
## [[9]]
```

```
##      2019 rank Municipio 2019 estimate 2010 Census Change 2016 land area
```

```

## 1      1 San Juan      318,441      395,326 -19.45%      39.5 sq mi
## 2      2 Bayamón      169,269      208,116 -18.67%      27.0 sq mi
## 3      3 Carolina      146,984      176,762 -16.85%      20.7 sq mi
## 4      4 Ponce      131,881      166,327 -20.71%      30.7 sq mi
## 5      5 Caguas      124,606      142,893 -12.80%      10.9 sq mi

```

```
##      2016 land area 2019 population density 2019 population density
```

```

## 1      102.3 km2      8,539/sq mi      3,297/km2
## 2      69.9 km2      6,651/sq mi      2,568/km2
## 3      53.6 km2      7,463/sq mi      2,881/km2
## 4      79.5 km2      4,588/sq mi      1,771/km2
## 5      28.2 km2      11,890/sq mi      4,590/km2

```

```
##
```

```
Location
```

```

## 1 18°24 23 N 66°03 50 W / 18.4064°N 66.0640°W / 18.4064; -66.0640 (San Juan)
## 2 18°22 48 N 66°09 48 W / 18.3801°N 66.1633°W / 18.3801; -66.1633 (Bayamón)
## 3 18°24 43 N 65°58 47 W / 18.4120°N 65.9798°W / 18.4120; -65.9798 (Carolina)
## 4 17°59 15 N 66°36 35 W / 17.9874°N 66.6097°W / 17.9874; -66.6097 (Ponce)
## 5 18°13 56 N 66°02 20 W / 18.2321°N 66.0390°W / 18.2321; -66.0390 (Caguas)
##
## [[10]]
## Map this section's coordinates using: OpenStreetMap
## 1 Download coordinates as: KML · GPX
##
## [[11]]
## City State 2010 Census 2000 Census Change
## 1 Paradise Nevada 223,167 186,070 +19.94%
## 2 Arlington Virginia 207,627 189,453 +9.59%
## 3 Sunrise Manor Nevada 189,372 156,120 +21.30%
## 4 Spring Valley Nevada 178,395 117,390 +51.97%
## 5 Metairie Louisiana 138,481 146,136 -5.24%
## 6 East Los Angeles California 126,496 124,283 +1.78%
## 7 Enterprise Nevada 108,481 14,676 +639.17%
## 8 Brandon Florida 103,483 77,895 +32.85%
## 2010 land area 2010 land area 2010 population density
## 1 46.717 sq mi 120.996 km2 4,777/sq mi
## 2 25.98 sq mi 67.288 km2 7,992/sq mi
## 3 33.352 sq mi 86.381 km2 5,678/sq mi
## 4 33.226 sq mi 86.055 km2 5,369/sq mi
## 5 23.222 sq mi 60.145 km2 5,963/sq mi
## 6 7.448 sq mi 19.290 km2 16,984/sq mi
## 7 46.513 sq mi 120.468 km2 2,332/sq mi
## 8 33.101 sq mi 85.731 km2 3,126/sq mi
## 2010 population density ANSI
## 1 1,844/km2 2409023
## 2 3,086/km2 NA
## 3 2,192/km2 2410035
## 4 2,073/km2 2408797
## 5 2,302/km2 2403282
## 6 6,558/km2 2408711
## 7 900/km2 2408084
## 8 1,207/km2 2402711
##
## Location
## 1 36°04 51 N 115°08 12 W / 36.08073°N 115.1368°W / 36.08073; -115.1368 (Paradise)
## 2 38°52 48 N 77°10 59 W / 38.880°N 77.183°W / 38.880; -77.183 (Arlington)
## 3 36°10 43 N 115°02 56 W / 36.1785°N 115.0490°W / 36.1785; -115.0490 (Sunrise Manor)
## 4 36°05 55 N 115°15 43 W / 36.0987°N 115.2619°W / 36.0987; -115.2619 (Spring Valley)
## 5 29°59 52 N 90°10 40 W / 29.9978°N 90.1779°W / 29.9978; -90.1779 (Metairie)
## 6 34°01 53 N 118°10 07 W / 34.0315°N 118.1686°W / 34.0315; -118.1686 (East Los Angeles)
## 7 36°01 06 N 115°12 55 W / 36.0182°N 115.2154°W / 36.0182; -115.2154 (Enterprise)
## 8 27°56 10 N 82°17 57 W / 27.9360°N 82.2993°W / 27.9360; -82.2993 (Brandon)
##
## [[12]]
## City State 2018 estimated population
## 1 Albany New York 97,279
## 2 Allegheny Pennsylvania N/A[af]
## 3 Brooklyn New York N/A[ag]
## 4 Camden New Jersey 73,973

```

