City Health Dashboard Downloadable Data Codebook

Version 16.0: Updated December 14, 2022

Accompanies downloadable data v16.0

Contents

City Health DASHBOARD

SECTION 1: Overview

The City Health Dashboard (the Dashboard) is a one-stop resource allowing users to view and compare data from multiple sources on health and the factors that shape health to guide local solutions. Through a vigorous selection process, the City Health Dashboard selected over 40 metrics spanning five domains — clinical care, health behaviors, health outcomes, physical environment and social and economic factors — to quantify health, health determinants, and equity at the city level and, where available, census tract level.

Metrics are derived from both private and publicly available data sources, with some data sources contributing several metrics and others contributing only a single metric.

Document Mission

This document is written for an audience interested in using the data available for download. It should be used in conjunction with the City Health Dashboard Technical Document, which outlines technical attributes of the data sources used on the Dashboard.

Users are invited to contact the Dashboard (info@cityhealthdashboard.com) with general feedback or questions not addressed below.

Downloading Dashboard Data

Dashboard data is available for free download at http://cityhealthdashboard.com/data-downloads. Data are released through an API and available for download in CSV and .txt formats. This codebook is intended for use with data released in any of these formats.

Citing Dashboard Data and Technical Document

City Health Dashboard should be cited when the data or graphics are used, including in published presentations, articles, research, blogs, policy documents, and other print or digital media.

We encourage use of Dashboard data and visualizations, and suggest the following citation:

> Department of Population Health, NYU Langone Health. City Health Dashboard.
> https://www.cityhealthdashboard.com/. Accessed [INSERT DATE OF ACCESS].

Data Updates

Dashboard data – both as displayed online and available for download – is updated periodically as underlying datasets are refreshed. Data release updates are announced by email. Data versioning is tracked by the date_export variable in downloadable date files, the version number indicated in folder and file names (see below for more detail), and the version variable. Please email info@cityhealthdashboard.com with any questions or concerns.

Only data that are displayed on the Dashboard is available for download; older versions of Dashboard data are not available. Users in need of archived data should contact info@cityhealthdashboard.com.

Feedback or Errors

Users are encouraged to contact the Dashboard with comments or questions regarding cityhealthdashboard.com and any documents available for download from it, including this Codebook, at info@cityhealthdashboard.com.

SECTION 2: Key Notes on Downloadable Data

<u>Data Available for Download</u>

The Dashboard's data are accessible in two modes:

1) Downloadable CSV and .txt files
2) API

The following data tables are available from the Dashboard:

Master Geographic Identifier List	The Dashboard's master geographic identifiers data files are presented here. Data are provided on the API and in both CSV and .txt format.
CHDB Cities and Tracts Datasets	Users may access data for all cities and all tracts represented on the Dashboard. Data at the **city** level (all cities) are presented on the API and in a single data file; data at the **tract** level (all census tracts in all cities) are available on the API and in a separate, single downloadable data file.
Datasets, by State	Users may download CSV and .txt files for all cities and all tracts represented on the Dashboard <u>within individual states</u>. The number of cities represented on the Dashboard varies by state (see the Technical Documentation for more detail on how cities were selected). Downloading data <u>for a single state</u> prompts download of separate **city**- and **tract**-level data files that include all geographies in the state represented on the Dashboard.

<u>Data Unavailable for Download</u>

Data for the following metrics are unavailable for download:

- Tract-level **walkability** data are unavailable for download as per the terms of the Dashboard's data use agreement *(NOTE: city-level walkability data are included in downloadable data files)*

Data for cities not on the Dashboard are not available for download. A list of all cities on the Dashboard is available in the Master Geographic Identifier List or https://www.cityhealthdashboard.com/about.

Users may notice that data rows for select cities and metrics are not included in downloadable data. This is due to data availability from the underlying data source. Please contact info@cityhealthdashboard.com with any questions.

<u>Accessing Multi-Year Data</u>

The Dashboard displays more than one year of data for most metrics. The year(s) of data for each metric are outlined in the Dashboard's Technical Documentation.

Please note that multi-year data is available only through the Dashboard's API. Due to file size constraints, the downloadable CSV and .txt files contain only the most recently available year of data for each metric. See Appendix A for a listing of data years available for each metric. *Note:* Monthly data for the last 12 months are available via CSV and .txt files for Unemployment – current, city level and Air Pollution – Ozone.

Requests for multi-year data in CSV or .txt format may be emailed to info@cityhealthdashboard.com and will be reviewed on a case-by-case basis. Email requests for multi-year data in CSV or .txt format should specify metrics, years and geographic levels (city, tract).

API Access and Documentation

The Dashboard's API can be accessed at https://www.cityhealthdashboard.com/data-access. API-specific documentation is available through the API portal.

The Beta version of the Dashboard's API was released on June 12, 2019. Users are invited to contact info@cityhealthdashboard.com with comments or feedback about the API's functionality or documentation.

CSV and .txt File Structure

Data are provided in both CSV and .txt file format within the zipped file. All corresponding CSV and .txt files have identical contents. The Dashboard provides both CSV and .txt file formats for download to maximize flexibility for users.

Users are cautioned that leading zeroes are dropped in CSV files but not .txt files. For example, a FIPS code of 01 will appear as 1 in a CSV file and 01 in its corresponding .txt file; a FIPS code of 040703 will appear as 40703 in a CSV file and 040703 in its corresponding .txt file.

Metrics with Demographic Breakdown

Data for specific demographic groups is released in parallel with data released on the web interface. Demographic group-specific data are released at the city level only; tract-level estimates are never disaggregated by demographic subgroup.

Technical Documentation

Users are strongly encouraged to review the Technical Documentation available at https://www.cityhealthdashboard.com/technical-documentation in conjunction with this Codebook prior to data analysis.

Note on Census Vintages

The Dashboard presents metric data for cities and census tracts from the 2010 and 2020 Census, depending on the underlying Census vintage of the data source. Census tracts can change significantly between decennial Censuses. Users are encouraged to note the underlying Census vintage when working with data across years and metrics, which can be identified using the census_year variable. For more detailed information, refer to the Technical Document, Appendix Section D.

