

Durham County Social Determinants of Health Dataset Codebook

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Data Sources and Associated Permissions

Source	Abbreviation	Permission	Description	Access Method
National Address Database	NAD	Public Domain	Database of all registered addresses in the US & associated information. For this dataset, the NAD collected data from the North Carolina Center for Geographic Information and Analysis (NCCGIA)	Locally Downloaded
Logitudinal Employer-Household Dynamics Origin-Destination Employment Statistics	LODES	Open Data Commons Attribution License	Contains census tract level information on number of jobs by place of work and by place of residence and worker and job characteristics. Cleaned by the Urban Institute.	Online Link
Census Geocoder	GEO	GNU General Public License	API used to code census tracts onto long/lat Coordinates, accessed via the geocoder library	Python Package Call
500 Cities	500	Public Domain	Model-based small area estimates for 27 measures of chronic disease related to unhealthy behaviors (5), health outcomes (13), and use of preventive services (9). Data were provided by the Centers for Disease Control and Prevention (CDC), Division of Population Health, Epidemiology and Surveillance Branch.	API
DataWorks NC	DataWorks	Public Domain	The DataWorks NC Durham Neighborhood Compass is a quantitative indicators project with qualitative values, integrating data from local government, the Census Bureau and other state and federal agencies. Please note that this data was manually downloaded from the Github page for DataWorks' Neighborhood Compass (under the metric folder).	Locally Downloaded

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Source	Abbreviation	Permission	Description	Access Method
Durham Real Property Database	Property	Public Domain	The Real Property Database is the real estate billing files for all of Durham County. It includes information like maintenance, property value, land use, etc.	Locally Downloaded
Durham Elementary , Middle, and High School Zone Assignments	School Zone	Public Domain	[In progress] GIS files of Durham school assignments based on address. While the elementary school zone assignments are publically available, we had to submit a request for middle school and high school zones. Please refer to README in Github/Box for more information.	Locally Downloaded
NC School Report Cards Dataset	School Performance	Public Domain	School performance information for all schools in North Carolina	Locally Downloaded
IRS Individual Income Tax Statistics	IRS	Public Domain	ZIP Code data show selected income and tax items classified by State, ZIP Code, and size of adjusted gross income. Data are based on individual income tax returns filed with the IRS and are available for Tax Years 1998, 2001, and 2004 through 2016.	Locally Downloaded

Contacts

Database	Contact Name	Information	Notes
NAD	NA	NA	NA
LODES	Graham MacDonald, Chief Data Scientist at Urban Institute.	gmacdonald@urban.org	Urban does not have dedicated staff for answering data queries, so they may be delayed at times in responding.
GEO	NA	NA	NA
500	NA	NA	NA
DataWorks	John Killeen, Executive Director	johnkilleen@dataworks-nc.org	
Property	Kimberly Horton, Technology Support Specialist	khorton@dconc.gov	NA
School Zone	Rob Cushman, GIS Analyst III	rob.cushman@durhamnc.gov 919-560-4122 ext. 33247	Rob mentioned that he was about to retire when we spoke on 8/1/19.
School Performance	NA	NA	NA
IRS	NA	NA	NA

Code Book

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
<p>These addresses were derived from the imperfect merger of NAD and Property. The source variable details where each address was derived from. Please see QC memo for more information.</p> <p>The census_tract variable was coded using the Long/Lat coordinates from NAD via the Census Geocoder.</p>						
Unit	Unit	A group or suite of rooms within a building that are under common ownership or tenancy, typically having a common primary entrance	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
Add_Number	Address Number	The whole number identifier of a location along a thoroughfare or within a defined community	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
AddNum_Suf	Address Number Suffix	An extension of the Address Number that follows it and further identifies a location along a thoroughfare or within a defined area	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
StN_PreDir	Street Name Pre-Directional	Word preceding the Street Name element that indicates the direction taken by the street from an arbitrary starting point or line, or the sector where it is located	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
StN_PreTyp	Street Name Pre-Type	Word or phrase that precedes the Street Name element and identifies a type of thoroughfare in a complete street name	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
StreetName	Street Name	The element of the complete street name that identifies the particular street (as opposed to any street types, directionals, and modifiers)	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
StN_PosTyp	Street Name Post Type	Word or phrase that follows the Street Name element and identifies a type of thoroughfare in a complete street name	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
StN_PosDir	Street Name Post Directional	A word following the Street Name element that indicates the direction taken by the street from an arbitrary starting point or line, or the sector where it is located	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
County	County	Name of county or county-equivalent where the address is located. Proper-case format with no suffix (i.e. Do not include "... County"). For this data set, it is all "Durham"	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
State	State	Name of the state or state equivalent. For this data set, it is all "NC"	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
Zip_Code	Zip Code	For standard street mail delivery (with a corresponding geographic delivery area), the system of 5-digit codes that identifies the individual USPS Post Office associated with an address	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
Inc_Muni	Incorporated Municipality	Name of the incorporated municipality or other general-purpose local governmental unit where the address is located	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
Post_Comm	Postal Community Name	A city name for the ZIP code of an address, as given in the USPS City State file	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
Longitude	Address Longitude	Address Longitude, derived based on point placement	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
Latitude	Address Latitude	Address Latitude, derived based on point placement	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
Nat-Grid_Coord	National Grid Coordinates	National Grid Coordinate, derived based on point placement. Useful for GIS work	NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
Source	Source		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
The following are variables from the Durham Real Property dataset. Note that some columns are actually categorical columns that have been encoded. The keys that denote the meaning of different variables are included in the Property_Categorical_Keys.pdf						
full_combine	Entire Address Combined		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
building_type	Building Type		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
errors	Property/NAD Merge Errors		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
tax_year	Tax Year		Years	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
parcel_ref	Parcel Reference		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
land_use	Land Use Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
tax_district	Tax District Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
subdivision	Subdivision Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property

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Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
neighborhood	Neighborhood Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
date_sold	Date Sold		Years	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
sales_amount	Sales Amount		\$	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
total_value	Total Assessed Value		\$	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
land_size	Map Acres		Acres	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
lv_method	Land Value Method Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
stax_district	Split Tax District Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
lpu_value	Land Present Use Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
land_value	Land Assessed Value		\$	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
year_built	Actual Year Built		Years	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
heated_area	Heated Area		Square Feet	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
built_usage	Building Usage Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
improvement	Improvement Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
repair_state	Building Condition Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
heat	Heat Code		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
bathrooms	Number of Bathrooms		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
half_bathrooms	Number of Half Bathrooms		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
bedrooms	Number of Bedrooms		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
fireplace	Fireplace Present		Binary	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
basement	Basement Present		Binary	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
at-tached_garage	Attached Garage Present		Binary	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
pri-mary_imp	Primary Improvement Count		NA	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
imp_value	Primary Improvement Value		\$	Address Level	8/1/2017 or 01/01/2019	NCCGIA/NAD or Property
EHR_Address	Electronic Health Record Address	The address formatted similar to that of Duke's Electronic Health Record	NA	Address Level	6/7/2019	Self-derived
blockgroup	Census Block-group	It is the smallest geographical unit the census bureau publishes data, derived from address longitude and latitude	NA	Address Level	5/24/2019	Census Geocoder
census_tract	Census Tract	An area roughly equivalent to a neighborhood established by the Bureau of Census for analyzing populations. Derived from address longitude and latitude	NA	Address Level	5/24/2019	Census Geocoder

