

# Data Analysis for Budget Advocacy

Christopher Meyer, Research Analyst  
Advocacy Workshop  
Nonprofit Prince George's County, Bowie, MD  
December 12, 2018

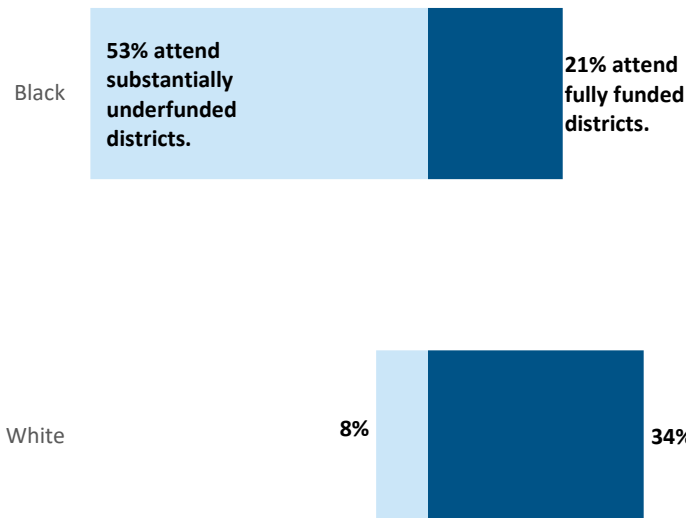


# Data: What Is It Good For?

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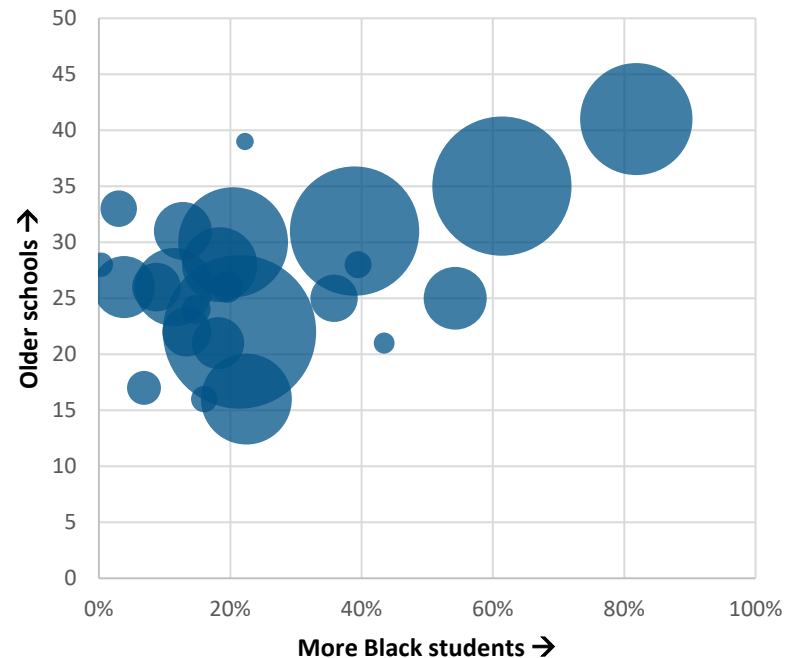
## *Documenting a Disparity*

**More than Half of Black Students in Maryland Attended Substantially Underfunded Schools as of 2015**



**Schools in Predominantly Black Districts Are Older, on Average**

Square footage-weighted average age of school buildings in years by percent of students who are Black, 2015–2016 school year



- 1 Source: MDCEP analysis of DLS funding adequacy data, Department of Management and Budget Managing for Results data on school construction, and National Center for Education Statistics data on enrollment by race.

# Data: What Is It Good For?

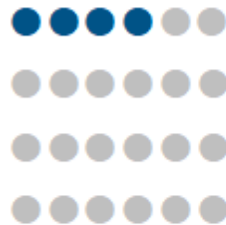
## *Documenting the Size of a Problem*

- **363,000 Marylanders** went without health insurance in 2016.
- Black workers in southern Prince George's County spend **55** more hours commuting each year than their white neighbors.

# Data: What Is It Good For?

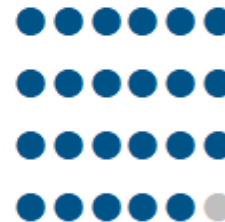
## *Documenting Change Over Time*

### Maryland's Bridge to Excellence Law: A Story of Progress and Retreat



**2004:** When the state began phasing in the Bridge to Excellence formula, only 4 Maryland school districts were fully funded.

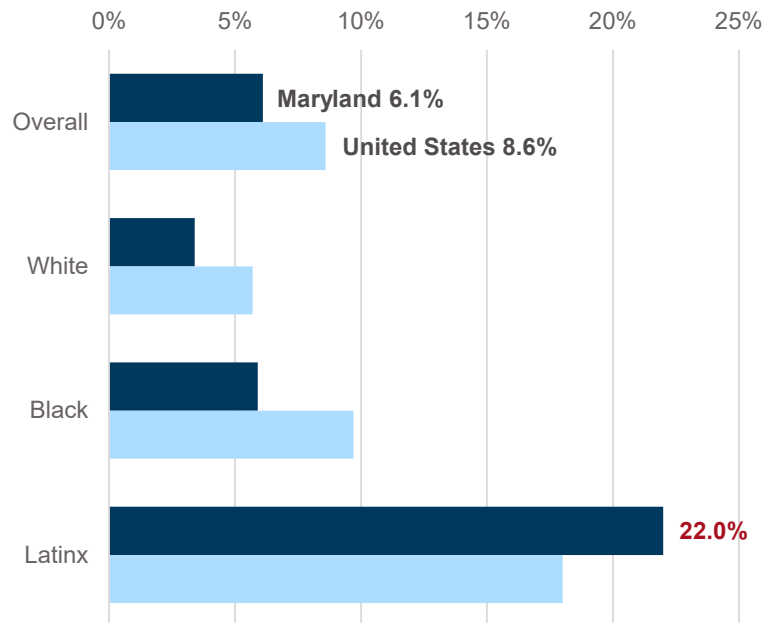
**2008:** After six years of consistent funding, 23 school districts were fully funded.



**2015:** After seven straight years of cuts, only 6 districts were still fully funded.

# Data: What Is It Good For?

**Maryland Has Come Far on Insurance Coverage, but Too Many Are Still Unprotected**  
Percent without health insurance, 2016



Source: American Community Survey 2016 one-year estimates.