## 5	Canton	Ohio	70,458
## 6	Dearborn	Michigan	94,333
## 7	Duluth	Minnesota	85,884
## 8	Erie	Pennsylvania	96,471
## 9	Fall River	Massachusetts	89,661
## 10	Flint	Michigan	95,943
## 11	Gary	Indiana	75,282
## 12	Hammond	Indiana	75,795
## 13	Livonia	Michigan	93,971
## 14	Lynn	Massachusetts	94,654
## 15	New Bedford	Massachusetts	95,315
## 16	Niagara Falls	New York	48,144
## 17	Parma	Ohio	78,751
## 18	Portsmouth	Virginia	94,632
## 19	Reading	Pennsylvania	88,495
## 20	Roanoke	Virginia	99,920
## 21	Scranton	Pennsylvania	77,182
## 22	Somerville	Massachusetts	81,562
## 23	St. Joseph	Missouri	75,959
## 24	Trenton	New Jersey	83,974
## 25	Utica	New York	60,100
## 26	Wilmington	Delaware	70,635
## 27	Youngstown	Ohio	64,958
##	Peak population (year) Numeric decline from peak population		
## 1	134,995	(1950)	-37,716
## 2	129,896	(1900)	-
## 3	806,343	(1890)	-
## 4	124,555	(1950)	-50,582
## 5	116,912	(1950)	-46,454
## 6	112,007	(1960)	-17,674
## 7	107,312	(1960)	-21,428
## 8	138,440	(1960)	-41,969
## 9	120,485	(1920)	-30,824
## 10	196,940	(1960)	-100,997
## 11	178,320	(1960)	-103,038
## 12	111,698	(1960)	-35,903
## 13	110,109	(1970)	-16,138
## 14	102,320	(1930)	-7,666
## 15	121,217	(1920)	-25,902
## 16	102,394	(1960)	-54,250
## 17	100,216	(1970)	-21,465
## 18	114,773	(1960)	-20,141
## 19	111,171	(1930)	-22,676
## 20	100,220	(1980)	-300
## 21	143,333	(1930)	-66,151
## 22	103,908	(1930)	-22,346
## 23	102,979	(1900)	-27,020
## 24	128,009	(1950)	-44,035
## 25	101,740	(1930)	-41,640
## 26	112,504	(1940)	-41,869
## 27	170,002	(1930)	-105,044
##	Percent decline from peak population		
## 1			-27.94%
## 2			-

## 3	-
## 4	-40.61%
## 5	-39.73%
## 6	-15.78%
## 7	-19.97%
## 8	-30.32%
## 9	-25.58%
## 10	-51.28%
## 11	-57.78%
## 12	-32.14%
## 13	-14.66%
## 14	-7.49%
## 15	-21.37%
## 16	-52.98%
## 17	-21.42%
## 18	-17.55%
## 19	-20.40%
## 20	-0.30%
## 21	-46.15%
## 22	-21.51%
## 23	-26.24%
## 24	-34.40%
## 25	-40.93%
## 26	-37.22%
## 27	-61.79%
##	Notes
## 1	2.30% from 2000 to 2010
## 2	annexed by Pittsburgh in 1907
## 3	consolidated with New York City in 1898
## 4	
## 5	
## 6	9.93% from 1990 to 2010
## 7	
## 8	
## 9	
## 10	
## 11	
## 12	
## 13	
## 14	15.11% from 1980 to 2010
## 15	1.39% from 2000 to 2010
## 16	
## 17	
## 18	
## 19	12.38% from 1990 to 2010
## 20	2.23% from 2000 to 2010
## 21	1.6% from 2010 to 2016
## 22	7.7% from 2010 to 2018
## 23	6.86% from 1990 to 2010
## 24	
## 25	2.61% from 2000 to 2010
## 26	
## 27	

