

HINTS Data Linkage Project 2020 (HDLP)

External Variables Codebook

December 2022



HDLP Variable Name	Original Variable Name (if applicable)	Variable Label	Data Source	Data Codebook	Category Values (if applicable)	Bookmark	Additional Notes
ACS_GINI_INDEX		Gini index of income inequality	American Community Survey (ACS) (2015-2019)		Continuous Variable	Social and Economic Factors	Variable calculated by NCI based on ACS Dataset: B19083
ACS_GINI_INDEX_MOE		Margin of Error: Gini index of income inequality	American Community Survey (ACS) (2015-2019)			Social and Economic Factors	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_MEDIAN_HH_INCOME		Median household income (in dollars, inflation-adjusted to file data year)	American Community Survey (ACS) (2015-2019)		Continuous Variable	Social and Economic Factors	Variable calculated by NCI based on ACS Dataset: B19013
ACS_MEDIAN_HH_INCOME_MOE		Margin of Error: Median household income (in dollars, inflation-adjusted to file data year)	American Community Survey (ACS) (2015-2019)			Social and Economic Factors	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_AGE_0_17		Percentage of population age 0–17	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B01001
ACS_PCT_AGE_0_17_MOE		Margin of Error: Percentage of population age 0–17	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_AGE_65UP		Percentage of population age 65 and over	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B01001

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ACS_PCT_AGE_65UP_MOE		Margin of Error: Percentage of population age 65 and over	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_AIAN		Percentage of population reporting American Indian/Alaska Native race	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B02001
ACS_PCT_AIAN_MOE		Margin of Error: Percentage of population reporting American Indian/Alaska Native race	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_BLACK		Percentage of population reporting Black race	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B02001
ACS_PCT_BLACK_MOE		Margin of Error: Percentage of population reporting Black race	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_BROADBAND		Percentage of households with any type of broadband internet subscription	American Community Survey (ACS) (2015-2019)		Continuous Variable	Information Technology	Variable calculated by NCI based on ACS Dataset: B28002
ACS_PCT_BROADBAND_MOE		Margin of Error: Percentage of households with any type of broadband internet subscription	American Community Survey (ACS) (2015-2019)			Information Technology	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived

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							estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_ENGL_NOT_WELL		Percentage of population that does not speak English well (ages 5 and over)	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B16004
ACS_PCT_ENGL_NOT_WELL_MOE		Margin of Error: Percentage of population that does not speak English well (ages 5 and over)	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_ENGL_VERY_WELL		Percentage of population that speaks English very well (ages 5 and over)	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B16004
ACS_PCT_ENGL_VERY_WELL_MOE		Margin of Error: Percentage of population that speaks English very well (ages 5 and over)	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_ENGL_WELL		Percentage of population that speaks English well (ages 5 and over)	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B16004
ACS_PCT_ENGL_WELL_MOE		Margin of Error: Percentage of population that speaks English well (ages 5 and over)	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)

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							tions for Stat Testing ACS .pdf)
ACS_PCT_FOREIGN_BORN		Percentage of population that is foreign-born	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B05001
ACS_PCT_FOREIGN_BORN_MOE		Margin of Error: Percentage of population that is foreign-born	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_HH_PUB_ASIST		Percentage of households with public assistance income or food stamps/SNAP	American Community Survey (ACS) (2015-2019)		Continuous Variable	Social and Economic Factors	Variable calculated by NCI based on ACS Dataset: B19058
ACS_PCT_HH_PUB_ASIST_MOE		Margin of Error: Percentage of households with public assistance income or food stamps/SNAP	American Community Survey (ACS) (2015-2019)			Social and Economic Factors	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_HISPAN		Percentage of population reporting Hispanic ethnicity	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B03003
ACS_PCT_HISPAN_MOE		Margin of Error: Percentage of population reporting Hispanic ethnicity	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)