- Providing context
- Understanding the contours of a problem
- Establishing credibility

# Data Sources

# Multipurpose Data Sources

## *American FactFinder*

- <https://factfinder.census.gov/>
- American Community Survey
  - 3 million respondents per year
  - Income, employment, and poverty
  - Gender, age, education, race and ethnicity
  - Housing, health insurance, commuting ...
  - Much more
- Population Estimates
- (Relatively) user friendly

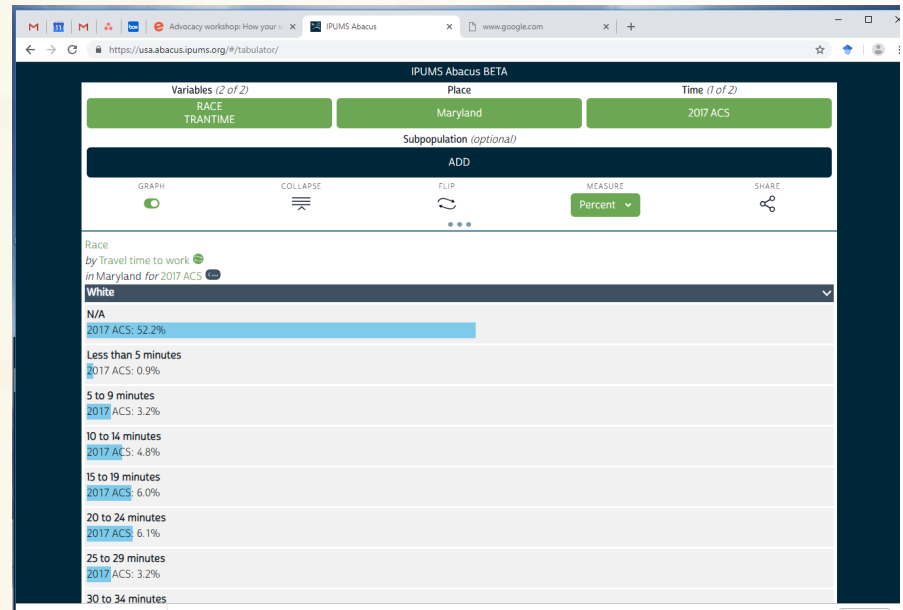
The screenshot displays the American FactFinder website's 'Guided Search' interface. At the top, the 'United States Census Bureau' logo is on the left, and the 'AMERICAN FactFinder' logo is on the right, with a magnifying glass icon over the word 'FactFinder'. Below the logos is a navigation bar with tabs: 'MAIN', 'COMMUNITY FACTS', 'GUIDED SEARCH' (highlighted in orange), 'ADVANCED SEARCH', and 'DOWNLOAD C'. Below the navigation bar, the text 'Guided Search - Step-by-step access to Census Information' is displayed. A progress bar shows six steps: '1 Start', '2 Topics' (highlighted), '3 Geographies', '4 Race/Ethnic Groups', '5 Search Results', and '6 Table'. The main content area prompts the user to 'Select the topic(s) you're interested in. Click Next.' and includes a note: 'You can select one or more topics to add to Your Selections. As you add and remove topics, the number of tables matching Your Selections is updated.' A list of topics is shown under the heading 'People', with expandable icons (+/-) next to each item: 'Basic Count/Estimate', 'Age & Sex', 'Age Group', 'Disability', 'Education', 'Employment', 'Income & Earnings', 'Insurance Coverage', 'Homeowners/Renters Insurance (12)', 'Health Insurance (1,704)', 'Language', 'Marital & Fertility Status', 'Origins', 'Population Change', 'Poverty', 'Relationship', and 'Veterans'. To the right of the topic list is a 'Your Selections' box that currently says 'Your Selections' is empty'. Below this box are 'PREVIOUS' and 'NEXT' buttons.



# Multipurpose Data Sources

## *IPUMS Abacus*

- <https://usa.abacus.ipums.org/>
- American Community Survey microdata tool
- Customized tables
- Mobile friendly
- (Relatively) user friendly
- Use cases:
  - Analysis on the go
  - AFF doesn't have the table you need



# Multipurpose Data Sources

## *Department of Budget and Management*

- <http://dbm.maryland.gov/budget/Pages/operbudhome.aspx>
- Fiscal Digest: Current year's enacted budget
- Budget Highlights (proposed budget)
  - Appendix C: Detailed current year enacted budget and proposed budget
  - Appendix H: Detailed proposed contingent cuts
  - Appendix L: High-level breakdown of federal funds
- Budget books
  - Highly detailed breakdown of proposed budget
  - Includes current enacted budget and prior-year actual spending
  - Detail on local aid
  - Detailed federal funding sources
- Historical budget documents



# Multipurpose Data Sources

## Department of Legislative Services

- <http://dls.maryland.gov/>
- Budget analysis
  - [http://mgaleg.maryland.gov/webmga/frmbgtnfiscal.aspx?pid=bnfpage&stab=01&id=sk001\\_tab01&tab=subject4&ys=2018RS](http://mgaleg.maryland.gov/webmga/frmbgtnfiscal.aspx?pid=bnfpage&stab=01&id=sk001_tab01&tab=subject4&ys=2018RS)
  - Trends, context, explanatory information, recommendations
- Fiscal and policy notes
  - Found on individual bill pages
  - Explanation of current law and how a bill would change it
  - Estimated spending and revenue impacts
  - Policy impacts (sometimes)
- Publications archive
  - <http://dls.maryland.gov/publications/>
  - State spending trends, local government finances, tax credit evaluations ...
  - Much more

### Analysis in Brief

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#### Major Trends

**Partnership for Assessment of Readiness for College and Careers Results Relatively Level:** Partnership for Assessment of Readiness for College and Careers (PARCC) assessments were administered for the third time during the 2016-2017 school year. In total, 41% of students across all exams demonstrated readiness in English/language arts (ELA), a 1.6 percentage point increase over the previous year. Scores for mathematics were lower, with 33.6% of students statewide demonstrating readiness, which was about the same as the previous year. **The Maryland State Department of Education (MSDE) should update the committees on which local education agencies (LEA) are administering PARCC for optional grades and subjects, such as grade 9 ELA and Geometry. MSDE should also update the committees on the State's timeline for achieving the goal that students are college and career ready when leaving high school.**

**Graduation Rate Slows in Growth:** Cohort graduation rates indicate that an increasing number of Maryland students are graduating on time each year, though the growth has slowed recently. The four-year adjusted cohort graduation rate for the class of 2017 was 87.7%, which amounts to a 0.1 percentage point increase over the class of 2016 rate.

#### Issues

**State Aid to Education:** Under current law, public schools are expected to receive \$6.5 billion in funding from the State in fiscal 2019, representing a \$157 million (2.5%) increase over the prior fiscal year. The largest increases can be attributed to the Foundation program, funding for students with limited English proficiency, net taxable income grants, and supplemental grants that allow all LEAs to receive an increase in direct education aid. Reductions contingent on the BRFA of 2018 seek to reduce the fiscal 2019 appropriation by \$19.3 million.

