

City Human Capital Index: 2011 Update

*William Yu
Economist
UCLA Anderson Forecast
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In October 2012, the UCLA Anderson Forecast, in partnership with First 5 LA, published the First 5 LA/UCLA City Human Capital Index (CHCI). This index is a simple barometer for measuring and comparing the level of human capital in cities and counties across the nation. The index is calculated based on residents' education attainment and school enrollment data. The interpretation of the CHCI is straightforward. In general, one-tenth of the index indicates the average schooling years of the residents in this area. The methodology of CHCI is detailed in Appendix 1 and the index can be downloaded from the Anderson Forecast's website.

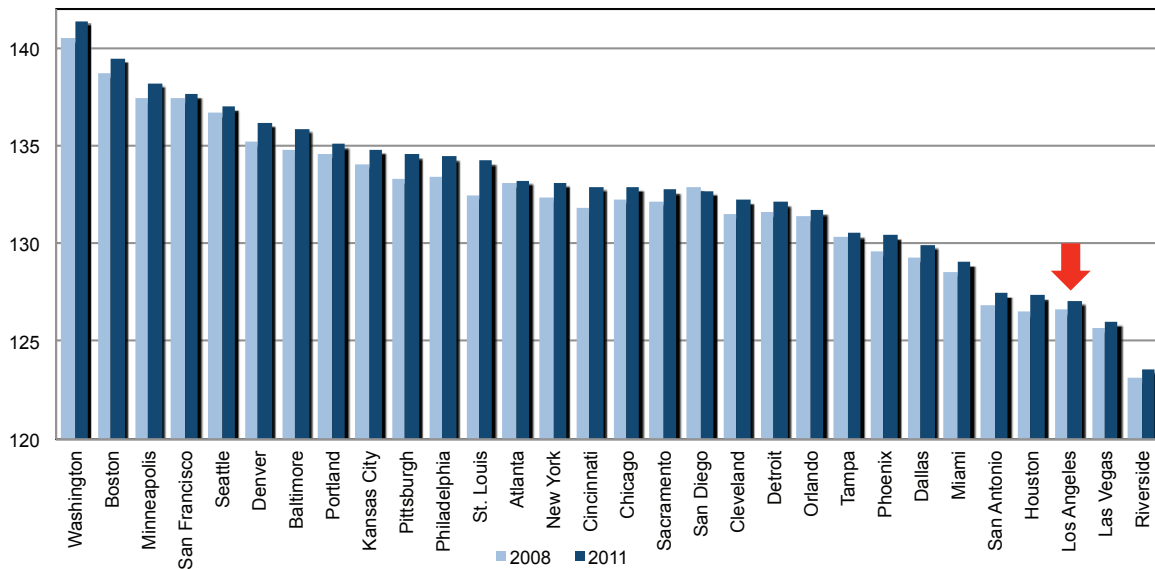
In October, the first version of CHCI used data of 5-year estimates (2006-2010) collected by the American Community Survey (ACS) from the Census Bureau. The 5-year estimates from 2006 to 2010, by and large, represent the information in the middle of the sample period, which is 2008. Although 5-year estimates provide a comprehensive survey for all metropolitan and micropolitan statistical areas in the U.S., they do not reflect the latest situation. This report will adopt the ACS's one-year estimate in 2011 to calculate the 2011 CHCI. The pros of a one-year estimate include having the latest understanding of city human capital while the cons are that the index does not cover smaller cities or counties.

The CHCI Rankings Among the 30 Largest Metro Areas

Table 1 displays the human capital ranking for the 30 largest cities in the U.S in 2011. Washington DC is ranked number one with a CHCI of 141.4 (14.1 schooling years), followed by Boston, Minneapolis, San Francisco, and Seattle. The largest metro—New York—comes in 14th with a CHCI of 133.1, followed closely by the third largest metro—Chicago—with a CHCI of 132.9, while the second largest metro—L.A. (including Los Angeles and Orange Counties)—ranks as 28th with a CHCI of 127.1 (12.7 schooling years). L.A. trails Atlanta, Sacramento, San Diego, Detroit, Phoenix, Dallas, Miami, Houston, etc. Among the 30 largest cities, only two metros lag behind L.A.: Las Vegas and Riverside/San Bernardino (Inland Empire). Figure 1 provides a graphic output for Table 1.

When comparing 2011's CHCI to the average (approximate 2008) CHCI based on ACS's 5-year estimate from 2006 to 2010, There is good news and bad news for Los Angeles. The good news is that L.A.'s CHCI has increased by 0.5 points over this time span (from 126.6 in 2008 to 127.1 in 2011) as shown in Table 1. Actually, we see across-the-board improvement of human capital in the 30 largest cities. San Diego is the only city with a declined CHCI

Figure 1 First 5 LA/UCLA City Human Capital Index for the 30 Largest Cities in the U.S.



Source: Author's calculation based on the American Community Survey of 2011, and 2006-2010

(-0.2). The bad news for L.A. is that its progress is less than Houston's, so Houston's CHCI ranking surpasses L.A. Los Angeles ranked 27th in 2008 but ranks 28th in 2011.