Note on Geographic Identifiers

The Federal Information Processing Series (FIPS), formerly Federal Information Processing Standards, are codes for geographic entities maintained and issued by the Census Bureau. When concatenated (linked together) as State-County-County Subdivision, State-Place, or State-County-Tract, FIPS codes function as unique identifiers for geographic entities. For more detailed information, refer to the Technical Document, Appendix Section D.

City and Tract Unique Identifiers

City data: The Dashboard uses two Census geographies to represent cities: Incorporated Places and Minor Civil Divisions (County Subdivisions). The unique identifier for places is the stpl_fips variable, and for county subdivisions is the stcosub_fips variable. City_fips is the unique identifier for all Dashboard cities, and represents either stpl_fips or stcosub_fips.

Tract data: A minority of tracts cross the boundaries of more than one city. In this case, Dashboard data reports values for each tract-city combination as separate rows, causing duplication of the stcotr_fips variable within Dashboard tract datasets. (TIP: To establish unique identifiers within downloadable data, use the stcotr_fips and city_fips variables in conjunction.) For more information, see City Health Dashboard's blog post "What Exactly is a Census Tract?", posted on February 12, 2020 and available at https://www.cityhealthdashboard.com/story/1155.

Note on Honolulu, HI FIPS code

As per the CDC 500 Cities Project,[1] which guided the Dashboard's launch in 2018, the Dashboard uses the FIPS code for the county of Honolulu, Hawaii (15-003) to represent the geographic area associated with the city of Honolulu (Urban Honolulu CDP, FIPS code 15-71550). Dashboard metric values for the city of Honolulu, HI are calculated using values for Honolulu County (FIPS 15-003) where county-level data are available; otherwise, metric values for Honolulu city (FIPS code 15-71550) are presented. See Technical Document, Appendix E for a summary of the geographic coding used for Honolulu, HI, per metric.

Note on Macon, GA FIPS code

As of 2013, Macon, GA consolidated with its county (Bibb County). The Dashboard uses various FIPS codes to gather data for this geography. Pre-2013, we use FIPS code 13-49000 to represent Macon, GA. Post-2013, we use both Bibb County (13-021) and Macon-Bibb County (13-49008) to represent the consolidated city and county government.[2,3] See Technical Document, Appendix E for a summary of the geographic coding used for Macon, GA, per metric.

Note on Versioning

Please note that all of the following entities are versioned:

1. Data
2. Geographic Master Identifiers List
3. Technical Document
4. Codebook

While version numbers across entities may "hover" closely, versioning of each entity is independent. Please contact info@cityhealthdashboard.com with any questions.

Coding of Numeric Variables: Not Applicable versus Unavailable/Censored

Coding distinguishes between (a) data that are not released because the value was *not applicable* to the metric and (b) data that are missing because they were *censored or unavailable in an underlying dataset*.

Not Applicable is Represented by -999

An entry of -999 indicates "not applicable".

For example, a value of -999 under the variables "lci" and "uci" means that confidence intervals are not calculated for this value (see Example A).

Example A: Screenshot of CSV output

Here, only the estimate (an index value) is valid for analysis. The numerator, denominator, confidence intervals and county and education indicator values are not applicable, as indicated by the -999 values.

Unavailable/Censored is Represented by Blank (Missing)

A *blank* (missing) value indicates that the value was unavailable in an underlying dataset OR was censored by the Dashboard in accordance with terms of a data use agreement.

For example, a value of NA under the variable "est" for metric X for city Y means that the estimate for metric X for city Y is censored or unavailable (see Example B).

See Technical Document for more detail on data censorship.

Example B: Screenshot of CSV output
Here, the estimate and confidence intervals are valid for analysis, but are not released due to censorship or missingness. The numerator, denominator and county and education indicator values are not applicable, as indicated by the -999 values.

Note on ZIP Codes

Tracts may cross the boundaries of more than one ZIP code, but the Dashboard website displays only the ZIP code with the most overlap with the tract. The Dashboard no longer provides this ZIP code variable for user download. If users are interested in a full tract-zip crosswalk, this can be accessed directly from HUD-USPS[4].

As of January 30, 2020, ZIP codes are from 2019 Quarter 2.[4] As of July 2022, the crosswalk has not been updated to accommodate tracts from the 2020 Census.

Appropriate Data Use

See the Dashboard's Using Multi-year Data: Tips and Cautions at https://www.cityhealthdashboard.com/multi-year-data for more information on appropriate use of multi-year data.

See the Dashboard's FAQ at https://www.cityhealthdashboard.com/faq for more information.

SECTION 3: File Layout for Geographic Master Files

Outline of data in this layout

- Geographic identifiers:
    - CHDB_geographic_identifiers.csv (*2010 and 2020 outputted separately*)
    - CHDB_geographic_identifiers.txt (*2010 and 2020 outputted separately*)
    - API base endpoint: geographic-identifier (*optional census_year=2010 or 2020 input available*)

Variable Information **(12 Variables)**

Variable name	Item and code outline	Format	Notes
state_abbr	State abbreviation	String	
state_name	State name	String	
state_fips	State FIPS code	*API:* String *CSV or .txt:* Numeric	2 digits **(note that CSV drops leading zero)**
stco_fips	State, County FIPS code (Concatenation of state and county FIPS codes)	*API:* String *CSV or .txt:* Numeric	5 digits **(note that CSV drops leading zero)**
county_name	County name associated with city or tract	String	
city_fips	Either stpl_fips or stcosub_fips	*API:* String *CSV or .txt:* Numeric	7 or 10 digits **(note that CSV drops leading zero)** NOTE: This variable uniquely identifies Dashboard cities, combining places and county subdivisions.
stpl_fips	State, Place FIPS code (Concatenation of state and place FIPS codes)	*API:* String *CSV or .txt:* Numeric	7 digits **(note that CSV drops leading zero)** NOTE: This variable uniquely identifies incorporated places. -999 is used for rows that represent county subdivisions.
stcosub_fips	State, County, County Subdivision FIPS code (Concatenation of state, county and county subdivision FIPS codes)	*API:* String *CSV or .txt:* Numeric	10 digits **(note that CSV drops leading zero)** NOTE: This variable uniquely identifies county subdivisions. -999 is used for rows that represent places.
city_name	City name	String	
stcotr_fips	State, County, Tract FIPS code (Concatenation of state, county and tract FIPS codes)	*API:* String *CSV or .txt:* Numeric	11 digits **(note that CSV drops leading zero)** NOTE: In combination with city_fips, this variable uniquely identifies Dashboard tracts.
census_year	Underlying Census geography vintage (2010 or 2020)	*API:* String *CSV or .txt:* Numeric	
version	Record of geography version	Numeric	

