

Package: nycdemog (via r-universe)

October 7, 2026

Title New York City Demographic Data from the Census

Version 0.0.3

Description County-, tract-, and block-level demographic data for the five counties of New York City, derived from the US Census Bureau via 'tidycensus'. Provides curated tibbles keyed by GEOID and thin wrapper functions for fetching custom NYC slices on demand.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

Depends R (>= 4.1.0)

Imports cli, dplyr (>= 1.1.0), rlang, tidycensus, tidyr

Suggests censusapi, ggplot2, nycmaps, sf, testthat (>= 3.0.0), tibble (>= 3.0.0), withr

LazyData true

LazyDataCompression xz

Config/testthat/edition 3

URL <https://kjhealy.github.io/nycdemog/>,
<https://github.com/kjhealy/nycdemog>

BugReports <https://github.com/kjhealy/nycdemog/issues>

Config/roxygen2/version 8.1.0

Remotes kjhealy/nycmaps

Config/pak/sysreqs libabsl-dev cmake libgdal-dev gdal-bin libgeos-dev libicu-dev libxml2-dev libssl-dev libproj-dev libsqlite3-dev libudunits2-dev libx11-dev

Repository <https://kjhealy.r-universe.dev>

Date/Publication 2026-09-18 16:07:14 UTC

RemoteUrl <https://github.com/kjhealy/nycdemog>

RemoteRef HEAD

RemoteSha cc8da389b11a8b35b060bcd6e3410bff1098105e

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get_nyc_acs	<i>Get American Community Survey data for New York City</i>
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Description

A thin wrapper around `tidycensus::get_acs()` that hard-codes New York City geographies, never downloads geometry, and returns a tidy tibble keyed by geoid (lowercased) with a county column (borough name) ready for joining to the spatial objects in the nycmaps package.

Usage

```
get_nyc_acs(  
  variables,  
  year = NULL,  
  geography = c("tract", "block group", "county", "puma"),  
  survey = "acs5",  
  summary_var = NULL,
```

```

    output = c("wide", "tidy"),
    ...
  )

```

Arguments

variables	A character vector (optionally named) of Census variable IDs. See load_nyc_variables() or tidycensus::load_variables() .
year	ACS endyear. If NULL (the default), uses the tidycensus::get_acs() default, which is the most recent vintage that tidycensus supports.
geography	Geographic level. One of "tract" (default), "block group", "county", or "puma". For "tract", "block group", and "county" the request is restricted to the five NYC counties via tidycensus's county argument. For "puma", tidycensus does not accept a county filter, so all NY state PUMAs are requested and then filtered down to the 55 NYC PUMAs using an internal crosswalk. The crosswalk vintage is chosen from year: ACS endyears up to and including 2021 use the 2010 PUMA vintage, 2022 and later use the 2020 vintage. See nyc_pumas() .
survey	ACS sample, passed to tidycensus::get_acs() . Defaults to "acs5".
summary_var	Optional summary (denominator) variable.
output	"wide" (the default) or "tidy". When "wide", the variable column is pivoted out so each variable becomes its own column.
...	Additional arguments forwarded to tidycensus::get_acs() .

Value

A tibble with geoid and county as the first two columns, followed by the requested variables. The ACS endyear actually used is stored in the "acs_year" attribute.

See Also

[get_nyc_decennial\(\)](#), [load_nyc_variables\(\)](#), [nyc_counties\(\)](#), [nyc_pumas\(\)](#)

Examples

```

## Not run:
# Median household income, latest 5-year ACS, NYC tracts.
get_nyc_acs(c(med_hhinc = "B19013_001"))

# Same, but at the PUMA level.
get_nyc_acs(
  c(med_hhinc = "B19013_001"),
  geography = "puma"
)

# Same, but one row per borough.
get_nyc_acs(
  c(med_hhinc = "B19013_001"),
  geography = "county"
)

```

```

)

# Race and Hispanic origin, with total population as the denominator.
race_vars <- c(
  nh_white = "B03002_003",
  nh_black = "B03002_004",
  nh_asian = "B03002_006",
  hispanic = "B03002_012"
)
get_nyc_acs(race_vars, summary_var = "B03002_001")

## End(Not run)

```

get_nyc_decennial	<i>Get Decennial Census data for New York City</i>
-------------------	--

Description

A thin wrapper around `tidycensus::get_decennial()` that hard-codes the five New York City counties, never downloads geometry, and returns a tidy tibble keyed by geoid (lowercased) with a county column ready for joining to the spatial objects in the nycmaps package.

Usage

```

get_nyc_decennial(
  variables,
  year = 2020,
  geography = c("tract", "block", "block group", "county"),
  sumfile = "pl",
  summary_var = NULL,
  output = c("wide", "tidy"),
  ...
)

```

Arguments

<code>variables</code>	A character vector (optionally named) of Census variable IDs. See <code>load_nyc_variables()</code> or <code>tidycensus::load_variables()</code> .
<code>year</code>	Decennial Census year. Defaults to 2020. 2000 and 2010 are also accepted by <code>tidycensus</code> .
<code>geography</code>	Geographic level. One of "tract" (default), "block", "block group", or "county".
<code>sumfile</code>	Census summary file. Defaults to "pl" (the redistricting file). For tract-level demographic and housing characteristics use "dhc".
<code>summary_var</code>	Optional summary (denominator) variable.
<code>output</code>	"wide" (the default) or "tidy".
<code>...</code>	Additional arguments forwarded to <code>tidycensus::get_decennial()</code> .