```

tables_data <- html_table(tables, header = FALSE, fill = TRUE)[[5]]

tibble1<-as_tibble(tables_data) %>%
filter(row_number() != 1) %>%
rename("city" = X2, "estimate" = X4, "landarea_mi2"= X7)

tibble2 <- tibble1 %>%
select(city,estimate,landarea_mi2) %>%
mutate(estimate = parse_number(estimate),
landarea_mi2 = parse_number(landarea_mi2),
city = str_replace_all(city, "\\[.\\.\\]", ""))%>%
arrange(desc(landarea_mi2))

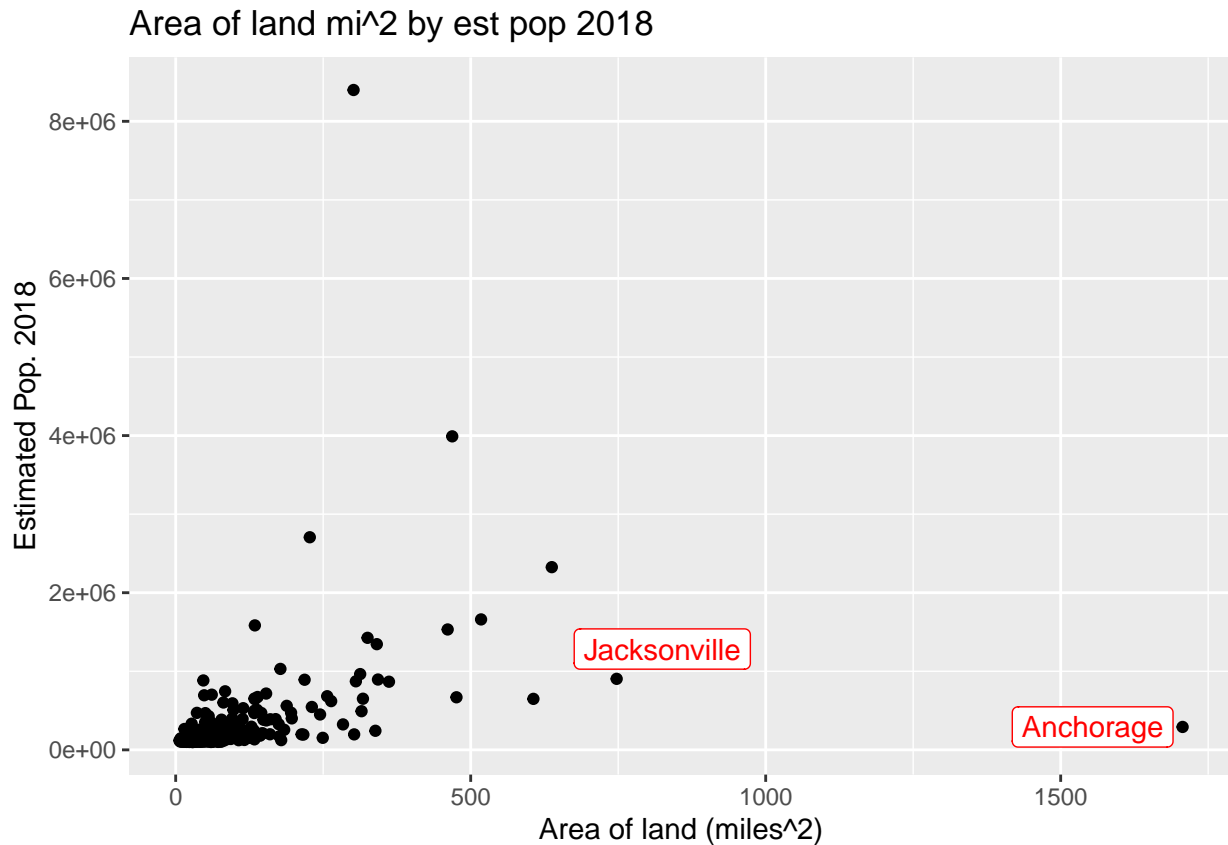
####
outliertib<-tibble2 %>%
filter(landarea_mi2>= 715)
outliertib

## # A tibble: 2 x 3
##   city          estimate landarea_mi2
##   <chr>          <dbl>         <dbl>
## 1 Anchorage      291538          1707.
## 2 Jacksonville   903889           747.