The CHCI Rankings Among the 100 Largest Metro Areas

If we rank the CHCI of the 100 largest metro areas (for those cities with the population above 0.5 million), L.A. is the 90th, trailed by some Californian inland cities, i.e. Stockton, Modesto, Fresno, and Bakersfield as shown in Table 2. In this new top-10 list, compared to 2008, Madison becomes the most educated city, surpassing Washington DC. San Jose's (Silicon Valley) ranking rises from number 7 to number 4 with its CHCI increasing from 137.3 in 2008 to 138.5 in 2011. Appendix 2 presents the full list of the 100 largest cities ranking with their CHCI, and Appendix 3 displays a full list of the 200 largest cities. Combining Tables 1 and 2, we can conclude

that the L.A. metro is not competitive in its human capital level.

The CHCI Rankings at the County Level

Now, let's take a look at the human capital index at the county level as shown in Table 3. That way, we can separate Los Angeles County from Orange County. Table 3 presents the 30 largest counties in the country. The highest-ranking county is Middlesex County in Massachusetts with a CHCI of 143.4 followed by New York County, NY with a CHCI of 143. Santa Clara County, home of Silicon Valley, ranks number 5 with a CHCI of 139. L.A. County, the largest county in the U.S., ranks 25th among 30 with a CHCI of 125.4. It was ranked 24th in 2008. L.A. County also trails other coastal California counties—#6: Alameda County (CHCI: 135.9), #8: Orange County (CHCI: 135.9), #9: San Diego County (CHCI: 132.7), and #16: Sacramento County (CHCI: 130.5). Appendix 4 summarizes the largest 40 Counties with their CHCI in California.

Conclusions

In 2011, L.A. County's CHCI was 125.4, meaning that its residents' human capital level was about 12.5 years on average. L.A.'s human capital level trails other major cities in the nation and California. L.A.'s CHCI ranks 28th among the 30 largest metro areas in the nation; it is the 90th among the 100 largest metro areas. In California, L.A. is also lagging behind other coastal areas, such as San Francisco, Silicon Valley, Orange County, and San Diego.

As we mentioned previously, higher human capital is correlated with better income and lower unemployment in a city. What's more, a boosted human capital will stimulate higher income because of the enhanced productivity. The rule of thumb is that each additional schooling year for an individual will

increase one's wage by 10%. Therefore, if L.A.'s CHCI could improve by 10 points (gaining one year of education attainment) to the proximate level of San Francisco's, L.A.'s income could be predicted to increase by \$2,700. This translates directly to an increase of \$27 billion for the whole of L.A. County's personal income! Over the past few years, L.A. has shown some progress with CHCI, improving by 0.5 points from 126.6 to 127.1. It is heading in the right direction, but we need to speed up the pace.

To further enhance L.A.'s competitiveness and rejuvenate its vibrancy, we suggest that it is imperative for L.A. to improve its human capital. We recommend that high-quality early childhood education investment would be the most efficient and effective way to achieve this goal.

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Table 1 First 5 LA/UCLA City Human Capital Index for the 30 Largest Cities in the U.S.

2011 Rank	30 Largest Metro Areas	2011 CHCI	2011 Population	2008 Rank	2008 CHCI	CHCI Change
1	Washington-Arlington-Alexandria, DC-VA-MD-WV Metro Area	141.4	5,703,948	1	140.5	0.9
2	Boston-Cambridge-Quincy, MA-NH Metro Area	139.5	4,591,112	2	138.7	0.8
3	Minneapolis-St. Paul-Bloomington MN-WI Metro Area	138.2	3,318,486	4	137.4	0.8
4	San Francisco-Oakland-Fremont, CA Metro Area	137.6	4,391,037	3	137.4	0.2
5	Seattle-Tacoma-Bellevue, WA Metro Area	137	3,500,026	5	136.7	0.3
6	Denver-Aurora-Broomfield, CO Metro Area	136.2	2,600,594	6	135.2	1
7	Baltimore-Towson, MD Metro Area	135.9	2,729,110	7	134.8	1.1
8	Portland-Vancouver-Hillsboro, OR-WA Metro Area	135.1	2,262,702	8	134.6	0.5
9	Kansas City, MO-KS Metro Area	134.8	2,049,773	9	134.1	0.7
10	Pittsburgh, PA Metro Area	134.6	2,359,746	11	133.3	1.3
11	Philadelphia-Camden-Wilmington PA-NJ-DE-MD Metro Area	134.4	5,992,414	10	133.4	1
12	St. Louis, MO-IL Metro Area	134.2	2,813,680	14	132.5	1.7
13	Atlanta-Sandy Springs-Marietta, GA Metro Area	133.2	5,365,726	12	133.1	0.1
14	New York-Northern New Jersey-Long Island, NY-NJ-PA Metro Area	133.1	19,015,900	15	132.4	0.7
15	Cincinnati-Middletown, OH-KY-IN Metro Area	132.9	2,137,735	18	131.8	1.1
16	Chicago-Joliet-Naperville, IL-IN-WI Metro Area	132.9	9,504,024	16	132.3	0.6
17	Sacramento--Arden-Arcade--Roseville, CA Metro Area	132.8	2,176,235	17	132.2	0.6
18	San Diego-Carlsbad-San Marcos, CA Metro Area	132.7	3,140,069	13	132.9	-0.2
19	Cleveland-Elyria-Mentor, OH Metro Area	132.3	2,068,283	20	131.5	0.8
20	Detroit-Warren-Livonia, MI Metro Area	132.1	4,285,832	19	131.6	0.5
21	Orlando-Kissimmee-Sanford, FL Metro Area	131.7	2,171,360	21	131.4	0.3
22	Tampa-St. Petersburg-Clearwater FL Metro Area	130.5	2,824,724	22	130.3	0.2
23	Phoenix-Mesa-Glendale, AZ Metro Area	130.4	4,263,236	23	129.6	0.8
24	Dallas-Fort Worth-Arlington, TX Metro Area	130	6,526,566	24	129.3	0.7
25	Miami-Fort Lauderdale-Pompano Beach, FL Metro Area	129.1	5,670,125	25	128.6	0.5
26	San Antonio-New Braunfels, TX Metro Area	127.5	2,196,132	26	126.8	0.7
27	Houston-Sugar Land-Baytown, TX Metro Area	127.4	6,086,895	28	126.5	0.9
28	Los Angeles-Long Beach-Santa Ana CA Metro Area	127.1	12,944,801	27	126.6	0.5
29	Las Vegas-Paradise, NV Metro Area	126	1,969,975	29	125.7	0.3
30	Riverside-San Bernardino-Ontario CA Metro Area	123.6	4,304,997	30	123.1	0.5