Value

A tibble with geoid and county as the first two columns, followed by the requested variables. The Census year and sumfile used are stored in the "decennial_year" and "decennial_sumfile" attributes.

See Also

[get_nyc_acs\(\)](#), [load_nyc_variables\(\)](#), [nyc_counties\(\)](#)

Examples

```
## Not run:
# 2020 PL 94-171 race and Hispanic origin at the block level.
race_vars <- c(
  nh_white = "P2_005N",
  nh_black = "P2_006N",
  nh_asian = "P2_008N",
  hispanic = "P2_002N"
)
get_nyc_decennial(
  race_vars,
  geography = "block",
  sumfile = "pl",
  summary_var = "P1_001N"
)

# 2020 DHC household type at tract level.
get_nyc_decennial(
  c(family_hh = "H9_002N", nonfamily_hh = "H9_009N"),
  geography = "tract",
  sumfile = "dhc"
)

# 2020 PL 94-171 total population, one row per borough.
get_nyc_decennial(
  c(total_pop = "P1_001N"),
  geography = "county",
  sumfile = "pl"
)

## End(Not run)
```

Description

Convenience wrapper around `tidycensus::load_variables()` for browsing the variable catalogues used by `get_nyc_acs()` and `get_nyc_decennial()`. The result is identical to a direct `tidycensus` call; this function exists so that all NYC-oriented Census helpers live in one place.

Usage

```
load_nyc_variables(year, dataset, cache = TRUE)
```

Arguments

year	The year, or endyear, of the dataset.
dataset	Dataset name. Common choices: "acs5", "pl", "dhc", "sf1". See <code>tidycensus::load_variables()</code> for the full list.
cache	Whether to cache the variable table on disk for re-use across sessions. Defaults to TRUE (the opposite of the upstream default, because caching is almost always what you want during package work).

Value

A tibble of variable IDs, labels, and concepts.

Examples

```
## Not run:
acs <- load_nyc_variables(2023, "acs5")
dplyr::filter(acs, grepl("median household income", label, ignore.case = TRUE))

## End(Not run)
```

nyc_block_20_adults_df
<i>New York City adults and children by Census block, 2020</i>

Description

Population aged 18 and over (and the derived population under 18) for the five New York City counties at the 2020 Census block level. Sourced from the 2020 Decennial Census PL 94-171 redistricting summary file. Joins to `nycmaps::nyc_census_blocks_2020_sf` on geoid.

Usage

```
nyc_block_20_adults_df
```

Format

A tibble with 37,984 rows and 6 columns:

geoid 15-character block GEOID.

county NYC county (borough) name derived from geoid.

name Census block label as returned by the Census Bureau.

total_pop Total population of the block (P1_001N).

adults Population aged 18 and over (P3_001N).

children Population under 18, computed as total_pop - adults.

Source

US Census Bureau, 2020 Decennial Census, PL 94-171 Redistricting Data Summary File. Retrieved via `tidycensus::get_decennial()`. <https://www.census.gov/programs-surveys/decennial-census/about/rdo/summary-files.html>

nyc_block_20_race_df *New York City race and Hispanic origin by Census block, 2020*

Description

Population counts for the five New York City counties at the 2020 Census block level, broken down by race and Hispanic origin. Sourced from the 2020 Decennial Census PL 94-171 redistricting summary file. Joins to `nycmaps::nyc_census_blocks_2020_sf` on geoid.

Usage

```
nyc_block_20_race_df
```

Format

A tibble with 37,984 rows and 25 columns:

geoid 15-character block GEOID (state + county + tract + block).

county NYC county (borough) name derived from geoid.

name Census block label as returned by the Census Bureau.

total_pop Total population of the block (PL summary variable P1_001N).

white_alone Population reporting White alone (P1_003N).

black_alone Population reporting Black or African American alone (P1_004N).

aian_alone American Indian and Alaska Native alone (P1_005N).

asian_alone Asian alone (P1_006N).

hipi_alone Native Hawaiian and Other Pacific Islander alone (P1_007N).

other_alone Some other race alone (P1_008N).

two_or_more Two or more races (P1_009N).

hispanic Hispanic or Latino population (P2_002N).

non_hispanic Not Hispanic or Latino population (P2_003N).

nh_white_alone Not Hispanic, White alone (P2_005N).

nh_black_alone Not Hispanic, Black or African American alone (P2_006N).

nh_aian_alone Not Hispanic, AIAN alone (P2_007N).

nh_asian_alone Not Hispanic, Asian alone (P2_008N).

nh_hipi_alone Not Hispanic, NHOPI alone (P2_009N).

nh_other_alone Not Hispanic, some other race alone (P2_010N).

nh_two_or_more Not Hispanic, two or more races (P2_011N).

nh_white_prop Proportion of total_pop that is non-Hispanic White alone. NA when total_pop == 0.

nh_black_prop Proportion non-Hispanic Black alone.

nh_asian_prop Proportion non-Hispanic Asian alone.

hispanic_prop Proportion Hispanic or Latino.

nh_two_or_more_prop Proportion non-Hispanic two or more races.

Source

US Census Bureau, 2020 Decennial Census, PL 94-171 Redistricting Data Summary File. Retrieved via `tidycensus::get_decennial()`. <https://www.census.gov/programs-surveys/decennial-census/about/rdo/summary-files.html>

nyc_counties	<i>New York City county names</i>
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Description

The five counties (boroughs) that make up New York City, in the form expected by `tidycensus::get_acs()` and `tidycensus::get_decennial()` (i.e. county *names*, not FIPS codes).