####

ggplot(tibble2, mapping=aes(x=landarea_mi2, y=estimate))+
geom_point()+
labs(title="Area of land mi^2 by est pop 2018", x = "Area of land (miles^2)",
y = "Estimated Pop. 2018")+
geom_label_repel(mapping = aes(label = city), color="red",
data = outliertib)

```



- Following the examples from class, use the `rvest` package to pull off data from the link [https://www.imdb.com/search/title?year=2018-01-01,2018-12-31&sort=boxoffice\\_gross\\_us,desc](https://www.imdb.com/search/title?year=2018-01-01,2018-12-31&sort=boxoffice_gross_us,desc) with the top 50 grossing films from 2018. Generate a tibble that contains the title, gross, star rating (imdb score), and metascore for the top 50 films. Then create a scatterplot of star rating versus Gross and label any outlying films. A couple of hints:

```
#call html
movies <- read_html("https://www.imdb.com/search/title/?year=2018-01-01,2018-12-31&sort=boxoffice_gross_us,desc")

#load in title of movie
title_data_html<-html_nodes(movies, '.lister-item-header a')
title<- html_text(title_data_html)
head(title)

## [1] "Black Panther"           "Avengers: Infinity War"
## [3] "Incredibles 2"           "Jurassic World: Fallen Kingdom"
## [5] "Aquaman"                 "Deadpool 2"

#load in gross data of movie
gross_data_html<-html_nodes(movies, '.ghost~ .text-muted+ span')
gross<-html_text(gross_data_html)
gross<-parse_number(gross)

#load in star rating of movie
starrating_data_html<-html_nodes(movies, '.ratings-imdb-rating strong')
starrating<-html_text(starrating_data_html)
starrating<-parse_number(starrating)
```

```

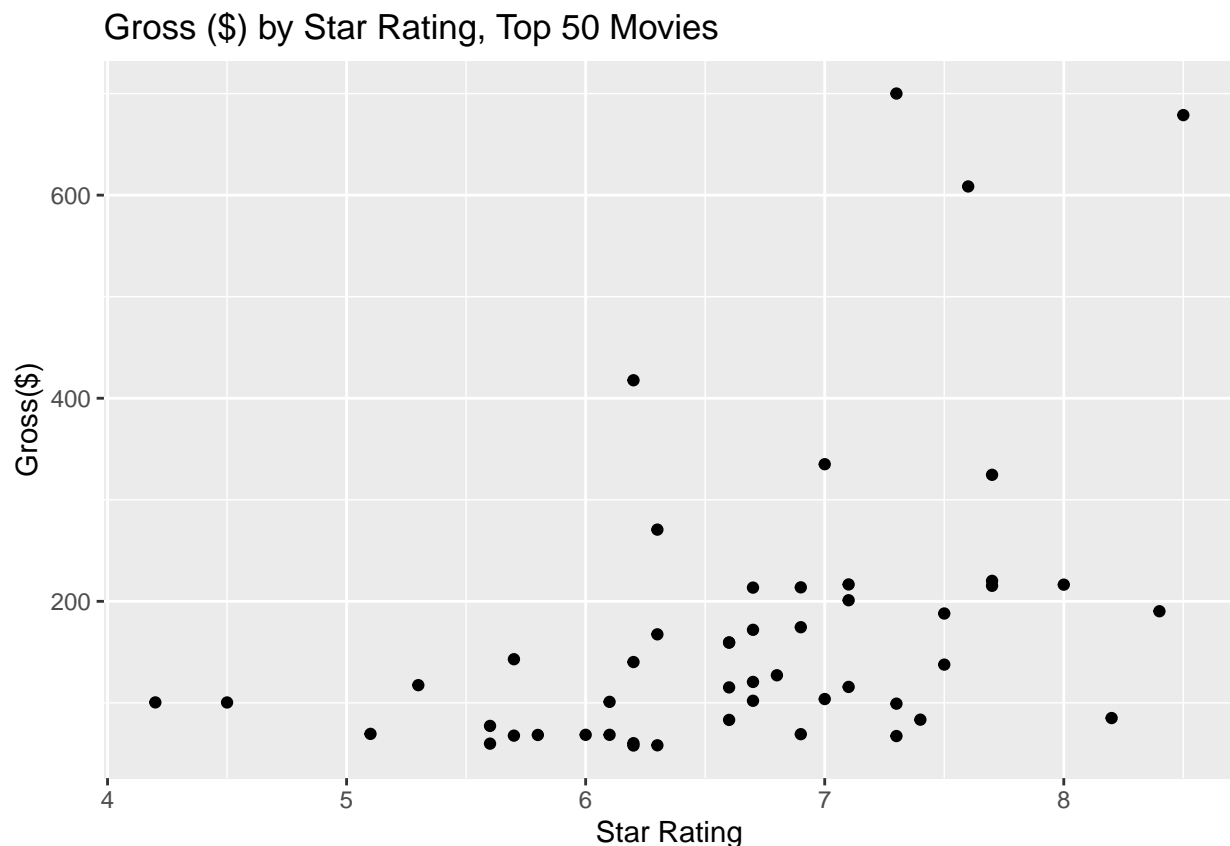
#load in metascore rating of movie
metascore_data_html<-html_nodes(movies, '.metascore')
metascore<-html_text(metascore_data_html)
metascore<-parse_number(metascore)