**Commission on Innovation and Excellence in Education Requests Extension:** The Commission on Innovation and Excellence in Education has submitted a preliminary report with recommendations arranged around five policy areas. The commission has also requested an additional year to fully respond to its charge and “cost out” its recommendations. Legislation has been introduced that would extend the commission’s deadline while also implementing several of its preliminary

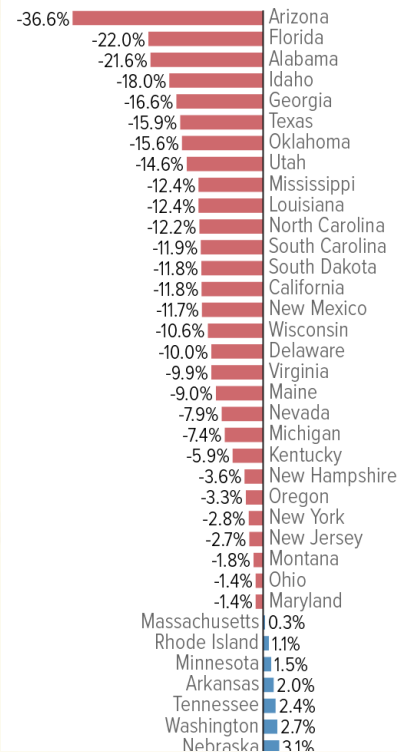
# Multipurpose Data Sources

## *CBPP State Fiscal Project*

- <https://www.cbpp.org/topics/state-budget-and-tax>
- Annually updated reports on state budget trends, frequently including data tables
- High-quality analysis and policy recommendations
- Taxes, education, food assistance, federal aid ...
- Much more

### Total State K-12 Funding Below 2008 Levels in Most States

Percent change in total state funding per student, inflation adjusted, fiscal years 2008-2015



# Topic-Specific Data Sources

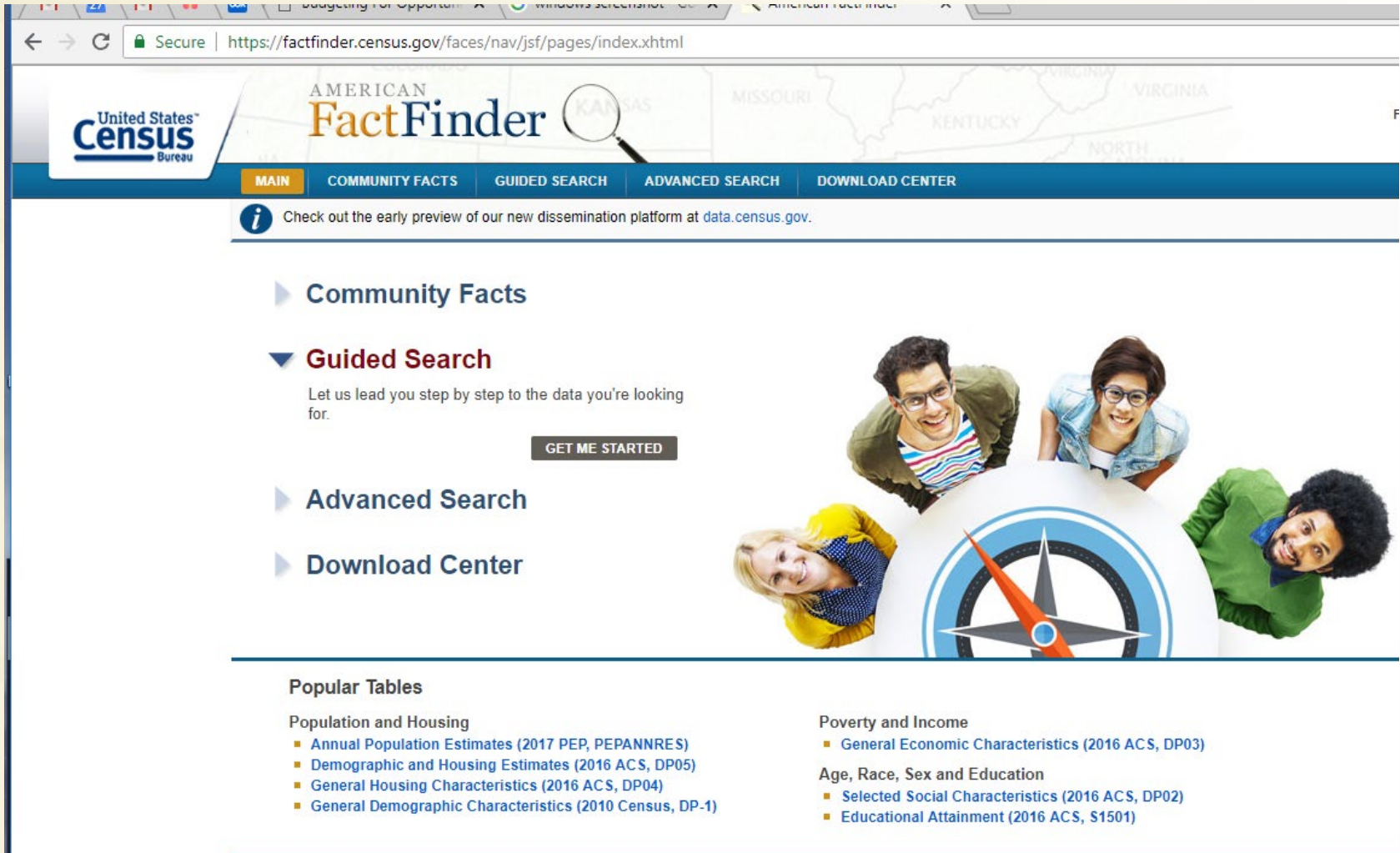
## ■ Health

- Maryland Vital Statistics (<https://health.maryland.gov/vsa/Pages/reports.aspx>)
- CDC (<https://www.cdc.gov/datastatistics/index.html>)
- County Health Rankings (<http://www.countyhealthrankings.org/explore-health-rankings/use-data>)

## ■ Education

- MSDE Selected Financial Data  
(<http://www.marylandpublicschools.org/about/Pages/DBS/SFD/index.aspx>)
- Maryland Report Card data downloads  
(<http://reportcard.msde.maryland.gov/downloadindex.aspx?K=99AAAA>)
- National Center for Education Statistics Common Core of Data
  - ◆ Data downloads—for complex analyses (<https://nces.ed.gov/ccd/ccddata.asp>)
  - ◆ Online tools—for simpler analyses (<https://nces.ed.gov/ccd/elsi/>)
  - ◆ Best data source for student race and ethnicity

# Using American Fact Finder




The screenshot shows the American Fact Finder website. At the top, the URL is <https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>. The page features the United States Census Bureau logo and the "AMERICAN FactFinder" title. A navigation bar includes links for MAIN, COMMUNITY FACTS, GUIDED SEARCH, ADVANCED SEARCH, and DOWNLOAD CENTER. A message banner promotes a new dissemination platform at [data.census.gov](https://data.census.gov). The main content area has a left sidebar with links to Community Facts, Guided Search, Advanced Search, and Download Center. The Guided Search section includes a "GET ME STARTED" button. A large graphic on the right shows four diverse people looking at a large compass rose. Below this, a "Popular Tables" section lists various data categories and their corresponding tables.

