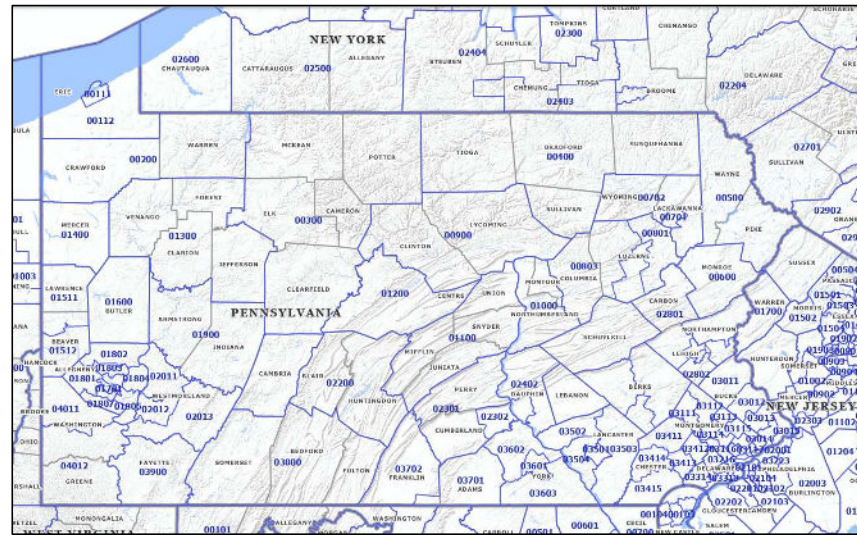


Public Use Microdata Sample



Overview

- Consists of un-tabulated data from the American Community Survey (ACS)
 - Person and Housing Characteristics
- Allows users to create custom tables to accommodate specific research needs
- Most valuable for larger geographies

The image shows a sample of the American Community Survey (ACS) form, specifically the 'Person 1' and 'Housing' sections. The form is divided into two main parts: 'Person 1' and 'Housing'.

Person 1 Section:

- NOTE:** Please answer BOTH Question 5 about Hispanic origin and Question 6 about race for this survey.
- 5. Please print today's date.** (Month, Day, Year)
- 6. What is Person 1's name?** (Last Name, First Name, Middle Initial)
- 7. How is this person related to Person 1?** (X Person 1)
- 8. What is Person 1's sex?** (Male, Female)
- 9. What is Person 1's age and what is Person 1's date of birth?** (Age in years, Month, Day, Year of birth)
- 10. What is Person 1's race?** (Mark (X) one or more boxes: White, Black, Asian, American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Some other race - Print)
- 11. What is Person 1's Hispanic or Latino ethnicity?** (No, not of Hispanic, Latin, or Mexican descent; Yes, Mexican, Mexican American, or Puerto Rican; Yes, Cuban; Yes, another Hispanic, Latin, or Mexican ethnicity - Print)

Housing Section:

- NOTE:** Please answer the following questions about the house, apartment, or mobile home at the address on the mailing label.
- 1. Which best describes this building?** (A mobile home; A one-family house detached from any other house; A one-family house attached to one or more houses; A building with 2 apartments; A building with 3 or 4 apartments; A building with 5 to 9 apartments; A building with 10 to 19 apartments; A building with 20 to 49 apartments; A building with 50 or more apartments; Boat, RV, van, etc.)
- 2. About when was this building first built?** (2010 or later - Specify year; 2010 to 2019; 2000 to 2009; 1990 to 1999; 1980 to 1989; 1970 to 1979; 1960 to 1969; 1950 to 1959; 1940 to 1949; 1939 or earlier)
- 3. How many acres is this house or mobile home on?** (Less than 1 acre - SKIP to question 4a; 1 to 9.9 acres; 10 or more acres)
- 4. IN THE PAST 12 MONTHS, what were the actual sales of all agricultural products from this property?** (None; \$1 to \$999; \$1,000 to \$2,499; \$2,500 to \$4,999; \$5,000 to \$9,999; \$10,000 or more)
- 5. a. How many separate rooms are in this house, apartment, or mobile home?** (Rooms must be separated by built-in partitions or walls that extend out at least 6 inches and go from floor to ceiling. INCLUDE bedrooms, kitchens, etc. EXCLUDE bathrooms, porches, balconies, foyers, halls, or unfinished basements. Number of rooms)
- 5. b. How many of these rooms are bedrooms?** (Count as bedrooms those rooms you would list if this house, apartment, or mobile home were for sale or rent. If this is an efficiency/apartment, print "0". Number of bedrooms)
- 6. When did PERSON 1 (listed on page 2) move into this house, apartment, or mobile home?** (Month, Year)

Working with PUMS

- Subset of ACS records
 - 1-Year
 - 5-Year
 - PUMS files generally released about 1 month after the corresponding ACS dataset (5-Year ACS released December; 5-Year PUMS released January)
- Additional security measures taken to ensure respondent confidentiality
 - Recoding
 - Organized into larger units of analysis (PUMAs)
- Tools for creating PUMS estimates
 - Statistical software (SAS, Python, etc)
 - Census API
 - [Data.census.gov](https://data.census.gov)