#combine 4 columns into one tibble
top50<-tibble(title, gross, starrating, metascore)

####
#find outliers
outliertib <- top50 %>%
filter(starrating < 4)
####

#plot results
ggplot(top50, mapping=aes(x=starrating, y=gross))+
geom_point()+
geom_label_repel(mapping = aes(label = title), color="red", data = outliertib, nudge_y = 5)+
labs(title="Gross ($) by Star Rating, Top 50 Movies", y="Gross($)", x="Star Rating")

```



- Identify which films of the top 50 from 2018 had the biggest discrepancy between reviewers (metascore) and viewers (star rating).

```

disc <- top50 %>%
  mutate(starrating = starrating * 10) %>% mutate(discrep = abs(metascore - starrating)) %>%
  mutate(discrep = discrep) %>%
  arrange(desc(discrep))

```

```
#Top 5 most discrepant movies in top 50
head(disc, n=5)
```

```
## # A tibble: 5 x 5
##   title                gross starrating metascore discrep
##   <chr>                <dbl>      <dbl>      <dbl>    <dbl>
## 1 I Can Only Imagine    83.5        74        30      44
## 2 Venom                 214.        67        35      32
## 3 Bohemian Rhapsody     216.        80        49      31
## 4 Avengers: Infinity War 679.        85        68      17
## 5 The Equalizer 2       102.        67        50      17
```

```
#Top 5 most discrepant movies in top 50 #head(disc, n=5)
```

**title gross starrating metascore discrep**

```
#1 I Can Only Imagine 83.5 74 30 44
```

```
#2 Venom 214. 67 35 32
```

```
#3 Bohemian Rhapsody 216. 80 49 31
```

```
#4 Avengers: Infinity War 679. 85 68 17
```

```
#5 The Equalizer 2 102. 67 50 17
```

4. 5 points if you push your Rmd file with HW14 solutions along with the knitted pdf file to your MSCS264-HW14 repository in your GitHub account. So that I can check, make your repository private (good practice when doing HW), but add me (username = slanegetaz) as a collaborator under Settings > Collaborators.

```
#I added my solutions and you to my private repository: my username is PaulMartinuzzi.
```

## Factors

\*5. In the `nycflights13` data, just consider flights to O'Hare (`dest=="ORD"`), and summarize the mean arrival delay by carrier. Use the entire name of the carrier after merging carrier names into `flights`. Then use `geom_point` to plot mean arrival delay vs. carrier – first without reordering carrier names, and second after reordering carrier names by mean arrival delay.