Usage

```
nyc_counties()
```

Value

A character vector of length 5: "New York", "Kings", "Queens", "Bronx", "Richmond".

Examples

```
nyc_counties()
```

nyc_county_20_adults_df

New York City adults and children by county, 2020

Description

Population aged 18 and over (and the derived population under 18) for the five New York City counties (boroughs). Sourced from the 2020 Decennial Census PL 94-171 redistricting summary file. The county-level counterpart of [nyc_block_20_adults_df](#). Joins to [nycmaps::nyc_boros_sf](#) via the county column, which matches `nycmaps::nyc_boros$short_county_name`.

Usage

```
nyc_county_20_adults_df
```

Format

A tibble with 5 rows and 6 columns:

geoid 5-character county GEOID.

county NYC county (borough) name derived from geoid.

name County label as returned by the Census Bureau.

total_pop Total population of the county (P1_001N).

adults Population aged 18 and over (P3_001N).

children Population under 18, computed as `total_pop - adults`.

Source

US Census Bureau, 2020 Decennial Census, PL 94-171 Redistricting Data Summary File. Retrieved via `tidycensus::get_decennial()`. <https://www.census.gov/programs-surveys/decennial-census/about/rdo/summary-files.html>

nyc_county_20_age_sex_df

New York City sex and age by county, 2020

Description

Total population, sex, and ten standard age bins for the five New York City counties (boroughs). Sourced from the 2020 Decennial Census Demographic and Housing Characteristics (DHC) file, table P12 ("Sex by age for selected age categories"). Each age bin is the sum of the corresponding male and female detail categories from P12, so the bins sum exactly to `total_pop` and `male + female` equals `total_pop`. The county-level counterpart of [nyc_tract_20_age_sex_df](#). Joins to [nycmaps::nyc_boros_sf](#) via the county column, which matches `nycmaps::nyc_boros$short_county_name`.

Usage

```
nyc_county_20_age_sex_df
```

Format

A tibble with 5 rows and 16 columns:

geoid 5-character county GEOID (state + county).
county NYC county (borough) name derived from geoid.
name County label as returned by the Census Bureau.
total_pop Total population (P12_001N).
male Male population (P12_002N).
female Female population (P12_026N).
age_under_5 Population aged under 5.
age_5_17 Population aged 5 to 17.
age_18_24 Population aged 18 to 24.
age_25_34 Population aged 25 to 34.
age_35_44 Population aged 35 to 44.
age_45_54 Population aged 45 to 54.
age_55_64 Population aged 55 to 64.
age_65_74 Population aged 65 to 74.
age_75_84 Population aged 75 to 84.
age_85_plus Population aged 85 and over.

Source

US Census Bureau, 2020 Decennial Census, Demographic and Housing Characteristics (DHC) File, table P12. Retrieved via `tidycensus::get_decennial()`. <https://www.census.gov/data/tables/2023/dec/2020-census-dhc.html>

```
nyc_county_20_household_df
```

New York City household type by county, 2020

Description

Household counts by type for the five New York City counties (boroughs). Sourced from the 2020 Decennial Census Demographic and Housing Characteristics (DHC) file, table P16 ("Household type"). The family / non-family split sums exactly to total_households. The county-level counterpart of `nyc_tract_20_household_df`. Joins to `nycmaps::nyc_boros_sf` via the county column, which matches `nycmaps::nyc_boros$short_county_name`.

Usage

```
nyc_county_20_household_df
```

Format

A tibble with 5 rows and 14 columns:

geoid 5-character county GEOID.

county NYC county (borough) name derived from geoid.

name County label as returned by the Census Bureau.

total_households Total occupied housing units (P16_001N).

family_households Family households (P16_002N).

married_couple Married-couple family households (P16_003N).

other_family Other family households (P16_004N).

male_householder_no_spouse Male householder, no spouse present (P16_005N).

female_householder_no_spouse Female householder, no spouse present (P16_006N).

nonfamily_households Non-family households (P16_007N).

living_alone Householder living alone (P16_008N).

not_living_alone Non-family householder not living alone (P16_009N).

family_prop Proportion of households that are family households. NA when total_households == 0.

living_alone_prop Proportion of households whose householder is living alone.

Source

US Census Bureau, 2020 Decennial Census, Demographic and Housing Characteristics (DHC) File, table P16. Retrieved via `tidycensus::get_decennial()`. <https://www.census.gov/data/tables/2023/dec/2020-census-dhc.html>

nyc_county_20_race_df *New York City race and Hispanic origin by county, 2020*

Description

Population counts for the five New York City counties (boroughs), broken down by race and Hispanic origin. Sourced from the 2020 Decennial Census PL 94-171 redistricting summary file. The county-level counterpart of `nyc_block_20_race_df`. Joins to `nycmaps::nyc_boros_sf` via the county column, which matches `nycmaps::nyc_boros$short_county_name`.