Source: Author's calculation based on the American Community Survey of 2011, and 2006-2010.

Table 2 First 5 LA/UCLA City Human Capital Index Ranking for the 100 Largest Cities in the U.S.

Rank	100 Largest Metro Areas	2011 CHCI	Population
1	Madison, WI Metro Area	141.5	576,467
2	Washington-Arlington-Alexandria, DC-VA-MD-WV Metro Area	141.4	5,703,948
3	Boston-Cambridge-Quincy, MA-NH Metro Area	139.5	4,591,112
4	San Jose-Sunnyvale-Santa Clara, CA Metro Area	138.5	1,865,450
5	Minneapolis-St. Paul-Bloomington, MN-WI Metro Area	138.2	3,318,486
6	Bridgeport-Stamford-Norwalk, CT Metro Area	138.1	925,899
7	Colorado Springs, CO Metro Area	138	660,276
8	Albany-Schenectady-Troy, NY Metro Area	137.7	871,478
9	San Francisco-Oakland-Fremont, CA Metro Area	137.6	4,391,037
10	Provo-Orem, UT Metro Area	137.2	541,710
90	Los Angeles-Long Beach-Santa Ana, CA Metro Area	127.1	12,944,801
91	Las Vegas-Paradise, NV Metro Area	126	1,969,975
92	Lancaster, PA Metro Area	125.9	523,594
93	Riverside-San Bernardino-Ontario, CA Metro Area	123.6	4,304,997
94	Lakeland-Winter Haven, FL Metro Area	123.4	609,492
95	Stockton, CA Metro Area	121.7	696,214
96	Modesto, CA Metro Area	120.2	518,522
97	El Paso, TX Metro Area	119.9	820,790
98	Fresno, CA Metro Area	118.5	942,904
99	Bakersfield-Delano, CA Metro Area	118	851,710
100	McAllen-Edinburg-Mission, TX Metro Area	109.6	797,810

Source: Author's calculation based on the one-year American Community Survey of 2011

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Table 3 First 5 LA/UCLA City Human Capital Index Ranking for the 30 Largest Counties

Rank	30 largest Counties	2011 CHCI	Population
1	Middlesex County, Massachusetts	143.4	1518171
2	New York County, New York	143	1601948
3	King County, Washington	141	1969722
4	Nassau County, New York	139.1	1344436
5	Santa Clara County, California	139	1809378
6	Alameda County, California	135.9	1529875
7	Suffolk County, New York	135.1	1498816
8	Orange County, California	133	3055745
9	San Diego County, California	132.7	3140069
10	Palm Beach County, Florida	132.6	1335187
11	Broward County, Florida	132.4	1780172
12	Cuyahoga County, Ohio	132.4	1270294
13	Cook County, Illinois	131.9	5217080
14	Hillsborough County, Florida	131	1267775
15	Maricopa County, Arizona	130.8	3880244
16	Sacramento County, California	130.5	1436105
17	Tarrant County, Texas	129.1	1849815
18	Queens County, New York	128.5	2247848
19	Bexar County, Texas	127.7	1756153
20	Wayne County, Michigan	127.3	1802096
21	Philadelphia County, Pennsylvania	127.3	1536471
22	Kings County, New York	127.2	2532645
23	Clark County, Nevada	126	1969975
24	Harris County, Texas	125.6	4180894
25	Los Angeles County, California	125.4	9,889,056
26	Miami-Dade County, Florida	125	2,554,766
27	Dallas County, Texas	125	2,416,014
28	Riverside County, California	124.4	2,239,620
29	San Bernardino County, California	122.9	2,065,377
30	Bronx County, New York	117.3	1,392,002

Source: Author's calculation based on the one-year American Community Survey of 2011

Appendix 1 The Methodology of First 5 LA/UCLA Anderson Forecast City Human Capital Index

We compute the CHC index based on three parts with corresponding population percentages as follows. We do not consider the migration factor of human capital because there is no available data.

