

## **Housing & Mobility Files**

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## Housing & Mobility File

### American Community Survey Subfile

URL: <https://www.census.gov/programs-surveys/acs/data.html>

Variable Name	Description	Column	Length	Format	Table	Numerator	Denominator
ct_version	Census tract assignment version	1	2	01 = 2010 Census Tract			
timeperiod_acs	Time period: ACS Data	3	2	01= ACS 2008-2012 02= ACS 2013-2017			
state	State	5	2				
county	County	7	3				
tract_num	Tract	10	6				
ct_poptot	Total Population	16	10				total population
ct_householdtot	Total Households	26	10				total households
ct_popdensity	Population Density	36	8			total population	square mile land area
pct_nomove	Pct did not Move in the Past Year: Total Population	44	6		B07001	persons that did not move residence over past year	total population
pct_localmove	Pct moved within the Same County or State: Total Population	50	6		B07001	persons who moved within state, past year	total population
pct_xstatemove	Pct moved from a Different State: Total Population	56	6		B07001	persons who moved from different state, past year	total population
pct_moved2US	Pct moved from Abroad: Total Population	62	6		B07001	persons who moved from outside of U.S., past year	total population

Variable Name	Description	Column	Length	Format	Table	Numerator	Denominator
pct_limEng5yrs	Pct not speaking English well or not at all: Population 5+	68	6		B16004	persons age >=5 years who do not speak English well or at all	population age >=5 years
pct_limEng65yrs	Pct not speaking English well or not at all: Population 65+	74	6		B16004	persons age >=65 years who do not speak English well or at all	population age >=65 years
pct_HH_limEng	Pct Limited English Speaking: Total Households	80	6		B16002 C16002	HH with a member who does not speak English well or at all	total households
pct_nonUSborn	Pct born outside of the U.S.: Total Population	86	6		B05002	persons born outside of the U.S	total population
pct_commute_gte30mins	Pct Travel to work time >=30 minutes: Commuters 16+	92	6		B08303	persons age >=16 years with commute time to work >=30 minutes	population age >=16 years who commute to work
pct_commute_pubtrans	Pct using public transportation to travel to work: Commuters 16+	98	6		B08134	persons age >=16 years who use public transportation to commute to work	population age >=16 years who commute to work
pct_workers_novehic	Pct with no vehicle: Population of workers 16+	104	6		B08014	workers age >=16 years with no personal vehicle access	workers age >=16 years

Variable Name	Description	Column	Length	Format	Table	Numerator	Denominator
pct_HH_nophone	Pct with no telephone service: Total Households	110	6		B25043	HH with no telephone service	total households
pct_HH_nointernet	Pct with no internet access: Total Households	116	6		B28002	HH with no internet access	total households
pct_HH_broadband	Pct with Broadband: Total Households	122	6		B28002	HH with broadband access	total households
pct_HH_nocomputer	Pct with no computer: Total Households	128	6		B28001	HH with no computer	total households
pct_HH_havecomputer	Pct with computer: Total Households	134	6		B28001	HH with a computer	total households
pct_rented	Pct of occupied units rented: Total Occupied Housing Units	140	6		B25003	occupied housing units that are rented	total occupied housing units
med_gross_rent	Median Gross Rent: Renter occupied households	146	10		B25064	median gross rent	renter occupied households
pct_renters_rentgte30pct	Pct with gross rent > 30% of household income: Renter Occupied Housing Units	156	6		B25070	renter occupied housing units with rent > 30% of household income	renter occupied housing units
pct_gte1occupant	Pct with >1 Occupant per room, Total Occupied Housing Units	162	6		B25014	occupied housing units with >1 occupant per room	occupied housing units
med_home_val	Median Home Value	168	10		B25077	\$ value of housing unit	occupied housing units