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ACS_PCT_INTERNET		Percentage of households with any internet connection	American Community Survey (ACS) (2015-2019)		Continuous Variable	Information Technology	Variable calculated by NCI based on ACS Dataset: B28002
ACS_PCT_INTERNET_MOE		Margin of Error: Percentage of households with any internet connection	American Community Survey (ACS) (2015-2019)			Information Technology	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_LIMIT_ENGLISH		Percentage of households with limited English speaking	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: C16002
ACS_PCT_LIMIT_ENGLISH_MOE		Margin of Error: Percentage of households with limited English speaking	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_MULT_RACE		Percentage of population reporting multiple races	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B02001
ACS_PCT_MULT_RACE_MOE		Margin of Error: Percentage of population reporting multiple races	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_NO_PC		Percentage of households without a computer	American Community Survey (ACS) (2015-2019)		Continuous Variable	Information Technology	Variable calculated by NCI based on ACS Dataset: B28001

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ACS_PCT_NO_PC_MOE		Margin of Error: Percentage of households without a computer	American Community Survey (ACS) (2015-2019)			Information Technology	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_RENTED_HH		Percentage of occupied housing units: rented	American Community Survey (ACS) (2015-2019)		Continuous Variable	Social and Economic Factors	Variable calculated by NCI based on ACS Dataset: B25003
ACS_PCT_RENTED_HH_MOE		Margin of Error: Percentage of occupied housing units: rented	American Community Survey (ACS) (2015-2019)			Social and Economic Factors	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)
ACS_PCT_UNINSURED		Percentage of population with no health insurance coverage	American Community Survey (ACS) (2015-2019)		Continuous Variable	Demographics	Variable calculated by NCI based on ACS Dataset: B27010
ACS_PCT_UNINSURED_MOE		Margin of Error: Percentage of population with no health insurance coverage	American Community Survey (ACS) (2015-2019)			Demographics	MOE calculated by NCI using the method described on pages 3-4 (approximating standard errors for derived estimates: https://www2.census.gov/programs-surveys/acs/tech_docs/statistical_testing/2019_Instructions_for_Stat_Testing_ACS.pdf)

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AHRF_TOT_COM_HEALTH_GRANT		Number of community health centers, grantees only	Health Resources and Services Administration (HRSA) Data Warehouse from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Built Environment	Margins of Error are not available for data points from AHRF files (SDOH Data Source Documentation pg 91)
AHRF_POS_TOT_FQHC	POS_TOT_FQHC	Number of Federally Qualified Health Centers	Area Health Resources Files (AHRF) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Built Environment	Margins of Error are not available for data points from AHRF files (SDOH Data Source Documentation pg 91) Numerator and denominator information available in SDOH Data Source Documentation
AHRF_HPSA_MENTAL		Health Professional Shortage Area (HPSA) code-shortage of mental healthcare providers	Area Health Resources Files (AHRF) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	0 = None of the county designated as a shortage area, 1 = Whole county designated as a shortage area, 2 = One or more parts of county designated as shortage area	Built Environment	Margins of Error are not available for data points from AHRF files (SDOH Data Source Documentation pg 91)
AHRF_HPSA_PRIM		Health Professional Shortage Area (HPSA) code-shortage of primary care physicians	Area Health Resources Files (AHRF) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	0 = None of the county designated as a shortage area, 1 = Whole county designated as a shortage area, 2 = One or more parts of county designated as shortage area	Built Environment	Margins of Error are not available for data points from AHRF files (SDOH Data Source Documentation pg 91)
AHRF_PCT_GOOD_AQ		Percentage of days with good air quality	Area Health Resources Files (AHRF) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Physical Environment	Margins of Error are not available for data points from AHRF files (SDOH Data Source Documentation pg 91)
CCBP_BWLSTORES_RATE		Beer, wine and liquor stores per 1,000 people	U.S. Census County Business Patterns (CCBP) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Built Environment	Margins of Error are not available for data points from CCBP files (SDOH Data Source Documentation pg 147)