SECTION 4: Dictionary of <u>City</u> Data

<u>Outline of data in this layout</u>

- CHDB Cities Dataset:
    - CHDB_data_city_all.csv
    - CHDB_data_city_all.txt
    - API base endpoint: city-metric

- Datasets, by State:
    - CHDB_data_city_stateabbreviation.csv *(e.g., data file 'CHDB_data_city_AL,' contains all metrics, all cities in Alabama in a CSV format)*
    - CHDB_data_city_stateabbreviation.txt *(e.g., data file 'CHDB_data_city_AL,' contains all metrics, all cities in Alabama in a .txt format)*

<u>Variable Information</u> **(23 Variables)**

Variable name	Item and code outline	Format	Notes
state_abbr	State abbreviation	String	
state_fips	State FIPS code	*API:* String *CSV or .txt:* Numeric	2 digits **(note that CSV drops leading zero)**
city_fips	Either stpl_fips or stcosub_fips	*API:* String *CSV or .txt:* Numeric	7 or 10 digits **(note that CSV drops leading zero)** NOTE: This variable uniquely identifies Dashboard cities, combining places and county subdivisions.
stpl_fips	State, Place FIPS code (Concatenation of state and place FIPS codes)	*API:* String *CSV or .txt:* Numeric	7 digits **(note that CSV drops leading zero)** NOTE: This variable uniquely identifies incorporated places. -999 is used for rows that represent county subdivisions.
stcosub_fips	State, County, County Subdivision FIPS code (Concatenation of state, county and county subdivision FIPS codes)	*API:* String *CSV or .txt:* Numeric	10 digits **(note that CSV drops leading zero)** NOTE: This variable uniquely identifies county subdivisions. -999 is used for rows that represent places.
city_name	City name	String	
metric_name	Metric name (text)	String	
metric_number	Metric (numeric identifier) 1 = Absenteeism 2 = Air pollution - particulate matter 3 = Binge drinking 4 = Children in poverty 5 = Dental care 6 = Diabetes 7 = Frequent mental distress 8 = Frequent physical distress	Numeric (categorical variable)	

Variable name	Item and code outline	Format	Notes
	9 = High blood pressure 10 = High school completion 11 = Rent burden 12 = Housing with potential lead risk 13 = Income inequality 14 = Lead exposure risk index 15 = Limited access to healthy foods 16 = Neighborhood racial/ethnic segregation 17 = Obesity 18 = Physical inactivity 19 = Preventive services, 65+ 21 = Racial/ethnic diversity 22 = Smoking 23 = Third-grade reading scores 24 = Unemployment – annual, neighborhood-level 25 = Uninsured 27 = Walkability 28 = Breast cancer deaths 29 = Cardiovascular disease deaths 30 = Colorectal cancer deaths 31 = Premature deaths (all causes) 32 = Opioid overdose deaths 33 = Teen births 34 = Prenatal care 35 = Low birthweight 36 = Park access 37 = Life expectancy 38 = COVID local risk index 39 = Unemployment – current, city-level 40 = Broadband connection 41 = Routine checkup, 18+ 42 = Firearm homicides 43 = Firearm suicides 44 = Credit Insecurity Index 45 = Air pollution – ozone		
group_name	Demographic group (text)	String	
group_number	Race/ethnicity or gender group (numeric identifier) 1 = total population 2 = female 3 = male 4 = asian 5 = black 6 = hispanic 7 = white 8 = other 9 = age 0-17 11 = age 0-18 16 = age 18-24 12 = age 19-25 17 = age 25-34 13 = age 26-34 14 = age 35-44 15 = age 45-64 18 = limited English proficiency	Numeric (categorical variable)	

Variable name	Item and code outline	Format	Notes
num	Numerator -999 = not applicable *blank* = censored or unavailable value	Numeric	
denom	Denominator -999 = not applicable *blank* = censored or unavailable value	Numeric	
est	Estimate -999 = not applicable *blank* = censored or unavailable value	Numeric	
lci	Lower confidence interval -999 = not applicable *blank* = censored or unavailable value	Numeric	
uci	Upper confidence interval -999 = not applicable *blank* = censored or unavailable value	Numeric	
county_indicator	County indicator 0 = estimate is calculated from city-specific values 1 = estimate is calculated from an average of component counties' values (i.e. city falls under one or more counties) 2 = estimate is calculated from its single corresponding county values (i.e. city falls under one specific county) -999 = not applicable *blank* = censored or unavailable value	Numeric (categorical variable)	See Technical Document for more detail.
multiplier_indicator	Multiplier indicator 1 = estimate is calculated from one year of data 2 = estimate is from two years of data 3 = estimate is calculated from three years of data -999 = not applicable *blank* = censored or unavailable value	Numeric (ordinal variable)	This variable is only applied to NVSS metrics (28-25). See Technical Document for more detail.
data_yr_type	Year(s) of data, including estimate type	String	API users: See Appendix A for data_yr_type values for each metric
data_yr	Single year of data	String	NOTE: For monthly metrics, data_yr format is MMYY.
geo_level	Geographic level of data point	String	

Variable name	Item and code outline	Format	Notes
date_export	Date of downloadable data export by Dashboard analytic staff	Date	Variable date_export is updated with each release of downloadable data. This variable can be used to assess dataset versioning.
census_year	Underlying Census geography vintage (2010 or 2020)	*API:* String *CSV or .txt:* Numeric	
version	Record of downloadable data version	Numeric	

Important note regarding column labelled "NOTE - NCHS Disclaimer"

The text in this column appears on the first line of all city data files and in this codebook (see Section 8). Users should be aware that the text is a disclaimer regarding data calculated using National Center for Health Statistics at Research Data Centers. The text is *not* an estimate or observation associated with the other data reported on the row. This disclaimer is exclusively presented in city-level files because NCHS data are only calculated at the city level. Please contact info@cityhealthdashboard.com with any questions.