1. For those residents who are 25 years of age and above, we calculate the CHC by assigning the schooling year with the following categories:

Category 1: Less than 9th grade: we assign 5 schooling years (50 CHC points) for this percentage of residents.

Category 2: 9th to 12th grade: we assign 10 schooling years.

Category 3: High school graduate: we assign 12 schooling years.

Category 4: Some college, no degree: we assign 13 schooling years.

Category 5: Associate's degree: we assign 14 schooling years.

Category 6: Bachelor's degree: we assign 16 schooling years.

Category 7: Graduate or professional degree: we assign 18 schooling years.

2. For those residents who are between 18 and 24 years of age, we estimate the CHC by assigning the schooling year with the following categories:

Category 1: less than high school graduate: we assign X schooling years, in which X is estimated by the CHC average of Categories 1 and 2 from Part (1) in the same region.

Category 2: High school graduate: we assign 12 schooling years.

Category 3: Some college or associate's degree: we assign Y schooling years, in which Y is estimated by the weighting average of Categories 4, 5, 6, and 7 from Part (1) in the same region.

Category 4: Bachelor's degree or higher: we assign 16 schooling years.

3. For those residents who are between 5 and 17 years of age, we forecast their future potential CHC based on the CHC average of the CHC of residents from Part (1) in the same region with the following weighting adjustment of their current school enrollment rate:

Category 1: 5 to 9 years old: if the area's enrollment rate is, say 94%, 94% will be assigned CHC calculated from Part (1) and 6% of this area's residents will be assigned as 2 schooling years.

Category 2: 10 to 14 years old: if the area's enrollment rate is Z, Z will be assigned CHC calculated from Part (1) and 1-Z of this area's residents will be assigned as 7 schooling years.

Category 3: 15 to 17 years old: if the area's enrollment rate is Z, 1-Z of this area's residents will be assigned as 11 schooling years.

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Rank	100 Largest Metro Areas	2011 CHCI	Population
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2	Washington-Arlington-Alexandria, DC-VA-MD-WV Metro Area	141.4	5,703,948
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4	San Jose-Sunnyvale-Santa Clara, CA Metro Area	138.5	1,865,450
5	Minneapolis-St. Paul-Bloomington, MN-WI Metro Area	138.2	3,318,486
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7	Colorado Springs, CO Metro Area	138	660,276
8	Albany-Schenectady-Troy, NY Metro Area	137.7	871,478
9	San Francisco-Oakland-Fremont, CA Metro Area	137.6	4,391,037
10	Provo-Orem, UT Metro Area	137.2	541,710
11	Raleigh-Cary, NC Metro Area	137.1	1,163,515
12	Seattle-Tacoma-Bellevue, WA Metro Area	137	3,500,026
13	Austin-Round Rock-San Marcos, TX Metro Area	136.2	1,783,519
14	Denver-Aurora-Broomfield, CO Metro Area	136.2	2,600,594
15	Des Moines-West Des Moines, IA Metro Area	136.1	578,665
16	Hartford-West Hartford-East Hartford, CT Metro Area	135.9	1,213,255
17	Baltimore-Towson, MD Metro Area	135.9	2,729,110
18	Rochester, NY Metro Area	135.1	1,055,278
19	Portland-Vancouver-Hillsboro, OR-WA Metro Area	135.1	2,262,702
20	Kansas City, MO-KS Metro Area	134.8	2,049,773
21	Columbus, OH Metro Area	134.7	1,858,464
22	Omaha-Council Bluffs, NE-IA Metro Area	134.6	875,074
23	Pittsburgh, PA Metro Area	134.6	2,359,746
24	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD Metro Area	134.4	5,992,414
25	Worcester, MA Metro Area	134.4	801,227
26	Buffalo-Niagara Falls, NY Metro Area	134.3	1,134,039
27	St. Louis, MO-IL Metro Area	134.2	2,813,680
28	Syracuse, NY Metro Area	134.2	662,553
29	New Haven-Milford, CT Metro Area	134	861,113
30	Virginia Beach-Norfolk-Newport News, VA-NC Metro Area	133.9	1,677,984
31	Ogden-Clearfield, UT Metro Area	133.8	555,437
32	Honolulu, HI Metro Area	133.8	963,607
33	Milwaukee-Waukesha-West Allis, WI Metro Area	133.7	1,562,216

Source: Author's calculation based on the one-year American Community Survey of 2011