```
library(nycflights13)
flights <- flights
airlines <- airlines
```

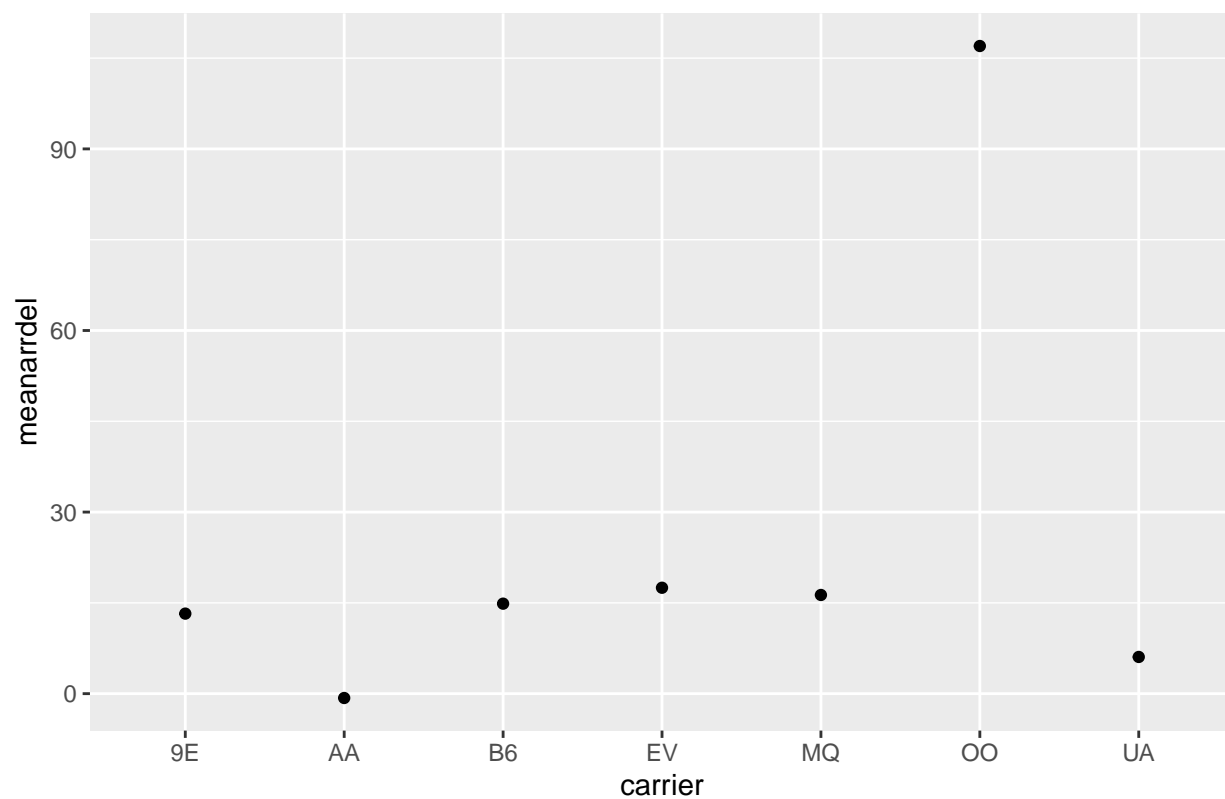
```
flights1 <- flights %>% filter(dest=="ORD", is.na(arr_delay)==FALSE) %>% group_by(carrier)%>% summarise
```