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
ACCESS2	Current Lack of Health Insurance among adults aged 18-64	Respondents aged 18–64 years who report having no current health insurance coverage divided by respondents aged 18–64 years who report having current health insurance or having no current health insurance	%	Census Tract Level	2016	Behavioral Risk Factor Surveillance System (BRFSS), 500 Cities by extension
ARTHRITIS	Arthritis among adults aged > or = 18 years	Respondents aged > or = 18 years who report having been told by a doctor, nurse, or other health professional that they had arthritis divided by respondents aged > or = 18 years who answered “yes” or “no” to the following question: “Have you ever been told by a doctor, nurse, or other health professional that you have some form of arthritis, rheumatoid arthritis, gout, lupus, or fibromyalgia?” Note that the CDC typically provides this estimate in standard arthritis BRFSS tables produced for each state for odd-numbered years. Unadjusted data are usually presented in these tables to provide actual estimates to help in state-level program planning	%	Census Tract Level	2016	BRFSS, 500 Cities by extension.
BINGE	Binge drinking among adults aged > or = 18 years	Adults aged > or = 18 years who report having five or more drinks (men) or four or more drinks (women) on an occasion in the past 30 days divided by adults aged > or = 18 years who report having a specific number, including zero, of drinks on an occasion in the past 30 days	%	Census Tract Level	2016	BRFSS, 500 Cities by extension

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
BPHIGH	High blood pressure among adults aged > or = 18 years	Respondents aged > or = 18 years who report ever having been told by a doctor, nurse, or other health professional that they have high blood pressure divided by respondents aged > or = 18 years . Women who were told high blood pressure only during pregnancy and those who were told they had borderline hypertension were not included	%	Census Tract Level	2015	BRFSS, 500 Cities by extension
BPMED	Taking medicine for high blood pressure control among adults aged > or =18 years with high blood pressure	Respondents aged > or = 18 years who report taking medicine for high blood pressure divided by respondents aged > or = 18 years who report having been told by a doctor, nurse, or other health professional of having high blood pressure other than during pregnancy	%	Census Tract Level	2015	BRFSS, 500 Cities by extension
CANCER	Cancer (excluding skin cancer) among adults aged > or =18 years	Respondents aged > or = 18 years who report ever having been told by a doctor, nurse, or other health professional that they have any other types (besides skin) of cancer divided by respondents aged > or = 18 years	%	Census Tract Level	2016	BRFSS, 500 Cities by extension

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
CASTHMA	Current asthma prevalence among adults aged > or =18 years	Weighted number of respondents who answer “yes” both to both of the following questions: “Have you ever been told by a doctor, nurse, or other health professional that you have asthma?” and the question “Do you still have asthma?” divided by weighted number of respondents to BRFSS (or National Survey of Children’s Health) excluding “don’t know” and “refused” responses to the question “Have you ever been told you have asthma?”	%	Census Tract Level	2016	BRFSS survey for adults (all states) and for children (some states). National Survey of Children’s Health (NSCH) for those states not collecting child data with BRFSS. 500 Cities by extension
CHD	Coronary heart disease among adults aged > or = 18 years	Respondents aged > or = 18 years who report ever having been told by a doctor, nurse, or other health professional that they had angina or coronary heart disease divided by Respondents aged > or = 18 years who report or do not report ever having been told by a doctor, nurse, or other health professional that they had angina or coronary heart disease	%	Census Tract Level	2016	Prevalence data from BRFSS (numerator) and population estimates from the U.S. Census Bureau (denominator). 500 Cities by extension

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
CHECKUP	Visits to doctor for routine checkup within the past year among adults aged > or =18 years	Respondents aged > or = 18 years who report having been to a doctor for a routine checkup (e.g., a general physical exam, not an exam for a specific injury, illness, condition) in the previous year divided by respondents aged > or = 18 years who report or do not report having been to a doctor for a routine checkup in the previous year	%	Census Tract Level	2016	BRFSS, 500 Cities by extension
CHOLSCREE	Cholesterol screening among adults aged > or =18 years	Respondents aged > or = 18 years who report having their cholesterol checked within the previous 5 years divided by respondents aged > or = 18 years	%	Census Tract Level	2015	BRFSS, 500 Cities by extension
COLON_SCREEN	Fecal occult blood test, sigmoidoscopy, or colonoscopy among adults aged 50–75 years	Respondents aged 50–75 years who report having had 1) a fecal occult blood test (FOBT) within the past year, 2) a sigmoidoscopy within the past 5 years and a FOBT within the past 3 years, or 3) a colonoscopy within the past 10 years divided by respondents aged 50–75 years who report ever having or never having an FOBT, sigmoidoscopy, or colonoscopy	%	Census Tract Level	2016	BRFSS, 500 Cities by extension

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
COPD	Chronic obstructive pulmonary disease among adults aged > or =18 years	Respondents aged > or = 18 years who report ever having been told by a doctor, nurse, or other health professional that they had chronic obstructive pulmonary disease (COPD), emphysema, or chronic bronchitis divided by respondents aged > or = 18 years who report or do not report ever having been told by a health professional that they had COPD, emphysema, or chronic bronchitis	%	Census Tract Level	2016	Prevalence data from BRFSS (numerator) and population estimates from the U.S. Census Bureau (denominator). 500 Cities by extension
COREM	Older adult men aged > or =65 years who are up to date on a core set of clinical preventive services by age and sex	Number of men aged > or = 65 years reporting having received all of the following: an influenza vaccination in the past year; a PPV ever; and either a fecal occult blood test (FOBT) within the past year, a sigmoidoscopy within the past 5 years and a FOBT within the past 3 years, or a colonoscopy within the past 10 years divided by Number of men aged > or = 65 years	%	Census Tract Level	2016	BRFSS, 500 Cities by extension

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
COREW	Older adult women aged > or =65 years who are up to date on a core set of clinical preventive services by age and sex	Number of women aged > or = 65 years reporting having received all of the following: an influenza vaccination in the past year; a pneumococcal vaccination (PPV) ever; either a fecal occult blood test (FOBT) within the past year, a sigmoidoscopy within the past 5 years and a FOBT within the past 3 years, or a colonoscopy within the previous 10 years; and a mammogram in the past 2 years divided by number of women aged > or = 65 years	%	Census Tract Level	2016	BRFSS, 500 Cities by extension
CSMOKING	Current smoking among adults aged > or =18 years	Respondents aged > or = 18 years who report having smoked > or = 100 cigarettes in their lifetime and currently smoke every day or some days divided by respondents aged > or = 18 years who reported information about cigarette smoking	%	Census Tract Level	2016	BRFSS, 500 Cities by extension
DENTAL	Visits to dentist or dental clinic among adults aged > or =18 years	Respondents aged > or = 18 years who report having been to the dentist or dental clinic in the previous year divided by Respondents aged > or = 18 years (exclude unknowns and refusals)	%	Census Tract Level	2016	BRFSS, 500 Cities by extension