Usage

```
nyc_county_20_race_df
```

Format

A tibble with 5 rows and 25 columns:

geoid 5-character county GEOID (state + county).

county NYC county (borough) name derived from geoid.

name County label as returned by the Census Bureau, e.g. "Kings County, New York".

total_pop Total population of the county (PL summary variable P1_001N).

white_alone Population reporting White alone (P1_003N).

black_alone Population reporting Black or African American alone (P1_004N).

aian_alone American Indian and Alaska Native alone (P1_005N).

asian_alone Asian alone (P1_006N).

hipi_alone Native Hawaiian and Other Pacific Islander alone (P1_007N).

other_alone Some other race alone (P1_008N).

two_or_more Two or more races (P1_009N).

hispanic Hispanic or Latino population (P2_002N).

non_hispanic Not Hispanic or Latino population (P2_003N).

nh_white_alone Not Hispanic, White alone (P2_005N).

nh_black_alone Not Hispanic, Black or African American alone (P2_006N).

nh_aian_alone Not Hispanic, AIAN alone (P2_007N).

nh_asian_alone Not Hispanic, Asian alone (P2_008N).

nh_hipi_alone Not Hispanic, NHOPI alone (P2_009N).

nh_other_alone Not Hispanic, some other race alone (P2_010N).

nh_two_or_more Not Hispanic, two or more races (P2_011N).

nh_white_prop Proportion of total_pop that is non-Hispanic White alone. NA when total_pop == 0.

nh_black_prop Proportion non-Hispanic Black alone.

nh_asian_prop Proportion non-Hispanic Asian alone.

hispanic_prop Proportion Hispanic or Latino.

nh_two_or_more_prop Proportion non-Hispanic two or more races.

Source

US Census Bureau, 2020 Decennial Census, PL 94-171 Redistricting Data Summary File. Retrieved via `tidycensus::get_decennial()`. <https://www.census.gov/programs-surveys/decennial-census/about/rdo/summary-files.html>

nyc_county_acs_education_df

New York City educational attainment by county, ACS 5-year

Description

Educational attainment for the population 25 years and over from the 2020-2024 American Community Survey 5-year release for the five New York City counties (boroughs). Sourced from ACS table B15003. Each estimate is accompanied by its 90% margin of error, with the suffix `_moe`. The county-level counterpart of [nyc_tract_acs_education_df](#). Joins to [nycmaps::nyc_boros_sf](#) via the county column, which matches `nycmaps::nyc_boros$short_county_name`.

Usage

```
nyc_county_acs_education_df
```

Format

A tibble with 5 rows and 26 columns:

geoid 5-character county GEOID.

county NYC county (borough) name derived from geoid.

name County label as returned by the Census Bureau.

edu_total Population 25 years and over (B15003_001).

edu_less_than_hs No schooling completed (B15003_002).

edu_some_hs 9th to 12th grade, no diploma (B15003_016).

edu_hs Regular high school diploma (B15003_017).

edu_some_college Some college, 1 or more years, no degree (B15003_019).

edu_associates Associate's degree (B15003_021).

edu_bachelors Bachelor's degree (B15003_022).

edu_masters Master's degree (B15003_023).

edu_professional Professional school degree (B15003_024).

edu_doctorate Doctorate degree (B15003_025).

edu_total_moe, edu_less_than_hs_moe, edu_some_hs_moe, edu_hs_moe, edu_some_college_moe, edu_associates_moe Margins of error for the corresponding estimates.

bachelors_or_higher `edu_bachelors + edu_masters + edu_professional + edu_doctorate`.

bachelors_or_higher_prop Proportion of `edu_total` with a bachelor's degree or higher. NA when `edu_total == 0`.

less_than_hs_prop Proportion of `edu_total` whose highest attainment is below a high school diploma.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, table B15003. Retrieved via [tidycensus::get_acs\(\)](#). <https://www.census.gov/programs-surveys/acs>

nyc_county_acs_employment_df
<i>New York City labor force status by county, ACS 5-year</i>

Description

Labor force status estimates from the 2020-2024 American Community Survey 5-year release for the five New York City counties (boroughs). Sourced from ACS table B23025 ("Employment status for the population 16 years and over"). Each estimate is accompanied by its 90% margin of error, with the suffix _moe. The county-level counterpart of [nyc_tract_acs_employment_df](#). Joins to [nycmaps::nyc_boros_sf](#) via the county column, which matches nycmaps::nyc_boros\$short_county_name.

Usage

nyc_county_acs_employment_df

Format

A tibble with 5 rows and 19 columns:

- geoid** 5-character county GEOID.
- county** NYC county (borough) name derived from geoid.
- name** County label as returned by the Census Bureau.
- lf_total** Population 16 years and over (B23025_001).
- lf_in_labor_force** In labor force (B23025_002).
- lf_civilian** Civilian labor force (B23025_003).
- lf_employed** Civilian employed (B23025_004).
- lf_unemployed** Civilian unemployed (B23025_005).
- lf_armed_forces** Armed forces (B23025_006).
- lf_not_in_labor_force** Not in labor force (B23025_007).
- lf_total_moe, lf_in_labor_force_moe, lf_civilian_moe, lf_employed_moe, lf_unemployed_moe, lf_armed_forces_moe,**
Margins of error for the corresponding estimates.
- labor_force_participation** lf_in_labor_force / lf_total. NA when lf_total == 0.
- unemployment_rate** lf_unemployed / lf_civilian. NA when lf_civilian == 0.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, table B23025. Retrieved via [tidycensus::get_acs\(\)](#). <https://www.census.gov/programs-surveys/acs>

nyc_county_acs_housing_df
<i>New York City housing units, tenure, and value by county, ACS 5-year</i>

Description

Housing-unit counts, occupancy, tenure, value, rent, and year built from the 2020-2024 American Community Survey 5-year release for the five New York City counties (boroughs). Each estimate is accompanied by its 90% margin of error, with the suffix `_moe`. The county-level counterpart of [nyc_tract_acs_housing_df](#). Joins to [nycmaps::nyc_boros_sf](#) via the county column, which matches `nycmaps::nyc_boros$short_county_name`.