SECTION 5: Dictionary of <u>Tract</u> Data

<u>Outline of data in this layout</u>

- CHDB Cities Dataset
    - CHDB_data_tract_all.csv
    - CHDB_data_tract_all.txt
    - API base endpoint: tract-metric

- Datasets, by State
    - CHDB_data_tract_stateabbreviation.csv (e.g. data file 'CHDB_data_tract_AL,' contains all metrics, all census tracts per Dashboard city in Alabama in a CSV format)
    - CHDB_data_tract_stateabbreviation.txt (e.g. data file 'CHDB_data_tract_AL,' contains all metrics, all census tracts per Dashboard city in Alabama in a .txt format)

<u>Variable Information</u> **(23 Variables)**

Variable name	Item and code outline	Format	Notes
state_abbr	State abbreviation	String	
state_fips	State FIPS code	*API:* String *CSV or .txt:* Numeric	2 digits **(note that CSV drops leading zero)**
county_name	County name	String	
city_fips	Either stpl_fips or stcosub_fips	*API:* String *CSV or .txt:* Numeric	7 or 10 digits **(note that CSV drops leading zero)** NOTE: This variable uniquely identifies Dashboard cities, combining places and county subdivisions.
stpl_fips	State, Place FIPS code (Concatenation of state and place FIPS codes)	*API:* String *CSV or .txt:* Numeric	7 digits **(note that CSV drops leading zero)** NOTE: This variable uniquely identifies incorporated places. -999 is used for rows that represent county subdivisions.
stcosub_fips	State, County, County Subdivision FIPS code (Concatenation of state, county and county subdivision FIPS codes)	*API:* String *CSV or .txt:* Numeric	10 digits **(note that CSV drops leading zero)** NOTE: This variable uniquely identifies county subdivisions. -999 is used for rows that represent places.
stcotr_fips	State, County, Tract FIPS code (Concatenation of state, county, and tract FIPS codes)	*API:* String *CSV or .txt:* Numeric	11 digits **(note that CSV drops leading zero)** *This variable is the unique identifier for tracts.* A minority of tracts cross the boundaries of more than one city. In this case, Dashboard data reports values for each tract-city combination as separate rows, causing duplication of the stcotr_fips variable. To establish unique identifiers, use the stcotr_fips and city_fips variables in conjunction.

Variable name	Item and code outline	Format	Notes
city_name	City name	String	
metric_name	Metric name (text)	String	
metric_number	Metric (numeric identifier) 2 = Air pollution - particulate matter 3 = Binge drinking 4 = Children in poverty 5 = Dental care 6 = Diabetes 7 = Frequent mental distress 8 = Frequent physical distress 9 = High blood pressure 10 = High school completion 11 = Rent burden 12 = Housing with potential lead risk 13 = Income inequality 14 = Lead exposure risk index 15 = Limited access to healthy foods 17 = Obesity 18 = Physical inactivity 19 = Preventive services, 65+ 21 = Racial/ethnic diversity 22 = Smoking 24 = Unemployment – annual, neighborhood-level 25 = Uninsured 27 = Walkability 36 = Park access 37 = Life expectancy 38 = COVID Local Risk Index 40 = Broadband connection 41 = Routine checkup, 18+ 44 = Credit Insecurity Index 45 = Air pollution - ozone	Numeric (categorical variable)	Metrics not listed here have only city-level data available. Note regarding Walkability: Tract-level data are unavailable for download.
group_name	Demographic group (text)	String	
group_number	Race/ethnicity or gender group (numeric identifier) 1 = total population	Numeric (categorical variable)	Demographic strata are not provided at the tract level.
num	Numerator -999 = not applicable *blank* = censored or unavailable value	Numeric	
denom	Denominator -999 = not applicable *blank* = censored or unavailable value	Numeric	
est	Estimate	Numeric	

Variable name	Item and code outline	Format	Notes
	blank = censored or unavailable value		
lci	Lower confidence interval -999 = not applicable *blank* = censored or unavailable value	Numeric	
uci	Upper confidence interval -999 = not applicable *blank* = censored or unavailable value	Numeric	
data_yr_type	Year(s) of data, including estimate type	String	API users: See Appendix A for data_yr_type values for each metric
data_yr	Single year of data	*API:* String *CSV or .txt:* Numeric	NOTE: For monthly metrics, data_yr format is MMYY.
geo_level	Geographic level of data point	String	
date_export	Date of downloadable data export by Dashboard analytic staff	Date	Variable date_export is updated with each release of downloadable data. This variable can be used to assess dataset versioning.
census_year	Underlying Census geography vintage (2010 or 2020)	*API:* String *CSV or .txt:* Numeric	
version	Record of downloadable data version	Numeric	

NOTE: The county_indicator and multiplier_indicator variables are not provided in tract-level datasets because these indicators are not relevant to tract-level data.