Variable Name	Description	Column	Length	Format	Table	Numerator	Denominator
med_monthly_housingcost	Median Monthly Housing Costs	178	10		B25105	monthly housing \$ costs	occupied housing units with non-zero costs
pct_HH_multifam	Pct in buildings with 10+ units: Total households	188	6		B25024	HH in buildings with >=10 units	total households
pct_HH_mobile	Pct mobile home: Total Households	194	6		B11011	HH is a mobile home	total households
pct_unoccupied	Pct of Housing Units not occupied: Total Housing Units	200	6		B25002	housing units not occupied	total housing units
LQ_White_Alone	Location Quotient (LQ): White alone	206	10				
LQ_Black_Alone	Location Quotient (LQ): Black alone	216	10				
LQ_API_Alone	Location Quotient (LQ): Asian or Pacific Islander alone	226	10				
LQ_Hispanic	Location Quotient (LQ): Hispanic alone	236	10				
Lex_Is_Black_Alone_White_Alone	Local Exposure and Isolation (Lex/IS): Black or African American Alone/White Alone	246	10				
Lex_Is_API_Alone_White_Alone	Local Exposure and Isolation (Lex/IS): Asian or Pacific Islander Alone/White Alone	256	10				
Lex_Is_Hispanic_NH_White_Alone	Local Exposure and Isolation (Lex/IS): Hispanic/White Alone, Non-Hispanic	266	10				

Variable Name	Description	Column	Length	Format	Table	Numerator	Denominator
ICE_Black_Alone_White_Alone	Index of Concentration at Extremes (ICE): Black or African American Alone/White Alone	276	10				
ICE_API_Alone_White_Alone	Index of Concentration at Extremes (ICE): Asian or Pacific Islander Alone/White Alone	286	10				
ICE_Hispanic_NH_White_Alone	Index of Concentration at Extremes (ICE): Hispanic/White Alone, Non-Hispanic	296	10				
LIS_White_Alone	Local Isolation Score: White alone	306	10				
LIS_Black_Alone	Local Isolation Score: Black alone	316	10				
LIS_API_Alone	Local Isolation Score: Asian or Pacific Islander alone	326	10				
LIS_Hispanic	Local Isolation Score: Hispanic	336	10				
LIS_NH_White_Alone	Local Isolation Score: NH_White Alone	346	10				

## Housing & Mobility File

### Centers for Disease Control and Prevention Environmental Justice Subfile

<https://www.atsdr.cdc.gov/place-health/php/eji/index.html>

Variable Name	Description	Column	Length	Format	Numerator	Denominator	Notes
ct_version	Census tract assignment	1	2	01 = 2010 Census Tract			
timeperiod_eji	Time period: EJI Data	3	2	01 = EJI 2022 (sourced from ACS 2015 - 2019)			
state	State	5	2				
county	County	7	3				
tract_num	Tract	10	6				
pctl_EJI_airqual	CDC Env Justice: Percentile rank air quality domain	16	6		percentile ranking	all census tracts	U.S. Environmental Protection Agency Air Quality System data 2014-2016
pctl_EJI_toxsites	CDC Env Justice: Percentile rank of domain capturing proximity to polluted sites or high risk sites	22	6		percentile ranking	all census tracts	U.S. Environmental Protection Agency Facility Registry Service (FRS) 2021 data; U.S. Mine Safety and Health Administration Mine Data Retrieval System (MDRS) 2021 data

Variable Name	Description	Column	Length	Format	Numerator	Denominator	Notes
pctl_EJI_builtenv	CDC Env Justice: Percentile rank of domain capturing built environment	28	6		percentile ranking	all census tracts	TomTom MultiNet® Enterprise Dataset, 2020; American Community Survey, 2015-2019; U.S. Environmental Protection Agency National Walkability Index, 2021;
pctl_EJI_transport	CDC Env Justice: Percentile rank of domain capturing proximity to transportation infrastructure	34	6		percentile ranking	all census tracts	TomTom MultiNet® Enterprise Dataset, 2020
pctl_EJI_waterpol	CDC Env Justice: Percentile rank of domain capturing proximity to impaired bodies of water	40	6		percentile ranking	all census tracts	U.S. Environmental Protection Agency Watershed Index Online (WSIO), 2019
pctl_EJI_envburden	CDC Env Justice: The environmental burden module percentile ranks	46	6		percentile ranking	all census tracts	
sum_EJI_alldoms	CDC Env Justice: Summation of percentile ranks of all the domains	52	6		summation of percentile ranks of all the domains	all census tracts	



## Housing & Mobility

### Centers for Disease Control and Prevention Social Vulnerability Index Subfile

URL: <https://www.atsdr.cdc.gov/place-health/php/svi/svi-data-documentation-download.html>