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
DIABETES	Diagnosed diabetes among adults aged > or =18 years	Respondents aged > or = 18 years who report ever been told by a doctor, nurse, or other health professional that they have diabetes other than diabetes during pregnancy divided by respondents aged > or = 18 years who report or do not report ever been told by a health professional that they have diabetes	%	Census Tract Level	2016	BRFSS, 500 Cities by extension
HIGHCHOL	High cholesterol among adults aged > or =18 years	Respondents aged > or = 18 years who report having been told by a doctor, nurse, or other health professional that they had high cholesterol divided by respondents aged > or = 18 years who report having their cholesterol checked within the past 5 years	%	Census Tract Level	2015	BRFSS, 500 Cities by extension
KIDNEY	Chronic kidney disease among adults aged > or =18 years	Respondents aged > or = 18 years who report ever having been told by a doctor, nurse, or other health professional that they have kidney disease divided by respondents aged > or = 18 years who report or do not report ever having been told by a doctor, nurse, or other health professional that they have kidney disease	%	Census Tract Level	2016	BRFSS, 500 Cities by extension
LPA	No leisure-time physical activity among adults aged > or =18 years	Respondents who answered “no” to the following question: “During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?” divided by number of adults aged > or = 18 years who reported any or no physical activity in the past month	%	Census Tract Level	2016	BRFSS, 500 Cities by extension
MAM-MOUSE	Mammography use among women aged 50-74 years	Female respondents aged 50–74 years who report having had a mammogram within the previous 2 years divided by female respondents aged 50–74 years who report ever having or never having had a mammogram (excluding unknowns and refusals)	%	Census Tract Level	2016	BRFSS, 500 Cities by extension

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
MHLTH	Mental health not good for > or =14 days among adults aged > or =18 years	Respondents aged > or = 18 years who report 14 or more days during the past 30 days during which their mental health was not good divided by respondents aged > or = 18 years who report or do not report the number of days during the past 30 days during which their mental health was not good	%	Census Tract Level	2016	BRFSS, 500 Cities by extension
OBESITY	Obesity among adults aged > or =18 years	Respondents aged > or = 18 years who have a body mass index (BMI) > or = 30.0 kg/m ² calculated from self-reported weight and height divided by respondents aged > or = 18 years for whom BMI can be calculated from their self-reported weight and height. The following exclusions apply: Height - data from respondents measuring <3 ft or > or = 8 ft, Weight - data from respondents weighing <50 lbs or > or = 650 lbs, BMI - data from respondents with BMI <12 kg/m ² > or = 100 kg/m ² , and Pregnant women	%	Census Tract Level	2016	BRFSS, 500 Cities by extension
PAPTEST	Papanicolaou smear use among adult women aged 21-65 years	Female respondents aged 21–65 years who do not report having had a hysterectomy and who report having had a Papanicolaou (Pap) smear within the previous 3 years divided by female respondents aged 21–65 years who do not report having had a hysterectomy and who report ever having or never having had a Pap smear	%	Census Tract Level	2016	BRFSS, 500 Cities by extension

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
PHLTH	Physical health not good for > or =14 days among adults aged > or =18 years	Respondents aged > or = 18 years who report 14 or more days during the past 30 days during which their physical health was not good divided by respondents aged > or = 18 years who report or do not report the number of days during the past 30 days during which their physical health was not good	%	Census Tract Level	2016	BRFSS, 500 Cities by extension
SLEEP	Sleeping less than 7 hours among adults aged > or =18 years	Respondents aged > or = 18 years who report usually getting insufficient sleep (<7 hours on average, during a 24-hour period) divided by respondents aged > or = 18 years who report 0–24 hours of sleep	%	Census Tract Level	2016	BRFSS, 500 Cities by extension
STROKE	Stroke among adults aged > or =18 years	Respondents aged > or = 18 years who report ever having been told by a doctor, nurse, or other health professional that they have had a stroke divided by Respondents aged > or = 18 years who report or do not report ever having been told by a doctor, nurse, or other health professional that they have had a stroke	%	Census Tract Level	2016	Prevalence data from BRFSS (numerator) and population estimates from the U.S. Census Bureau (denominator). 500 Cities by extension

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
TEETHLOST	All teeth lost among adults aged > or =65 years	Respondents aged > or = 65 years who report having lost all of their natural teeth because of tooth decay or gum disease divided by Respondents aged > or = 65 years	%	Census Tract Level	2016	BRFSS, 500 Cities by extension

The following measures are from DataWorks. There are two possible post-fixes after each variable. The first indicates the year it was measured, and an optional second notes the value as the margin of error (`_moe`). For example, `MEDINC_11_moe` is the margin of error for median household income in 2011. Please note that with all measurements from the American Community Survey in the Neighborhood Compass, this data represents 5 years' worth of surveying. With each annual update, the 5-year period advances by dropping one year and incorporating the next. For this reason, annual releases of this measurement are not suitable for true time series comparison until no overlap exists among the survey periods.

The data included in the following two measures reflect active voters only. The Board of Elections codes voters 'inactive' when their most recent address may be inaccurate. Due to the potentially inaccurate addresses of inactive voters, this spatial analysis relies only on the active voters. As of January 2014, there were 176,148 active voters out of a total 200,885 registered in Durham County.

PTGNRL	General Election Participation	Percent of active voters participating in general elections	%	Block group Level	5/22/2019	Durham County Board of Elections
PTPRIM	Primary Election Participation	Percent of active voter participating in primary elections	%	Block group Level	5/22/2019	Durham County Board of Elections

For the following five measures, please note that ethnicity is a separate characteristic from race and individuals reporting their ethnicity to be Latino or Hispanic may also report a race description such as White or African American.

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
PTASNL	Asian	The percent of the total population reporting their race to be Asian and ethnicity as not Latino or Hispanic.	%	Block group Level	5/22/2019	US 2010, Census 2010 tract-normalized population data; ACS for years between each decennial Census.
PTBLKNL	Black or African American	The percent of the total population reporting their race to be Black or African American and ethnicity as not Latino or Hispanic.	%	Block group Level	5/22/2019	US 2010, Census 2010 tract-normalized population data; ACS for years between each decennial Census.
PTLAT	Hispanic/Latino	The percent of the total population reporting their ethnicity to be Latino or Hispanic.	%	Block group Level	5/22/2019	US 2010, Census 2010 tract-normalized population data; ACS for years between each decennial Census.