United States Census Bureau

AMERICAN FactFinder

MISSOURI KANSAS VIRGINIA KENTUCKY NORTH CAROLINA

MAIN COMMUNITY FACTS GUIDED SEARCH ADVANCED SEARCH DOWNLOAD CENTER

 Check out the early preview of our new dissemination platform at [data.census.gov](https://data.census.gov).

Community Facts

Guided Search

Let us lead you step by step to the data you're looking for.

GET ME STARTED

Advanced Search

Download Center

Popular Tables

Population and Housing

- Annual Population Estimates (2017 PEP, PEPPANNRES)
- Demographic and Housing Estimates (2016 ACS, DP05)
- General Housing Characteristics (2016 ACS, DP04)
- General Demographic Characteristics (2010 Census, DP-1)

Poverty and Income

- General Economic Characteristics (2016 ACS, DP03)

Age, Race, Sex and Education

- Selected Social Characteristics (2016 ACS, DP02)
- Educational Attainment (2016 ACS, S1501)

# Using American Fact Finder



Choose from one of the following and click **Next**.



I'm looking for information about **people**.

(age, sex, income, poverty, education, ...)



I'm looking for information about **housing**.

(housing units, household type, value of home, ...)



I'm looking for information about **businesses or industries**.

(annual payroll, sales and receipts, number of employees, ...)



I'm looking for information from a specific **dataset**.

(2006-2010 American Community Survey 5-Year Estimates, 2007 Economic Census, 2008 Survey of Professional and Technical Occupations, ...)



I want to search for a **table number** or a **table title**.

# Using American Fact Finder

## People

- ☐ Basic Count/Estimate
- ☐ Age & Sex
- ☐ Age Group
- ☐ Disability
- ☐ Education
- ☐ Employment
- ☐ Income & Earnings
- ☐ Insurance Coverage
  - Homeowners/Renters Insurance (12)
  - Health Insurance (1,704)
- ☐ Language
- ☐ Marital & Fertility Status
- ☐ Origins
- ☐ Population Change
- ☐ Poverty
- ☐ Relationship
- ☐ Veterans

**Note:** The Race & Ethnicity topic is available under the Race and Ethnic Groups step.



# Using American Fact Finder





Select a geographic type:





- select a geographic type --
- select a geographic type --
- United States - 010
- Region - 020
- Division - 030
- State - 040**
- ..... County - 050
- ..... County Subdivision - 060
- ..... Census Tract - 140
- ..... Block Group - 150
- ..... Equal Employment Opportunity County Set - 902
- ..... Place - 160
- ..... Estimates Universe Place - 162
- ..... Economic Place - E60
- ..... County (or part) - E65
- ..... Consolidated City - 170
- ..... Place within Consolidated City (or part) - 172
- ..... Congressional District - 500
- ..... School District (Elementary)/Remainder - 950
- ..... School District (Secondary)/Remainder - 960

# Using American Fact Finder






 Select a geographic type:  


State - 040 

 Select one or more geographic areas and click **Add to Your Selections**:  

All States within United States and Puerto Rico  
All States within United States, Puerto Rico, and the Island Areas  
Alabama  
Alaska  
Arizona  
Arkansas  
California  
Colorado  
Connecticut  
Delaware

**ADD TO YOUR SELECTIONS**  ABOUT THIS GEOGRAPHY

**MDCEP**  
MARYLAND CENTER  
ON ECONOMIC POLICY

# Using American Fact Finder



Are you looking for data for a race or ethnic group (race, ancestry, or tribe)?

**SKIP THIS STEP**

No, I'm not looking for race or ethnic group data

**SELECT FROM BASIC GROUPS**

I'm looking for general information about basic groups, or basic counts of ancestries or tribes.

Use "Basic Groups" to find more than one race groups within a single table for instance the populations of the 57 race combinations.

**SELECT FROM DETAILED GROUPS**

I am looking for detailed information about race groups.

Use "Detailed Groups" to find detailed demographic data for one or more specific race (e.g. White and Black, Navajo alone, or Taiwanese alone). These tables come from the Decennial Census (SE 2, SE 4, and AIAN) and the American Community Survey.

# Using American Fact Finder

Guided Search - Step-by-step access to Census Information

1 Start 2 Topics 3 Geographies 4 Race/Ethnic Groups 5 Search Results 6 Table Viewer

★ - Suggested search results for *Health Insurance* Show results from: All available years All available programs

Table, File or Document Title	ID	Dataset
★ SELECTED CHARACTERISTICS OF HEALTH INSURANCE COVERAGE IN THE UNITED STATES	S2701	2016 ACS 5-year estimates
★ HEALTH INSURANCE COVERAGE STATUS BY SEX BY AGE	B27001	2016 ACS 5-year estimates
★ PRIVATE HEALTH INSURANCE STATUS BY SEX BY AGE	B27002	2016 ACS 5-year estimates
★ PUBLIC HEALTH INSURANCE STATUS BY SEX BY AGE	B27003	2016 ACS 5-year estimates
★ EMPLOYER-BASED HEALTH INSURANCE BY SEX BY AGE	B27004	2013 ACS 3-year estimates
<u>SELECTED CHARACTERISTICS OF HEALTH INSURANCE COVERAGE IN THE UNITED STATES</u>	S2701	2016 ACS 1-year estimates
PRIVATE HEALTH INSURANCE COVERAGE BY TYPE	S2703	2016 ACS 5-year estimates
PRIVATE HEALTH INSURANCE COVERAGE BY TYPE	S2703	2016 ACS 1-year estimates
PUBLIC HEALTH INSURANCE COVERAGE BY TYPE	S2704	2016 ACS 5-year estimates
PUBLIC HEALTH INSURANCE COVERAGE BY TYPE	S2704	2016 ACS 1-year estimates
AGE BY DISABILITY STATUS BY HEALTH INSURANCE COVERAGE STATUS	B18135	2016 ACS 5-year estimates
AGE BY DISABILITY STATUS BY HEALTH INSURANCE COVERAGE STATUS	B18135	2016 ACS 1-year estimates

# Using American Fact Finder

Versions of this table are available for the following years:

2016 ▶  
2015

Subject	Maryland									
	Total		Insured		Percent Insured		Uninsured		Percent Uninsured	
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Civilian noninstitutionalized population	5,918,535	+/-2,341	5,555,356	+/-15,923	93.9%	+/-0.3	363,179	+/-15,850	6.1%	+/-0.3
<b>AGE</b>										
Under 18 years	1,344,588	+/-1,197	1,299,633	+/-6,185	96.7%	+/-0.5	44,955	+/-6,115	3.3%	+/-0.5
Under 6 years	433,900	+/-4,210	419,633	+/-5,336	96.7%	+/-0.7	14,267	+/-3,125	3.3%	+/-0.7
6 to 17 years	910,688	+/-4,257	880,000	+/-5,855	96.6%	+/-0.5	30,688	+/-4,367	3.4%	+/-0.5
18 to 64 years	3,721,766	+/-3,177	3,411,517	+/-12,687	91.7%	+/-0.3	310,249	+/-12,285	8.3%	+/-0.3
18 to 24 years	531,009	+/-4,362	482,264	+/-5,954	90.8%	+/-0.8	48,745	+/-4,329	9.2%	+/-0.8
25 to 34 years	807,769	+/-4,722	711,214	+/-6,809	88.0%	+/-0.8	96,555	+/-6,435	12.0%	+/-0.8
35 to 44 years	752,046	+/-3,901	677,621	+/-5,740	90.1%	+/-0.6	74,425	+/-4,465	9.9%	+/-0.6
45 to 54 years	844,688	+/-3,333	791,259	+/-5,594	93.7%	+/-0.5	53,429	+/-4,603	6.3%	+/-0.5
55 to 64 years	786,254	+/-1,857	749,159	+/-3,724	95.3%	+/-0.5	37,095	+/-3,554	4.7%	+/-0.5
65 years and older	852,181	+/-1,751	844,206	+/-2,304	99.1%	+/-0.2	7,975	+/-1,470	0.9%	+/-0.2
65 to 74 years	512,632	+/-2,194	506,684	+/-2,339	98.8%	+/-0.2	5,948	+/-1,261	1.2%	+/-0.2
75 years and older	339,549	+/-1,930	337,522	+/-2,016	99.4%	+/-0.2	2,027	+/-841	0.6%	+/-0.2
19 to 25 years	533,391	+/-6,716	481,419	+/-7,049	90.3%	+/-0.8	51,972	+/-4,545	9.7%	+/-0.8
<b>SEX</b>										
Male	2,848,901	+/-4,423	2,641,743	+/-10,250	92.7%	+/-0.3	207,158	+/-9,555	7.3%	+/-0.3
Female	3,069,634	+/-3,792	2,913,613	+/-10,178	94.9%	+/-0.3	156,021	+/-8,832	5.1%	+/-0.3
<b>RACE AND HISPANIC OR LATINO ORIGIN</b>										
White alone	3,343,098	+/-13,348	3,180,477	+/-14,021	95.1%	+/-0.3	162,621	+/-10,756	4.9%	+/-0.3
Black or African American alone	1,757,742	+/-9,690	1,654,716	+/-12,892	94.1%	+/-0.5	103,026	+/-8,375	5.9%	+/-0.5
American Indian and Alaska Native alone	14,879	+/-2,484	13,824	+/-2,296	92.9%	+/-4.0	1,055	+/-636	7.1%	+/-4.0
Asian alone	373,810	+/-4,962	353,834	+/-5,705	94.7%	+/-0.8	19,976	+/-2,945	5.3%	+/-0.8
Native Hawaiian and Other Pacific Islander alone	N	N	N	N	N	N	N	N	N	N
Some other race alone	228,802	+/-12,466	162,524	+/-10,842	71.0%	+/-2.6	66,278	+/-6,741	29.0%	+/-2.6
Two or more races	197,837	+/-10,934	187,695	+/-10,246	94.9%	+/-1.3	10,142	+/-2,699	5.1%	+/-1.3
Hispanic or Latino (of any race)	579,918	+/-1,186	452,140	+/-8,907	78.0%	+/-1.6	127,778	+/-9,068	22.0%	+/-1.6
White alone, not Hispanic or Latino	3,042,420	+/-3,209	2,938,464	+/-8,382	96.6%	+/-0.3	103,956	+/-8,158	3.4%	+/-0.3
<b>LIVING ARRANGEMENTS</b>										
In family households	4,904,313	+/-17,003	4,613,733	+/-20,023	94.1%	+/-0.3	290,580	+/-14,661	5.9%	+/-0.3
In married couple families	3,457,235	+/-33,273	3,308,295	+/-31,844	95.7%	+/-0.3	148,940	+/-10,812	4.3%	+/-0.3
In other families	1,447,078	+/-30,627	1,305,438	+/-28,665	90.2%	+/-0.7	141,640	+/-10,386	9.8%	+/-0.7
Male householder, no wife present	390,505	+/-19,289	331,320	+/-17,219	84.8%	+/-1.5	59,185	+/-6,549	15.2%	+/-1.5
Female householder, no husband present	1,056,573	+/-27,021	974,118	+/-26,234	92.2%	+/-0.6	82,455	+/-6,936	7.8%	+/-0.6
In non-family households and other living arrangements	1,014,222	+/-17,163	941,623	+/-15,808	92.8%	+/-0.6	72,599	+/-6,574	7.2%	+/-0.6
<b>NATIVITY AND U.S. CITIZENSHIP STATUS</b>										

# Using American Fact Finder

Table View 

Actions:  [Modify Table](#) |  [Add/Remove Geographies](#) |  [Bookmark/Save](#) |  [Print](#) |  [Download](#) |  [Create a Map](#)

Tell us what you think. [Provide feedback to help make American Community Survey data more useful for you.](#)

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates estimates of housing units for states and counties.

Versions of this table are available for the following years:

**2016** ▶  
2015

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# Using American Fact Finder

Download

I want to download the data to ... ?

☐ Use the data (e.g., in a spreadsheet or database)

☒ View the data (e.g., as a presentable document)

This downloads the data in a format suitable for display and presentation; if you wish to manipulate the data you probably want to select the "Use the data" option above.

Please select the presentation format:

☐ PDF

☒ Microsoft Excel (.xls)

☐ Rich Text Format (.rtf)

Orientation

☒ Portrait

☐ Landscape

Paper size

☒ 8 1/2" x 11"

☐ 8 1/2" x 14"

OK

CANCEL

# Using American Fact Finder

ACS\_16\_1YR\_S2701 (1).xls [Compatibility Mode] - Excel

File Home Insert Format Page Layout Formulas Data Review View Developer Tell me what you want to do...