Usage

`nyc_county_acs_housing_df`

Format

A tibble with 5 rows and 23 columns:

- geoid** 5-character county GEOID.
- county** NYC county (borough) name derived from `geoid`.
- name** County label as returned by the Census Bureau.
- hu_total** Total housing units (B25001_001).
- hu_occupied** Occupied housing units (B25002_002).
- hu_vacant** Vacant housing units (B25002_003).
- tenure_total** Occupied housing units, tenure denominator (B25003_001).
- tenure_owner** Owner-occupied units (B25003_002).
- tenure_renter** Renter-occupied units (B25003_003).
- median_value** Median value of owner-occupied housing units, dollars (B25077_001).
- median_gross_rent** Median gross rent, dollars (B25064_001).
- median_year_built** Median year structure built (B25035_001).
- hu_total_moe, hu_occupied_moe, hu_vacant_moe, tenure_total_moe, tenure_owner_moe, tenure_renter_moe, median_value_moe, median_gross_rent_moe, median_year_built_moe** Margins of error for the corresponding estimates.
- owner_occupied_prop** `tenure_owner / tenure_total`. NA when `tenure_total == 0`.
- vacancy_rate** `hu_vacant / hu_total`. NA when `hu_total == 0`.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, tables B25001, B25002, B25003, B25035, B25064, B25077. Retrieved via [tidycensus::get_acs\(\)](#). <https://www.census.gov/programs-surveys/acs>

nyc_county_acs_income_df
<i>New York City income, poverty, and inequality by county, ACS 5-year</i>

Description

Income, poverty, and inequality estimates from the 2020-2024 American Community Survey 5-year release for the five New York City counties (boroughs). Each estimate is accompanied by its 90% margin of error, with the suffix `_moe`. The county-level counterpart of [nyc_tract_acs_income_df](#). Joins to [nycmaps::nyc_boros_sf](#) via the county column, which matches `nycmaps::nyc_boros$short_county_name`.

Usage

`nyc_county_acs_income_df`

Format

A tibble with 5 rows and 16 columns:

- geoid** 5-character county GEOID.
- county** NYC county (borough) name derived from geoid.
- name** County label as returned by the Census Bureau.
- med_hhinc** Median household income, inflation-adjusted dollars (B19013_001).
- med_family_income** Median family income (B19113_001).
- per_capita_income** Per capita income (B19301_001).
- gini** Gini index of income inequality (B19083_001).
- poverty_total** Population for whom poverty status is determined (B17001_001).
- poverty_below** Population with income in the past 12 months below the poverty level (B17001_002).
- med_hhinc_moe, med_family_income_moe, per_capita_income_moe, gini_moe, poverty_total_moe, poverty_below_moe** Margins of error for the corresponding estimates.
- poverty_rate** `poverty_below / poverty_total`. NA when `poverty_total == 0`.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, tables B19013, B19113, B19301, B19083, B17001. Retrieved via [tidycensus::get_acs\(\)](#). <https://www.census.gov/programs-surveys/acs>

nyc_county_acs_language_nativity_df
<i>New York City language and nativity by county, ACS 5-year</i>

Description

Language spoken at home and place of birth / citizenship from the 2020-2024 American Community Survey 5-year release for the five New York City counties (boroughs). Sourced from ACS tables B16001 (language spoken at home) and B05002 (place of birth and citizenship). Each estimate is accompanied by its 90% margin of error, with the suffix `_moe`. The county-level counterpart of [nyc_tract_acs_language_nativity_df](#). Joins to [nycmaps::nyc_boros_sf](#) via the county column, which matches `nycmaps::nyc_boros$short_county_name`.

Usage

`nyc_county_acs_language_nativity_df`

Format

A tibble with 5 rows and 21 columns:

- geoid** 5-character county GEOID.
- county** NYC county (borough) name derived from geoid.
- name** County label as returned by the Census Bureau.
- lang_total** Population 5 years and over (B16001_001).
- lang_english_only** Speaks English only at home (B16001_002).
- lang_spanish** Speaks Spanish at home (B16001_003).
- nativity_total** Total population, nativity universe (B05002_001).
- native** Native-born population (B05002_002).
- foreign_born** Foreign-born population (B05002_013).
- naturalized** Foreign-born, naturalized US citizen (B05002_014).
- not_citizen** Foreign-born, not a US citizen (B05002_021).
- lang_total_moe, lang_english_only_moe, lang_spanish_moe, nativity_total_moe, native_moe, foreign_born_moe, nat** Margins of error for the corresponding estimates.
- english_only_prop** `lang_english_only / lang_total`. NA when `lang_total == 0`.
- foreign_born_prop** `foreign_born / nativity_total`. NA when `nativity_total == 0`.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, tables B16001 and B05002. Retrieved via `tidycensus::get_acs()`. <https://www.census.gov/programs-surveys/acs>

nyc_county_acs_race_df

New York City race and Hispanic origin by county, ACS 5-year

Description

Race and Hispanic-origin estimates from the 2020-2024 American Community Survey 5-year release for the five New York City counties (boroughs). Sourced from ACS table B03002 ("Hispanic or Latino origin by race"), with B03002_001 as the population denominator. Each estimate is accompanied by its 90% margin of error, with the suffix _moe. The county-level counterpart of [nyc_tract_acs_race_df](#). Joins to [nycmaps::nyc_boros_sf](#) via the county column, which matches `nycmaps::nyc_boros$short_county_name`.