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
PTWHNL	White or Caucasian	The percent of the total population reporting their race to be White and ethnicity as not Latino or Hispanic.	Years	Block group Level	5/22/2019	US 2010, Census 2010 tract-normalized population data; ACS for years between each decennial Census
PTOTHNL	Other Race	The percent of the total population reporting their race to be American Indian, Hawaiian and Pacific Islander, Other Race, Two or More Races and their ethnicity as not Latino or Hispanic.	%	Block group Level	5/22/2019	US 2010, Census 2010 tract-normalized population data; ACS for years between each decennial Census
MEDAGE	Median Age	The age at the midpoint of the population. Half of the population is older than this age, and half is younger.	Number of People	Block group Level	5/22/2019	ACS

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
POP	Population	This data is from the 2010 Decennial Census. The Neighborhood Compass will report 100% population counts from the 2010 Decennial Census until population estimates for blockgroups and incorporate mid-decade updates from the ACS for Census tracts. This will allow for the best-available data at the sub-county level.	Number of People per Square Mile	Block group Level	5/22/2019	US 2010, Census 2010 tract-normalized population data; ACS for years between each decennial Census.
POPDENS	Population Density	This measurement provides the population per square mile based on the 2010 Census using blockgroups.	Simpson Index of Diversity	Block group Level	5/22/2019	U.S. Decennial Census, 2010
REDIV	Race/Ethnic Diversity	The calculation of this measurement uses the Simpson Index of Diversity, which measures the variety and evenness of different groups. The component numbers for this measure are blockgroup counts of White (not Hispanic), Black or African American (not Hispanic), Asian (not Hispanic), Hispanic or Latino/a, Two or More Races (not Hispanic), and Other (not Hispanic). A higher number in this measure reflects both a higher number of race/ethnicity categories present and more people of each identity present. A diversity measurement of 1 would mean all race and ethnicity identities are present and equally represented, while a measure of 0 would indicate only one race or ethnicity is present.	%	Block group Level	5/22/2019	U.S. Decennial Census, 2010
PT65UP	Retirement-Age Population	The percent of population 65 years of age and older is calculated using the same Decennial Census counts of population as those used for total population, population density, and race and ethnicity. The population 65 years and older is divided by the total population for each blockgroup.	%	Block group Level	5/22/2019	U.S. Decennial Census

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
PTUND18	Youth Population	The percent of population under 18 years of age is calculated using the same Decennial Census counts of population as those used for total population, population density, and race and ethnicity. The population under 18 years of age is divided by the total population for each blockgroup.	%	Block group Level	5/22/2019	U.S. Decennial Census
MEAN-RPMT	Average Residential Building Permit Value	The average value of residential building permits for each boundary. These permits include new construction as well as renovations and exclude demolitions. As with the value of permits when normalized by square miles, the average permit values shown here are skewed strongly toward areas of Durham that see substantial private investment in apartment building construction.	\$	Block group Level	5/22/2019	Durham City/County Inspections Department
CPMTS	Commercial Building Permit Values Per Sq Mile	The value of commercial, business, and industrial building permits for each boundary divided by the area (in square miles) of each. These permits include new construction as well as renovations and exclude demolitions.	Permits per Square Mile	Block group Level	5/22/2019	Durham City/County Inspections Department
COB	Commercial Certificates of Occupancy per Sq Mile	COs included here are the following types: business, mercantile, factory industrial, and mixed use commercial. The count of these per neighborhood or blockgroup is divided by the area in square miles within the City/County Inspections districts.	Certificate per Square Mile	Block group Level	5/22/2019	Durham City/County Inspections Department
LUDIV	Land Use Diversity	The calculation of this measurement uses the Simpson Index of Diversity, which measures the variety and evenness of different groups. A higher number in this measure reflects both a higher number of land use types in each area and a more balanced number of properties among them. Parcels are categorized as: agricultural, residential, commercial, recreation, industrial, community services, public services (utilities), wild and forested lands. A measure of 1 would mean each of the possible types of land use is present and that there is an equal number of each. A measure of 0 would mean only one type is present.	Simpson Index of Diversity	Block group Level	5/22/2019	Durham County Tax Administration

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
MEDINC	Median Household Income	The household income at the midpoint of all households. Half of the households in this Census tract earn a higher annual income and half earn a lower annual income. These amounts are inflation-adjusted for 2010 using the Consumer Price Index for all items, referencing the South urban areas (table CUUR0300SA0).	\$	Block group Level	5/22/2019	US 2010, Census 2010 tract-normalized sample data
PCI	Per Capita Income	Average obtained by dividing aggregate income by total population of an area. These amounts are inflation-adjusted for 2011.	\$	Block group Level	5/22/2019	ACS
RPMTS	Residential Building Permit Value Per Sq Mile	The value of residential building permits for each boundary divided by the area (in square miles) of each. These permits include new construction as well as renovations and exclude demolitions. Even when normalized by square miles, as these numbers are, strong outliers skew the data. Some areas of Durham receive tremendous amounts of housing investment as private apartment development continues near downtown.	Permit Value per Square Mile	Block group Level	5/22/2019	Durham City/County Inspections Department
COR	Residential Certificates of Occupancy per Sq Mile	COs included here are the following types: residential, single family, townhouse, condominium, duplex, manufactured homes, and mixed-use residential. The count of these per neighborhood or blockgroup is divided by the area in square miles within the City/County Inspections districts.	Certificates per Square Mile	Block group Level	5/22/2019	Durham City/County Inspections Department
PCTSSI	Supplemental Security Income	Unclear/Not specified on DataWorks's Website	%	Census Tract Level	5/22/2019	ACS
CCC	Child Care Centers per Square Mile	This measure includes both child care centers and family child care homes which are licensed by the state of North Carolina's Division of Child Care and Early Development. It does not include unlicensed locations. Data is collected each year in April and reflects a snapshot of the calendar year's licensed centers.	Centers per Square Mile	Block group Level	5/22/2019	NC Division of Child Care and Early Development

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
CC45	Child Care Centers with 4 or 5 Star Ratings	This measure includes both child care centers and family child care homes which are licensed by the state of North Carolina's Division of Child Care and Early Development. It does not include unlicensed locations. Data is collected each year in April and reflects a snapshot of the calendar year's licensed centers.	%	Block group Level	5/22/2019	NC Division of Child Care and Early Development
BACH	Percent of Adults with a Bachelors Degree or More	Along with other tract data from US 2010 included here, this measure is derived from 1970-2010 US Census Bureau surveys for 2010-normalized Census tract boundaries.	%	Census Tract Level	5/22/2019	US 2010, Census 2010 tract-normalized sample data
VCODE	Automotive Code Violations	The number of automotive code violations divided by the square miles of each blockgroup that lie within the City boundary. This measurement includes abandoned and hazardous, as well as junked vehicle violations. It excludes calls found to be not in violation. This measurement reflects a City-only service and parts of Durham County are not represented by this data.	Violations per Square Mile	Block group Level	5/22/2019	City of Durham Neighborhood Improvement Services
KWH	Avg. Monthly Household Electricity Use	This data is derived from household energy use for Duke Energy customers throughout Durham County for the years 2013-2014. Household use is averaged for each blockgroup for each month of the calendar year and then averaged across the year as well. The numbers reported here are calendar year averages.	Kiloewatt Hours	Block group Level	5/22/2019	Duke Energy
PCTIMP	Impervious Area	This measurement is derived from 2009-2011 National Agricultural Imagery Program one-meter digital photography for the EPA EnviroAtlas, and reports only on the urbanized area of Durham County. It represents the percent of total land within each block group that is impervious and not covered by tree canopy.	%	Block group Level	5/22/2019	Environmental Protection Agency, EnviroAtlas