Values "Big Money" Transpose Thousands PERSONAL.XLSB!ConvertToValue Custom Clipboard Font Alignment Number Styles Cell Styles Insert Delete Format Sort & Find & Filter Select Share Upload

H38 : X ✓ fx +/-10,842

Subject	Maryland		Insured		Percent Insured		Uninsured		Percent Uninsured	
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35 to 44 years	752,046	+/-3,901	677,621	+/-5,740	90.1%	+/-0.6	74,425	+/-4,465	9.9%	+/-0.6
45 to 54 years	644,688	+/-3,333	791,259	+/-5,594	93.7%	+/-0.5	53,429	+/-4,603	6.3%	+/-0.5
55 to 64 years	786,254	+/-1,857	749,159	+/-3,724	95.3%	+/-0.5	37,095	+/-3,554	4.7%	+/-0.5
65 years and older	852,181	+/-1,751	844,206	+/-2,304	99.1%	+/-0.2	7,975	+/-1,470	0.9%	+/-0.2
65 to 74 years	512,632	+/-2,194	506,684	+/-2,339	98.8%	+/-0.2	5,948	+/-1,261	1.2%	+/-0.2
75 years and older	339,549	+/-1,930	337,522	+/-2,016	99.4%	+/-0.2	2,027	+/-841	0.6%	+/-0.2
19 to 25 years	533,391	+/-6,716	481,419	+/-7,049	90.3%	+/-0.8	51,972	+/-4,545	9.7%	+/-0.8
SEX										
Male	2,848,901	+/-4,423	2,641,743	+/-10,250	92.7%	+/-0.3	207,158	+/-9,555	7.3%	+/-0.3
Female	3,069,634	+/-3,792	2,913,613	+/-10,178	94.9%	+/-0.3	156,021	+/-8,832	5.1%	+/-0.3
RACE AND HISPANIC OR LATINO										
White alone	3,343,098	+/-13,348	3,180,477	+/-14,021	95.1%	+/-0.3	162,621	+/-10,756	4.9%	+/-0.3
Black or African American alone	1,757,742	+/-9,690	1,654,716	+/-12,892	94.1%	+/-0.5	103,026	+/-8,375	5.9%	+/-0.5
American Indian and Alaska Native	14,879	+/-2,484	13,824	+/-2,296	92.9%	+/-4.0	1,055	+/-636	7.1%	+/-4.0
Asian alone	373,810	+/-4,962	353,834	+/-5,705	94.7%	+/-0.8	19,976	+/-2,945	5.3%	+/-0.8
Native Hawaiian and Other Pacific	N	N	N	N	N	N	N	N	N	N
Some other race alone	228,802	+/-12,466	162,524	+/-10,842	71.0%	+/-2.6	66,278	+/-6,741	29.0%	+/-2.6
Two or more races	197,837	+/-10,934	187,695	+/-10,246	94.9%	+/-1.3	10,142	+/-2,699	5.1%	+/-1.3
Hispanic or Latino (of any race)	579,918	+/-1,186	452,140	+/-8,907	78.0%	+/-1.6	127,778	+/-9,068	22.0%	+/-1.6
White alone, not Hispanic or Latino	3,042,420	+/-3,209	2,938,464	+/-8,382	96.6%	+/-0.3	103,956	+/-8,158	3.4%	+/-0.3
LIVING ARRANGEMENTS										
In family households	4,904,313	+/-17,003	4,613,733	+/-20,023	94.1%	+/-0.3	290,580	+/-14,661	5.9%	+/-0.3

Ready

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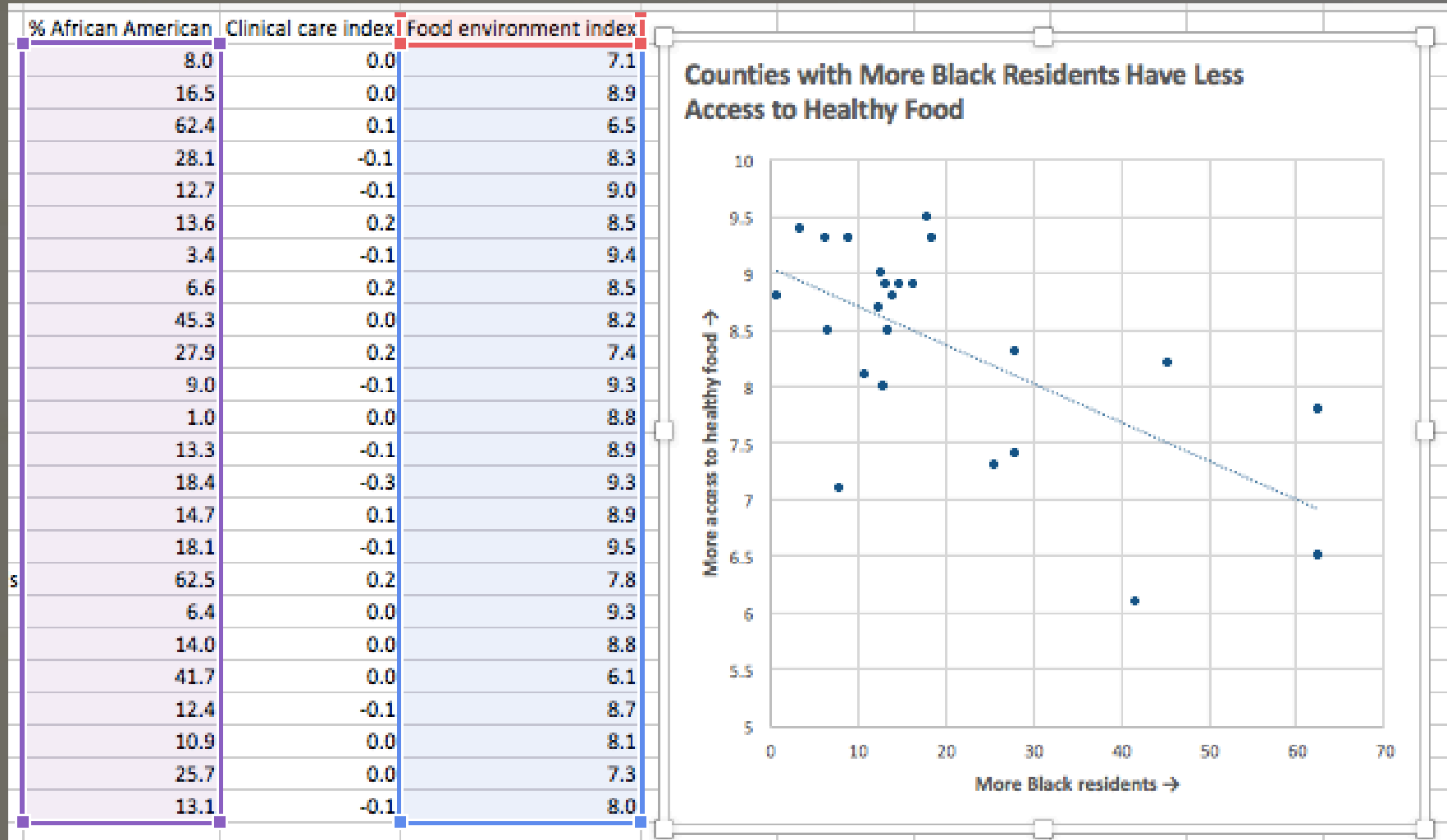