Variable Name	Description	Column	Length	Format	Numerator	Denominator	Notes
ct_version	Census tract assignment	1	2	01 = 2010 Census Tract			
timeperiod_svi	Time period: SVI Data	3	2	01 = SVI 2010 (sourced from 2010 Census, ACS 2006-2010) 02 = SVI 2016 (sourced from ACS 2012 - 2016)			
state	State	5	2				
county	County	7	3				
tract_num	Tract	10	6				
pctl_SVI_socioec	Percentile Ranking for Socioeconomic theme summary	16	6		percentile ranking	all census tracts	Percentile ranking occurs for each measure separately. They are summed for the measures within each theme and then reranked.
pctl_SVI_HHcomp	Percentile Ranking for household composition theme summary	22	6		percentile ranking	all census tracts	Percentile ranking occurs for each measure separately. They are summed for the measures within each theme and then reranked.

Variable Name	Description	Column	Length	Format	Numerator	Denominator	Notes
pctl_SVI_minoritystat	Percentile Ranking for minority status/language theme summary	28	6		percentile ranking	all census tracts	Percentile ranking occurs for each measure separately. They are summed for the measures within each theme and then reranked.
pctl_SVI_transp	Percentile Ranking for Housing/Transportation theme summary	34	6		percentile ranking	all census tracts	Percentile ranking occurs for each measure separately. They are summed for the measures within each theme and then reranked.
pctl_SVI_overall	Overall percentile ranking	40	6		percentile ranking	all census tracts	Percentile ranking occurs for each theme separately. They are summed and then the summed variable is ranked.
flagsum_SVI_socioec	Sum of flags for Socioeconomic theme summary	46	6		-----	-----	Flags indicate that percentile for each measure is in top 90%. This variable is a sum of the flags for measures in the theme.

Variable Name	Description	Column	Length	Format	Numerator	Denominator	Notes
flagsum_SVI_HHcomp	Sum of flags for household composition theme summary	52	6		-----	-----	Flags indicate that percentile for each measure is in top 90%. This variable is a sum of the flags for measures in the theme.
flagsum_SVI_minoritystat	Sum of flags for minority status/language theme summary	58	6		-----	-----	Flags indicate that percentile for each measure is in top 90%. This variable is a sum of the flags for measures in the theme.
flagsum_SVI_transp	Sum of flags for Housing/Transportation theme summary	64	6		-----	-----	Flags indicate that percentile for each measure is in top 90%. This variable is a sum of the flags for measures in the theme.
flagsum_SVI_all	Sum of flags for the four themes	70	6		-----	-----	Flags indicate that percentile for each measure is in top 90%. This variable is a sum of the flags for measures in the theme.

## Housing & Mobility File

### Home Mortgage Disclosure Act (HMDA) Subfile

<https://www.mcw.edu/departments/epidemiology/research/breast-cancer-race-and-place>

Variable Name	Description	Column	Length	Format	Notes
ct_version	Census tract assignment	1	2	01 = 2010 Census Tract	
timeperiod_hmda	Time period: HMDA Data	3	2	01 = Aggregated 2010 - 2017	
state	State	5	2		
county	County	7	3		
tract_num	Tract	10	6		
odds_locationbias	HMDA Mortgage Denial: Location Bias	16	6		Measure captures the odds of mortgage application denial for census tract (centroid) relative to all other tracts in MSA
odds_mortgagedeny_black	HMDA Mortgage Denial: Racial Bias	22	6		Measure captures the odds of denial of a mortgage application if the primary applicant is Black, compared to Non-Hispanic White, adjusted for applicant sex and the loan to income ratio.
odds_mortgagedeny_hisp	HMDA Mortgage Denial: Ethnic Bias	28	6		Measure captures the odds of denial of a mortgage application if the primary applicant is Hispanic, compared to Non-Hispanic White, adjusted for applicant sex and the loan to income ratio.