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
PCTC30	Long Commute Times	This data includes all those commuting to the workplace, whether in personal vehicles, bicycles, walking or by public transit. As of 2010, the Durham County mean commuting time was 21.7 minutes.	%	Block group Level	5/22/2019	ACS
DRALONE	Single-Occupancy Commuters	This data indicates the percentage of surveyed residents who commute by driving a personal vehicle such as a car, truck or van with no additional passengers.	%	Block group Level	5/22/2019	ACS
PCTTREE	Tree Coverage	This measurement is derived from 2009-2011 National Agricultural Imagery Program one-meter digital photography for the EPA EnviroAtlas, and reports only on the urbanized area of Durham County. It represents the percent of total land cover within each block group that is tree canopy, whether in forests, along streets, or individual trees.	%	Block group Level	5/22/2019	Environmental Protection Agency, EnviroAtlas
WCODE	Unmaintained Property Violations per Sq Mile	The number of unmaintained property violations divided by the square miles of each blockgroup that lie within the City boundary. This measurement includes all unmaintained property ('weedy lot') violations, not including calls found to be not in violation or those involving commercial properties. This measurement, along with residential building code violations and abandoned, hazardous or junked vehicles reflect a City-only service and parts of Durham County are not represented by this data.	Violations per Square Mile	Block group Level	5/22/2019	City of Durham Neighborhood Improvement Services
AVEAGE	Average Age of Death	The average age of death here is reported for 2009 (reflecting records from 2005-2009) and 2014 (reflecting records from 2010-2014).	Years	Block group Level	5/22/2019	North Carolina State Center for Health Statistics

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
<p><i>For the following 24 measures (those related to CKD, diabetes, heart attacks, and strokes), please note that this information is from Duke Health and Lincoln Community Health Center, provided by Duke's Center for Community and Population Health Improvement. Furthermore, please note that to determine metrics for a particular year, Duke Health Technology only includes adult patients who had an encounter in that same calendar year. When a patient has an interaction with a healthcare provider, this is called an encounter. An encounter can be a single, brief event (such as a regular primary care appointment) or it can be across multiple days (such as a hospital stay). If a patient had a hospitalization that lasted multiple days across two calendar years (e.g. 12/15/15 – 1/15/16), DHT used the discharge date to determine their inclusion.</i></p>						
CKD_ TOTAL	Chronic Kidney Disease Rate (Adult Popula- tion)	These chronic kidney disease rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Rates selected for inclusion in this site are those matching CDC guidelines as reported by Duke Health.	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
CKD_ ASIAN	Chronic Kidney Disease Rate (Asian Popula- tion)	These chronic kidney disease rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Rates selected for inclusion in this site are those matching CDC guidelines as reported by Duke Health.	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
CKD_ BLACK	Chronic Kidney Disease Rate (Black or African American Popula- tion)	These chronic kidney disease rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Rates selected for inclusion in this site are those matching CDC guidelines as reported by Duke Health.	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
CKD_ FEMALE	Chronic Kidney Disease Rate (Female)	These chronic kidney disease rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Rates selected for inclusion in this site are those matching CDC guidelines as reported by Duke Health.)	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
CKD_ HISPANIC	Chronic Kidney Disease Rate (Hispanic or Latino/a Popula- tion)	These chronic kidney disease rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Rates selected for inclusion in this site are those matching CDC guidelines as reported by Duke Health.)	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
CKD_ MALE	Chronic Kidney Disease Rate (Male)	These chronic kidney disease rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Rates selected for inclusion in this site are those matching CDC guidelines as reported by Duke Health.	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
CKD_ WHITE	Chronic Kidney Disease Rate (White Popula- tion)	These chronic kidney disease rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Rates selected for inclusion in this site are those matching CDC guidelines as reported by Duke Health.	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
DIA- BETES_ TOTAL	Diabetes Rate (Adult Popula- tion)	These type 2 diabetes rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
DIA-BETES__ASIAN	Diabetes Rate (Asian Population)	These type 2 diabetes rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
DIA-BETES__BLACK	Diabetes Rate (Black or African American Population)	These type 2 diabetes rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
DIA-BETES__FEMALE	Diabetes Rate (Female)	These type 2 diabetes rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
DIA-BETES__HISPANIC	Diabetes Rate (Hispanic or Latino/a Population)	These type 2 diabetes rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
DIA-BETES__MALE	Diabetes Rate (Male)	These type 2 diabetes rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
DIA-BETES_WHITE	Diabetes Rate (White Population)	These type 2 diabetes rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
HEARTATTACK_TOTAL	Heart Attack (Adult Population)	Heart attack or MI diagnoses are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Heart attack or MI incidents are those coded as ICD 410.01, 410.11, 410.21, 410.31, 410.41, 410.51, 410.61, 410.71, 410.81, 410.91, I21, I22 and I25.2.	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
HEARTATTACK_BLACK	Heart Attack (Black or African American Population)	Heart attack or MI diagnoses are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Heart attack or MI incidents are those coded as ICD 410.01, 410.11, 410.21, 410.31, 410.41, 410.51, 410.61, 410.71, 410.81, 410.91, I21, I22 and I25.2.	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
HEARTATTACK_FEMALE	Heart Attack (Female)	Heart attack or MI diagnoses are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Heart attack or MI incidents are those coded as ICD 410.01, 410.11, 410.21, 410.31, 410.41, 410.51, 410.61, 410.71, 410.81, 410.91, I21, I22 and I25.2.	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
HEARTATTACK_MALE	Heart Attack (Male)	Heart attack or MI diagnoses are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Heart attack or MI incidents are those coded as ICD 410.01, 410.11, 410.21, 410.31, 410.41, 410.51, 410.61, 410.71, 410.81, 410.91, I21, I22 and I25.2.	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
HEARTATTACK_WHITE	Heart Attack (White Population)	Heart attack or MI diagnoses are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017). Heart attack or MI incidents are those coded as ICD 410.01, 410.11, 410.21, 410.31, 410.41, 410.51, 410.61, 410.71, 410.81, 410.91, I21, I22 and I25.2.	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
STROKE_TOTAL	Stroke (Adult Population)	These stroke rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Block group Level	5/22/2019	Duke Health and Lincoln Community Health Center
STROKE_BLACK	Stroke (Black or African American Population)	These stroke rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
STROKE_FEMALE	Stroke (Female)	These stroke rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
STROKE_MALE	Stroke (Male)	These stroke rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center
STROKE_WHITE	Stroke (White Population)	These stroke rates are based on health care visits documented in this combined dataset, including a total of 169,115 adults of a countywide total of 245,572 (2017).	%	Census Tract Level	5/22/2019	Duke Health and Lincoln Community Health Center