# Analyzing Data

# Easiest Case: Read the Table

Subject	Total		Insured		Percent Uninsured	
	Estimate	Margin of Error	Estimate	Margin of Error	Estimate	Margin of Error
Civilian noninstitutionalized population	5,918,535	+/-2,341	5,555,356	+/-15,923		
AGE						
Under 18 years	1,344,588	+/-1,197	1,299,633	+/-6,185		
Under 6 years	433,900	+/-4,210	419,633	+/-5,336		
6 to 17 years	910,688	+/-4,257	880,000	+/-5,855		
18 to 64 years	3,721,766	+/-3,177	3,411,517	+/-12,687		
18 to 24 years	534,000	+/-4,300	489,354	+/-5,054	6.4%	+/-0.3
25 to 34 years					88.0%	+/-0.8
35 to 44 years					90.1%	+/-0.6
45 to 54 years					93.7%	+/-0.5
55 to 64 years					95.3%	+/-0.5
65 to 74 years					99.1%	+/-0.2
75 years and over					98.8%	+/-0.2
19 to 25 years					99.4%	+/-0.2
SEX						
Male					90.3%	+/-0.8
					92.7%	+/-0.3
RACE AND HISPANIC OR LATINO ORIGIN						
White alone					4.9%	+/-0.3
Black or African American alone					5.9%	+/-0.5
American Indian and Alaska Native alone					7.1%	+/-4.0
Asian alone					5.3%	+/-0.8
Native Hawaiian and Other Pacific Islander alone					N	N
Some other race alone					29.0%	+/-2.6
Two or more races					5.1%	+/-1.3
					95.1%	+/-0.3
					94.1%	+/-0.5
					92.9%	+/-4.0
					94.7%	+/-0.8
					N	N
Hispanic or Latino (of any race)					71.0%	+/-2.6
White alone, not Hispanic or Latino					94.9%	+/-1.3
					3.4%	+/-0.3
					96.6%	

# Pretty Easy Case: Make a Chart



# A Little More Work: Math

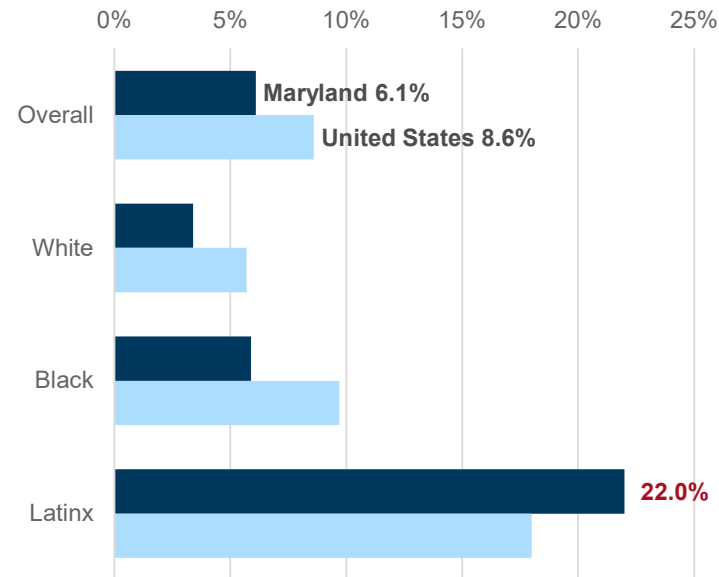
Home Insert Page Layout Formulas Data Review View Developer					
<div> <div>Paste Values \$0 Transpose Pretty Dollars Paste</div> <div> <div>Calibri (Body) 11 A A</div> <div>B I U</div> <div> <div>Wrap Text</div> <div>Percentage</div> <div>\$ %</div> <div>0.00 0.0</div> </div> </div> </div>					
		Result	Formula		
Total # Black students		302,263	=SUM(E2:E25)		
# Black students >= 95%		63,280	=SUMIF(C2:C25, TRUE, E2:E25)		
# Black students < 85%		158,737	=SUMIF(D2:D25, TRUE, E2:E25)		
% Black students >= 95%		0.21	=H4/\$H\$3		
% Black students < 85%		0.53	=H5/\$H\$3		
19 Queen Anne's	90%	FALSE	FALSE	545	
20 Saint Mary's	89%	FALSE	FALSE	3,273	
21 Somerset	86%	FALSE	FALSE	1,264	
22 Talbot	81%	FALSE	TRUE	744	
23 Washington	86%	FALSE	FALSE	2,822	
24 Wicomico	80%	FALSE	TRUE	5,120	
25 Worcester	115%	TRUE	FALSE	1,287	

# Presenting Data

# Making Comparisons

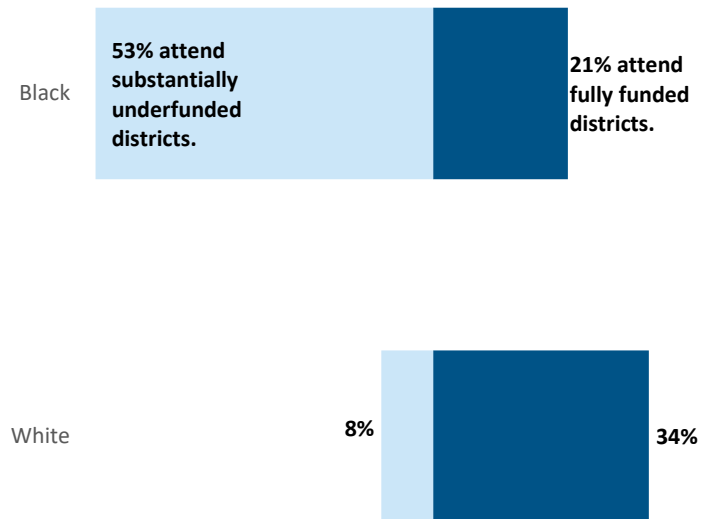
## Maryland Has Come Far on Insurance Coverage, but Too Many Are Still Unprotected

Percent without health insurance, 2016



Source: American Community Survey 2016 one-year estimates.

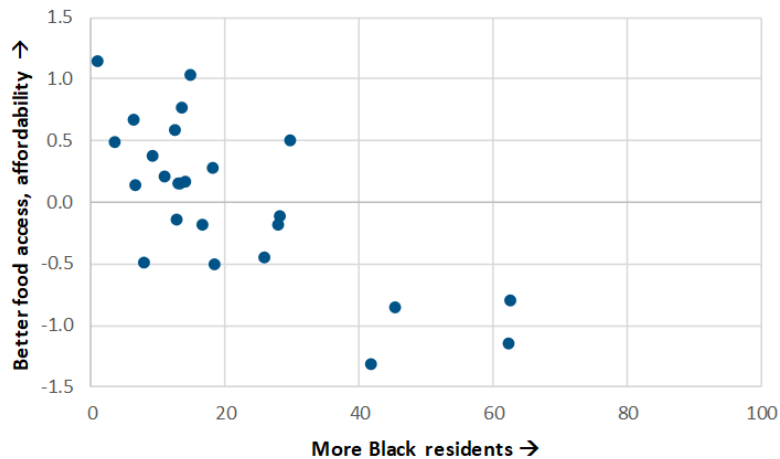
## More than Half of Black Students in Maryland Attended Substantially Underfunded Schools as of 2015



