

Appendix D: Aggregation Error for New England Metro Areas and for Places

Figure D-1: New England Metro Areas - Summary of Tract Aggregation Errors (2000)

Metro ID (msapma99)	Metro Area Name	Total Population, 2000		Aggregation Error
		Census	NCDB	
1120	Boston, MA-NH PMSA	3,406,829	3,405,985	(0.02%)
1200	Brockton, MA PMSA	255,459	255,459	0.00%
2600	Fitchburg-Leominster, MA PMSA	142,284	143,538	0.88%
4160	Lawrence, MA-NH PMSA	396,230	396,230	0.00%
4560	Lowell, MA-NH PMSA	301,686	301,686	0.00%
4760	Manchester, NH PMSA	198,378	198,378	0.00%
5350	Nashua, NH PMSA	190,949	194,191	1.70%
5400	New Bedford, MA PMSA	175,198	175,198	0.00%
5480	New Haven-Meriden, CT PMSA	542,149	542,069	(0.01%)
6450	Portsmouth-Rochester, NH-ME PMSA	240,698	241,542	0.35%
8880	Waterbury, CT PMSA	228,984	229,064	0.03%
9240	Worcester, MA-CT PMSA	511,389	508,982	(0.47%)

Figure D-2: Metro Area Primary Cities - Summary of Tract Aggregation Errors (2000)

FIPS Place ID (uplace98)	Place Name	Total Population, 2000		Aggregation Error
		Census	NCDB	
0107000	Birmingham city, Alabama	242,820	231,376	(4.71%)
0150000	Mobile city, Alabama	198,915	194,237	(2.35%)
0455000	Phoenix city, Arizona	1,321,045	1,326,992	0.45%
0477000	Tucson city, Arizona	486,699	490,500	0.78%
0541000	Little Rock city, Arkansas	183,133	189,389	3.42%
0602000	Anaheim city, California	328,014	316,614	(3.48%)
0603526	Bakersfield city, California	247,057	246,497	(0.23%)
0627000	Fresno city, California	427,652	457,099	6.89%
0644000	Los Angeles city, California	3,694,820	3,697,335	0.07%
0653000	Oakland city, California	399,484	399,477	(0.00%)
0654652	Oxnard city, California	170,358	165,667	(2.75%)
0662000	Riverside city, California	255,166	254,071	(0.43%)
0664000	Sacramento city, California	407,018	395,660	(2.79%)
0666000	San Diego city, California	1,223,400	1,222,283	(0.09%)
0667000	San Francisco city, California	776,733	776,733	0.00%
0668000	San Jose city, California	894,943	918,777	2.66%
0669000	Santa Ana city, California	337,977	330,311	(2.27%)
0675000	Stockton city, California	243,771	244,546	0.32%
0681666	Vallejo city, California	116,760	119,397	2.26%
0820000	Denver city, Colorado	554,636	554,636	0.00%
0908000	Bridgeport city, Connecticut	139,529	139,529	0.00%
0937000	Hartford city, Connecticut	121,578	121,578	0.00%
0952000	New Haven city, Connecticut	123,626	123,626	0.00%
1077580	Wilmington city, Delaware	72,664	72,664	0.00%
1150000	Washington city, District of Columbia	572,059	572,059	0.00%
1207300	Boca Raton city, Florida	74,764	71,992	(3.71%)
1224000	Fort Lauderdale city, Florida	152,397	154,263	1.22%
1232000	Hollywood city, Florida	139,357	136,084	(2.35%)
1235000	Jacksonville city, Florida	735,617	736,746	0.15%
1245000	Miami city, Florida	362,470	362,950	0.13%
1253000	Orlando city, Florida	185,951	204,093	9.76%
1263000	St. Petersburg city, Florida	248,232	250,291	0.83%
1271000	Tampa city, Florida	303,447	296,463	(2.30%)
1276600	West Palm Beach city, Florida	82,103	79,116	(3.64%)
1304000	Atlanta city, Georgia	416,474	415,113	(0.33%)