SECTION 6: Dataset Versioning Log

Codebook Version†	Downloadable Data Version‡	Approx. Date Data Posted Online	Update Notes
16.0	16.0	12/14/2022	• Housing cost, excessive: replace housing cost, excessive with new metric Rent burden (ACS) • Air pollution -ozone: Add 2021 • Unemployment – current, city-level: Add data through Aug 2022 • Violent Crime: Removal of metric
15.1	15.1	9/6/2022	Firearm suicides: Release of new metric; 2014 – 2020 data (5 year estimate) Firearm homicides: Release of new metric; 2014 – 2020 data (5 year estimate) Unemployment – current, city-level: Addition of March 2022-May 2022 data
15.0	15.0	7/27/2022	ACS metrics: Add 2020 (5 year estimate) data NVSS metrics: Add 2018, 2019, and 2020 (3 year estimate) data Addition of 140 new cities, including 69 represented by a new Census geography: County Subdivisions (Minor Civil Divisions) • Addition of *city_fips* and *stcosub_fips* variables Addition of 2020 tract and city geographies to support metric data from 2020 Census • Addition of *census_year* variable Addition of *data_yr* variable Geographic Identifiers: Update to v2.0
14.1	14.1	5/17/22	Unemployment – current, city-level: Addition of December 2021-February 2022 data Income inequality: Correction of 2019 tract data. *Income bracket $25k-$29,999 was unintentionally excluded in versions 12.0 and later.* Uninsured: Correction of 2018 and 2019 city data. *"2 or more races" category was unintentionally excluded from the "Other" race/ethnicity demographic group.*
14.0	14.0	3/29/22	PLACES Project: Addition of 2019, 1 Year Modeled Estimates Unemployment – current, city-level: Addition of November 2021 data Air pollution – particulate matter: Addition of 2018 data Credit Insecurity Index: Release of new metric; 2020 NY Fed/Equifax data Air pollution – ozone: Release of new metric; 01/2018-12/2020 George Mason University data
13.1	13.1	1/11/22	Unemployment – current, city-level: Addition of July-October 2021 data High blood pressure: Correction of tract data_yr_type variable from "2018, 1 Year Modeled Estimate" to "2017, 1 Year Modeled Estimate"
13.0	13.0	11/1/21	Absenteeism: Update to 2017-2018 data; Update data source to incorporate data from EDFacts Third-grade reading scores: Replace Third-grade reading proficiency with new data source (Stanford Education Data Archive); addition of years 2011-2018 Limited access to healthy food: Addition of 2019 data Unemployment – current, city-level: Addition of June 2021 data

			Routine checkup, 18+: Release of new metric; 2014-2018 500 Cities/PLACES data
12.3	12.3	9/6/21	Unemployment – current, city-level: Addition of May 2021 data
12.2	12.2	8/2/21	Unemployment – current, city-level: Addition of April 2021 data
12.1	12.1	7/12/21	Unemployment – current, city-level: Addition of February and March 2021 data
12.0	12.0	6/1/21	ACS metrics: Add 2019 (5 year estimate) data Unemployment – annual, neighborhood-level: Slight revision of estimates to improve precision; see Technical Documentation, page 41 for more details. Air pollution: Add 2017 CMAQ data Violent crime: Add 2019 UCR data Broadband connection: Release of new metric; 2017, 2018, 2019 ACS (5 year estimate) data
11.0	11.0	3/1/21	COVID Local Risk Index: Replace with updated Index estimates; Newly available for download and via API PLACES Project (formerly 500 Cities Project): Addition of 2020 release Preventive services, 65+: Name changed from "Preventive services"; Revision of 2014, 2016 estimates to improve accuracy Unemployment – current, city-level: Addition of November 2020 data
10.4	10.4	2/1/21	Unemployment – current, city-level: Addition of October 2020 data Income inequality: 20th and 80th percentile cut points updated for 2013, 2014 to more closely approximate underlying distribution
10.3	10.3	1/7/21	Unemployment – current, city-level: Addition of September 2020 data Unemployment – annual, neighborhood-level: Metric added back to website; still available for download
10.2	10.2	12/1/20	Unemployment – current, city-level: Addition of August 2020 data
10.1	10.1	11/10/20	Unemployment – current, city-level : Addition of new metric Unemployment – annual, neighborhood-level: Temporarily removal from website; still available for download; name changed from "Unemployment" High school completion: Replace High school graduation with new data source, multi-year data, and tract-level data Geographic Identifiers – Master List.zip: Remove zip_code variable and update to v3.1 Walkability: For cities with only one census tract, city-level values are set equal to tract-level values
9.1	9.0	5/11/20	COVID Local Risk Index released on 6/4/20; codebook v9.1 updated with references to this metric. COVID Local Risk Index is not included in downloadable data v9.0 or via API.
9.0	9.0	5/11/20	Addition of 256 cities (see Technical Document, Part 1); metric data for these cities added where available. ACS metrics: Addition of 2018 data Life expectancy: Addition of estimates for Maine and Wisconsin as per updates to USALEEP NVSS metrics: Addition of data for some years and metrics for consolidated cities (Athens, GA; Augusta, GA; Indianapolis, IN; Louisville, KY; Nashville, TN) Walkability updated to 2019 Geographic Identifiers – Master List.zip: Update of this file to v3.0 from v2.0