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Rank	100 Largest Metro Areas	2011 CHCI	Population
34	Salt Lake City, UT Metro Area	133.7	1,145,905
35	Akron, OH Metro Area	133.6	701,456
36	Charlotte-Gastonia-Rock Hill, NC-SC Metro Area	133.4	1,795,472
37	Atlanta-Sandy Springs-Marietta, GA Metro Area	133.2	5,365,726
38	Poughkeepsie-Newburgh-Middletown, NY Metro Area	133.2	672,871
39	New York-Northern New Jersey-Long Island, NY-NJ-PA Metro Area	133.1	19,015,900
40	Cincinnati-Middletown, OH-KY-IN Metro Area	132.9	2,137,735
41	Chicago-Joliet-Naperville, IL-IN-WI Metro Area	132.9	9,504,024
42	Albuquerque, NM Metro Area	132.9	899,149
43	Sacramento--Arden-Arcade--Roseville, CA Metro Area	132.8	2,176,235
44	Indianapolis-Carmel, IN Metro Area	132.7	1,777,684
45	San Diego-Carlsbad-San Marcos, CA Metro Area	132.7	3,140,069
46	Springfield, MA Metro Area	132.6	693,204
47	Charleston-North Charleston-Summerville, SC Metro Area	132.6	682,121
48	Grand Rapids-Wyoming, MI Metro Area	132.6	779,604
49	Nashville-Davidson--Murfreesboro--Franklin, TN Metro Area	132.5	1,620,403
50	Tucson, AZ Metro Area	132.5	989,569
51	Richmond, VA Metro Area	132.4	1,270,541
52	Palm Bay-Melbourne-Titusville, FL Metro Area	132.4	543,566
53	Toledo, OH Metro Area	132.3	650,266
54	Harrisburg-Carlisle, PA Metro Area	132.3	552,911
55	Cleveland-Elyria-Mentor, OH Metro Area	132.3	2,068,283
56	Detroit-Warren-Livonia, MI Metro Area	132.1	4,285,832
57	Columbia, SC Metro Area	132	775,897
58	Jackson, MS Metro Area	132	545,394
59	Jacksonville, FL Metro Area	131.9	1,358,593
60	North Port-Bradenton-Sarasota, FL Metro Area	131.9	709,355
61	Boise City-Nampa, ID Metro Area	131.9	627,281
62	Dayton, OH Metro Area	131.9	845,388
63	Little Rock-North Little Rock-Conway, AR Metro Area	131.8	708,084
64	Orlando-Kissimmee-Sanford, FL Metro Area	131.7	2,171,360
65	Wichita, KS Metro Area	131.6	625,039
66	Knoxville, TN Metro Area	131.6	704,500

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Rank	100 Largest Metro Areas	2011 CHCI	Population
67	Oklahoma City, OK Metro Area	131.2	1,278,053
68	Louisville/Jefferson County, KY-IN Metro Area	130.8	1,296,820
69	Tulsa, OK Metro Area	130.8	947,382
70	Birmingham-Hoover, AL Metro Area	130.7	1,132,264
71	Allentown-Bethlehem-Easton, PA-NJ Metro Area	130.6	824,916
72	Tampa-St. Petersburg-Clearwater, FL Metro Area	130.5	2,824,724
73	Providence-New Bedford-Fall River, RI-MA Metro Area	130.5	1,600,224
74	Greenville-Mauldin-Easley, SC Metro Area	130.5	647,401
75	Phoenix-Mesa-Glendale, AZ Metro Area	130.4	4,263,236
76	Oxnard-Thousand Oaks-Ventura, CA Metro Area	130.3	831,771
77	Baton Rouge, LA Metro Area	130	808,242
78	Memphis, TN-MS-AR Metro Area	130	1,324,108
79	Dallas-Fort Worth-Arlington, TX Metro Area	130	6,526,566
80	Scranton--Wilkes-Barre, PA Metro Area	129.8	563,184
81	Greensboro-High Point, NC Metro Area	129.8	730,966
82	Cape Coral-Fort Myers, FL Metro Area	129.6	631,330
83	New Orleans-Metairie-Kenner, LA Metro Area	129.3	1,191,089
84	Miami-Fort Lauderdale-Pompano Beach, FL Metro Area	129.1	5,670,125
85	Augusta-Richmond County, GA-SC Metro Area	128.7	560,467
86	Chattanooga, TN-GA Metro Area	128.2	529,123
87	Youngstown-Warren-Boardman, OH-PA Metro Area	128.1	562,739
88	San Antonio-New Braunfels, TX Metro Area	127.5	2,196,132
89	Houston-Sugar Land-Baytown, TX Metro Area	127.4	6,086,895
90	Los Angeles-Long Beach-Santa Ana, CA Metro Area	127.1	12,944,801
91	Las Vegas-Paradise, NV Metro Area	126	1,969,975
92	Lancaster, PA Metro Area	125.9	523,594
93	Riverside-San Bernardino-Ontario, CA Metro Area	123.6	4,304,997
94	Lakeland-Winter Haven, FL Metro Area	123.4	609,492
95	Stockton, CA Metro Area	121.7	696,214
96	Modesto, CA Metro Area	120.2	518,522
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	2011 CHCI	Population
Akron, OH Metro Area	133.6	701,456
Albany-Schenectady-Troy, NY Metro Area	137.7	871,478
Albuquerque, NM Metro Area	132.9	899,149
Allentown-Bethlehem-Easton, PA-NJ Metro Area	130.6	824,916
Amarillo, TX Metro Area	128.1	254,635
Anchorage, AK Metro Area	133.3	387,516
Ann Arbor, MI Metro Area	146.3	347,962
Appleton, WI Metro Area	133	227,403
Asheville, NC Metro Area	132.8	428,906
Atlanta-Sandy Springs-Marietta, GA Metro Area	133.2	5,365,726
Atlantic City-Hammonton, NJ Metro Area	127.8	274,338
Augusta-Richmond County, GA-SC Metro Area	128.7	560,467
Austin-Round Rock-San Marcos, TX Metro Area	136.2	1,783,519
Bakersfield-Delano, CA Metro Area	118	851,710
Baltimore-Towson, MD Metro Area	135.9	2,729,110
Barnstable Town, MA Metro Area	139.1	215,769
Baton Rouge, LA Metro Area	130	808,242
Beaumont-Port Arthur, TX Metro Area	124	390,535
Binghamton, NY Metro Area	133.9	250,074
Birmingham-Hoover, AL Metro Area	130.7	1,132,264
Boise City-Nampa, ID Metro Area	131.9	627,281
Boston-Cambridge-Quincy, MA-NH Metro Area	139.5	4,591,112
Boulder, CO Metro Area	147.8	299,378
Bremerton-Silverdale, WA Metro Area	135.8	254,633
Bridgeport-Stamford-Norwalk, CT Metro Area	138.1	925,899
Brownsville-Harlingen, TX Metro Area	111.3	414,123
Buffalo-Niagara Falls, NY Metro Area	134.3	1,134,039
Burlington-South Burlington, VT Metro Area	140.7	213,624
Canton-Massillon, OH Metro Area	129	405,693
Cape Coral-Fort Myers, FL Metro Area	129.6	631,330
Cedar Rapids, IA Metro Area	135.1	260,575