Usage

```
nyc_county_acs_race_df
```

Format

A tibble with 5 rows and 25 columns:

geoid 5-character county GEOID.

county NYC county (borough) name derived from geoid.

name County label as returned by the Census Bureau.

total_pop Total population (B03002_001 summary estimate).

total_pop_moe Margin of error for total_pop.

nh_white Not Hispanic, White alone (B03002_003).

nh_black Not Hispanic, Black or African American alone (B03002_004).

nh_aian Not Hispanic, American Indian and Alaska Native alone (B03002_005).

nh_asian Not Hispanic, Asian alone (B03002_006).

nh_hipi Not Hispanic, Native Hawaiian and Other Pacific Islander alone (B03002_007).

nh_other Not Hispanic, some other race alone (B03002_008).

nh_two_or_more Not Hispanic, two or more races (B03002_009).

hispanic Hispanic or Latino, any race (B03002_012).

nh_white_moe, nh_black_moe, nh_aian_moe, nh_asian_moe, nh_hipi_moe, nh_other_moe, nh_two_or_more_moe, hispanic_moe Margins of error for the corresponding estimates.

nh_white_prop Proportion non-Hispanic White. NA when total_pop == 0.

nh_black_prop Proportion non-Hispanic Black.

nh_asian_prop Proportion non-Hispanic Asian.

hispanic_prop Proportion Hispanic or Latino.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, table B03002. Retrieved via `tidycensus::get_acs()`. <https://www.census.gov/programs-surveys/acs>

nyc_county_fips	<i>County FIPS codes for the five New York City counties</i>
-----------------	--

Description

Returned as a named character vector. Useful for filtering or validating geoid columns whose first five characters encode the state + county FIPS.

Usage

```
nyc_county_fips()
```

Value

A named character vector of length 5.

Examples

```
nyc_county_fips()
```

nyc_pumas	<i>New York City Public Use Microdata Areas (PUMAs)</i>
-----------	---

Description

Returns the NYC PUMAs for a given vintage, each labelled with the borough (as a county name, matching the convention used elsewhere in this package) they fall in. NYC has 55 PUMAs in both the 2010 and 2020 vintages; the borough assignment was derived from a largest- overlap spatial join between `nycmaps::nyc_pumas*_sf` and `nycmaps::nyc_boros_sf` and hard-coded into the package.

Usage

```
nyc_pumas(vintage = c("2020", "2010"))
```

Arguments

vintage PUMA vintage. One of "2020" (default) or "2010".

Details

The 2010 vintage applies to ACS end-years up to and including 2021; the 2020 vintage applies to ACS end-years 2022 and later.

Value

A tibble with columns `puma` (5-character PUMA code), `geoid` (7-character state + PUMA code, as returned by `tidycensus`), and `county` (borough name as a county, e.g. "Kings").

Examples

```
nyc_pumas()
nyc_pumas("2010")
```

```
nyc_tract_20_age_sex_df
```

New York City sex and age by Census tract, 2020

Description

Total population, sex, and ten standard age bins for the five New York City counties at the 2020 Census tract level. Sourced from the 2020 Decennial Census Demographic and Housing Characteristics (DHC) file, table P12 ("Sex by age for selected age categories"). Each age bin is the sum of the corresponding male and female detail categories from P12, so the bins sum exactly to `total_pop` and `male` + `female` equals `total_pop`. Joins to [nycmaps::nyc_census_tracts_2020_sf](#) on `geoid`.

Usage

```
nyc_tract_20_age_sex_df
```

Format

A tibble with 2,327 rows and 16 columns:

geoid 11-character tract GEOID (state + county + tract).
county NYC county (borough) name derived from `geoid`.
name Census tract label as returned by the Census Bureau.
total_pop Total population (P12_001N).
male Male population (P12_002N).
female Female population (P12_026N).
age_under_5 Population aged under 5.
age_5_17 Population aged 5 to 17.
age_18_24 Population aged 18 to 24.
age_25_34 Population aged 25 to 34.
age_35_44 Population aged 35 to 44.
age_45_54 Population aged 45 to 54.
age_55_64 Population aged 55 to 64.
age_65_74 Population aged 65 to 74.
age_75_84 Population aged 75 to 84.
age_85_plus Population aged 85 and over.

Source

US Census Bureau, 2020 Decennial Census, Demographic and Housing Characteristics (DHC) File, table P12. Retrieved via `tidycensus::get_decennial()`. <https://www.census.gov/data/tables/2023/dec/2020-census-dhc.html>

nyc_tract_20_household_df

New York City household type by Census tract, 2020

Description

Household counts by type for the five New York City counties at the 2020 Census tract level. Sourced from the 2020 Decennial Census Demographic and Housing Characteristics (DHC) file, table P16 ("Household type"). The family / non-family split sums exactly to total_households. Joins to `nycmaps::nyc_census_tracts_2020_sf` on geoid.

Usage

```
nyc_tract_20_household_df
```

Format

A tibble with 2,327 rows and 14 columns:

geoid 11-character tract GEOID.

county NYC county (borough) name derived from geoid.

name Census tract label as returned by the Census Bureau.

total_households Total occupied housing units (P16_001N).

family_households Family households (P16_002N).

married_couple Married-couple family households (P16_003N).

other_family Other family households (P16_004N).

male_householder_no_spouse Male householder, no spouse present (P16_005N).

female_householder_no_spouse Female householder, no spouse present (P16_006N).

nonfamily_households Non-family households (P16_007N).

living_alone Householder living alone (P16_008N).

not_living_alone Non-family householder not living alone (P16_009N).

family_prop Proportion of households that are family households. NA when total_households == 0.

living_alone_prop Proportion of households whose householder is living alone.