United States
Census
Bureau

Search

MEANS OF TRANSPORTATION TO WORK

Survey/Program: American Community Survey Universe: Workers 16 years and over Year: 2016 Estimate: 5-Year TableID: B08301

RESTORE TABLE LAYOUT CHANGE TABLE LAYOUT

	Pittsburgh city, Pennsylvania	
	Estimate	Margin of Error
▼ Total:	148,176	+/-1,618
▼ Car, truck, or van:	96,009	
Drove alone	82,905	
▼ Carpooled:	13,104	
In 2-person carpool	11,234	
In 3-person carpool	1,270	
In 4-person carpool	401	
In 5- or 6-person carpool	146	
In 7-or-more-person carpool	53	
▼ Public transportation (excluding taxicab):	25,278	
Bus or trolley bus	24,183	
Streetcar or trolley car (carro publico ...)	517	

Table 1.1. Exam

RT	
P	
P	
P	
P	
P	
P	

ACS pre-tabulated table

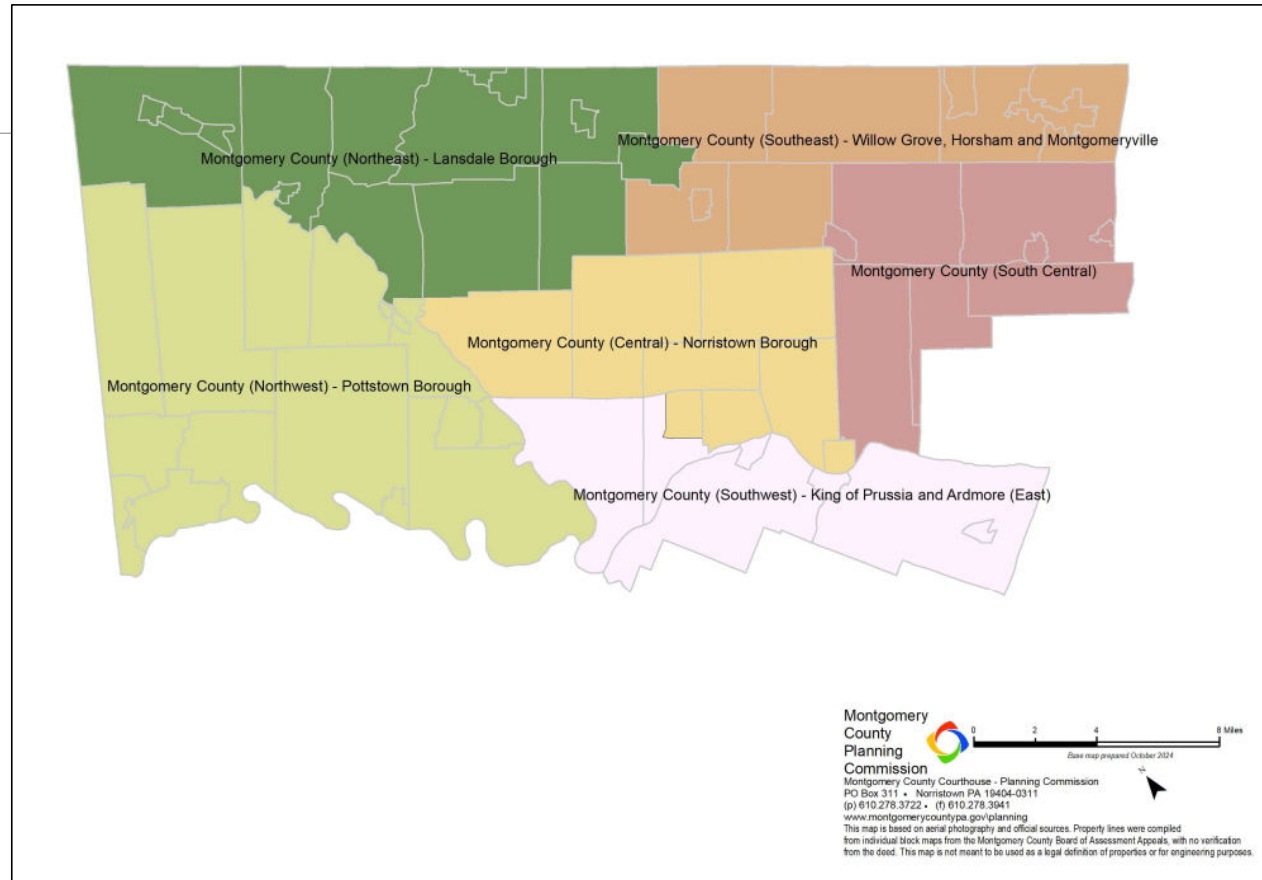
PUMS (ACS raw data)

