**Census Bureau Data**

1. **Geographies**
   1. GEOID: <https://www.census.gov/programs-surveys/geography/guidance/geo-identifiers.html>
   2. Shapefile: <https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.html>
   3. Shapefile with water clipped: <https://www1.nyc.gov/site/planning/data-maps/open-data/census-download-metadata.page>
   4. Census Block
   5. Census Block Group
   6. Census Tract
   7. Neighborhood Tabulation Area (NTA)
   8. Community District Tabulation Area (CDTA)
   9. Community District: <https://www1.nyc.gov/site/planning/data-maps/open-data/districts-download-metadata.page>
   10. City Council District
   11. Zip Code Tabulation Areas (ZCTA)
   12. PUMA: <https://usa.ipums.org/usa/volii/2010PUMAS.shtml>
   13. POWPUMA: <https://usa.ipums.org/usa/volii/2010POWPUMAS.shtml>
   14. Borough/County
   15. NYMTC Region
   16. Subregion: <https://metroexplorer.planning.nyc.gov/welcome/intro#6.43/40.857/-73.528>
   17. 31-County Region
2. **Census 2020**
   1. Data: <https://data.census.gov/cedsci/>
   2. Block level
   3. Population
   4. Household/Group quarter
   5. Race
   6. Age (Under 18)
   7. Full count/No MOE
3. **American Community Survey (ACS)**
   1. Data: <https://data.census.gov/cedsci/>
   2. 1-Year vs 5-Year
   3. Tract level
   4. MOE/CV: <https://www.census.gov/content/dam/Census/library/publications/2018/acs/acs_general_handbook_2018.pdf> (Chapter 8)
   5. Commuting Characteristics by Sex (Workers over 16) (Table S0801)
   6. Means of Transportation to Work (Table B08301)
   7. Travel Time to Work (Table B08303)
   8. Aggregate Travel Time (Table B08013)
   9. Aggregate Number of Vehicles (Table B08015)
4. **Public Use Microdata Sample (PUMS)**
   1. Data
      1. Census Bureau: <https://www.census.gov/programs-surveys/acs/microdata.html>
      2. IPUMS: <https://usa.ipums.org/usa/>
   2. 1-Year vs 5-Year
   3. PUMA/POWPUMA level
   4. Disaggregated data
   5. Weights
   6. MOE/CV: <https://www2.census.gov/programs-surveys/acs/replicate_estimates/2019/documentation/5-year/2015-2019_Variance_Replicate_Tables_Documentation.pdf>
5. **Census Transportation Planning Products Program (CTPP)**
   1. <https://ctpp.transportation.org/>
   2. 2012-2016 vs 2006-2010
   3. Residence/Workplace/Flows
   4. Tract to Tract Flow by Mode
   5. Missing workplace/Extended allocation
6. **Longitudinal Employer-Household Dynamics (LEHD)**
   1. <https://lehd.ces.census.gov/data/#lodes>
   2. Unemployment Insurance
   3. QCEW
   4. OnTheMap: <https://onthemap.ces.census.gov/>
   5. RAC/WAC/OD
   6. Block to Block Flow
   7. Main vs Aux
   8. Segment
   9. Job type (All Jobs vs Primary Jobs; All Jobs vs Private Jobs)
   10. Headquartering issues before 2017 especially public sector
7. **Tools**
   1. Population FactFinder: <https://popfactfinder.planning.nyc.gov/>
8. **Summary**

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| --- | --- | --- | --- | --- |
| **Product** | **Smallest Geography** | **Pros** | **Cons** | **Use Cases** |
| **Census 2020** | * Census Block | * Full count/not estimate * Small geography | * Limited information (population; household; race; sex) | * Block level population |
| **ACS 2015-2019** | * Census Tract | * Rich information based on residence place | * Large MOE at tract level * Not many workplace-based data | * Commuting modes of residents |
| **PUMS 2015-2019** | * PUMA (close to CD) * POWPUMA (borough) | * Disaggregated data * Can compute all kinds of cross tabulations | * Large geography (especially the workplace) | * Commuting modes by industry by OD |
| **CTPP 2012-2016** | * Census Tract | * Rich information based on workplace and OD | * Missing data for tract level workplace | * Modal split percentages based on workplace (be aware of the bias caused by missing values) |
| **LEHD 2019** | * Census Block | * Small geography * OD data | * No off-the-book jobs * Headquartering issue (improved since 2017) * Limited demographic categories | * Block to block level OD |
| **NYMTC RHTS 2010/2011** | * Census Tract | * Disaggregated trip diaries * Can compute all kinds of trip related data * Cover the 28 counties region | * Data is from a decade ago (may have new survey soon) * Small sample size (43,559 persons; 0.2% of population) | * Trips per day by mode and trip purpose |
| **MTA NYC Travel Surveys 2018** | * Census Block Group | * Disaggregated trip diaries * Can compute all kinds of transit trip related data | * Only residents in NYC * Small sample size (19,038 persons; 0.2% of population) | * Split percentage by route for each station |