Source: Author's calculation based on the one-year American Community Survey of 2011

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	2011 CHCI	Population
Champaign-Urbana, IL Metro Area	140.1	232,050
Charleston, WV Metro Area	127.1	304,270
Charleston-North Charleston-Summerville, SC Metro Area	132.6	682,121
Charlotte-Gastonia-Rock Hill, NC-SC Metro Area	133.4	1,795,472
Chattanooga, TN-GA Metro Area	128.2	529,123
Chicago-Joliet-Naperville, IL-IN-WI Metro Area	132.9	9,504,024
Chico, CA Metro Area	131.3	220,266
Cincinnati-Middletown, OH-KY-IN Metro Area	132.9	2,137,735
Clarksville, TN-KY Metro Area	127.8	276,777
Cleveland-Elyria-Mentor, OH Metro Area	132.3	2,068,283
College Station-Bryan, TX Metro Area	135.9	227,997
Colorado Springs, CO Metro Area	138	660,276
Columbia, SC Metro Area	132	775,897
Columbus, GA-AL Metro Area	128.9	297,181
Columbus, OH Metro Area	134.7	1,858,464
Corpus Christi, TX Metro Area	124.5	431,381
Dallas-Fort Worth-Arlington, TX Metro Area	130	6,526,566
Davenport-Moline-Rock Island, IA-IL Metro Area	130.8	379,592
Dayton, OH Metro Area	131.9	845,388
Deltona-Daytona Beach-Ormond Beach, FL Metro Area	128.4	494,804
Denver-Aurora-Broomfield, CO Metro Area	136.2	2,600,594
Des Moines-West Des Moines, IA Metro Area	136.1	578,665
Detroit-Warren-Livonia, MI Metro Area	132.1	4,285,832
Duluth, MN-WI Metro Area	132.8	279,761
Durham-Chapel Hill, NC Metro Area	138	512,979
El Paso, TX Metro Area	119.9	820,790
Erie, PA Metro Area	131.1	280,985
Eugene-Springfield, OR Metro Area	134.3	353,416
Evansville, IN-KY Metro Area	128.3	360,304
Fayetteville, NC Metro Area	129.6	374,157
Fayetteville-Springdale-Rogers, AR-MO Metro Area	128.1	475,085
Flint, MI Metro Area	129	422,080

Source: Author's calculation based on the one-year American Community Survey of 2011

Appendix 3 First 5 LA/UCLA Anderson Forecast 2011 City Human Capital Index Ranking for the 200 Largest Cities in the U.S.

