

Constructing the Index of Concentration at the Extremes for Chicago

Fernando De Maio and Tamalika Sengupta

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For information on the Center for Community Health Equity and our *Working Papers Series*, Contact:

Fernando De Maio, PhD
DePaul University
990 W. Fullerton Ave., Suite 1100
Chicago, IL
60614

fdemaio@depaul.edu

Tel: 773-325-4431

Raj C. Shah, MD
Rush University Medical Center
600 South Paulina, Suite 1022
Chicago, IL
60612

Raj_C_Shah@rush.edu

Tel: 312-563-2902

Constructing the Index of Concentration at the Extremes for Chicago

Fernando De Maio, PhD ^{1,2}
fdemaio@depaul.edu

Tamalika Sengupta, BA ²
tamalika.sengupta11@gmail.com

¹ Center for Community Health Equity

² Department of Sociology, DePaul University

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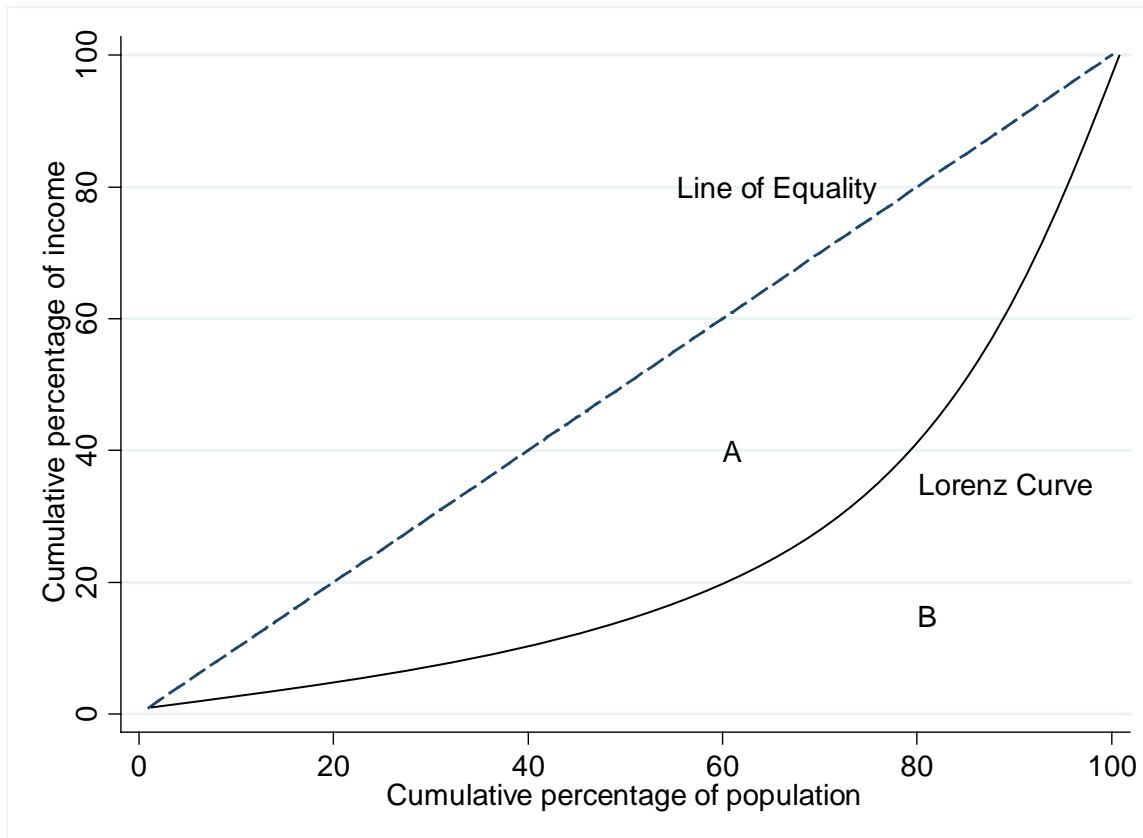
Introduction

In a recent article in the *American Journal of Public Health*, Nancy Krieger et al argued for the use of the Index of Concentration at the Extremes (ICE) as a public health monitoring metric. They argued that the ICE may hold particularly important methodological advantages over other more commonly used measures of a community's socio-economic condition. This is because the ICE quantifies the extent to which a community's residents are concentrated in the extremes of distributions, typically conceptualized as poverty and affluence. The measure can take a value of -1 to + 1; a value of -1 indicates that all of that community's population is concentrated in the 'most deprived' group, while a value of +1 indicates that all of that community's population is concentrated in the most privileged group. Moreover, the ICE can be modified to account for distributions of community characteristics other than just income, including educational attainment and racial/ethnic composition.

An important methodological strength of the ICE is that it can be used at the small-area level (e.g., census tract or community). Unlike the Gini coefficient or the Index of Dissimilarity, it is not biased because of spatial social polarization at the small-area level (Krieger et al., 2016). Researchers have observed that when making observations across communities, there is a very high correlation between proportions of affluent and marginalized residents, raising problems of multicollinearity in statistical models that attempt to incorporate both % poor and % rich in the same equation. The ICE overcomes this problem by defining *a spectrum* of concentrated disadvantage and affluence, "ranging from a negative extreme (where all families are disadvantaged) to a neutral point (where affluent and disadvantaged families are equally balanced) to a positive extreme (where all families are affluent)" (Carpiano, Lloyd, & Hertzman, 2009: 423). This makes the ICE a potentially very powerful measure for monitoring community-level inequalities.

To understand this important strength of the ICE, first consider how the Gini coefficient is calculated (see figure 1):

Figure 1: The Lorenz curve framework (hypothetical data)



By far the most popular measure of income inequality, the Gini coefficient is derived from the Lorenz curve, which shows the percentage of total income earned by cumulative percentage of the population. In a perfectly equal society, the 'poorest' 25% of the population would earn 25% of the total income, the 'poorest' 50% of the population would earn 50% of the total income and the Lorenz curve would follow the path of the 45-degree line of equality. As inequality increases, the Lorenz curve deviates from the

line of equality; the 'poorest' 25% of the population may earn 10% of the total income; the 'poorest' 50% of the population may earn 20% of the total income and so on.

One of the appealing properties of this framework is that it can be used to generate a single summary statistic of the income distribution, the Gini coefficient. The Gini coefficient is equivalent to the size of the area between the Lorenz curve and the 45-degree line of equality divided by the total area under the 45-degree line of equality. In figure 1, it is depicted area A divided by area A+B. The Gini coefficient can be presented as a value between 0 and 1 or 0 and 100. A coefficient of 0 reflects a perfectly equal society in which all income is equally shared; in this case the Lorenz curve would follow the line of equality. The further that the Lorenz curve deviates from the line of equality, the higher will be the resulting value of the Gini coefficient. A coefficient of 1 (or 100) represents a perfectly unequal society wherein all income is earned by one individual (Atkinson, 1975; De Maio, 2007; Gillis, Perkins, Roemer, & Snodgrass, 1996).

While the Gini coefficient works well at the level of the nation, state / province, or even a city, it does not work well in small areas such as neighborhoods. In small areas, spatial social polarization constrains the variance of income, and a poor community may be characterized as being equal by the Gini coefficient (since *within* the small area, income may be evenly distributed, with everyone being poor). Only with enough dispersion, only with enough variance, does the Gini coefficient work well as measure of inequality. An important strength of the ICE is that it overcomes this small-area limitation of the Gini coefficient; the ICE has been used effectively in census tract and neighborhood-level studies.