8.1	8.1	2/7/20	Correction of tract-level housing with potential lead risk and tract-level park access data. *Previous versions of downloadable data released a minority of confidence intervals less than 0% or greater than 100%. Version 8.1 corrects this error.*
8.0	8.0	2/3/20	Addition of 10 cities (see Technical Document, Part 1); metric data for these cities added where available. *NOTE 1: NVSS metrics: Calculation uses NJSHAD data (see Technical Document, Part 1). NOTE 2: Low birthweight, teen births: 2016-2018 data is added for these 10 cities only; data for both 2015-2017 (initial release in v7.0) and 2016-2018 are released in .csv and .txt format for these metrics.* 500 Cities Project: addition of 2019 release Air pollution data: addition of 2016 Park access city data: updated to 2018; addition of tract-level park access data Violent crime data: addition of 2018 Tract data: Insertion of stpl_fips variable to downloadable data and API Geographic Identifiers – Master List.zip: Update of this file to v2.0 from v1.1; update of tract-ZIP crosswalk to 2019 Quarter 2
7.2	7.1	10/7/19	Geographic Identifiers – Master List.zip: Update of this file to v1.1 from v1.0 to correct place_FIPS variable. *This variable was incorrectly displayed for some cities.* No changes were made to downloadable data v7.1. Codebook updated to v7.2 from v7.1 to note correction of Geographic Identifiers – Master List
7.0, 7.1	7.0, 7.1	8/29/19	NVSS metrics: Added 2010-2012, 2011-2013, 2012-2014, 2015-2017 data. *NOTE: Prenatal care: 2010-2012, 2011-2013, 2012-2014 not released.* NVSS metrics: Revision to 2013-2015 and 2014-2016 estimates for improved accuracy NVSS metrics: Removal of county-level (county_indicator = 1,2) total population and sex estimates (except for Honolulu, HI and Macon, GA: see Technical Document Part 1)
6.3	6.2	7/26/19	Tract data: Revision of variable city_name from "Honolulu County" to "Honolulu" where stpl_fips = 15003. City data: Correction of place_FIPS variable. *This variable was incorrectly displayed for some cities in data v6.0 and v6.1.* .txt files: Correction of missing leading zeros for state_fips, place_fips, stpl_fips. *Leading zeroes were unintentionally dropped in v6.0 and v6.1.*
6.2	6.1	7/16/19	Correction of South Carolina high school graduation data (LEP stratum only). *Downloadable data v6.0 provided an incorrect LEP estimate for cities in South Carolina only. These errors were corrected in data v6.1.*
6.1	6.0	6/12/19	Minor clarifying revisions to codebook; no data changes
6.0	6.0	6/12/19	Launch of Beta API; release of multi-year data (API only) High school graduation estimates updated to June 2019 release; introduction of limited English proficiency stratum Air pollution data updated to 2015 Removal of stratum educ_indicator = 3 ("estimate is a midpoint of a rate range"). *The data sources used in calculation of the high school graduation metric released in June 2019 do not include rate ranges.* Correction of metric_name entries for uninsured (tract) from "Uninsurance" to "Uninsured". *Downloadable data versions 1 to 5.2 mislabeled "2014, 2 year modelled estimates" tract-level dental care and preventive services estimates as "2015, 2 year modelled estimates" under variable "data_yr_type". These errors are corrected in v6.0. (These 2014 data are available for download by API only.)*
5.3	5.3	5/3/19	Correction of Honolulu walkability data. *Downloadable data versions 1 to 5.2 provided an incorrect city score for walkability in Honolulu and omitted tract-level walkability Honolulu data. These errors are corrected in v5.3.*

5.2	5.2	3/21/19	Correction of city-level unemployment data. *Values for "Asian" and "other" subgroups were unintentionally omitted from v5.1 This error is corrected in v5.2.*
5.1	5.1	2/26/19	Correction of tract-level preventive services data. *Downloadable data v4.0 and v5.0: (1) unintentionally included tract-level preventive services estimates for male and female subgroups from the 500 Cities Project 2018 release[5] and (2) mislabeled "2016, 2 year modelled estimates" tract-level preventive services estimates for total population as "2015, 2 year modelled estimates" under variable "data_yr_type". These errors are corrected in v5.1.*
5.0	5.0	2/21/19	ACS data updated to 2017 Air pollution data updated to 2014 Revised age strata (see Section 8)
4.0	4.0	12/20/18	NVSS (NCHS) data updated to 2014-16 NVSS (NCHS) disclaimer added to city CSV and .txt files – column "NOTE - NCHS Disclaimer" 500 Cities Project updated to 2018 release Primary care physicians data removed from downloadable data (see Section 8)
3.0	3.0	10/29/18	Inclusion of park access data in downloadable dataset Inclusion of life expectancy data in downloadable dataset Absenteeism data updated to 2015-16 data Violent crime data updated to 2017 data Updated uninsured data (ACS replaces 500 Cities Project as data source; revised strata)
2.1	--	7/17/18	Addition of the following metrics to downloadable data: teen births; breast cancer deaths; cardiovascular disease deaths; colorectal cancer deaths; low birthweight; opioid overdose deaths; premature deaths (all causes); prenatal care
1	--	6/29/18	*First release*

See Appendix L in Technical Documentation for a summary of updates and revisions to site data.

† Codebook version is noted on the cover page and footer of this document.

‡ Downloadable data version is noted in the title of downloadable .zip folders available at https://www.cityhealthdashboard.com/data-downloads (e.g., "Alabama - v4.0....zip") and in the CSV and .txt files each contains (e.g., CHDB_data_city_AL v4_0.csv, CHDB_data_city_AL v4_0.txt, CHDB_data_tract_AL v4_0.csv, CHDB_data_tract_AL v4_0.txt). **The version number in this column refers to Dashboard City data and state downloadable .zip folders, except where otherwise noted.**

SECTION 7: Notes on Specific Metrics

Absenteeism

The Dashboard does not release multi-year data for this metric because of data source change; enrollment data are now collected by EDFacts, previously collected by Civil Rights Data Collection. The Dashboard does not recommend comparing the data currently on the site with values from 2013-2014 or 2015-2016 released prior to downloadable data v13.0.

Air pollution - ozone

EPA CMAQ RSIG and GMU North America Chemical Reanalysis (NACR) are commonly used, publicly available data sources for ozone pollution. While to the RSIG presently include a longer data period, North America Chemical Reanalysis (NACR) uses more up-to-date emission and real-time forecasting data to provide ozone data in a timelier manner (up to yesterday). Both RSIG and NACR provide ozone pollution (parts per billion (ppb)) data for 12 kilometer square areas, which is larger than many census tracts. EPA CMAQ RSIG further smooth the data to provide census tract-level estimates, while NACR are provided at the 12-kilometer square area level only. As such, adjacent census tracts might share the same ozone pollution value (ppb).

High school completion

The Dashboard changed data sources and methodology in October 2020 and changed the metric name from "High school graduation" to "High school completion" to reflect this change. Comparison of data to versions before v10.1 are inappropriate.

Life expectancy

The Dashboard reports tract-level data as received from National Center for Health Statistics/USALEEP; tract-level data and documentation files are available for free download.[6] A flag to indicate the source of the age-specific death rates used to calculate the abridged period life tables is included in the data downloaded directly from USALEEP. However, this variable is *not* included in the Dashboard downloadable data. Users requiring this information should refer to the National Center for Health Statistics/USALEEP dataset.