# Showing Relationships

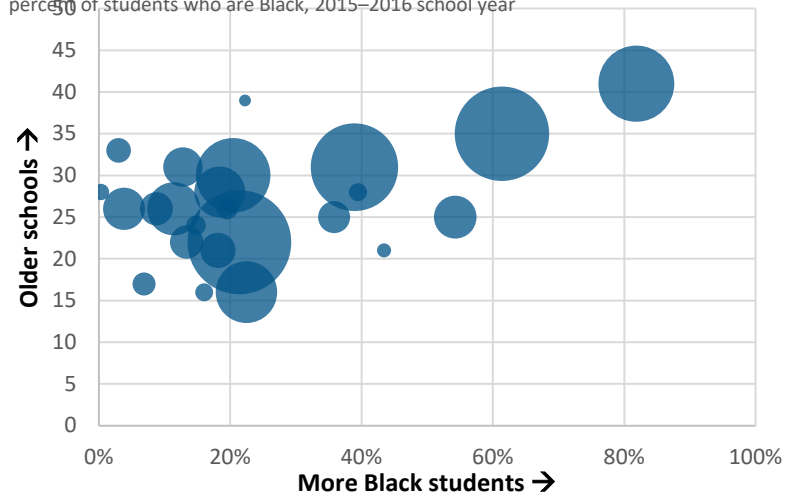
## Food Access and Affordability Worse in Predominantly Black Counties

County Health Rankings Food Environment Index, income adjusted, by county % Black



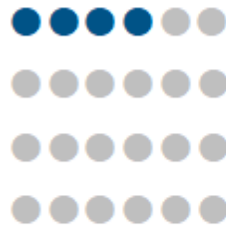
## Schools in Predominantly Black Districts Are Older, on Average

Square footage-weighted average age of school buildings in years by percent of students who are Black, 2015–2016 school year



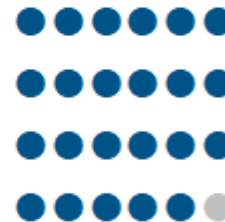
# Telling a Story

## Maryland's Bridge to Excellence Law: A Story of Progress and Retreat



**2004:** When the state began phasing in the Bridge to Excellence formula, only 4 Maryland school districts were fully funded.

**2008:** After six years of consistent funding, 23 school districts were fully funded.



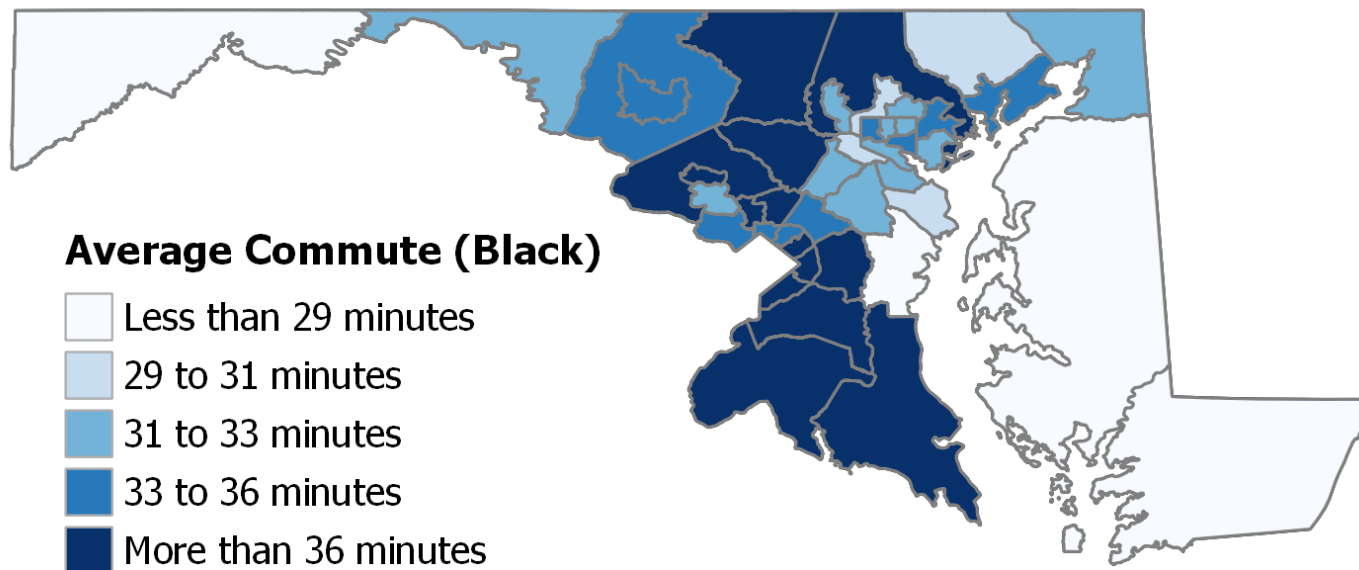
**2015:** After seven straight years of cuts, only 6 districts were still fully funded.



# The Big Number

- **363,000 Marylanders** went without health insurance in 2016.
- Black workers in southern Prince George's County spend **55** more hours commuting each year than their white neighbors.

# Everybody Loves Maps



Source: MDCEP analysis of 2012–2016 IPUMS American Community Survey. Geographic unit of analysis is public use microdata areas (PUMAs).

# Getting Into the Weeds

Average Neighborhood Income		
Household Income	White Households	Black Households
\$60,000 to \$74,999	12.2%	12.2%
\$100,000 to \$124,999	10.0%	9.6%
Average	10.0%	9.6%
Household Income	White Households	Black Households
\$60,000 to \$74,999	12.6%	12.6%
\$100,000 to \$124,999	7.5%	9.6%

Table 1: Regression Results: Effect of Disability Severity on Consumption

	Dependent variable:
	Medical Consumption)
	panel
	year
Task difficulty in	(0.039)
Age	0.1*** (0.002)
Age <sup>2</sup>	*** (0.00001)
Female	0.015)
High school	0.014)
Attended	(0.014)
College grad	(0.014)
African-	-0.001
Native A	-0.116
Asian/P	0.116
Other ra	0.012
Hispanic	-0.040 (0.00001)
Never m	-0.696*** (0.00001)
Widowed	-0.456*** (0.021)
Divorced	-0.595*** (0.016)
Separated	-0.566*** (0.027)
Constant	9.764*** (0.039)
Observations	38,745
R <sup>2</sup>	0.408
Adjusted R <sup>2</sup>	
Residual Std. Error	
F Statistic	(n = 7; 31386)

Note: Dependent variable is Medical Consumption. "Hispanic/Latin" refers to the race/ethnicity category in some years. Reported

# Best Practices

- Cite your sources.
- Be ready to explain how you did it.
- Be precise when talking about correlations.

## Getting Help

- [cmeyer@mdeconomy.org](mailto:cmeyer@mdeconomy.org)

[www.mdeconomy.org](http://www.mdeconomy.org)  
[@mdeconomy](mailto:mdcep@mdeconomy.org)

410-412-9105  
[mdcep@mdeconomy.org](mailto:mdcep@mdeconomy.org)