Table 1.1. Example of Microdata						
RT	SERIALNO	SPORDER	ST	AGEP	JWTR	SEX
P	2016000009344	02	42	49	.	2
P	2016000009344	03	42	15	.	2
P	2016000009578	02	42	27	01	1
P	2016000009578	03	42	28	01	1
P	2016000009578	04	42	29	01	1
P	2016000009578	05	42	25	01	1
P	2016000021254	02	42	25	10	2
P	2016000024874	02	42	72	.	2
P	2016000025941	02	42	22	02	2
P	2016000025941	03	42	14	.	1
P	2016000025941	04	42	71	.	2

ACS PUMS Handbook, 2021

PUMS Geography

- Region/Division/State Levels of Analysis
- Public Use Microdata Area (PUMA)
 - Non-overlapping statistical areas containing at least 100,000 people
 - Delineated after decennial census years
 - Slightly later release schedule than region/division/state



B14002 | Sex by School Enrollment by Level of School by Type of School for the Population 3 Years and Over

American Community Survey | Universe: Population 3 years and over | 2023: ACS 5-Year Estimates Detailed Tables

Montgomery County, Pennsylvania

Label	Estimate	Margin of Error
▼ Total:	833,937	
▼ Male:	407,683	
▼ Enrolled in school:	99,349	
▼ Enrolled in nursery school, preschool:	6,954	
Public school	2,237	
Private school	4,717	
▼ Enrolled in kindergarten:	4,163	
Public school	3,098	
Private school	1,065	
▼ Enrolled in grade 1 to grade 4:	20,873	
Public school	17,857	
Private school	3,016	
▼ Enrolled in grade 5 to grade 8:	22,256	
Public school	18,557	
Private school	3,699	

B25036 | Tenure by Year Structure Built

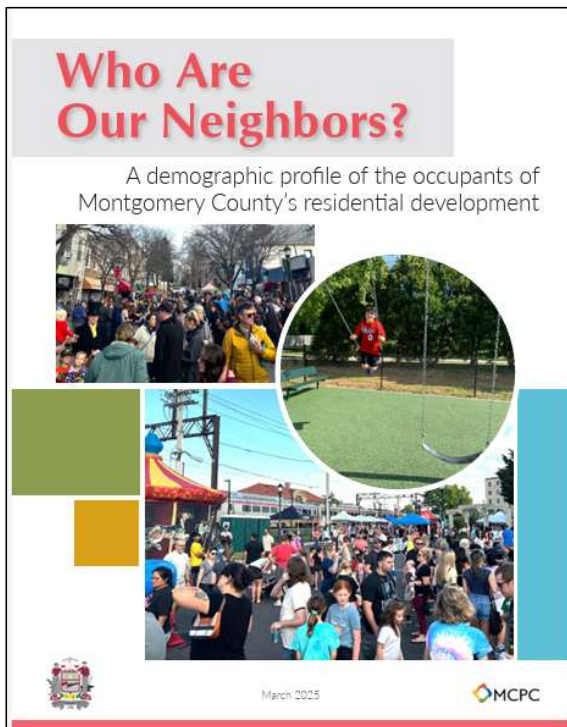
American Community Survey | Universe: Occupied housing units | 2023: ACS 5-Year Estimates Detailed Tables

Montgomery County, Pennsylvania

Label	Estimate	Margin of Error
▼ Total:	333,514	±976
▼ Owner occupied:	239,246	±2,020
Built 2020 or later	1,636	±233
Built 2010 to 2019	11,929	±872
Built 2000 to 2009	22,019	±984
Built 1990 to 1999	29,698	±1,110
Built 1980 to 1989	27,061	±1,186
Built 1970 to 1979	24,918	±1,167
Built 1960 to 1969	26,529	±1,041
Built 1950 to 1959	43,004	±1,391
Built 1940 to 1949	14,317	±823
Built 1939 or earlier	38,135	±1,168
▼ Renter occupied:	94,268	±1,920
Built 2020 or later	957	±267
Built 2010 to 2019	8,416	±624

ACS Pre-Tabulated Tables

Applying PUMS



People

- Grade Level Attending
- School Enrollment

Housing

- Units in Structure
- Year Built

Table 1: Children Enrolled in Public School

	Students Per Existing Unit	Students Per New Units
Single-Family Detached	.42	.61
Single-Family Attached	.44	.31
Multifamily	.14	.07

Resources

- PUMS Access (FTP, API, and data.census.gov) - www.census.gov/programs-surveys/acs/microdata/access.html
- PUMA Map - <https://tigerweb.geo.census.gov/tigerweb/>
- PUMS Documentation - www.census.gov/programs-surveys/acs/microdata/documentation.html
- *Understanding and Using the American Community Survey Public Use Microdata Sample Files* - www.census.gov/content/dam/Census/library/publications/2021/acs/acs_pums_handbook_2021.pdf
- *Who Are Our Neighbors?* - www.montgomerycountypa.gov/DocumentCenter/View/49539/Who-Are-Our-Neighbors