Third-grade reading scores

The Dashboard changed data sources and methodology in September 2021 and changed the metric name from "Third-grade reading proficiency" to "Third-grade reading scores" to reflect this change. Comparison of data to versions before v13.0 are inappropriate.

Note on metrics calculated using National Center for Health/Research Data Center Statistics Data

The following metrics were calculated by City Health Dashboard analytic staff at the Research Data Center using National Center for Health Statistics data: breast cancer deaths, cardiovascular disease deaths, colorectal cancer deaths, low birthweight, opioid overdose deaths, premature deaths (all causes), prenatal care, and teen births.

The downloadable data tables shared on the City Health Dashboard website were not released as a micro-level downloadable datasets from NCHS/RDC, rather .csv aggregated data tables whose analyses were conducted per NCHS disclosure requirements in a secure environment and released as approved output. The findings and conclusions on this website are those of the author(s) and do not represent the views of the Research Data Center, the National Center for Health Statistics, or the Centers for Disease Control and Prevention. NCHS does not recommend further analysis of these tables because linking them to individually identifiable data from other NCHS or non-NCHS datasets could potentially cause disclosure. If you believe a disclosure has occurred please contact info@cityhealthdashboard.com and RDCA@cdc.gov.

See Section 4 above for more detail.

Uninsured

Age 0-17 (group_number=9) and age 18-64 (group_number=10) were associated with the uninsured metric in downloadable data versions prior to v5.0. Age strata for this metric were revised to more granular age breakdowns in downloadable data v5.0 and subsequent downloadable data versions. Please email info@cityhealthdashboard.com with any questions.

Walkability

The Dashboard does not recommend comparing 2019 data released in v9.0 with 2018 walkability estimates released in downloadable data versions v1.0-8.1, as calculation methodologies change over time.

SECTION 8: References

1. 500 Cities: Local Data for Better Health. Local Data for Better Health, 2017 Release. 2017; https://chronicdata.cdc.gov/500-Cities-Places/500-Cities-Local-Data-for-Better-Health-2017-relea/vurf-k5wr. Accessed September 27, 2017.
2. Stucka M. Macon-Bibb County consolidation wins with strong majorities. August 5, 2015, 2012.
3. Macon-Bibb County. Macon-Bibb County. 2018; http://www.maconbibb.us/. Accessed April 10, 2018.
4. Office of Policy Development and Research - US Department of Housing and Urban Development. HUD USPS ZIP Code Crosswalk Files (ZIP-TRACT, 2nd Quarter 2019). 2019; https://www.huduser.gov/portal/datasets/usps_crosswalk.html. Accessed December 19, 2019.
5. 500 Cities: Local Data for Better Health. Local Data for Better Health, 2018 Release. 2018; https://chronicdata.cdc.gov/500-Cities-Places/500-Cities-Local-Data-for-Better-Health-2018-relea/rja3-32tc. Accessed December 4, 2018.
6. National Center for Health Statistics. U.S. Small-Area Life Expectancy Estimates Project - USALEEP: Life Expectancy Estimates File for United States, 2010-2015. 2020; https://www.cdc.gov/nchs/nvss/usaleep/usaleep.html. Accessed April 8, 2020.

APPENDIX A: API Metric Key Overview

The following table outlines the metric keys necessary for accessing data through the Dashboard's API.

Metric Key	City Data Accessible	Tract Data Accessible
absenteeism	√	
air-pollution-particulate-matter	√	√
air-pollution-ozone	√	√
binge-drinking	√	√
breast-cancer-deaths	√	
broadband-connection	√	√
cardiovascular-disease-deaths	√	
credit-insecurity-index	√	√
children-in-poverty	√	√
covid-index	√	√
colorectal-cancer-deaths	√	
dental-care	√	√
diabetes	√	√
firearm-homicides	√	
firearm-suicides	√	
frequent-mental-distress	√	√
frequent-physical-distress	√	√
high-blood-pressure	√	√
high-school-completion (key changed 11/10/20)	√	√
rent-burden	√	√
housing-with-potential-lead-risk	√	√
income-inequality	√	√
lead-exposure-risk-index	√	√
life-expectancy	√	√
limited-access-to-healthy-foods	√	√
low-birthweight	√	
neighborhood-racial-ethnic-segregation	√	
obesity	√	√
opioid-overdose-deaths	√	
park-access	√	√
physical-inactivity	√	√
premature-deaths-all-causes	√	
prenatal-care	√	
preventive-services	√	√
racial-ethnic-diversity	√	√
routine-checkup	√	√
smoking	√	√
teen-births	√	
third-grade-reading-scores (key changed 11/1/21)	√	

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unemployment-annual-neighborhood-level (key changed 11/10/20)	√	√
unemployment-current-city-level	√	
uninsured	√	√
walkability	√	

APPENDIX B: Data Year (data_yr_type) Availability, by Metric

To facilitate year-specific queries using the Dashboard's API, the following table outlines the data_yr_type entries available through the portal. CSV and .txt files contain only the most recent year of data as indicated in data_yr_type. See section "Accessing Multi-Year Data" above for more detail.

