

Education Demographic, Geographic, and Economic Statistics Program (EDGE)

nces.ed.gov/programs/edge

National Center for Education Statistics at IES

Learn More About the Social and Spatial Context of Education

The Education Demographic, Geographic, and Economic Statistics Program (EDGE) develops data resources about the social and spatial context of education in the U.S. The program creates custom data from the Census Bureau's American Community Survey (ACS) that identifies social, economic, and housing conditions for school-age children and school districts, and it designs analytic tools to summarize and visualize these data in their geographic context. The EDGE program also develops annually updated geospatial data for school district boundaries, school locations, locale boundaries, and other types of educational geography to help explore how location affects educational opportunities and outcomes. EDGE economic indicators incorporate social and spatial conditions to develop indices of educational costs and neighborhood income levels. The EDGE collection provides information and insight into issues such as:

- Socioeconomic conditions of school-age children, enrolled students, and parents
- School district social, economic, demographic, and housing characteristics
- Neighborhood poverty
- Geographic contexts of school district social and economic conditions
- Spatial analysis of schools and community conditions
- Urban and rural schools

Find Data

Demographic Data

The American Community Survey-Education Tabulation (ACS-ED) is an ACS custom tabulation designed to provide school districts with annually updated social, economic, demographic, and housing data. The EDGE ACS-ED collection includes characteristics of the general population, as well as unique iterations for school-age children and the parents of school-age children. The ACS-ED collection is complemented by school district data from the 1990, 2000, and 2010 decennial census. The EDGE data archive is the largest source of school district demographic and economic characteristics available from the federal statistical system.

Geographic Data

The EDGE program provides a variety of geographic data layers to support spatial analysis. The geospatial collection includes a 20-year archive of school district boundaries and point locations for public schools, private schools, postsecondary schools, and public school district administrative offices. The collection also includes locale

boundaries that provide geographic indicators (e.g., Large City, Rural Fringe) for schools and other geocoded locations. EDGE geodata are available as data web services for easy GIS access, and non-GIS users can explore school and the school district locations through EDGE analytic tools.

Economic Data

EDGE economic indicators are designed to account for geographic differences in key economic conditions. The Comparable Wage Index for Teachers (CWIFT) is an ACS-based measure of the systematic regional variation in wages and salaries that can be used to adjust for geographic differences in educational costs. The Spatially Interpolated Demographic Estimates (SIDE) project provides an optimized estimate of the income-to-poverty ratio for geocoded addresses. EDGE applies the indicator to school locations to produce school neighborhood poverty estimates and is working with states and districts to make similar poverty estimates available for students.

Explore Data

EDGE provides a variety of analytic tools to help new and advanced data users explore the social and spatial context of education.



ACS-ED School District Dashboard

nces.ed.gov/programs/edge/acsdashboard

The Dashboard provides a summary infographic of core socioeconomic characteristics about children, parents, and the general population living in a selected school district.



ACS-ED Tables

nces.ed.gov/programs/edge/Demographic/ACS

The Tables tool supports queries and downloads of the full ACS-ED school district data collection in a standard tabular format.



ACS-ED Maps

nces.ed.gov/programs/maped/ACSMaps

This multi-featured mapping tool helps to visualize the spatial distribution of social, economic, and housing characteristics available from the current ACS-ED tabulation. The custom tabulated data can be seen in context with street maps, satellite imagery, supplemental geographic boundaries, and other local and regional features.



Locale Lookup

nces.ed.gov/programs/maped/LocaleLookup

The Lookup tool provides a simple way to classify the types of communities where schools and addresses are located. Basic classifications include City, Suburban, Town, and Rural, and each classification includes additional geographic subtypes. The tool includes a variety of base maps and additional geographic points and boundaries to provide spatial context for locale assignments.



SAFEMap

nces.ed.gov/programs/mapED/SafeMap

This visualization and measurement tool can help determine if Schools Are Far Enough away from potentially unsafe activities or locations. Simply enter an address or identify a location on the map and select a distance radius to identify schools contained in the selected area.



Open Data

data-nces.opendata.arcgis.com

This platform provides web services, APIs, and basic analytic features to quickly explore and access annually updated EDGE geospatial data. The Open Data platform includes a web mapping tool to visualize and integrate EDGE data with additional data web services.

Create Data

The EDGE program provides options to create geographic data extracts to meet your research needs. Data can be filtered for specific attributes or locations, and flexible APIs can provide data without the need to download, store, and directly manage it.



Filter

- Explore data by attributes and location
- Select and download data based on one or several variables
- View filtered data on a map in Open Data



APIs

- Pull EDGE data into other applications
- Select attributes or combinations of attributes
- Apply spatial filters to select data in custom geographic areas

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