A growing number of studies have employed the ICE to quantify community conditions and tested its association with health outcomes. Carpiano et al (2009) – in one of the first studies in this area – examined the relationship between the ICE and child well-being in British Columbia. They argued that the ICE “not only allows for more precise estimation of the competing influences of concentrated affluence and disadvantage, but also facilitates examination of the potential impact of neighbourhood-level income inequality” (2009: 420). Finch et al (2010) modelled the effects of the ICE on allostatic load score using the Third National Health and Nutrition Examination Survey (NHANES III). Their work conceptualized deprivation based on the inequity in high school completion rates. They found that “the complex interaction and additional benefit that the well-educated receive from living in socio-economically advantaged (i.e., educationally segregated) neighborhoods would not be uncovered using traditional measures of poverty”. Most recently, Krieger et al (2016) examined the use of the ICE and a novel ICE that jointly measured concentration of income as well as race/ethnicity as a public health monitoring tool in New York City, concluding that ICE is “a metric that reveals, in a single measure, the extremes of selected social and economic relationships implicated in producing health inequities” (2016: 260).

In Chicago, a large health equity literature has explored collective efficacy, concentrated advantage/disadvantage, the index of dissimilarity (Massey, 1990), and more recently, the Child Opportunity Index (Acevedo-Garcia et al., 2014) and the Hardship Index. The Child Opportunity Index and the Hardship Index feature in the city’s work on *Healthy Chicago 2.0* (Dirksen & Prachand, 2016). Krieger’s novel ICE measure may be particularly useful in Chicago, a city with a long history of racial/ethnic segregation.

In this paper, we report community-level ICE estimates for Chicago, and explore correlations between (1) the 3 variations of the ICE used by Krieger et al, and (2) the ICE measures and the hardship index. Understanding the correlations among the ICE measures themselves is useful in understanding the metric and what it represents about Chicago communities. And exploring the association between the ICE and the hardship index serves as a test of validity, examining how the ICE holds up against an existing community-level measure of economic deprivation.

Methods

The ICE is derived from the following formula:

$$(1) \quad ICE_i = \frac{(A_i - P_i)}{T_i}$$

Where A is the number of persons in the advantaged group in community i , P_i is the number of persons in the deprived group and T_i is the total. The result is bounded by -1 and +1. An ICE value of -1 indicates concentration of the deprived condition, and an ICE value of +1 indicates concentration of the advantaged position.

Following the work of Krieger et al (2016), we derived ICE measures for (1) income, (2) race/ethnicity, and (3) race/ethnicity and income combined. For income, we used American Community Survey household income categories that correspond to the 20th and 80th percentiles in the United States: less than \$25,000 and greater than or equal to \$100,000. For race/ethnicity, the extreme groups were defined as non-Hispanic Black and non-Hispanic White.¹ Both definitions mirror the work of Krieger et al (2016) in New York City.

¹ In its present formulation, the ICE does not work well in settings with more than two race/ethnic groups.

Census-level estimates for income and racial/ethnic composition were downloaded from the American Fact Finder (<http://factfinder.census.gov/>). Household income in the past 12 months (in 2012 inflation-adjusted dollars) were obtained from table B19001. Racial/ethnic composition estimates were obtained from table B02001. All income and race/ethnicity data are based on the 2008-2012 American Community Survey 5-year estimates. Census tracts (N = 807) were aggregated to the 77 Chicago community areas based on the census tract boundaries of the Chicago Data Portal (<https://data.cityofchicago.org/Facilities-Geographic-Boundaries/Boundaries-Census-Tracts-2010/5jrd-6zik/data>).²

The hardship index is a composite measure that measures the economic and social conditions of cities and communities. It was originally developed by the Rockefeller Institute, and consists of six indicators: crowded housing, poverty, unemployment, education, dependency and income. Crowded housing measures the percentage occupied by housing units with more than one person per room. Poverty is the percentage of persons living below the federal poverty line. Unemployment is defined as the percentage of person over the age of 16 years who are unemployed, and education is defined as the percentage of persons over the age of 25 years without a high school education. Dependency is the percentage of the population under 18 or over 64 years of age. Income is measured per capita for each community. Scores on the index can range from 0 (low hardship) to 100 (high hardship), with the scale being relative within a jurisdiction (i.e., cannot be directly compared across cities). Community-level hardship data were downloaded from the City of Chicago Data Portal (<https://data.cityofchicago.org/Health-Human-Services/hardship-index/792q-4jtu/data>). ICE calculations were conducted in Excel and data analysis

² ICE values could not be generated for 12 census tracts: 3817, 8357, 9801, 8233.04, 7705, 7706.02, 7707, 7708, 9800, 8056, 8079, and 8081.

with Stata. Pearson correlation coefficients were used to examine the associations between all variables.

Results

Specific ICE values by community area are presented in the appendix.³ Descriptive statistics are presented in table 1 and illustrated in figure 2. As expected, there is substantial heterogeneity among Chicago communities – with relatively large standard deviations for all ICE measures. The most variation is observed with ICE_{race}, reflecting the high level of white-black segregation in the city.

Table 1: Summary Statistics for ICE values, Chicago Community Areas

Index	Formula	Mean (Standard deviation)	Minimum	Maximum
ICE _{income}	(# of people with income ≥ \$100,000 - # of people with income < \$25,000)/ total	-0.14 (0.24)	-0.68	0.32
ICE _{race}	(# of non-Hispanic White people - # of non-Hispanic Black people)/total	0.02 (0.70)	-0.99	0.96
ICE _{combined}	(# of non-Hispanic White people with income ≥ \$100,000 / # of non-Hispanic Black people with income < \$25,000)/total	-0.08 (0.28)	-0.68	0.39

We then explored correlations among the ICE measures as well as between the ICE measures and the hardship index in table 2.

³ Census-tract estimates are also presented in appendix B.

Figure 2: Boxplot of the 3 ICE measures for Chicago communities

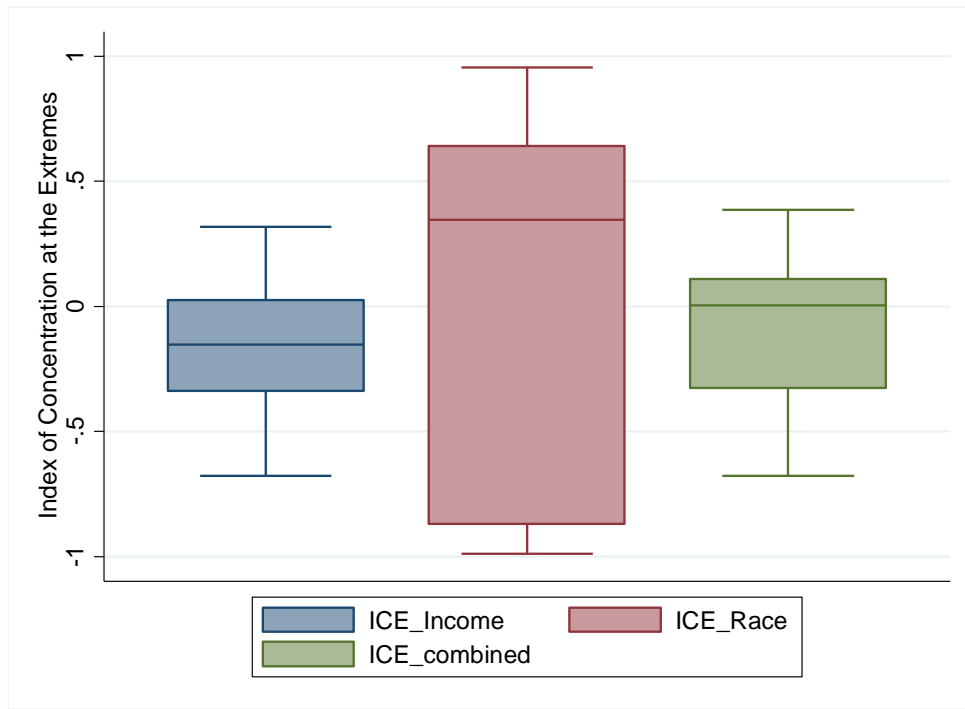


Table 2: Bivariate correlations among ICE measures and the Hardship Index (*r* values)

	ICE _{income}	ICE _{race}	ICE _{combined}	Hardship
ICE _{income}	1.00			
ICE _{race}	0.72 (<0.001)	1.00		
ICE _{combined}	0.91 (<0.001)	0.93 (<0.001)	1.00	
Hardship	-0.88 (<0.001)	-0.56 (<0.001)	-0.75 (<0.001)	1.00

Note: N = 77 Chicago communities.