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
CLINIC	Homes Near Health Care Clinics	Clinic locations are current as of May 2018 and sourced from the Durham County Social Services Department, Lincoln Community Health and Duke Division of Community Health. Households are identified in this case as parcels with dwelling units and the 1/4 mile distance is Euclidean, or as-the-crow-flies. The rate is calculated by dividing the number of dwelling units within a 1/4 mile of health clinics by the total number of dwelling units in the blockgroup.	%	Census Tract Level	5/22/2019	Durham County Social Services, Lincoln Community Health Center, Duke Division of Community Health, Durham County Tax Administration, and City-County Planning
RAVGYR	Average Year of Residential Construction	The average age of all residential units - including single-family, multi-family, townhouse and all other residential categories.	Year of Construction	Block group Level	5/22/2019	Durham County Tax Administration
UNFOWN	Cost-Burdened Mortgage Holders	This includes selected monthly ownership costs such as mortgage or similar debts, taxes, insurance, utilities, and condo or homeowners fees.	%	Block group Level	5/22/2019	ACS
UNFRENT	Cost-Burdened Renters	Gross rent as a percentage of household income is a computed ratio of monthly gross rent to monthly household income.	%	Block group Level	5/22/2019	ACS

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
MED-GRENT	Median Gross Rent	The median gross rent is at the midpoint of all rent costs for each neighborhood. Half of the rental units in this Census tract cost more and half cost less. Gross rent includes the contract rent plus estimated monthly costs of utilities and heating fuels if these are paid for by the renter (ACS).	\$	Block group Level	5/22/2019	ACS
MEDHV	Median Home Value	The home value at the midpoint of all home values. Half of the homes in this Census tract are valued higher and half valued lower. These amounts are inflation-adjusted for 2010 using the Consumer Price Index for all items, referencing the South urban areas (table CUUR0300SA0).	\$	Census Tract Level	5/22/2019	US 2010, Census 2010 tract-normalized sample data
HMINC	Median Home-buyer Income	Dollar values are adjusted to most-recent-year dollars to offer a real comparison in household wealth. Records included in this analysis are for originated, owner-occupant mortgages only.	\$	Census Tract Level	5/22/2019	Home Mortgage Disclosure Act Database, Consumer Financial Protection Bureau.
RCODE	Minimum Housing Code Violations per Square Mile	The number of minimum housing code violations divided by the square miles of each blockgroup that lie within the City boundary. This measurement includes all minimum housing code violations, excluding calls found to be not in violation. This does include orders to repair, demolish, unsafe structures, and boarded properties.	Violations per Square Mile	Block group Level	5/22/2019	City of Durham Neighborhood Improvement Services
PRUNSD	Poor or Unsound State of Repair	State of repair for all properties is reported in 5 categories in the Tax Administration's property records. The five categories are good, normal, fair, poor, and unsound. The latter two are defined as follows: poor, showing marked deterioration; unsound, may be unfit for habitation or condemned. For the measure reported here, these two categories are combined.	%	Block group Level	5/22/2019	Durham County Tax Administration

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
PCTRENT	Renter-Occupied Housing	All occupied units which are not owner occupied, whether they are rented for cash rent or occupied without payment of cash rent, are classified as renter-occupied. Renter-occupied status also applies to units in continuing care arrangements, such as assisted living.	%	Block group Level	5/22/2019	ACS
SUMEJECT	Summary Ejectments Per Square Mile	DataWorks acquires civil process records from the Durham County Sheriff's Department for use at the neighborhood level. These are records of the Sheriff's Department notifications to tenants and do not include any personally-identifiable information. The number of these summary ejectment filings per Census blockgroup is divided by the area of the blockgroup in square miles. NOTE: Summary ejectment counts published here are revised as of May 17, 2019. These counts represent a modest increase across the county per year with the largest change (an additional 203 summary ejectments) in 2013. Among the blockgroups of the county, these new counts vary from previous summaries published here, with 81% of blockgroups seeing less than a 10-count change in any given year. These Compass summaries are now managed within our databases to ensure future stability in counts and reproducibility. To learn more about this change and how we manage evictions data contact tech@dataworks-nc.org.	Evictions per Square Mile	Block group Level	5/22/2019	Durham County Sheriff's Department
REVAL	Tax Value Change	This rate of change is derived from parcel point data from 2014 (previous to the most recent property tax revaluation) and 2016. 2015 records were not used for the before-and-after comparison because many but not all records for 2015 parcels already included revalued estimates and the appeal process had not yet begun. The number reported here is a median rate of change for every property in a blockgroup. Properties with zero value in 2014 or zero values in both years were excluded from this calculation to prevent skewing by outliers.	%	Block group Level	5/22/2019	Durham County Tax Administration

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
BIKEWK	Commuting to Work by Bicycle	Unclear/Not specified on DataWorks's Website	%	Block group Level	5/22/2019	ACS
PROX-BANK	Homes Near Banks or Credit Unions	This measurement includes both commercial bank locations and credit unions. These are identified primarily by North American Industry Classification System (NAICS) codes 52211 and 52213 and then conducting a qualitative scan of additional community businesses. Households are identified in this case as parcels with dwelling units and the 1/4 mile distance is Euclidean, or as-the-crow-flies. The rate is calculated by dividing the number of dwelling units within a 1/4 mile of banks or credit unions by the total number of dwelling units in the blockgroup. Which blockgroup a parcel belongs to is determined by where its centroid is placed.	%	Block group Level	5/22/2019	City of Durham Transportation, Tax Administration/ City-County GIS
PROXBUS	Homes Near Bus Stops	Households include all residential units, not just residential parcels. Bus stop locations used in this calculation are those active during the spring of each calendar year. Households are identified in this case as parcels with dwelling units and the 1/4 mile distance is Euclidean, or as-the-crow-flies. The rate is calculated by dividing the number of dwelling units within a 1/4 mile of bus stops by the total number of dwelling units in the blockgroup. Which blockgroup a parcel belongs to is determined by where its centroid is placed.	%	Block group Level	5/22/2019	GoTriangle and City-County GIS