	2011 CHCI	Population
Fort Collins-Loveland, CO Metro Area	141.9	305,525
Fort Smith, AR-OK Metro Area	123.5	299,379
Fort Wayne, IN Metro Area	131.5	418,148
Fresno, CA Metro Area	118.5	942,904
Gainesville, FL Metro Area	138.2	265,246
Grand Rapids-Wyoming, MI Metro Area	132.6	779,604
Greeley, CO Metro Area	129.2	258,638
Green Bay, WI Metro Area	130.9	309,469
Greensboro-High Point, NC Metro Area	129.8	730,966
Greenville-Mauldin-Easley, SC Metro Area	130.5	647,401
Gulfport-Biloxi, MS Metro Area	127.9	250,611
Hagerstown-Martinsburg, MD-WV Metro Area	126.8	270,943
Harrisburg-Carlisle, PA Metro Area	132.3	552,911
Hartford-West Hartford-East Hartford, CT Metro Area	135.9	1,213,255
Hickory-Lenoir-Morganton, NC Metro Area	123.6	364,567
Holland-Grand Haven, MI Metro Area	133.9	266,300
Honolulu, HI Metro Area	133.8	963,607
Houston-Sugar Land-Baytown, TX Metro Area	127.4	6,086,895
Huntington-Ashland, WV-KY-OH Metro Area	126.3	287,599
Huntsville, AL Metro Area	134.2	425,480
Indianapolis-Carmel, IN Metro Area	132.7	1,777,684
Jackson, MS Metro Area	132	545,394
Jacksonville, FL Metro Area	131.9	1,358,593
Kalamazoo-Portage, MI Metro Area	134.4	328,205
Kansas City, MO-KS Metro Area	134.8	2,049,773
Kennewick-Pasco-Richland, WA Metro Area	126.5	264,133
Killeen-Temple-Fort Hood, TX Metro Area	127.3	411,595
Kingsport-Bristol-Bristol, TN-VA Metro Area	124.1	312,908
Knoxville, TN Metro Area	131.6	704,500
Lafayette, LA Metro Area	127	277,307
Lakeland-Winter Haven, FL Metro Area	123.4	609,492
Lancaster, PA Metro Area	125.9	523,594

Source: Author's calculation based on the one-year American Community Survey of 2011

City Human Capital Index: 2011 Update

Appendix 3 First 5 LA/UCLA Anderson Forecast 2011 City Human Capital Index Ranking for the 200 Largest Cities in the U.S.

	2011 CHCI	Population
Lansing-East Lansing, MI Metro Area	136.1	465,138
Laredo, TX Metro Area	112.4	256,496
Las Cruces, NM Metro Area	122.2	213,598
Las Vegas-Paradise, NV Metro Area	126	1,969,975
Lexington-Fayette, KY Metro Area	134.8	479,244
Lincoln, NE Metro Area	138.7	307,165
Little Rock-North Little Rock-Conway, AR Metro Area	131.8	708,084
Longview, TX Metro Area	124.9	216,666
Los Angeles-Long Beach-Santa Ana, CA Metro Area	127.1	12,944,801
Louisville/Jefferson County, KY-IN Metro Area	130.8	1,296,820
Lubbock, TX Metro Area	129.4	290,842
Lynchburg, VA Metro Area	130.2	253,713
Macon, GA Metro Area	124	227,488
Madison, WI Metro Area	141.5	576,467
Manchester-Nashua, NH Metro Area	135.6	401,696
McAllen-Edinburg-Mission, TX Metro Area	109.6	797,810
Memphis, TN-MS-AR Metro Area	130	1,324,108
Merced, CA Metro Area	111.8	259,898
Miami-Fort Lauderdale-Pompano Beach, FL Metro Area	129.1	5,670,125
Milwaukee-Waukesha-West Allis, WI Metro Area	133.7	1,562,216
Minneapolis-St. Paul-Bloomington, MN-WI Metro Area	138.2	3,318,486
Mobile, AL Metro Area	127.5	412,577
Modesto, CA Metro Area	120.2	518,522
Montgomery, AL Metro Area	129.9	378,582
Myrtle Beach-North Myrtle Beach-Conway, SC Metro Area	129.4	276,340
Naples-Marco Island, FL Metro Area	130.5	328,134
Nashville-Davidson--Murfreesboro--Franklin, TN Metro Area	132.5	1,620,403
New Haven-Milford, CT Metro Area	134	861,113
New Orleans-Metairie-Kenner, LA Metro Area	129.3	1,191,089
New York-Northern New Jersey-Long Island, NY-NJ-PA Metro Area	133.1	19,015,900
North Port-Bradenton-Sarasota, FL Metro Area	131.9	709,355
Norwich-New London, CT Metro Area	135.8	273,502

Source: Author's calculation based on the one-year American Community Survey of 2011

Appendix 3 First 5 LA/UCLA Anderson Forecast 2011 City Human Capital Index Ranking for the 200 Largest Cities in the U.S.