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CCBP_CS_RATE		Convenience stores per 1,000 people	U.S. Census County Business Patterns (CCBP) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Built Environment	Margins of Error are not available for data points from CCBP files (SDOH Data Source Documentation pg 147)
CCBP_FCRSC_RATE		Fitness centers and recreational sports centers per 1,000 people	U.S. Census County Business Patterns (CCBP) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Built Environment	Margins of Error are not available for data points from CCBP files (SDOH Data Source Documentation pg 147)
CCBP_FF_RATE		Limited service restaurants (fast food establishments) per 1,000 people	U.S. Census County Business Patterns (CCBP) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Built Environment	Margins of Error are not available for data points from CCBP files (SDOH Data Source Documentation pg 147)
CCBP_SOGS_RATE		Supermarkets and other grocery (except convenience) stores per 1,000 people	U.S. Census County Business Patterns (CCBP) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Built Environment	Margins of Error are not available for data points from CCBP files (SDOH Data Source Documentation pg 147)
CHR_MENTAL_PROV_RATE		Number of mental health care providers per 100,000 population	County Health Rankings (CHR) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Built Environment	Confidence intervals are available in the original CHR dataset (SDOH Data Source Documentation pg 214)
CHR_SEGREG_BLACK		Segregation Index (higher values indicate greater residential segregation between Black and White residents)	County Health Rankings (CHR) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Social and Economic Factors	Confidence intervals are available in the original CHR dataset (SDOH Data Source Documentation pg 214)
CHR_SEGREG_NON_WHITE		Segregation Index (higher values indicate greater residential segregation between non-White and White residents)	County Health Rankings (CHR) from Agency for Healthcare Research and Quality (AHRQ) Social Determinants of Health (SDOH) Dataset 2019	https://www.ahrq.gov/sdoh/data-analytics/sdoh-data.html#download	Continuous Variable	Social and Economic Factors	Confidence intervals are available in the original CHR dataset (SDOH Data Source Documentation pg 214)
CDCSVI_RPL_THEME1_SOCIECO_2018	CDCSVI_RPL_THEME1_SOCIECO	Social Vulnerability Index: Percentile ranking for socioeconomic theme. (Percentile ranking values range from 0 to 1, with higher values indicating greater vulnerability.)	Social Vulnerability Index (SVI) from Agency for Toxic Substances and Disease Registry (ATSDR) Geospatial Research, Analysis & Services Program (GRASP) Centers for Disease Control and Prevention Social	https://www.atsdr.cdc.gov/placeandhealth/svi/documentation/svi_documentation_2018.html	Continuous Variable	Social and Economic Factors	Note that the CDC Social Vulnerability Index is not available for 2019, so we chose to include the 2018 SVI variables.

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			Vulnerability Index (CDC SVI) Dataset 2018				
CDCSVI_RPL_THEME2_HH_COMP_2018	CDCSVI_RPL_THEME2_HH_COMP	Social Vulnerability Index: Percentile ranking for household composition theme. (Percentile ranking values range from 0 to 1, with higher values indicating greater vulnerability.)	Social Vulnerability Index (SVI) from Agency for Toxic Substances and Disease Registry (ATSDR) Geospatial Research, Analysis & Services Program (GRASP) Centers for Disease Control and Prevention Social Vulnerability Index (CDC SVI) Dataset 2018	https://www.atsdr.cdc.gov/placeandhealth/svi/documentatio n/SVI_documentatio n_2018.html	Continuous Variable	Social and Economic Factors	Note that the CDC SVI is not available for 2019, so we chose to include the 2018 SVI variables.
CDCSVI_RPL_THEME3_MINO_2018	CDCSVI_RPL_THEME3_MINO	Social Vulnerability Index: Percentile ranking for minority status/language theme. (Percentile ranking values range from 0 to 1, with higher values indicating greater vulnerability.)	Social Vulnerability Index (SVI) from Agency for Toxic Substances and Disease Registry (ATSDR) Geospatial Research, Analysis & Services Program (GRASP) Centers for Disease Control and Prevention Social Vulnerability Index (CDC SVI) Dataset 2018	https://www.atsdr.cdc.gov/placeandhealth/svi/documentatio n/SVI_documentatio n_2018.html	Continuous Variable	Social and Economic Factors	Note that the CDC SVI is not available for 2019, so we chose to include the 2018 SVI variables.
CDCSVI_RPL_THEME4_HH_TRANS_2018	CDCSVI_RPL_THEME4_HH_TRANS	Social Vulnerability Index: Percentile ranking for housing/transportation theme. (Percentile ranking values range from 0 to 1, with higher values indicating greater vulnerability.)	Social Vulnerability Index (SVI) from Agency for Toxic Substances and Disease Registry (ATSDR) Geospatial Research, Analysis & Services Program (GRASP) Centers for Disease Control and Prevention Social Vulnerability Index (CDC SVI) Dataset 2018	https://www.atsdr.cdc.gov/placeandhealth/svi/documentatio n/SVI_documentatio n_2018.html	Continuous Variable	Social and Economic Factors	Note that the CDC SVI is not available for 2019, so we chose to include the 2018 SVI variables.
CDCSVI_RPL_THEMES_ALL_2018	CDCSVI_RPL_THEMES_ALL	Percentile ranking for overall Social Vulnerability Index. (Percentile ranking values range from 0 to 1, with higher values indicating greater vulnerability.)	Social Vulnerability Index (SVI) from Agency for Toxic Substances and Disease Registry (ATSDR) Geospatial Research, Analysis & Services Program (GRASP) Centers for Disease Control and Prevention Social Vulnerability Index (CDC SVI) Dataset 2018	https://www.atsdr.cdc.gov/placeandhealth/svi/documentatio n/SVI_documentatio n_2018.html	Continuous Variable	Social and Economic Factors	Note that the CDC SVI is not available for 2019, so we chose to include the 2018 SVI variables.