All of the measures are significantly correlated with one another. The highest *r* value, as expected, is between the component ICE measures and ICE_{combined} (since the component measures are incorporated into the combined measure). Interestingly, the smallest (though still significant) correlation is between

Discussion

The ICE may prove to be a valuable metric for public health monitoring in Chicago, providing an alternative to the Hardship Index and the Child Opportunity Index. In particular, the ICE brings into focus the health effects of income inequality and racial/ethnic segregation (at least when conceptualized as white-black segregation). Moving forward, there are several promising lines of investigation:

- Analyze census-tract level ICE scores to explore heterogeneity *within* communities.
- Replicate Krieger's analysis using infant mortality, premature mortality, and diabetes-related mortality as outcomes predicted by the ICE. This could be followed by analyses focused on other health conditions identified as priority areas in *Healthy Chicago 2.0* as well as hospital-based Community Health Needs Assessments.
- Examine historical effects by constructing census tract and community-level ICE scores over time.
- Future research could use these ICE values in ecologic analyses of community areas. More advanced models could incorporate ICE values as contextual variables in multilevel models. This may be particularly useful in future analyses of the Healthy Chicago Survey.

Appendix A: ICE Values for Chicago Community Areas

Community Number	Community Name	ICE _{combined}	ICE _{race}	ICE _{income}
1	Rogers Park	-0.02	0.23	-0.18
2	West Ridge	0.08	0.44	-0.08
3	Uptown	0.04	0.39	-0.15
4	Lincoln Square	0.18	0.67	0.04
5	North Center	0.39	0.87	0.32
6	Lake View	0.30	0.82	0.19
7	Lincoln Park	0.38	0.82	0.26
8	Near North	0.29	0.66	0.22
9	Edison Park	0.35	0.96	0.24
10	Norwood Park	0.25	0.87	0.14
11	Jefferson Park	0.18	0.79	0.04
12	Forest Glen	0.35	0.76	0.32
13	North Park	0.15	0.55	-0.05
14	Albany Park	0.07	0.38	-0.10
15	Portage Park	0.11	0.64	-0.02
16	Irving Park	0.12	0.63	0.01
17	Dunning	0.17	0.84	0.03
18	Montclare	0.06	0.58	-0.11
19	Belmont Cragin	0.00	0.35	-0.15
20	Hermosa	0.01	0.36	-0.17
21	Avondale	0.07	0.70	-0.09

22	Logan Square	0.14	0.73	0.03
23	Humboldt Park	-0.18	-0.18	-0.37
24	West Town	0.23	0.66	0.13
25	Austin	-0.35	-0.78	-0.31
26	West Garfield Park	-0.50	-0.95	-0.47
27	East Garfield Park	-0.48	-0.90	-0.44
28	Near West Side	0.07	0.14	0.06
29	North Lawndale	-0.48	-0.88	-0.47
30	South Lawndale	-0.02	0.56	-0.34
31	Lower West Side	0.00	0.45	-0.26
32	Loop	0.27	0.54	0.21
33	Near South Side	0.10	0.21	0.17
34	Armour Square	-0.09	0.01	-0.44
35	Douglas	-0.34	-0.58	-0.32
36	Oakland	-0.53	-0.89	-0.45
37	Fuller Park	-0.57	-0.89	-0.61
38	Grand Boulevard	-0.41	-0.87	-0.31
39	Kenwood	-0.23	-0.51	-0.18
40	Washington Park	-0.53	-0.98	-0.47
41	Hyde Park	0.00	0.16	-0.08
42	Woodlawn	-0.43	-0.80	-0.38
43	South Shore	-0.43	-0.93	-0.37
44	Chatham	-0.42	-0.97	-0.34

45	Avalon Park	-0.28	-0.95	-0.11
46	South Chicago	-0.30	-0.54	-0.34
47	Burnside	-0.48	-0.99	-0.42
48	Calumet Heights	-0.16	-0.93	0.01
49	Roseland	-0.33	-0.95	-0.24
50	Pullman	-0.26	-0.73	-0.26
51	South Deering	-0.26	-0.38	-0.35
52	East Side	0.02	0.74	-0.13
53	West Pullman	-0.33	-0.90	-0.23
54	Riverdale	-0.68	-0.96	-0.68
55	Hegewisch	0.06	0.67	-0.09
56	Garfield Ridge	0.13	0.67	0.06
57	Archer Heights	0.03	0.64	-0.09
58	Brighton Park	0.00	0.63	-0.22
59	McKinley Park	0.02	0.48	-0.20
60	Bridgeport	0.07	0.45	-0.16
61	New City	-0.09	0.16	-0.29
62	West Elsdon	0.02	0.62	-0.09
63	gage Park	-0.02	0.52	-0.20
64	Clearing	0.11	0.74	-0.01
65	West Lawn	0.01	0.36	-0.09
66	Chicago Lawn	-0.20	-0.41	-0.29
67	West Englewood	-0.46	-0.93	-0.44

68	Englewood	-0.58	-0.97	-0.57
69	Greater Grand Crossing	-0.44	-0.96	-0.37
70	Ashburn	-0.02	-0.23	0.11
71	Ashburn Gresham	-0.41	-0.98	-0.35
72	Beverly	0.22	0.28	0.31
73	Washington Heights	-0.28	-0.96	-0.16
74	Mt. Greenwood	0.36	0.87	0.31
75	Morgan Park	-0.03	-0.32	0.07
76	O'Hare Area	0.08	0.81	-0.14
77	Edgewater	0.05	0.49	-0.13

Note: Version 1 estimates. See <http://www.healthequitychicago.org> for updates.

Appendix B: ICE Values for Chicago Census Tracts

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
1	101	-0.22	-0.09	-0.29
1	102.01	-0.16	-0.11	-0.20
1	102.02	0.01	0.17	-0.22
1	103	-0.03	0.26	-0.22
1	104	0.05	0.56	-0.16
1	105.01	-0.01	0.18	-0.24
1	105.02	0.04	0.44	-0.29
1	105.03	0.01	0.58	-0.44
1	106	0.03	0.11	-0.03
1	107.01	0.10	0.40	0.09
1	107.02	-0.01	0.29	-0.18
1	8306	0.08	0.43	-0.08
2	201	-0.03	0.14	-0.07
2	202	0.15	0.44	0.08
2	203.01	0.21	0.79	0.04
2	203.02	0.23	0.64	0.13
2	204	0.11	0.41	0.04
2	205	-0.01	0.25	-0.24
2	206.01	0.12	0.61	-0.06
2	206.02	0.02	0.26	-0.18
2	207.01	0.28	0.63	0.24
2	207.02	0.04	0.49	-0.16
2	208.01	0.12	0.60	-0.07
2	208.02	0.01	0.29	-0.22
2	209.01	-0.03	0.27	-0.16
2	209.02	-0.01	0.36	-0.22
3	310	0.21	0.66	0.09
3	311	0.15	0.54	0.03
3	312	-0.23	0.14	-0.45
3	313	-0.01	0.16	-0.29
3	314	0.22	0.72	0.12
3	315.01	-0.04	0.09	-0.34
3	315.02	-0.20	-0.09	-0.41
3	317	0.03	0.45	-0.13
3	318	0.29	0.90	0.01
3	319	0.13	0.71	0.07
3	321	0.08	0.60	-0.14
3	8307	0.02	0.24	-0.19
4	401	0.17	0.66	-0.01
4	402.01	0.20	0.76	0.01