FIPS Place ID (uplace98)	Place Name	Total Population, 2000		Aggregation Error
		Census	NCDB	
1517000	Honolulu CDP, Hawaii	371,657	371,850	0.05%
1714000	Chicago city, Illinois	2,896,016	2,895,642	(0.01%)
1827000	Gary city, Indiana	102,746	102,746	0.00%
1836003	Indianapolis city (balance), Indiana	781,870	798,890	2.18%
2079000	Wichita city, Kansas	344,284	345,075	0.23%
2148000	Louisville city, Kentucky	256,231	258,170	0.76%
2205000	Baton Rouge city, Louisiana	227,818	227,058	(0.33%)
2255000	New Orleans city, Louisiana	484,674	484,674	0.00%
2404000	Baltimore city, Maryland	651,154	651,154	0.00%
2507000	Boston city, Massachusetts	589,141	589,141	0.00%
2567000	Springfield city, Massachusetts	152,082	152,082	0.00%
2582000	Worcester city, Massachusetts	172,648	172,648	0.00%
2622000	Detroit city, Michigan	951,270	951,270	0.00%
2629000	Flint city, Michigan	124,943	124,954	0.01%
2634000	Grand Rapids city, Michigan	197,800	198,367	0.29%
2646000	Lansing city, Michigan	119,128	122,098	2.49%
2743000	Minneapolis city, Minnesota	382,618	382,618	0.00%
2758000	St. Paul city, Minnesota	287,151	287,151	0.00%
2938000	Kansas City city, Missouri	441,545	443,687	0.49%
2965000	St. Louis city, Missouri	348,189	348,189	0.00%
3137000	Omaha city, Nebraska	390,007	396,355	1.63%
3240000	Las Vegas city, Nevada	478,434	484,507	1.27%
3436000	Jersey City city, New Jersey	240,055	240,055	0.00%
3451000	Newark city, New Jersey	273,546	273,546	0.00%
3457000	Paterson city, New Jersey	149,222	149,222	0.00%
3502000	Albuquerque city, New Mexico	448,607	451,817	0.72%
3601000	Albany city, New York	95,658	95,658	0.00%
3611000	Buffalo city, New York	292,648	292,648	0.00%
3651000	New York city, New York	8,008,278	8,008,278	0.00%
3663000	Rochester city, New York	219,773	219,694	(0.04%)
3673000	Syracuse city, New York	147,306	147,284	(0.01%)
3712000	Charlotte city, North Carolina	540,828	550,837	1.85%
3728000	Greensboro city, North Carolina	223,891	215,442	(3.77%)
3755000	Raleigh city, North Carolina	276,093	277,692	0.58%
3775000	Winston-Salem city, North Carolina	185,776	189,007	1.74%
3901000	Akron city, Ohio	217,074	215,513	(0.72%)



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		Census	NCDB	
3915000	Cincinnati city, Ohio	331,285	337,654	1.92%
3916000	Cleveland city, Ohio	478,403	478,403	0.00%
3918000	Columbus city, Ohio	711,470	741,756	4.26%
3921000	Dayton city, Ohio	166,179	171,670	3.30%
3977000	Toledo city, Ohio	313,619	309,540	(1.30%)
3988000	Youngstown city, Ohio	82,026	82,026	0.00%
4055000	Oklahoma City city, Oklahoma	506,132	510,136	0.79%
4075000	Tulsa city, Oklahoma	393,049	392,299	(0.19%)
4159000	Portland city, Oregon	529,121	538,202	1.72%
4202000	Allentown city, Pennsylvania	106,632	106,632	0.00%
4232800	Harrisburg city, Pennsylvania	48,950	48,950	0.00%
4260000	Philadelphia city, Pennsylvania	1,517,550	1,517,550	0.00%
4261000	Pittsburgh city, Pennsylvania	334,563	334,563	0.00%
4269000	Scranton city, Pennsylvania	76,415	76,415	0.00%
4459000	Providence city, Rhode Island	173,618	173,618	0.00%
4513330	Charleston city, South Carolina	96,650	102,042	5.58%
4516000	Columbia city, South Carolina	116,278	114,406	(1.61%)
4530850	Greenville city, South Carolina	56,002	54,948	(1.88%)
4568290	Spartanburg city, South Carolina	39,673	43,404	9.40%
4714000	Chattanooga city, Tennessee	155,554	162,373	4.38%
4738320	Johnson City city, Tennessee	55,469	52,035	(6.19%)
4740000	Knoxville city, Tennessee	173,890	183,411	5.48%
4748000	Memphis city, Tennessee	650,100	637,369	(1.96%)
4752006	Nashville-Davidson (balance), Tennessee	545,524	541,477	(0.74%)
4805000	Austin city, Texas	656,562	663,544	1.06%
4819000	Dallas city, Texas	1,188,580	1,189,978	0.12%
4824000	El Paso city, Texas	563,662	562,921	(0.13%)
4827000	Fort Worth city, Texas	534,694	532,053	(0.49%)
4835000	Houston city, Texas	1,953,631	1,934,908	(0.96%)
4865000	San Antonio city, Texas	1,144,646	1,154,915	0.90%
4967000	Salt Lake City city, Utah	181,743	181,105	(0.35%)
5167000	Richmond city, Virginia	197,790	197,790	0.00%
5182000	Virginia Beach city, Virginia	425,257	425,257	0.00%
5363000	Seattle city, Washington	563,374	563,313	(0.01%)
5370000	Tacoma city, Washington	193,556	191,735	(0.94%)
5553000	Milwaukee city, Wisconsin	596,974	596,978	0.00%