Source

US Census Bureau, 2020 Decennial Census, Demographic and Housing Characteristics (DHC) File, table P16. Retrieved via `tidycensus::get_decennial()`. <https://www.census.gov/data/tables/2023/dec/2020-census-dhc.html>

nyc_tract_acs_education_df
<i>New York City educational attainment by Census tract, ACS 5-year</i>

Description

Educational attainment for the population 25 years and over from the 2020-2024 American Community Survey 5-year release for the five New York City counties at the Census tract level. Sourced from ACS table B15003. Each estimate is accompanied by its 90% margin of error, with the suffix `_moe`. Joins to [nycmaps::nyc_census_tracts_2020_sf](#) on `geoid`.

Usage

`nyc_tract_acs_education_df`

Format

A tibble with 2,327 rows and 26 columns:

- geoid** 11-character tract GEOID.
- county** NYC county (borough) name derived from `geoid`.
- name** Census tract label as returned by the Census Bureau.
- edu_total** Population 25 years and over (B15003_001).
- edu_less_than_hs** No schooling completed (B15003_002).
- edu_some_hs** 9th to 12th grade, no diploma (B15003_016).
- edu_hs** Regular high school diploma (B15003_017).
- edu_some_college** Some college, 1 or more years, no degree (B15003_019).
- edu_associates** Associate’s degree (B15003_021).
- edu_bachelors** Bachelor’s degree (B15003_022).
- edu_masters** Master’s degree (B15003_023).
- edu_professional** Professional school degree (B15003_024).
- edu_doctorate** Doctorate degree (B15003_025).
- edu_total_moe, edu_less_than_hs_moe, edu_some_hs_moe, edu_hs_moe, edu_some_college_moe, edu_associates_moe** Margins of error for the corresponding estimates.
- bachelors_or_higher** `edu_bachelors + edu_masters + edu_professional + edu_doctorate`.
- bachelors_or_higher_prop** Proportion of `edu_total` with a bachelor’s degree or higher. NA when `edu_total == 0`.
- less_than_hs_prop** Proportion of `edu_total` whose highest attainment is below a high school diploma.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, table B15003. Retrieved via `tidycensus::get_acs()`. <https://www.census.gov/programs-surveys/acs>

nyc_tract_acs_employment_df

New York City labor force status by Census tract, ACS 5-year

Description

Labor force status estimates from the 2020-2024 American Community Survey 5-year release for the five New York City counties at the Census tract level. Sourced from ACS table B23025 ("Employment status for the population 16 years and over"). Each estimate is accompanied by its 90% margin of error, with the suffix `_moe`. Joins to [nycmaps::nyc_census_tracts_2020_sf](#) on `geoid`.

Usage

```
nyc_tract_acs_employment_df
```

Format

A tibble with 2,327 rows and 19 columns:

geoid 11-character tract GEOID.

county NYC county (borough) name derived from `geoid`.

name Census tract label as returned by the Census Bureau.

lf_total Population 16 years and over (B23025_001).

lf_in_labor_force In labor force (B23025_002).

lf_civilian Civilian labor force (B23025_003).

lf_employed Civilian employed (B23025_004).

lf_unemployed Civilian unemployed (B23025_005).

lf_armed_forces Armed forces (B23025_006).

lf_not_in_labor_force Not in labor force (B23025_007).

lf_total_moe, lf_in_labor_force_moe, lf_civilian_moe, lf_employed_moe, lf_unemployed_moe, lf_armed_forces_moe,
 Margins of error for the corresponding estimates.

labor_force_participation `lf_in_labor_force / lf_total`. NA when `lf_total == 0`.

unemployment_rate `lf_unemployed / lf_civilian`. NA when `lf_civilian == 0`.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, table B23025. Retrieved via [tidycensus::get_acs\(\)](#). <https://www.census.gov/programs-surveys/acs>

nyc_tract_acs_housing_df
<i>New York City housing units, tenure, and value by Census tract, ACS 5-year</i>

Description

Housing-unit counts, occupancy, tenure, value, rent, and year built from the 2020-2024 American Community Survey 5-year release for the five New York City counties at the Census tract level. Each estimate is accompanied by its 90% margin of error, with the suffix `_moe`. Joins to [nycmaps::nyc_census_tracts_2020_sf](#) on `geoid`.

Usage

`nyc_tract_acs_housing_df`

Format

A tibble with 2,327 rows and 23 columns:

- geoid** 11-character tract GEOID.
- county** NYC county (borough) name derived from `geoid`.
- name** Census tract label as returned by the Census Bureau.
- hu_total** Total housing units (B25001_001).
- hu_occupied** Occupied housing units (B25002_002).
- hu_vacant** Vacant housing units (B25002_003).
- tenure_total** Occupied housing units, tenure denominator (B25003_001).
- tenure_owner** Owner-occupied units (B25003_002).
- tenure_renter** Renter-occupied units (B25003_003).
- median_value** Median value of owner-occupied housing units, dollars (B25077_001).
- median_gross_rent** Median gross rent, dollars (B25064_001).
- median_year_built** Median year structure built (B25035_001).
- hu_total_moe, hu_occupied_moe, hu_vacant_moe, tenure_total_moe, tenure_owner_moe, tenure_renter_moe, median_value_moe, median_gross_rent_moe, median_year_built_moe** Margins of error for the corresponding estimates.
- owner_occupied_prop** `tenure_owner / tenure_total`. NA when `tenure_total == 0`.
- vacancy_rate** `hu_vacant / hu_total`. NA when `hu_total == 0`.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, tables B25001, B25002, B25003, B25035, B25064, B25077. Retrieved via `tidycensus::get_acs()`. <https://www.census.gov/programs-surveys/acs>

nyc_tract_acs_income_df

New York City income, poverty, and inequality by Census tract, ACS 5-year

Description

Income, poverty, and inequality estimates from the 2020-2024 American Community Survey 5-year release for the five New York City counties at the Census tract level. Each estimate is accompanied by its 90% margin of error, with the suffix `_moe`. Joins to [nycmaps::nyc_census_tracts_2020_sf](#) on `geoid`.