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
4	402.02	0.09	0.49	-0.08
4	403	0.20	0.49	0.14
4	404.01	0.20	0.65	0.16
4	404.02	0.17	0.67	0.08
4	406	0.25	0.74	0.10
4	407	0.26	0.86	0.10
4	408	0.30	0.73	0.18
4	409	0.19	0.76	0.04
4	8308	0.13	0.73	0.01
5	501	0.30	0.85	0.17
5	502	0.25	0.81	0.12
5	503	0.40	0.88	0.40
5	505	0.42	0.89	0.39
5	506	0.38	0.91	0.26
5	507	0.41	0.96	0.41
5	508	0.52	0.92	0.47
5	509	0.46	0.93	0.26
5	510	0.33	0.84	0.37
5	511	0.42	0.81	0.28
5	512	0.44	0.87	0.40
5	513	0.66	0.90	0.63
5	514	0.30	0.84	0.32
5	8437	0.37	0.89	0.19
6	601	0.39	0.83	0.37
6	602	0.14	0.81	-0.02
6	603	0.55	0.98	0.49
6	604	0.49	0.94	0.44
6	605	0.33	0.84	-0.04
6	608	0.22	0.63	0.19
6	609	0.17	0.68	0.02
6	610	0.43	0.86	0.33
6	611	0.33	0.96	0.24
6	612	0.46	0.87	0.36
6	615	0.41	0.93	0.39
6	618	0.24	0.89	0.03
6	619.01	0.17	0.77	0.00
6	619.02	0.20	0.77	0.00
6	620	0.27	0.89	0.24
6	621	0.28	0.82	0.16
6	622	0.49	0.87	0.48
6	623	0.51	0.94	0.42
6	624	0.46	0.90	0.45

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
6	625	0.55	0.82	0.55
6	626	0.47	0.89	0.40
6	627	0.48	0.89	0.37
6	628	0.42	0.78	0.38
6	629	0.52	0.95	0.45
6	630	0.29	0.85	0.16
6	631	0.26	0.82	0.08
6	632	0.19	0.75	0.10
6	633.01	0.08	0.75	-0.21
6	633.02	0.26	0.88	0.16
6	633.03	0.22	0.94	0.11
6	634	0.20	0.80	0.13
6	8319	0.47	0.91	0.42
6	8320	0.44	0.80	0.37
6	8321	0.20	0.51	0.07
7	701.01	0.26	0.87	0.06
7	701.02	0.17	0.74	0.07
7	701.03	0.21	0.90	-0.02
7	702	0.37	0.81	0.29
7	703	0.41	0.78	0.28
7	704	0.36	0.87	0.14
7	705	0.48	0.84	0.44
7	706	0.62	0.95	0.62
7	707	0.38	0.74	0.33
7	710	0.43	0.78	0.26
7	711	0.49	0.86	0.31
7	712	0.29	0.83	0.14
7	713	0.43	0.87	0.31
7	714	0.31	0.83	0.19
7	715	0.37	0.82	0.25
7	716	0.53	0.85	0.40
7	717	0.54	0.68	0.53
7	718	0.39	0.73	0.40
7	8325	0.29	0.73	0.07
7	8326	0.61	0.90	0.57
8	801	0.41	0.90	0.27
8	802.01	0.35	0.88	0.23
8	802.02	0.36	0.77	0.30
8	803	0.31	0.76	0.32
8	804	-0.14	-0.26	-0.13
8	810	0.11	0.65	-0.15
8	811	0.21	0.77	-0.02

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
8	812.01	0.33	0.82	0.20
8	812.02	0.42	0.88	0.37
8	813	0.37	0.78	0.34
8	814.01	0.22	0.51	0.15
8	814.02	0.43	0.82	0.40
8	814.03	0.32	0.69	0.33
8	815	0.40	0.76	0.34
8	816	0.32	0.74	0.27
8	817	0.31	0.71	0.30
8	818	0.38	0.80	0.38
8	819	0.06	-0.22	0.21
8	8383	-0.22	0.17	-0.25
8	8422	0.18	0.14	0.13
9	901	0.34	0.97	0.25
9	902	0.37	0.94	0.26
9	903	0.32	0.99	0.15
10	1001	0.25	0.82	0.12
10	1002	0.24	0.80	0.19
10	1003	0.28	0.93	0.02
10	1004	0.35	0.96	0.29
10	1005	0.26	0.91	0.23
10	1006	0.17	0.87	0.08
10	1007	0.23	0.86	0.13
10	8104	0.20	0.95	0.08
11	1101	0.25	0.78	0.21
11	1102	0.15	0.82	-0.07
11	1103	0.26	0.86	0.09
11	1104	0.16	0.77	0.04
11	1105.01	0.16	0.73	0.04
11	1105.02	0.06	0.79	-0.16
12	1201	0.43	0.87	0.36
12	1202	0.36	0.82	0.31
12	1203	0.39	0.71	0.42
12	1204	0.20	0.66	0.11
13	1301	0.19	0.69	-0.11
13	1302	0.25	0.78	0.09
13	1303	0.11	0.48	-0.03
13	8318	0.14	0.42	-0.05
14	1401	-0.01	0.32	-0.42
14	1402	0.05	0.30	-0.12
14	1403.01	0.03	0.20	0.03
14	1403.02	0.08	0.29	-0.12

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
14	1404	0.07	0.56	-0.14
14	1405	0.07	0.53	0.03
14	1406.01	0.06	0.23	-0.10
14	1406.02	-0.02	0.24	-0.19
14	1407.01	0.10	0.61	-0.06
14	1407.02	0.01	0.27	-0.17
14	1408	0.24	0.52	0.08
15	1502	0.10	0.62	-0.11
15	1503	0.14	0.71	-0.05
15	1504.01	0.14	0.77	-0.14
15	1504.02	0.14	0.68	-0.03
15	1505.01	0.23	0.76	0.25
15	1505.02	0.10	0.58	0.05
15	1506	0.16	0.70	0.02
15	1507	0.12	0.72	0.01
15	1508	0.07	0.64	-0.04
15	1510.01	0.06	0.43	-0.14
15	1510.02	0.04	0.45	0.07
15	1511	0.06	0.59	-0.08
15	1512	0.12	0.72	0.02
15	8317	0.15	0.50	0.22
16	1601	0.16	0.76	0.16
16	1602	0.18	0.63	0.09
16	1603	0.01	0.38	-0.24
16	1604	0.09	0.52	-0.12
16	1605.01	0.00	0.39	-0.15
16	1605.02	0.08	0.59	-0.05
16	1606.01	0.14	0.66	-0.11
16	1606.02	0.08	0.50	0.14
16	1607	0.15	0.71	0.08
16	1608	0.11	0.67	0.03
16	1609	0.31	0.83	0.27
16	1610	0.24	0.87	0.10
16	1611	0.37	0.77	0.38
16	1612	0.11	0.67	0.13
16	1613	0.02	0.79	-0.19
17	1701	0.17	0.87	-0.15
17	1702	0.26	0.83	0.15
17	1703	0.15	0.86	-0.01
17	1704	0.14	0.91	-0.07
17	1705	0.20	0.90	0.12
17	1706	0.21	0.78	0.04