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
PROXCF	Homes Near Fast Food & Convenience Stores	Fast food and convenience store locations include fast food chains, gas station/convenience stores, dollar stores and pizza places. These are identified first by using North American Industry Classification System (NAICS) codes for convenience stores and fast food in the InfoUSA data set and then conducting a qualitative scan of additional community businesses. Households are identified in this case as parcels with dwelling units and the 1/4 mile distance is Euclidean, or as-the-crow-flies. The rate is calculated by dividing the number of dwelling units within a 1/4 mile of these food retailers by the total number of dwelling units in the blockgroup. Which blockgroup a parcel belongs to is determined by where its centroid is placed.	%	Block group Level	5/22/2019	City of Durham Transportation, DataWorks NC
PROXGR	Homes Near Grocery Stores	Full service grocers include chain grocery stores and independent full-service stores but do not include farmers' markets. Full service grocers are identified primarily by North American Industry Classification System (NAICS) code 44511 and then conducting a qualitative scan of additional community businesses. Households are identified in this case as parcels with dwelling units and the 1/4 mile distance is Euclidean, or as-the-crow-flies. The rate is calculated by dividing the number of dwelling units within a 1/4 mile of grocers by the total number of dwelling units in the blockgroup. Which blockgroup a parcel belongs to is determined by where its centroid is placed.	%	Block group Level	5/22/2019	City of Durham Transportation, DataWorks NC

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
PROXPH	Homes Near Pharmacies	Pharmacies include traditional storefront locations of independent and chain drug stores, as well as big-box retail locations. These are identified primarily by North American Industry Classification System (NAICS) code 44611 and then conducting a qualitative scan of additional community businesses. Households are identified in this case as parcels with dwelling units and the 1/4 mile distance is Euclidean, or as-the-crow-flies. The rate is calculated by dividing the number of dwelling units within a 1/4 mile of pharmacies by the total number of dwelling units in the blockgroup. Which blockgroup a parcel belongs to is determined by where its centroid is placed.	%	Block group Level	5/22/2019	City of Durham Transportation, Tax Administration/ City-County GIS
SWTORD	Sidewalks to Roadways	The intention of this measurement is to indicate how well neighborhood roads serve pedestrians. Pedestrian or bike paths not adjacent to roadways are not among the sidewalks counted here. Areas reporting 'N/A' are outside City limits and do not contain annexed communities - the City does not maintain or build sidewalks in those areas.	%	Block group Level	5/22/2019	City of Durham Public Works and Transportation
WLKWK	Walking to Work	Unclear/Not specified on DataWorks's Website.	%	Block group Level	5/22/2019	ACS
WKHOME	Working from Home	Unclear/Not specified on DataWorks's Website	%	Block group Level	5/22/2019	ACS
D_SQM	Drug Crimes per Square Mile	Drug-related crimes include all incidents involving drug and paraphernalia manufacturing, distributing, and possession charges. For more detailed Durham crime reporting visit RAIDS Online.	Incidents per Square Mile	Block group Level	5/22/2019	Durham Police Department and Durham County Sheriff

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
P_SQM	Property Crimes per Square Mile	Property crimes are commonly reported with parts 1 and 2 separate. This measurement is different, including all part 1 property crimes and these part 2 crimes: fraud, forgery, embezzlement, counterfeiting, stolen property and vandalism. The number of property crimes occurring in each boundary is divided by the area (in square miles) of the boundary, rather than the population. This is intended to control for how crime often happens in areas that are less populated. For more detailed Durham crime reporting visit RAIDS Online.	Incidents per Square Mile	Block group Level	5/22/2019	Durham Police Department and Durham County Sheriff
V_SQM	Violent Crimes per Square Mile	Violent crimes are commonly reported with parts 1 and 2 separate. This measurement is different, including all part 1 violent crimes and these part 2 crimes: simple assaults, certain sex offenses, child abuse and kidnapping. The number of these violent crimes occurring in each boundary is divided by the area (in square miles) of the boundary, rather than the population. This is intended to control for how crime often happens in areas that are less populated. For more detailed Durham crime reporting visit RAIDS Online.	Incidents per Square Mile	Block group Level	5/22/2019	Durham Police Department and Durham County Sheriff

These measures are from the LODES Dataset. Please note that there is one possible prefix before each variable, indicating that the measure is from the WAC or RAC data set, and one possible post-fix indicating the year of the measure. For example, rac_NumJobs_-1250_02 indicates the number of jobs by the census block where the employee lives that pay \$1250/month or less for 2002. There are no error/confidence values for this dataset. Residence Area Characteristics (RAC) is the total number of jobs by the census block where the employee lives. Workplace Area Characteristics (WAC) is the total number of jobs by the census block where the employee works.

TotNum _Jobs	NA	Total number of jobs	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _<29	NA	Number of jobs for workers age 29 or younger	Number of Jobs	Census Tract Level	6/6/2019	LODES

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
NumJobs _30-54	NA	Number of jobs for workers age 30 to 54	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _55+	NA	Number of jobs for workers age 55 or older	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _<1250	NA	Number of jobs with earnings \$1250/month or less	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _1251-3333	NA	Number of jobs with earnings \$1251/month to \$3333/month	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _3333+	NA	Number of jobs with earnings greater than \$3333/month	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _AFFH	NA	Number of jobs in NAICS sector 11 (Agriculture, Forestry, Fishing and Hunting)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _MQOG	NA	Number of jobs in NAICS sector 21 (Mining, Quarrying, and Oil and Gas Extraction)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _Util	NA	Number of jobs in NAICS sector 22 (Utilities)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _Const	NA	Number of jobs in NAICS sector 23 (Construction)	Number of Jobs	Census Tract Level	6/6/2019	LODES

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
NumJobs _Manuf	NA	Number of jobs in NAICS sector 31-33 (Manufacturing)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _WSale	NA	Number of jobs in NAICS sector 42 (Wholesale Trade)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _RSale	NA	Number of jobs in NAICS sector 44-45 (Retail Trade)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _TrWa	NA	Number of jobs in NAICS sector 48-49 (Transportation and Warehousing)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _Info	NA	Number of jobs in NAICS sector 51 (Information)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _FinIns	NA	Number of jobs in NAICS sector 52 (Finance and Insurance)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _RERL	NA	Number of jobs in NAICS sector 53 (Real Estate and Rental and Leasing)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _PSTS	NA	Number of jobs in NAICS sector 54 (Professional, Scientific, and Technical Services)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _Mgmt	NA	Number of jobs in NAICS sector 55 (Management of Companies and Enterprises)	Number of Jobs	Census Tract Level	6/6/2019	LODES

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
NumJobs _ASWSR	NA	Number of jobs in NAICS sector 56 (Administrative and Support and Waste Management and Remediation Services)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _Edu	NA	Number of jobs in NAICS sector 61 (Educational Services)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _HlthSA	NA	Number of jobs in NAICS sector 62 (Health Care and Social Assistance)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _AER	NA	Number of jobs in NAICS sector 71 (Arts, Entertainment, and Recreation)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _AFS	NA	Number of jobs in NAICS sector 72 (Accommodation and Food Services)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _Other	NA	Number of jobs in NAICS sector 81 (Other Services [except Public Administration])	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _PA	NA	Number of jobs in NAICS sector 92 (Public Administration)	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _White	NA	Number of jobs for workers with Race: White, Alone	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _BAA	NA	Number of jobs for workers with Race: Black or African American Alone	Number of Jobs	Census Tract Level	6/6/2019	LODES