## Housing & Mobility File

### Home Owner Loan Corporation (HOLC) Subfile

URL: [https://data.diversitydatakids.org/dataset/holc\\_census\\_tracts-home-owner-loan-corporation--holc--neighborhood-grades-for-us-census-tracts/resource/848dbd07-6913-4757-85bc-fc0c37f5c6fb](https://data.diversitydatakids.org/dataset/holc_census_tracts-home-owner-loan-corporation--holc--neighborhood-grades-for-us-census-tracts/resource/848dbd07-6913-4757-85bc-fc0c37f5c6fb)

Variable Name	Description	Column	Length	Format	Notes
ct_version	Census tract assignment	1	2	01 = 2010 Census Tract	
timeperiod_holc	Time period: HOLC Data	3	2	01 = Neighborhood ratings mapped to 2010 census tracts	
state	State	5	2		
county	County	7	3		
tract_num	Tract	10	6		
HOLC_class1	HOLC Historic Redlining: HOLC grade covering the most area	16	1		GIS mapping used to overlay historic maps used by HOLC onto contemporary census tract assignments for 2010 and 2020. HOLC grade (A-D) covering the most area of the contemporary census tract
HOLC_class2_red	HOLC Historic Redlining: Simplified 10-level version of HOLC grade covering the most and second most area	17	23		HOLC grade 2 reports top 2 grades covering most of the contemporary census tract. This is a simplified 10-level version of class 2 that combines relatively rare rating combinations.

## Housing & Mobility File

### United States Department of Agriculture Food Access Subfile

<https://www.ers.usda.gov/data-products/food-access-research-atlas>

Variable Name	Description	Column	Length	Format	Numerator	Denominator	Notes
ct_version	Census tract assignment version	1	2	01 = 2010 Census Tract			
timeperiod_foodacc	Time period: Food Access Data	3	2	01 = USDA 2010 02 = USDA 2015			
state	State	5	2				
county	County	7	3				
tract_num	Tract	10	6				
ct_non_rural	USDA ERS: Urban Tract	16	1		dummy variable		
ct_rural	USDA ERS: Rural Tract	17	1		dummy variable		
lowfoodct_halfmile	USDA ERS: Low access tract at 1/2 mile	18	1		dummy variable		A tract with at least 500 people, or 33 percent of the population, living more than ½ mile from the nearest supermarket, supercenter, or large grocery store.
lowfoodct_1mile	USDA ERS: Low access tract at 1 mile	19	1		dummy variable		A tract with at least 500 people, or 33 percent of the population, living more than 1 mile from the nearest supermarket, supercenter, or large grocery store.

Variable Name	Description	Column	Length	Format	Numerator	Denominator	Notes
lowfoodct_10mile	USDA ERS: Low access tract at 10 miles	20	1		dummy variable		A tract with at least 500 people, or 33 percent of the population, living more than 10 miles from the nearest supermarket, supercenter, or large grocery store.
lowfoodct_20mile	USDA ERS: Low access tract at 20 miles	21	1		dummy variable		A tract with at least 500 people, or 33 percent of the population, living more than 20 miles from the nearest supermarket, supercenter, or large grocery store.
lowfood_nocar_20mile	USDA ERS: Low access tract using vehicle access and 20 mile threshold	22	1		dummy variable		Flag for tract where $\geq 100$ of households do not have a vehicle, and live $> 1/2$ mile from supermarket; or $\geq 500$ individuals are $> 20$ miles from supermarket ; or $\geq 33\%$ of individuals reside $> 20$ miles from supermarket
pct_lowfood_halfmile	USDA ERS: Low access, people at $1/2$ mile, share	23	6		persons living $> 1/2$ mile from grocery store	total population	

Variable Name	Description	Column	Length	Format	Numerator	Denominator	Notes
pct_lowfood_nocar_halfmile	USDA ERS: Vehicle access, housing units without and low access at 1/2 mile, share	29	6		HH with no vehicle access & living >1/2 mile from grocery store	housing units	
pct_lowfood_1mile	USDA ERS: Percent low access, 1 mile threshold	35	6		persons living >1 mile from grocery store	total population	
pct_lowfood_nocar_1mile	USDA ERS: Vehicle access, housing units without and low access at 1 mile, share	41	6		HH with no vehicle access & living >1 mile from grocery store	housing units	
pct_lowfood_10mile	USDA ERS: Low access, people at 10 miles, share	47	6		persons living >10 miles from grocery store	total population	
pct_lowfood_nocar_10mile	USDA ERS: Vehicle access, housing units without and low access at 10 miles, share	53	6		HH with no vehicle access & living >10 miles from grocery store	housing units	
pct_lowfood_20mile	USDA ERS: Low access, people at 20 miles, share	59	6		persons living >20 miles from grocery store	total population	
pct_lowfood_nocar_20mile	USDA ERS: Vehicle access, housing units without and low access at 20 miles, share	65	6		HH with no vehicle access & living >20s mile from grocery store	housing units	