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
17	1707	0.18	0.93	-0.01
17	1708	0.16	0.87	0.01
17	1709	0.15	0.78	0.03
17	1710	0.14	0.81	0.03
17	1711	0.12	0.66	0.10
18	1801	0.12	0.67	-0.07
18	8316	0.01	0.51	-0.14
19	1901	0.00	0.42	-0.23
19	1902	0.04	0.37	-0.14
19	1903	0.06	0.54	-0.09
19	1904.01	0.05	0.59	-0.07
19	1904.02	0.02	0.43	-0.10
19	1906.01	0.00	0.26	-0.15
19	1906.02	-0.01	0.33	-0.10
19	1907.01	0.01	0.44	-0.14
19	1907.02	0.00	0.36	-0.07
19	1908	0.00	0.27	-0.18
19	1909	-0.08	0.21	-0.06
19	1910	-0.01	0.37	-0.28
19	1911	-0.01	0.17	-0.20
19	1912	-0.02	0.20	-0.31
19	1913.01	-0.06	0.19	-0.27
19	1913.02	0.01	0.41	-0.26
19	8315	0.01	0.51	0.01
20	2001	0.03	0.41	-0.13
20	2002	0.01	0.24	-0.14
20	2003	0.01	0.29	-0.20
20	2004.01	0.00	0.47	-0.09
20	2004.02	0.01	0.26	-0.20
20	8312	-0.01	0.45	-0.24
21	2101	0.12	0.62	0.08
21	2104	0.05	0.74	-0.23
21	2105.01	0.03	0.70	-0.26
21	2105.02	0.03	0.79	-0.18
21	2106.01	0.04	0.77	-0.07
21	2106.02	0.03	0.82	-0.18
21	2107	0.10	0.79	-0.07
21	2108	0.05	0.64	-0.24
21	2109	0.13	0.55	0.09
21	8311	0.07	0.60	-0.01
22	2203	0.28	0.86	0.23
22	2204	0.15	0.70	0.01

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
22	2205	0.17	0.70	0.04
22	2206.01	-0.08	0.69	-0.21
22	2206.02	0.12	0.65	-0.02
22	2207.01	0.03	0.80	-0.11
22	2207.02	0.02	0.75	-0.14
22	2209.01	-0.01	0.45	-0.13
22	2209.02	0.02	0.77	-0.09
22	2210	-0.02	0.68	-0.20
22	2211	-0.02	0.57	-0.19
22	2212	0.17	0.66	0.04
22	2213	0.10	0.74	-0.13
22	2214	0.06	0.86	-0.09
22	2215	0.06	0.75	-0.19
22	2216	0.31	0.86	0.15
22	2222	0.44	0.79	0.49
22	2225	0.09	0.74	-0.06
22	2226	0.01	0.73	-0.20
22	2227	0.05	0.73	-0.12
22	2228	-0.28	0.23	-0.70
22	2229	0.05	0.71	-0.28
22	8309	0.32	0.84	0.31
22	8310	0.48	0.77	0.51
22	8322	0.39	0.90	0.34
22	8323	0.39	0.88	0.45
22	8324	0.28	0.80	0.28
23	2301	0.02	0.47	-0.22
23	2302	-0.01	0.19	-0.13
23	2303	-0.05	0.43	-0.28
23	2304	0.01	0.39	-0.21
23	2305	-0.05	0.40	-0.42
23	2306	-0.14	-0.10	-0.27
23	2307	-0.02	0.19	-0.26
23	2308	-0.02	0.44	-0.10
23	2309	-0.08	0.05	-0.29
23	2311	-0.37	-0.54	-0.35
23	2312	-0.43	-0.64	-0.58
23	2315	-0.56	-0.93	-0.60
23	8366	-0.21	-0.02	-0.37
23	8367	-0.35	-0.72	-0.45
23	8421	-0.22	-0.44	-0.39
24	2402	0.39	0.83	0.31
24	2403	0.48	0.93	0.36

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
24	2405	0.51	0.85	0.50
24	2406	0.36	0.69	0.36
24	2407	0.12	0.71	-0.12
24	2408	0.00	0.71	-0.31
24	2409	-0.03	0.49	-0.25
24	2410	-0.06	0.22	-0.13
24	2411	0.10	0.54	-0.07
24	2412	0.28	0.56	0.21
24	2413	0.38	0.64	0.32
24	2414	0.24	0.59	0.17
24	2415	0.43	0.78	0.37
24	2416	0.16	0.79	0.11
24	2420	0.07	0.37	-0.04
24	2421	0.36	0.77	0.35
24	2422	0.33	0.82	0.25
24	2423	0.27	0.86	0.20
24	2424	0.25	0.89	0.14
24	2425	0.04	0.70	-0.08
24	2426	0.05	0.50	-0.11
24	2427	-0.08	0.17	-0.40
24	2428	0.31	0.89	0.07
24	2429	0.27	0.72	-0.01
24	2430	0.24	0.83	0.13
24	2431	0.16	0.62	0.12
24	2432	0.36	0.75	0.32
24	2433	0.25	0.82	0.11
24	2434	0.15	0.71	0.06
24	2435	0.34	0.59	0.36
24	8423	0.42	0.46	0.43
25	2502	-0.19	-0.48	-0.27
25	2503	-0.25	-0.73	-0.29
25	2504	-0.24	-0.87	-0.14
25	2505	0.10	0.31	0.07
25	2506	-0.27	-0.89	-0.21
25	2507	-0.40	-0.95	-0.32
25	2508	-0.22	-0.84	-0.24
25	2510	-0.53	-0.75	-0.47
25	2511	-0.45	-0.86	-0.40
25	2512	-0.30	-0.84	-0.18
25	2513	-0.36	-0.94	-0.31
25	2514	-0.39	-0.80	-0.36
25	2515	-0.36	-0.91	-0.26

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
25	2516	-0.46	-0.92	-0.42
25	2517	-0.55	-0.84	-0.56
25	2518	-0.57	-0.99	-0.54
25	2519	-0.52	-0.92	-0.48
25	2520	-0.56	-0.94	-0.55
25	2521.01	-0.35	-0.90	-0.33
25	2521.02	-0.43	-1.00	-0.37
25	2522.01	-0.47	-0.88	-0.44
25	2522.02	-0.37	-0.98	-0.26
25	8313	-0.15	-0.27	-0.22
25	8314	-0.39	-0.64	-0.38
26	2601	-0.72	-0.85	-0.74
26	2602	-0.48	-0.96	-0.46
26	2603	-0.52	-0.92	-0.52
26	2604	-0.52	-0.98	-0.52
26	2605	-0.48	-0.99	-0.46
26	2606	-0.49	-0.94	-0.45
26	2607	-0.48	-0.99	-0.40
26	2608	-0.51	-0.95	-0.48
26	2609	-0.54	-0.92	-0.51
26	2610	-0.31	-1.00	-0.25
27	2705	-0.71	-0.88	-0.71
27	2712	-0.42	-0.97	-0.23
27	2713	-0.57	-0.96	-0.55
27	2714	-0.44	-0.92	-0.44
27	2715	-0.36	-0.99	-0.30
27	2718	-0.25	-0.96	-0.23
27	8368	-0.64	-0.95	-0.59
27	8369	-0.20	-0.88	-0.13
27	8370	-0.52	-0.90	-0.46
27	8371	-0.41	-0.78	-0.41
27	8373	-0.46	-0.89	-0.44
27	8374	-0.46	-0.82	-0.42
28	2801	0.42	0.76	0.41
28	2804	-0.39	-0.66	-0.41
28	2808	-0.59	-0.75	-0.54
28	2809	-0.70	-0.91	-0.75
28	2819	0.29	0.49	0.27
28	2827	-0.11	-0.17	-0.16
28	2828	0.04	0.26	0.12
28	2831	-0.08	-0.14	-0.22
28	2832	-0.10	-0.11	-0.07