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
NumJobs _AIAN	NA	Number of jobs for workers with Race: American Indian or Alaska Native Alone	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _Asian	NA	Number of jobs for workers with Race: Asian Alone	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _NHPI	NA	Number of jobs for workers with Race: Native Hawaiian or Other Pacific Islander	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _Two	NA	Number of jobs for workers with Race: Two or More Race Groups	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _NotHL	NA	Number of jobs for workers with Ethnicity: Not Hispanic or Latino	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _HL	NA	Number of jobs for workers with Ethnicity: Hispanic or Latino	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _<HS	NA	Number of jobs for workers with Educational Attainment: Less than high school	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _HS	NA	Number of jobs for workers with Educational Attainment: High school or equivalent	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _SomeCollege	NA	Number of jobs for workers with Educational Attainment: Some college or Associate	Number of Jobs	Census Tract Level	6/6/2019	LODES

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
NumJobs _BachDe- gree+	NA	Number of jobs for workers with Educational Attainment: Bachelor's degree or advanced degree	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _Male	NA	Number of jobs for workers with Sex: Male	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _Female	NA	Number of jobs for workers with Sex: Female	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _FirmAge _<1	NA	Number of jobs for workers at firms with Firm Age: 0-1 Years	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _FirmAge _2-3	NA	Number of jobs for workers at firms with Firm Age: 2-3 Years	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _FirmAge _4-5	NA	Number of jobs for workers at firms with Firm Age: 4-5 Years	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _FirmAge _6-10	NA	Number of jobs for workers at firms with Firm Age: 6-10 Years	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _FirmAge _11+	NA	Number of jobs for workers at firms with Firm Age: 11+ Years	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _FirmSize _<19	NA	Number of jobs for workers at firms with Firm Size: 0-19 Employees	Number of Jobs	Census Tract Level	6/6/2019	LODES

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Up-dated	Source
NumJobs _FirmSize _20-49	NA	Number of jobs for workers at firms with Firm Size: 20-49 Employees	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _FirmSize _50-249	NA	Number of jobs for workers at firms with Firm Size: 50-249 Employees	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _FirmSize _250-499	NA	Number of jobs for workers at firms with Firm Size: 250-499 Employees	Number of Jobs	Census Tract Level	6/6/2019	LODES
NumJobs _FirmSize _500+	NA	Number of jobs for workers at firms with Firm Size: 500+ Employees	Number of Jobs	Census Tract Level	6/6/2019	LODES

These measure are from the IRS Individual Income Tax ZIP Code Data set. Note the naming conventions by this example column name: n_item_16_b3. The first section is the column name as seen in the codebook, n_item, followed by either a 15 or 16 denoting the tax year, and then an income bucket number, ranging from b1 to b6. Please see the tax_buckets.pdf document for more information regarding the buckets.

n_ret	NA	Number of Returns	NA	Zip Code	2016	IRS
n_single	NA	Filing status is single	NA	Zip Code	2016	IRS
n_joint	NA	Number of Joint Returns	NA	Zip Code	2016	IRS
n_head	NA	Number of Head of Household Returns	NA	Zip Code	2016	IRS
n_dep	NA	Number of Dependents	NA	Zip Code	2016	IRS
n_ral	NA	Number of Refund Anticipation Loan Returns	NA	Zip Code	2016	IRS

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
n_rac	NA	Number of Refund Anticipation Check Returns	NA	Zip Code	2016	IRS
n_elderly	NA	Number of Elderly Returns	NA	Zip Code	2016	IRS
agi	NA	Adjusted Gross Income	Thousands of Dollars	Zip Code	2016	IRS
n_total_inc	NA	Number of Returns with Total Income	NA	Zip Code	2016	IRS
a_total_inc	NA	Total Income Amount	Thousands of Dollars	Zip Code	2016	IRS
n_wage	NA	Number of Returns with Salaries and Wages	NA	Zip Code	2016	IRS
a_wage	NA	Salaries and Wages	Thousands of Dollars	Zip Code	2016	IRS
n_farm	NA	Number of Farm Returns	NA	Zip Code	2016	IRS
n_unemp_comp	NA	Number of Returns with Unemployment Compensation	NA	Zip Code	2016	IRS
a_unemp_comp	NA	Unemployment Compensation Amount	Thousand of Dollars	Zip Code	2016	IRS
n_txbl_ss	NA	Number of Returns with Taxable Social Security Benefits	NA	Zip Code	2016	IRS
a_txbl_ss	NA	Taxable Social Security Benefits Amount	Thousand of Dollars	Zip Code	2016	IRS

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
n_item	NA	Number of Returns With Itemized Deductions	NA	Zip Code	2016	IRS
a_item	NA	Total Itemized Deductions Amount	Thousand of Dollars	Zip Code	2016	IRS
n_alt_min_tax	NA	Number of Returns with Alternative Minimum Tax	NA	Zip Code	2016	IRS
a_alt_min_tax	NA	Alternative Minimum Tax Amount	Thousand of Dollars	Zip Code	2016	IRS
n_dep_care_credit	NA	Number of Returns with Child and Dependent Care Credit\	NA	Zip Code	2016	IRS
a_dep_care_credit	NA	Child and Dependent Care Credit Amount	Thousand of Dollars	Zip Code	2016	IRS
n_child_tax_credit	NA	Number of Returns with Child Tax Credit	NA	Zip Code	2016	IRS
a_child_tax_credit	NA	Child Tax Credit Amount	Thousand of Dollars	Zip Code	2016	IRS
n_hc_indiv	NA	Number of Returns with Health Care Individual Responsibility Payment	NA	Zip Code	2016	IRS
a_hc_indiv	NA	Health Care Individual Responsibility Payment Amount	Thousand of Dollars	Zip Code	2016	IRS

(continued)

Abbreviations	Full Name	Meaning	Unit	Data Level	Last Updated	Source
n_total_tax_pay	NA	Number of Returns with Total Tax Payments	NA	Zip Code	2016	IRS
a_total_tax_pay	NA	Total Tax Payments Amount	Thousand of Dollars	Zip Code	2016	IRS
n_eic	NA	Number of Returns with Earned Income Credit	NA	Zip Code	2016	IRS
a_eic	NA	Earned Income Credit Amount	Thousand of Dollars	Zip Code	2016	IRS
n_excess_eic	NA	Number of Returns with Excess Earned Income Credit	NA	Zip Code	2016	IRS
a_excess_eic	NA	Excess Earned Income Credit (Refundable) Amount	Thousand of Dollars	Zip Code	2016	IRS
n_tax_due	NA	Number of Returns with Tax Due at Time of Filing	NA	Zip Code	2016	IRS
a_tax_due	NA	Tax Due at Time of Filing Amount	Thousand of Dollars	Zip Code	2016	IRS
n_overpay	NA	Number of Returns with Overpayments Refunded	NA	Zip Code	2016	IRS
a_overpay	NA	Overpayments Refunded Amount	Thousand of Dollars	Zip Code	2016	IRS