	2011 CHCI	Population
Ocala, FL Metro Area	125.2	332,529
Ogden-Clearfield, UT Metro Area	133.8	555,437
Oklahoma City, OK Metro Area	131.2	1,278,053
Olympia, WA Metro Area	138.1	256,591
Omaha-Council Bluffs, NE-IA Metro Area	134.6	875,074
Orlando-Kissimmee-Sanford, FL Metro Area	131.7	2,171,360
Oxnard-Thousand Oaks-Ventura, CA Metro Area	130.3	831,771
Palm Bay-Melbourne-Titusville, FL Metro Area	132.4	543,566
Pensacola-Ferry Pass-Brent, FL Metro Area	131.3	453,218
Peoria, IL Metro Area	132.9	380,961
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD Metro Area	134.4	5,992,414
Phoenix-Mesa-Glendale, AZ Metro Area	130.4	4,263,236
Pittsburgh, PA Metro Area	134.6	2,359,746
Port St. Lucie, FL Metro Area	129.1	427,874
Portland-South Portland-Biddeford, ME Metro Area	138	515,807
Portland-Vancouver-Hillsboro, OR-WA Metro Area	135.1	2,262,702
Poughkeepsie-Newburgh-Middletown, NY Metro Area	133.2	672,871
Providence-New Bedford-Fall River, RI-MA Metro Area	130.5	1,600,224
Provo-Orem, UT Metro Area	137.2	541,710
Raleigh-Cary, NC Metro Area	137.1	1,163,515
Reading, PA Metro Area	127.6	412,778
Reno-Sparks, NV Metro Area	130.9	429,767
Richmond, VA Metro Area	132.4	1,270,541
Riverside-San Bernardino-Ontario, CA Metro Area	123.6	4,304,997
Roanoke, VA Metro Area	130.7	307,464
Rochester, NY Metro Area	135.1	1,055,278
Rockford, IL Metro Area	127	348,360
Sacramento--Arden-Arcade--Roseville, CA Metro Area	132.8	2,176,235
Salem, OR Metro Area	127	394,865
Salinas, CA Metro Area	118.1	421,898
Salt Lake City, UT Metro Area	133.7	1,145,905
San Antonio-New Braunfels, TX Metro Area	127.5	2,196,132

Source: Author's calculation based on the one-year American Community Survey of 2011

City Human Capital Index: 2011 Update

Appendix 3 First 5 LA/UCLA Anderson Forecast 2011 City Human Capital Index Ranking for the 200 Largest Cities in the U.S.

	2011 CHCI	Population
San Diego-Carlsbad-San Marcos, CA Metro Area	132.7	3,140,069
San Francisco-Oakland-Fremont, CA Metro Area	137.6	4,391,037
San Jose-Sunnyvale-Santa Clara, CA Metro Area	138.5	1,865,450
San Luis Obispo-Paso Robles, CA Metro Area	134.7	271,969
Santa Barbara-Santa Maria-Goleta, CA Metro Area	129.1	426,878
Santa Cruz-Watsonville, CA Metro Area	134	264,298
Santa Rosa-Petaluma, CA Metro Area	132.6	488,116
Savannah, GA Metro Area	131.4	355,576
Scranton--Wilkes-Barre, PA Metro Area	129.8	563,184
Seattle-Tacoma-Bellevue, WA Metro Area	137	3,500,026
Shreveport-Bossier City, LA Metro Area	129.6	403,595
Sioux Falls, SD Metro Area	133.5	232,347
South Bend-Mishawaka, IN-MI Metro Area	131.2	318,688
Spartanburg, SC Metro Area	126.9	286,868
Spokane, WA Metro Area	135.6	473,761
Springfield, MA Metro Area	132.6	693,204

Source: Author's calculation based on the one-year American Community Survey of 2011

Appendix 4 First 5 LA/UCLA Anderson Forecast 2011 City Human Capital Index Ranking for the 200 Largest Cities in the U.S.

	California County Ranking	2011 CHCI	Population
1	Marin County, California	144.4	255,031
2	San Francisco County, California	140.4	812,826
3	Santa Clara County, California	139	1,809,378
4	Placer County, California	138.9	357,138
5	Nevada County, California	138.1	98,612
6	San Mateo County, California	137.8	727,209
7	Contra Costa County, California	136.1	1,066,096
8	Alameda County, California	135.9	1,529,875
9	Yolo County, California	135.7	202,054
10	San Luis Obispo County, California	134.9	271,969
11	El Dorado County, California	134.3	180,938
12	Santa Cruz County, California	134.3	264,298
13	Orange County, California	133	3,055,745
14	Humboldt County, California	132.9	134,761
15	Sonoma County, California	132.7	488,116
16	San Diego County, California	132.7	3,140,069
17	Butte County, California	131.5	220,266
18	Napa County, California	130.8	138,088
19	Sacramento County, California	130.5	1,436,105
20	Ventura County, California	130.3	831,771
21	Solano County, California	129.9	416,471
22	Shasta County, California	129.6	177,774
23	Santa Barbara County, California	129.6	426,878
24	Mendocino County, California	127.5	87,553
25	Lake County, California	127.1	64,323
26	Los Angeles County, California	125.4	9,889,056
27	Riverside County, California	124.4	2,239,620
28	San Bernardino County, California	122.9	2,065,377
29	Sutter County, California	122	94,919
30	San Joaquin County, California	121.7	696,214
31	Yuba County, California	121	72,578
32	Stanislaus County, California	120.4	518,522
33	Fresno County, California	118.6	942,904
34	Kern County, California	118.1	851,710
35	Kings County, California	117.6	153,765
36	Monterey County, California	117.1	421,898
37	Tulare County, California	113.6	449,253
38	Madera County, California	113.2	152,925
39	Imperial County, California	113.1	177,057
40	Merced County, California	112.2	259,898

Source: Author's calculation based on the one-year American Community Survey of 2011