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
28	2838	-0.14	-0.17	-0.13
28	8329	0.16	0.54	-0.10
28	8330	0.42	0.62	0.48
28	8331	0.34	0.56	0.38
28	8333	0.09	0.51	-0.11
28	8378	-0.21	-0.70	-0.18
28	8380	-0.42	-0.49	-0.37
28	8381	-0.37	-0.25	-0.34
28	8382	0.09	0.13	0.15
28	8419	0.24	0.36	0.34
28	8429	-0.54	-0.72	-0.70
29	2909	-0.57	-0.90	-0.57
29	2912	-0.50	-0.96	-0.47
29	2916	-0.14	-0.03	-0.40
29	2922	-0.51	-0.93	-0.46
29	2924	-0.50	-0.89	-0.54
29	2925	-0.47	-0.98	-0.42
29	8386	-0.63	-0.91	-0.61
29	8387	-0.53	-0.97	-0.48
29	8414	-0.52	-0.91	-0.51
29	8415	-0.49	-0.96	-0.43
29	8416	-0.49	-0.97	-0.41
29	8430	-0.61	-0.99	-0.60
29	8431	-0.36	-0.86	-0.34
29	8433	-0.25	-0.22	-0.46
29	8434	-0.25	-0.89	-0.18
30	3005	-0.02	0.65	-0.22
30	3006	0.01	0.56	-0.22
30	3007	0.00	0.71	-0.37
30	3008	-0.01	0.65	-0.39
30	3009	-0.01	0.75	-0.49
30	3011	0.00	0.70	-0.32
30	3012	-0.03	0.72	-0.33
30	3016	0.00	0.76	-0.37
30	3017.01	0.00	0.91	-0.25
30	3017.02	0.00	0.67	-0.40
30	3018.01	-0.02	0.77	-0.28
30	3018.02	0.00	0.63	-0.35
30	3018.03	0.00	0.74	-0.31
30	8305	0.00	0.69	-0.23
30	8407	-0.01	0.79	-0.38
30	8408	0.00	0.73	-0.33

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
30	8417	-0.38	-0.30	-0.59
30	8435	0.00	-0.37	-0.34
31	3102	0.13	0.69	-0.02
31	3103	0.05	0.39	0.03
31	3104	0.02	0.46	-0.19
31	3105	0.00	0.47	-0.40
31	3106	-0.06	0.36	-0.34
31	3107	-0.03	0.57	-0.36
31	3108	0.01	0.45	-0.23
31	3109	-0.01	0.50	-0.26
31	8412	-0.02	0.50	-0.23
31	8413	0.00	0.39	-0.40
31	8432	0.01	0.38	-0.17
32	3201	0.35	0.64	0.29
32	3204	0.40	0.38	0.27
32	3206	0.09	0.44	0.02
32	8390	0.22	0.51	0.21
32	8391	0.28	0.52	0.21
33	3301	0.10	0.26	0.16
33	3302	0.13	0.11	0.21
33	8410	-0.13	-0.45	0.01
34	3403	0.01	0.16	-0.41
34	3404	0.02	0.16	-0.36
34	3405	-0.16	0.32	-0.48
34	3406	-0.82	-1.00	-0.82
34	8411	0.00	0.02	-0.40
35	3501	-0.12	-0.42	-0.17
35	3504	-0.64	-0.91	-0.72
35	3510	-0.19	-0.68	-0.24
35	3511	-0.72	-0.98	-0.73
35	3514	-0.75	-0.81	-0.74
35	3515	-0.24	-0.62	-0.30
35	8392	-0.25	-0.67	-0.18
35	8395	-0.44	-0.54	-0.30
35	8396	-0.44	-0.81	-0.29
35	8420	-0.02	-0.02	0.13
36	3602	-0.67	-0.97	-0.73
36	8364	-0.49	-0.88	-0.34
36	8365	-0.50	-0.86	-0.47
37	8355	-0.56	-0.87	-0.61
37	8356	-0.60	-0.92	-0.60
38	3801	-0.40	-0.83	-0.26

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
38	3802	-0.57	-0.91	-0.54
38	3805	-0.18	-0.94	-0.17
38	3807	-0.35	-0.61	-0.28
38	3812	-0.38	-0.85	-0.30
38	3814	-0.28	-0.94	-0.29
38	3815	-0.63	-0.95	-0.63
38	3817	-	-	-
38	3818	-0.47	-0.64	-0.43
38	3819	-0.44	-0.90	-0.36
38	8357	-	-	-
38	8358	-0.31	-0.95	0.01
38	8359	-0.45	-0.93	-0.34
38	8360	-0.27	-0.93	-0.10
38	8436	-0.49	-0.90	-0.41
39	3901	-0.18	-0.90	-0.05
39	3902	-0.30	-0.86	-0.05
39	3903	-0.48	-0.86	-0.42
39	3904	-0.58	-0.85	-0.50
39	3905	-0.18	-0.45	-0.02
39	3906	0.02	-0.05	0.13
39	3907	-0.04	-0.12	-0.12
40	4003	-0.33	-0.98	-0.21
40	4004	-0.51	-0.99	-0.43
40	4005	-0.51	-0.99	-0.45
40	4008	-0.71	-0.99	-0.71
40	8345	-0.53	-0.90	-0.50
40	8361	-0.41	-0.99	-0.35
41	4101	-0.16	-0.21	-0.19
41	4102	-0.16	0.19	-0.43
41	4105	-0.11	-0.32	-0.09
41	4106	-0.01	0.04	-0.05
41	4107	0.04	0.41	-0.19
41	4108	-0.13	-0.09	-0.21
41	4109	0.05	0.21	0.07
41	4110	0.07	0.33	-0.07
41	4111	0.23	0.62	0.14
41	4112	0.31	0.57	0.17
41	8362	0.47	0.69	0.33
41	8363	-0.14	-0.36	-0.10
42	4201	-0.68	-0.85	-0.70
42	4202	-0.32	-0.46	-0.32
42	4203	-0.12	-0.17	-0.05

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
42	4204	-0.35	-0.45	-0.39
42	4205	-0.54	-0.96	-0.53
42	4206	-0.63	-0.92	-0.66
42	4207	-0.44	-0.97	-0.40
42	4208	-0.49	-0.91	-0.39
42	4212	-0.53	-0.99	-0.45
42	8344	-0.37	-0.89	-0.22
42	8439	-0.38	-0.90	-0.29
43	4301.01	-0.40	-0.92	-0.33
43	4301.02	-0.43	-0.98	-0.40
43	4302	-0.54	-0.86	-0.47
43	4303	-0.37	-0.97	-0.23
43	4304	-0.44	-0.96	-0.36
43	4305	-0.53	-0.97	-0.50
43	4306	-0.38	-0.92	-0.24
43	4307	-0.40	-0.88	-0.37
43	4308	-0.27	-0.93	-0.13
43	4309	-0.50	-0.99	-0.35
43	4312	-0.20	-0.93	-0.14
43	4313.01	-0.53	-0.97	-0.54
43	4313.02	-0.53	-0.96	-0.47
43	4314	-0.41	-0.87	-0.40
43	8342	-0.34	-0.98	-0.25
44	4401.01	-0.47	-0.99	-0.47
44	4401.02	-0.45	-0.99	-0.43
44	4402.01	-0.45	-0.97	-0.41
44	4402.02	-0.48	-0.97	-0.38
44	4403	-0.33	-0.94	-0.20
44	4406	-0.29	-0.97	-0.11
44	4407	-0.38	-0.90	-0.24
44	4408	-0.47	-0.99	-0.39
44	4409	-0.28	-0.99	-0.18
44	8424	-0.45	-0.99	-0.40
45	4503	-0.32	-0.92	-0.14
45	8343	-0.26	-0.97	-0.09
46	4601	-0.27	-0.55	-0.30
46	4602	-0.23	0.09	-0.52
46	4603.01	-0.17	-0.46	-0.30
46	4603.02	-0.51	-0.93	-0.51
46	4604	-0.24	-0.98	-0.11
46	4605	-0.26	-0.91	-0.09
46	4606	-0.42	-0.72	-0.48

