Codebook – Neighborhood Deprivation Index Data

A Neighborhood Deprivation Index (NDI) for each Census tract in the U.S. was created using factor analysis to identify key variables from 13 measures in the following dimensions of socioeconomic (SES) status: wealth and income, education, occupation, and housing conditions.[1] These 13 variables were obtained from the Census Bureau's 5-year American Community Survey (ACS) data for 2013-2017.

Neighborhood Deprivation Index data tables are available in both Excel and comma delimited text (CSV) file formats. There is a row for each census tract in the 50 U.S. states and the District of Columbia.

In addition to the NDI value, we include the original 13 socioeconomic variables to allow researchers to generate NDI values for their particular study are if desired.

Data tables include the following variables for each tract:

Variable	Format	Description
TractID	Char 11	The fully qualified census tract ID. Includes the state FIPS code (2 chars), the county FIPS code (3 chars) and the tract ID (6 characters). The tract ID has an implied decimal before the last two characters. For example "010102" is referred to in Census tables and descriptions as tract 101.02.
StCoFIPS	Char 5	The state and county FIPS code. Useful for selecting data for a particular county or set of counties.
StAbbr	Char 2	The alphabetic state postal abbreviation. Useful for selecting data for a particular state or set of states.
NDI	Numeric	The Neighborhood Deprivation Index computed using data from all U.S. census tracts. Values range from -3.6 to +2.8. Higher values indicate more neighborhood deprivation (lower socioeconomic status)
NDIQuint	Char 24	Quintiles for the Neighborhood Deprivation Index. Possible values are: "1-Least deprivation": the tract is in the first NDI quintile "2-BelowAvg deprivation": the tract is in the second NDI quintile "3-Average deprivation": the tract is in the third NDI quintile "4-AboveAvg deprivation": the tract is in the fourth NDI quintile "5-Most deprivation": the tract is in the highest NDI quintile "9-NDI not avail": the NDI value is missing for this tract

MedHHInc	Numeric	Median household income (dollars)
		     SES dimension: wealth and income
		     ACS table source: B19013

PctRecvIDR	Numeric	Percent of households receiving dividends, interest, or rental income
		     SES dimension: wealth and income
		     ACS table source: B19054

[1] Diez Roux A V, Mair C, Roux AVD, Mair C, Diez Roux A V, Mair C. Neighborhoods and health. *Ann N Y Acad Sci* 2010; 1186: 125–45.

Variable	Format	Description

PctPubAsst	Numeric	Percent of households receiving public assistance
		    SES dimension: wealth and income
		    ACS table source: B19058

MedHomeVal	Numeric	Median home value (dollars)
		    SES dimension: wealth and income
		    ACS table source: B25077

PctMgmtBusSciArt	Numeric	Percent in a management, business, science, or arts occupation
		    SES dimension: occupation
		    ACS table source: C24060

PctFemHeadKids	Numeric	Percent of households that are female headed with any children under 18
		    SES dimension: housing conditions
		    ACS table source: B11005

PctOwnerOcc	Numeric	Percent of housing units that are owner occupied
		    SES dimension: housing conditions
		    ACS table source: DP04

PctNoPhone	Numeric	Percent of households without a telephone
		    SES dimension: housing conditions
		    ACS table source: DP04

PctNComPlmb	Numeric	Percent of households without complete plumbing facilities
		    SES dimension: housing conditions
		    ACS table source: DP04

PctEducHSPlus	Numeric	Percent with a high school degree or higher
		    SES dimension: education
		    ACS table source: S1501

PctEducBchPlus	Numeric	Percent with a college degree or higher
		    SES dimension: education
		    ACS table source: S1501

PctFamBelowPov	Numeric	Percent of families with incomes below the poverty level
		    SES dimension: wealth and income
		    ACS table source: S1702

PctUnempl	Numeric	Percent unemployed
		    SES dimension: occupation
		    ACS table source: S2301

Vintage 2017 tract IDs are used. These including all tract and county coding changes made through 2017. For details, see https://www.census.gov/programs-surveys/acs/technical-documentation/table-and-geography-changes.html.