Usage

```
nyc_tract_acs_income_df
```

Format

A tibble with 2,327 rows and 16 columns:

geoid 11-character tract GEOID.

county NYC county (borough) name derived from `geoid`.

name Census tract label as returned by the Census Bureau.

med_hhinc Median household income, inflation-adjusted dollars (B19013_001).

med_family_income Median family income (B19113_001).

per_capita_income Per capita income (B19301_001).

gini Gini index of income inequality (B19083_001).

poverty_total Population for whom poverty status is determined (B17001_001).

poverty_below Population with income in the past 12 months below the poverty level (B17001_002).

med_hhinc_moe, med_family_income_moe, per_capita_income_moe, gini_moe, poverty_total_moe, poverty_below_moe Margins of error for the corresponding estimates.

poverty_rate `poverty_below / poverty_total`. NA when `poverty_total == 0`.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, tables B19013, B19113, B19301, B19083, B17001. Retrieved via [tidycensus::get_acs\(\)](#). <https://www.census.gov/programs-surveys/acs>

nyc_tract_acs_language_nativity_df

New York City language and nativity by Census tract, ACS 5-year

Description

Language spoken at home and place of birth / citizenship from the 2020-2024 American Community Survey 5-year release for the five New York City counties at the Census tract level. Sourced from ACS tables B16001 (language spoken at home) and B05002 (place of birth and citizenship). Each estimate is accompanied by its 90% margin of error, with the suffix `_moe`. Joins to [nycmaps::nyc_census_tracts_2020_sf](#) on `geoid`.

Usage

```
nyc_tract_acs_language_nativity_df
```

Format

A tibble with 2,327 rows and 21 columns:

geoid 11-character tract GEOID.

county NYC county (borough) name derived from `geoid`.

name Census tract label as returned by the Census Bureau.

lang_total Population 5 years and over (B16001_001).

lang_english_only Speaks English only at home (B16001_002).

lang_spanish Speaks Spanish at home (B16001_003).

nativity_total Total population, nativity universe (B05002_001).

native Native-born population (B05002_002).

foreign_born Foreign-born population (B05002_013).

naturalized Foreign-born, naturalized US citizen (B05002_014).

not_citizen Foreign-born, not a US citizen (B05002_021).

lang_total_moe, lang_english_only_moe, lang_spanish_moe, nativity_total_moe, native_moe, foreign_born_moe, nat
 Margins of error for the corresponding estimates.

english_only_prop `lang_english_only / lang_total`. NA when `lang_total == 0`.

foreign_born_prop `foreign_born / nativity_total`. NA when `nativity_total == 0`.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, tables B16001 and B05002. Retrieved via `tidycensus::get_acs()`. <https://www.census.gov/programs-surveys/acs>

nyc_tract_acs_race_df	<i>New York City race and Hispanic origin by Census tract, ACS 5-year</i>
-----------------------	---

Description

Race and Hispanic-origin estimates from the 2020-2024 American Community Survey 5-year release for the five New York City counties at the Census tract level. Sourced from ACS table B03002 ("Hispanic or Latino origin by race"), with B03002_001 as the population denominator. Each estimate is accompanied by its 90% margin of error, with the suffix _moe. Joins to [nycmaps::nyc_census_tracts_2020_sf](#) on geoid.

Usage

nyc_tract_acs_race_df

Format

A tibble with 2,327 rows and 25 columns:

- geoid** 11-character tract GEOID.
- county** NYC county (borough) name derived from geoid.
- name** Census tract label as returned by the Census Bureau.
- total_pop** Total population (B03002_001 summary estimate).
- total_pop_moe** Margin of error for total_pop.
- nh_white** Not Hispanic, White alone (B03002_003).
- nh_black** Not Hispanic, Black or African American alone (B03002_004).
- nh_aian** Not Hispanic, American Indian and Alaska Native alone (B03002_005).
- nh_asian** Not Hispanic, Asian alone (B03002_006).
- nh_hipi** Not Hispanic, Native Hawaiian and Other Pacific Islander alone (B03002_007).
- nh_other** Not Hispanic, some other race alone (B03002_008).
- nh_two_or_more** Not Hispanic, two or more races (B03002_009).
- hispanic** Hispanic or Latino, any race (B03002_012).
- nh_white_moe, nh_black_moe, nh_aian_moe, nh_asian_moe, nh_hipi_moe, nh_other_moe, nh_two_or_more_moe, hispanic_moe** Margins of error for the corresponding estimates.
- nh_white_prop** Proportion non-Hispanic White. NA when total_pop == 0.
- nh_black_prop** Proportion non-Hispanic Black.
- nh_asian_prop** Proportion non-Hispanic Asian.
- hispanic_prop** Proportion Hispanic or Latino.

Source

US Census Bureau, 2020-2024 American Community Survey 5-year estimates, table B03002. Retrieved via [tidycensus::get_acs\(\)](#). <https://www.census.gov/programs-surveys/acs>

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