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
46	4607	-0.37	-0.28	-0.63
46	4610	-0.43	0.01	-0.62
46	8339	-0.19	0.16	-0.42
47	4701	-0.48	-0.99	-0.42
48	4801	-0.15	-0.97	-0.01
48	4802	-0.31	-1.00	-0.16
48	4803	-0.20	-0.95	-0.11
48	4804	-0.13	-0.97	0.14
48	4805	-0.13	-0.79	-0.14
49	4903	-0.25	-0.93	-0.11
49	4904	-0.31	-0.99	-0.13
49	4905	-0.24	-0.91	-0.13
49	4906	-0.20	-0.92	-0.12
49	4907	-0.28	-0.97	-0.19
49	4908	-0.29	-0.91	-0.17
49	4909.01	-0.45	-0.95	-0.35
49	4909.02	-0.29	-0.98	-0.18
49	4910	-0.46	-0.96	-0.45
49	4911	-0.25	-0.94	-0.18
49	4912	-0.34	-0.99	-0.16
49	4913	-0.43	-0.97	-0.33
49	4914	-0.41	-0.97	-0.38
49	8340	-0.29	-0.95	-0.24
50	5001	-0.24	-0.99	-0.17
50	5002	-0.50	-0.90	-0.47
50	5003	-0.12	0.02	-0.22
51	5101	-0.02	0.51	-0.29
51	5102	-0.27	-0.62	-0.27
51	5103	-0.41	-0.93	-0.37
51	8388	-0.26	-0.18	-0.44
52	5201	-0.06	0.45	-0.29
52	5202	-0.04	0.70	-0.28
52	5203	0.02	0.74	-0.16
52	5204	0.03	0.75	-0.14
52	5205	0.11	0.84	0.04
52	5206	0.03	0.79	-0.04
53	5301	-0.31	-0.28	-0.36
53	5302	-0.45	-0.99	-0.40
53	5303	-0.28	-0.94	-0.20
53	5304	-0.27	-1.00	-0.12
53	5305.01	-0.36	-0.95	-0.25
53	5305.02	-0.32	-1.00	-0.26

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
53	5305.03	-0.18	-0.98	0.01
53	5306	-0.45	-0.90	-0.39
53	8214.02	-1.00	-1.00	-1.00
54	5401.01	-0.66	-0.92	-0.66
54	5401.02	-0.69	-1.00	-0.69
55	5501	0.06	0.59	-0.07
55	5502	0.05	0.87	-0.14
56	5601	0.00	0.61	-0.33
56	5602	-0.22	-0.70	-0.04
56	5603	0.09	0.46	0.10
56	5604	0.11	0.57	0.19
56	5607	0.05	0.72	-0.19
56	5608	0.12	0.87	0.01
56	5609	0.19	0.83	0.19
56	5610	0.20	0.82	0.08
56	5611	0.20	0.81	0.20
56	8352	0.04	0.67	-0.09
56	9801	-	-	-
57	5701	0.02	0.81	-0.16
57	5702	0.04	0.63	0.00
57	5703	0.05	0.67	-0.08
57	5704	-0.01	0.68	-0.09
57	5705	0.01	0.47	-0.15
58	5801	0.03	0.64	-0.20
58	5802	-0.01	0.39	-0.25
58	5803	0.00	0.62	-0.28
58	5804	-0.02	0.60	-0.26
58	5805.01	0.00	0.66	-0.09
58	5805.02	0.01	0.64	-0.12
58	5806	0.00	0.70	-0.18
58	5807	0.00	0.69	-0.32
58	5808	-0.03	0.77	-0.37
58	8428	0.01	0.59	-0.27
59	5905	0.03	0.65	-0.01
59	5906	0.04	0.46	-0.16
59	5907	-0.01	0.46	-0.21
59	8403	0.00	0.51	-0.21
59	8404	0.03	0.36	-0.34
60	6004	0.02	0.30	-0.24
60	6006	0.04	0.32	-0.27
60	6007	-0.03	0.48	-0.27
60	6009	-0.02	0.39	-0.26

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
60	8397	0.08	0.43	-0.13
60	8398	0.11	0.61	-0.07
60	8399	0.16	0.70	0.01
60	8400	0.18	0.56	0.08
60	8401	0.04	0.36	-0.41
60	8402	0.04	0.31	-0.08
61	6103	-0.01	0.62	-0.35
61	6104	0.00	0.75	-0.40
61	6108	0.21	0.97	0.08
61	6110	-0.43	-0.51	-0.65
61	6111	-0.10	0.32	-0.39
61	6112	-0.06	0.24	-0.31
61	6113	-0.05	0.36	-0.31
61	6114	-0.02	0.54	-0.26
61	6115	-0.04	0.44	-0.29
61	6116	-0.14	-0.54	-0.09
61	6117	-0.20	-0.46	-0.48
61	6118	-0.31	-0.43	-0.43
61	6119	-0.41	-0.73	-0.45
61	6120	-0.28	-0.87	-0.32
61	6121	-0.45	-0.86	-0.27
61	8426	0.14	0.80	-0.05
61	8438	-0.23	-0.36	-0.33
62	6201	0.01	0.57	0.04
62	6202	0.05	0.61	-0.12
62	6203	0.01	0.68	-0.14
62	6204	0.02	0.59	-0.11
63	6301	-0.11	0.28	-0.20
63	6302	0.01	0.59	-0.20
63	6303	0.01	0.74	-0.17
63	6304	0.01	0.51	-0.27
63	6305	-0.01	0.50	-0.16
63	6308	-0.03	0.55	-0.21
63	6309	-0.02	0.52	-0.16
63	8351	-0.09	0.31	-0.23
64	6401	0.03	0.84	-0.33
64	6403	0.12	0.82	-0.08
64	6404	0.15	0.78	0.15
64	6405	0.13	0.76	0.07
64	6406	0.10	0.75	-0.10
64	6407	0.09	0.61	0.10
64	6408	0.07	0.51	0.01