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YOST_INDEX_SES	Yost_Index	Yost Index is a measure of SES. For more details see Yost et al 2001 and the HINTS SEER Codebook. Higher scores indicate better SES.	SEER*Stat, American Community Survey (ACS) 2015-2019		Continuous Variable	Social and Economic Factors	Index is based on the following variables: Median household income, Median house value, Median rent, Percent below 150% of poverty line, Education Index, Percent working class, and Percent unemployed Yost Index is also sometimes referred to as the Social Deprivation Index and higher scores indicate better SES. https://pubmed.ncbi.nlm.nih.gov/11562110/ More information available in https://seer.cancer.gov/seerstat/databases/census-tract/index.html
TOTALHOUSEHOLDS_2019	S2801_C01_001E	Estimated Total Number of households	American Community Survey (ACS) 2015-2019	https://data.census.gov/cedsci/table?q=S2801&g=0100000US%240500000&y=2019&tid=ACSST5Y2019.S2801	Continuous Variable	Demographics	
PCT_COMPUTERS	S2801_C02_002E	Estimated percentage of households that have one or more types of computing devices	American Community Survey (ACS) 2015-2019	https://data.census.gov/cedsci/table?q=S2801&g=0100000US%240500000&y=2019&tid=ACSST5Y2019.S2801	Continuous Variable	Information Technology	
MOE_PCT_COMPUTERS	S2801_C02_002M	Margin of Error for Estimated percentage of households that have one or more types of computing devices	American Community Survey (ACS) 2015-2019	https://data.census.gov/cedsci/table?q=S2801&g=0100000US%240500000&y=2019&tid=ACSST5Y2019.S2801		Information Technology	
PCT_NOCOMPUTERS	S2801_C02_011E	Estimated percentage of households with no computer	American Community Survey (ACS) 2015-2019	https://data.census.gov/cedsci/table?q=S2801&g=0100000US%240500000&y=2019&tid=ACSST5Y2019.S2801	Continuous Variable	Information Technology	
MOE_PCT_NOCOMPUTERS	S2801_C02_011M	Margin of Error for Estimated percentage of households with no computer	American Community Survey (ACS) 2015-2019	https://data.census.gov/cedsci/table?q=S2801&g=0100000US%240500000&y=2019&tid=ACSST5Y2019.S2801		Information Technology	