```
lefty <- left_join(flights1, airlines, by = c("carrier", "carrier"))
```

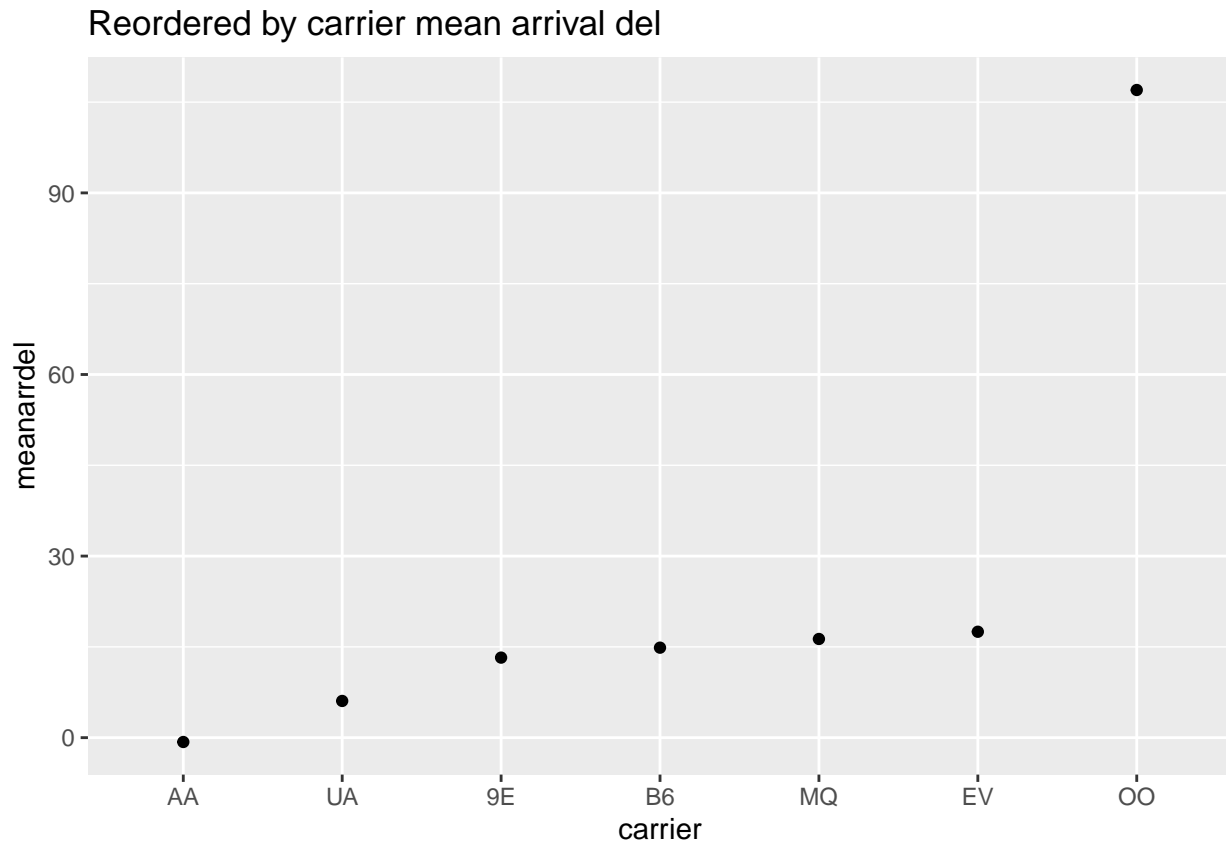
```
ggplot(lefty, aes(x=carrier, y=meanarrdel))+
  geom_point()+
  labs(title="NOT reordered by carrier mean arrival del")
```



NOT reordered by carrier mean arrival del



```
lefty2 <- lefty%>%  
  mutate(carrier = fct_reorder(carrier, meanarrdel))  
  
ggplot(lefty2, aes(x=carrier, y=meanarrdel))+  
  geom_point()+  
  labs(title="Reordered by carrier mean arrival del")
```



\*6. Again considering only flights to O'Hare, use `fct_collapse()` create a new factor variable which differentiates national carriers (American and United) from regional carriers (all other which fly to O'Hare). Then create a density plot comparing arrival delays for all flights to O'Hare from those two groups (you might want to exclude arrival delays over a certain level).

```
flightsfin <- flights %>% filter(dest=="ORD")
```

```
flightstype <- flightsfin %>%
  mutate(carriertype = fct_collapse(carrier,
    National = c("UA", "AA"),
    Regional = c("MQ", "B6", "9E", "OO", "EV")))
```

```
ggplot(flightstype, aes(x=arr_delay)) + geom_density()+
  facet_wrap(~carriertype)+
  xlim(0,300)+
  ggtitle("Arrival delay to ohare by carrier type")
```

```
## Warning: Removed 10902 rows containing non-finite values (stat_density).
```

Arrival delay to ohare by carrier type