Metric name	data_yr_type	Metric name	data_yr_type
Absenteeism	2017-2018	Life expectancy	2015, 6 Year Modeled Estimate
Air pollution - particulate matter	2013 2014 2015 2016 2017 2018	Limited access to healthy foods	2015 2019
Air pollution - ozone	January 2018 – December 2021	Low birthweight	2012, 3 Year Estimate 2013, 3 Year Estimate 2014, 3 Year Estimate 2015, 3 Year Estimate 2016, 3 Year Estimate 2017, 3 Year Estimate 2018, 3 Year Estimate 2019, 3 Year Estimate 2020, 3 Year Estimate
Binge drinking	2014, 1 Year Modeled Estimate 2015, 1 Year Modeled Estimate 2016, 1 Year Modeled Estimate 2017, 1 Year Modeled Estimate 2018, 1 Year Modeled Estimate 2019, 1 Year Modeled Estimate	Neighborhood racial/ethnic segregation	2013, 5 Year Estimate 2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate
Breast cancer deaths	2012, 3 Year Estimate 2013, 3 Year Estimate 2014, 3 Year Estimate 2015, 3 Year Estimate 2016, 3 Year Estimate 2017, 3 Year Estimate 2018, 3 Year Estimate 2019, 3 Year Estimate 2020, 3 Year Estimate	Obesity	2014, 1 Year Modeled Estimate 2015, 1 Year Modeled Estimate 2016, 1 Year Modeled Estimate 2017, 1 Year Modeled Estimate 2018, 1 Year Modeled Estimate 2019, 1 Year Modeled Estimate
Broadband connection	2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate	Opioid overdose deaths	2012, 3 Year Estimate 2013, 3 Year Estimate 2014, 3 Year Estimate 2015, 3 Year Estimate 2016, 3 Year Estimate 2017, 3 Year Estimate 2018, 3 Year Estimate 2019, 3 Year Estimate 2020, 3 Year Estimate
Cardiovascular disease deaths	2012, 3 year Estimate 2013, 3 year Estimate 2014, 3 year Estimate 2015, 3 year Estimate 2016, 3 year Estimate 2017, 3 year Estimate 2018, 3 Year Estimate 2019, 3 Year Estimate 2020, 3 Year Estimate	Park access	2018
Credit Insecurity Index	2020	Physical inactivity	2014, 1 Year Modeled Estimate 2015, 1 Year Modeled Estimate 2016, 1 Year Modeled Estimate 2017, 1 Year Modeled Estimate 2018, 1 Year Modeled Estimate 2019, 1 Year Modeled Estimate
Children in Poverty	2013, 5 Year Estimate 2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate	Premature deaths (all causes)	2012, 3 Year Estimate 2013, 3 Year Estimate 2014, 3 Year Estimate 2015, 3 Year Estimate 2016, 3 Year Estimate 2017, 3 Year Estimate 2018, 3 Year Estimate 2019, 3 Year Estimate 2020, 3 Year Estimate

Indicator	Estimates	Indicator	Estimates
Colorectal cancer deaths	2012, 3 Year Estimate 2013, 3 Year Estimate 2014, 3 Year Estimate 2015, 3 Year Estimate 2016, 3 Year Estimate 2017, 3 Year Estimate 2018, 3 Year Estimate 2019, 3 Year Estimate 2020, 3 Year Estimate	Prenatal care	2015, 2 Year Estimate 2016, 3 Year Estimate 2017, 3 Year Estimate 2018, 3 Year Estimate 2019, 3 Year Estimate 2020, 3 Year Estimate
COVID Local Risk Index	March 2021, Using Data from 2018 and 2014-2018 Estimates	Preventive services, 65+	2014, 1 Year Modeled Estimate 2016, 1 Year Modeled Estimate 2018, 1 Year Modeled Estimate
Dental care	2014, 1 Year Modeled Estimate 2016, 1 Year Modeled Estimate 2018, 1 Year Modeled Estimate	Racial/ethnic diversity	2013, 5 Year Estimate 2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate
Diabetes	2014, 1 Year Modeled Estimate 2015, 1 Year Modeled Estimate 2016, 1 Year Modeled Estimate 2017, 1 Year Modeled Estimate 2018, 1 Year Modeled Estimate 2019, 1 Year Modeled Estimate	Routine checkup, 18+	2014, 1 Year Modeled Estimate 2015, 1 Year Modeled Estimate 2016, 1 Year Modeled Estimate 2017, 1 Year Modeled Estimate 2018, 1 Year Modeled Estimate 2019, 1 Year Modeled Estimate
Firearm Homicides	2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate	Smoking	2014, 1 Year Modeled Estimate 2015, 1 Year Modeled Estimate 2016, 1 Year Modeled Estimate 2017, 1 Year Modeled Estimate 2018, 1 Year Modeled Estimate 2019, 1 Year Modeled Estimate
Firearm Suicides	2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate	Teen births	2012, 3 Year Estimate 2013, 3 Year Estimate 2014, 3 Year Estimate 2015, 3 Year Estimate 2016, 3 Year Estimate 2017, 3 Year Estimate 2018, 3 Year Estimate 2019, 3 Year Estimate 2020, 3 Year Estimate
Frequent mental distress	2014, 1 Year Modeled Estimate 2015, 1 Year Modeled Estimate 2016, 1 Year Modeled Estimate 2017, 1 Year Modeled Estimate 2018, 1 Year Modeled Estimate 2019, 1 Year Modeled Estimate	Third-grade reading scores	2010-2011 2011-2012 2012-2013 2013-2014 2014-2015 2015-2016 2016-2017 2017-2018
Frequent physical distress	2014, 1 Year Modeled Estimate 2015, 1 Year Modeled Estimate 2016, 1 Year Modeled Estimate 2017, 1 Year Modeled Estimate 2018, 1 Year Modeled Estimate 2019, 1 Year Modeled Estimate	Unemployment – annual, neighborhood-level	2013, 5 Year Estimate 2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate
High blood pressure	2013, 1 Year Modeled Estimate 2015, 1 Year Modeled Estimate 2017, 1 Year Modeled Estimate 2019, 1 Year Modeled Estimate	Unemployment - current, city-level	January 2018 – current***
High school completion	2013, 5 Year Estimate 2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate	Uninsured	2013, 5 Year Estimate 2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate
Rent burden	2013, 5 Year Estimate 2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate	Walkability	2019

Housing with potential lead risk	2013, 5 Year Estimate 2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate		
Income Inequality	2013, 5 Year Estimate 2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate		
Lead exposure risk index	2013, 5 Year Estimate 2014, 5 Year Estimate 2015, 5 Year Estimate 2016, 5 Year Estimate 2017, 5 Year Estimate 2018, 5 Year Estimate 2019, 5 Year Estimate 2020, 5 Year Estimate		

***NOTE: Only the most recent 12 months of data are available for Unemployment – current, city-level and Air Pollution - Ozone, via .csv and .txt files. All data are available through the API.