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PCT_BROADBAND	S2801_C02_014E	Estimated percentage of total households with an Internet subscription: Broadband of any type	American Community Survey (ACS) 2015-2019	https://data.census.gov/cedsci/table?q=S2801&g=0100000US%240500000&y=2019&tid=ACST5Y2019.S2801	Continuous Variable	Information Technology	
MOE_PCT_BROADBAND	S2801_C02_014M	Margin of Error for Estimated percentage of total households with an Internet subscription: Broadband of any type	American Community Survey (ACS) 2015-2019	https://data.census.gov/cedsci/table?q=S2801&g=0100000US%240500000&y=2019&tid=ACST5Y2019.S2801		Information Technology	
PCT_NOINTERNET	S2801_C02_019E	Estimated percentage of total households without an Internet subscription	American Community Survey (ACS) 2015-2019	https://data.census.gov/cedsci/table?q=S2801&g=0100000US%240500000&y=2019&tid=ACST5Y2019.S2801	Continuous Variable	Information Technology	
MOE_PCT_NOINTERNET	S2801_C02_019M	Margin of Error for Estimated percentage of total households without an Internet subscription	American Community Survey (ACS) 2015-2019	https://data.census.gov/cedsci/table?q=S2801&g=0100000US%240500000&y=2019&tid=ACST5Y2019.S2801		Information Technology	
ADULTSMOKING_QUARTILE	Quartile (% Smokers)	Within-state quartile of adults who are current smokers	Behavioral Risk Factor Surveillance System (BRFSS) 2018 from 2021 County Health Rankings	https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation	Within-state rank: 1 = top quartile, 2=second quartile, 3= third quartile, 4=bottom quartile	Physical Environment	
FOODENVIRONMENTINDEX_QUARTILE	Quartile (Food Environment Index)	Within-state quartile of food environment index	USDA Food Environment Atlas, Map the Meal Gap from Feeding America 2018 from 2021 County Health Rankings	https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation	Within-state rank: 1 = top quartile, 2=second quartile, 3= third quartile, 4=bottom quartile	Built Environment	
EXERCISEACCESS_QUARTILE	Quartile (% With Access to Exercise Opportunities)	Within-state quartile of adequate access to places for physical activity	Business Analyst, Delorme map data, ESRI, & US Census Tigerline Files 2019 from 2021 County Health Rankings	https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation	Within-state rank: 1 = top quartile, 2=second quartile, 3= third quartile, 4=bottom quartile	Built Environment	
AVG_DAILY_PM_QUARTILE	Quartile (Average Daily PM2.5)	Within-state quartile of air pollution - particulate matter	Environment Public Health Tracking Network 2016 from 2021 County Health Rankings	https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation	Within-state rank: 1 = top quartile, 2=second quartile, 3= third quartile, 4=bottom quartile	Physical Environment	

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SVR_HOUSING_PRBLM_PCT	% Severe Housing Problems	Percentage of households with at least 1 of 4 housing problems: overcrowding, high housing costs, lack of kitchen facilities, or lack of plumbing facilities	Comprehensive Housing Affordability Strategy (CHAS) data 2013-2017 from 2021 County Health Rankings	https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation	Continuous Variable	Social and Economic Factors	
HOUSING_COST_BURDEN_PCT	Severe Housing Cost Burden	Percentage of households with high housing costs	Comprehensive Housing Affordability Strategy (CHAS) data 2013-2017 from 2021 County Health Rankings	https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation	Continuous Variable	Social and Economic Factors	
OVERCROWDING_PCT	Overcrowding	Percentage of households with overcrowding	Comprehensive Housing Affordability Strategy (CHAS) data 2013-2017 from 2021 County Health Rankings	https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation	Continuous Variable	Social and Economic Factors	
INADEQUATE_FACILITIES_QUARTILE	Quartile (Inadequate Facilities)	Within-state quartile of households with inadequate kitchen or plumbing facilities	Comprehensive Housing Affordability Strategy (CHAS) data 2013-2017 from 2021 County Health Rankings	https://www.countyhealthrankings.org/explore-health-rankings/rankings-data-documentation	Within-state rank: 1 = top quartile, 2=second quartile, 3= third quartile, 4=bottom quartile	Social and Economic Factors	