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
65	6501	0.00	0.37	-0.18
65	6502	0.05	0.40	-0.01
65	6503.01	0.05	0.45	-0.06
65	6503.02	0.00	0.40	0.02
65	6504	0.01	0.27	-0.14
65	6505	-0.03	0.31	-0.16
66	6603.01	-0.21	-0.49	-0.41
66	6603.02	-0.14	-0.03	-0.27
66	6604	-0.03	0.21	-0.27
66	6605	-0.10	-0.02	-0.30
66	6606	-0.24	-0.68	-0.31
66	6607	-0.45	-0.90	-0.37
66	6608	-0.22	-0.48	-0.37
66	6609	-0.33	-0.82	-0.35
66	6610	-0.41	-0.91	-0.29
66	6611	-0.10	-0.22	-0.08
66	8350	-0.27	-0.56	-0.35
67	6701	-0.33	-0.88	-0.31
67	6702	-0.47	-0.94	-0.52
67	6703	-0.48	-0.84	-0.54
67	6704	-0.39	-0.83	-0.32
67	6705	-0.35	-0.92	-0.44
67	6706	-0.38	-0.91	-0.32
67	6707	-0.60	-0.94	-0.49
67	6708	-0.49	-0.97	-0.43
67	6709	-0.43	-0.97	-0.43
67	6711	-0.62	-1.00	-0.62
67	6712	-0.38	-0.96	-0.37
67	6713	-0.40	-0.95	-0.29
67	6714	-0.32	-0.91	-0.26
67	6715	-0.51	-0.91	-0.50
67	6716	-0.57	-0.92	-0.58
67	6718	-0.62	-0.92	-0.59
67	6719	-0.30	-1.00	-0.24
67	6720	-0.34	-0.97	-0.29
67	8349	-0.68	-0.96	-0.67
68	6805	-0.43	-0.82	-0.49
68	6806	-0.72	-0.99	-0.73
68	6809	-0.69	-0.96	-0.71
68	6810	-0.56	-0.94	-0.56
68	6811	-0.51	-0.99	-0.45
68	6812	-0.69	-0.96	-0.69

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
68	6813	-0.52	-1.00	-0.50
68	6814	-0.52	-1.00	-0.43
68	8346	-0.55	-0.99	-0.51
68	8347	-0.54	-0.98	-0.51
68	8348	-0.62	-0.99	-0.62
69	6903	-0.62	-0.85	-0.60
69	6904	-0.48	-0.97	-0.41
69	6905	-0.43	-1.00	-0.42
69	6909	-0.42	-0.96	-0.34
69	6910	-0.32	-0.97	-0.22
69	6911	-0.51	-0.96	-0.49
69	6912	-0.39	-0.94	-0.36
69	6913	-0.31	-1.00	-0.15
69	6914	-0.31	-0.96	-0.18
69	6915	-0.43	-0.93	-0.38
69	8418	-0.41	-0.97	-0.38
69	8425	-0.71	-1.00	-0.70
70	7001	-0.12	-0.55	-0.07
70	7002	0.02	0.23	0.00
70	7003.01	0.05	0.35	0.00
70	7003.02	0.09	0.35	0.07
70	7004.01	-0.04	-0.26	0.11
70	7004.02	0.02	-0.51	0.26
70	7005.01	-0.09	-0.82	0.25
70	7005.02	-0.15	-0.86	0.16
71	7101	-0.68	-0.87	-0.63
71	7102	-0.56	-0.99	-0.53
71	7103	-0.53	-1.00	-0.52
71	7104	-0.37	-0.98	-0.32
71	7105	-0.47	-0.99	-0.37
71	7106	-0.56	-1.00	-0.55
71	7107	-0.39	-0.96	-0.36
71	7108	-0.31	-0.97	-0.25
71	7109	-0.51	-1.00	-0.36
71	7110	-0.33	-0.97	-0.28
71	7111	-0.47	-1.00	-0.46
71	7112	-0.26	-0.99	-0.16
71	7113	-0.38	-0.95	-0.29
71	7114	-0.25	-0.98	-0.23
71	7115	-0.34	-0.99	-0.18
72	7201	0.33	0.33	0.56
72	7202	-0.01	-0.25	0.12

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
72	7203	0.29	0.31	0.34
72	7204	0.40	0.90	0.38
72	7205	0.37	0.94	0.32
72	7206	0.47	0.69	0.52
72	7207	0.02	-0.19	0.08
73	7301	-0.28	-0.99	-0.18
73	7302.01	-0.32	-0.98	-0.22
73	7302.02	-0.24	-0.89	-0.06
73	7303	-0.26	-0.99	-0.09
73	7304	-0.25	-0.97	-0.04
73	7305	-0.21	-0.93	-0.13
73	7306	-0.30	-0.99	-0.20
73	7307	-0.38	-0.99	-0.27
74	7401	0.37	0.99	0.27
74	7402	0.44	0.91	0.38
74	7403	0.38	0.96	0.34
74	7404	0.25	0.64	0.23
75	7501	-0.36	-0.90	-0.23
75	7502	0.04	-0.12	0.14
75	7503	0.37	0.74	0.36
75	7504	0.30	0.51	0.30
75	7505	-0.04	-0.50	0.11
75	7506	-0.29	-0.96	-0.12
75	8233.04	-	-	-
76	7608.01	0.07	0.71	-0.08
76	7608.02	0.12	0.96	-0.11
76	7608.03	0.08	0.82	-0.19
76	7705	-	-	-
76	7706.02	-	-	-
76	7707	-	-	-
76	7708	-	-	-
76	7709.02	0.00	0.88	0.00
76	9800	-	-	-
77	301.01	-0.04	0.42	-0.21
77	301.02	-0.12	0.30	-0.29
77	301.03	-0.11	0.44	-0.40
77	301.04	-0.11	0.37	-0.41
77	302	0.22	0.70	0.10
77	303	-0.03	0.47	-0.30
77	304	0.06	0.60	-0.21
77	305	0.14	0.60	0.05
77	306.01	-0.02	0.32	-0.25

Community Area #	Census Tract Number	ICE _{combined}	ICE _{race}	ICE _{income}
77	306.03	-0.17	0.07	-0.40
77	306.04	0.06	0.33	-0.08
77	307.01	-0.08	0.25	-0.33
77	307.02	0.16	0.69	0.02
77	307.03	0.01	0.50	-0.28
77	307.06	0.07	0.42	-0.11
77	308	0.36	0.66	0.26
77	309	0.19	0.72	0.16

Note: Version 1 estimates. See <http://www.healthequitychicago.org> for updates.

References

- Acevedo-Garcia, D., McArdle, N., Hardy, E. F., Crisan, U. I., Romano, B., Norris, D., . . . Reece, J. (2014). The child opportunity index: improving collaboration between community development and public health. *Health Affairs (Millwood)*, *33*(11), 1948-1957. doi:10.1377/hlthaff.2014.0679
- Atkinson, A. B. (1975). *The Economics of Inequality*. Oxford: Clarendon Press.
- Carpiano, R. M., Lloyd, J. E., & Hertzman, C. (2009). Concentrated affluence, concentrated disadvantage, and children's readiness for school: a population-based, multi-level investigation. *Soc Sci Med*, *69*(3), 420-432. doi:10.1016/j.socscimed.2009.05.028
- De Maio, F. G. (2007). Income inequality measures. *Journal of Epidemiology and Community Health*, *61*(10), 849-852.
- Dirksen, J. C., & Prachand, N. G. (2016). *Healthy Chicago 2.0: Partnering to Improve Health Equity: City of Chicago*.
- Finch, B. K., Phuong Do, D., Heron, M., Bird, C., Seeman, T., & Lurie, N. (2010). Neighborhood effects on health: Concentrated advantage and disadvantage. *Health Place*, *16*(5), 1058-1060. doi:10.1016/j.healthplace.2010.05.009
- Gillis, M., Perkins, D. H., Roemer, M., & Snodgrass, D. R. (1996). *Economics of Development*. New York: W.W. Norton & Company.
- Krieger, N., Waterman, P. D., Spasojevic, J., Li, W., Maduro, G., & Van Wye, G. (2016). Public Health Monitoring of Privilege and Deprivation With the Index of Concentration at the Extremes. *Am J Public Health*, *106*(2), 256-263. doi:10.2105/AJPH.2015.302955
- Massey, D. S. (1990). American Apartheid: Segregation and the Making of the Underclass. *American Journal of Sociology*, *96*(2), 329-357.