

Crosswalks & Time Series from IPUMS NHGIS

Resources for Linking ACS & Census
Summary Data Across Time

Jonathan Schroeder

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ACS Data Users Conference – May 18, 2023

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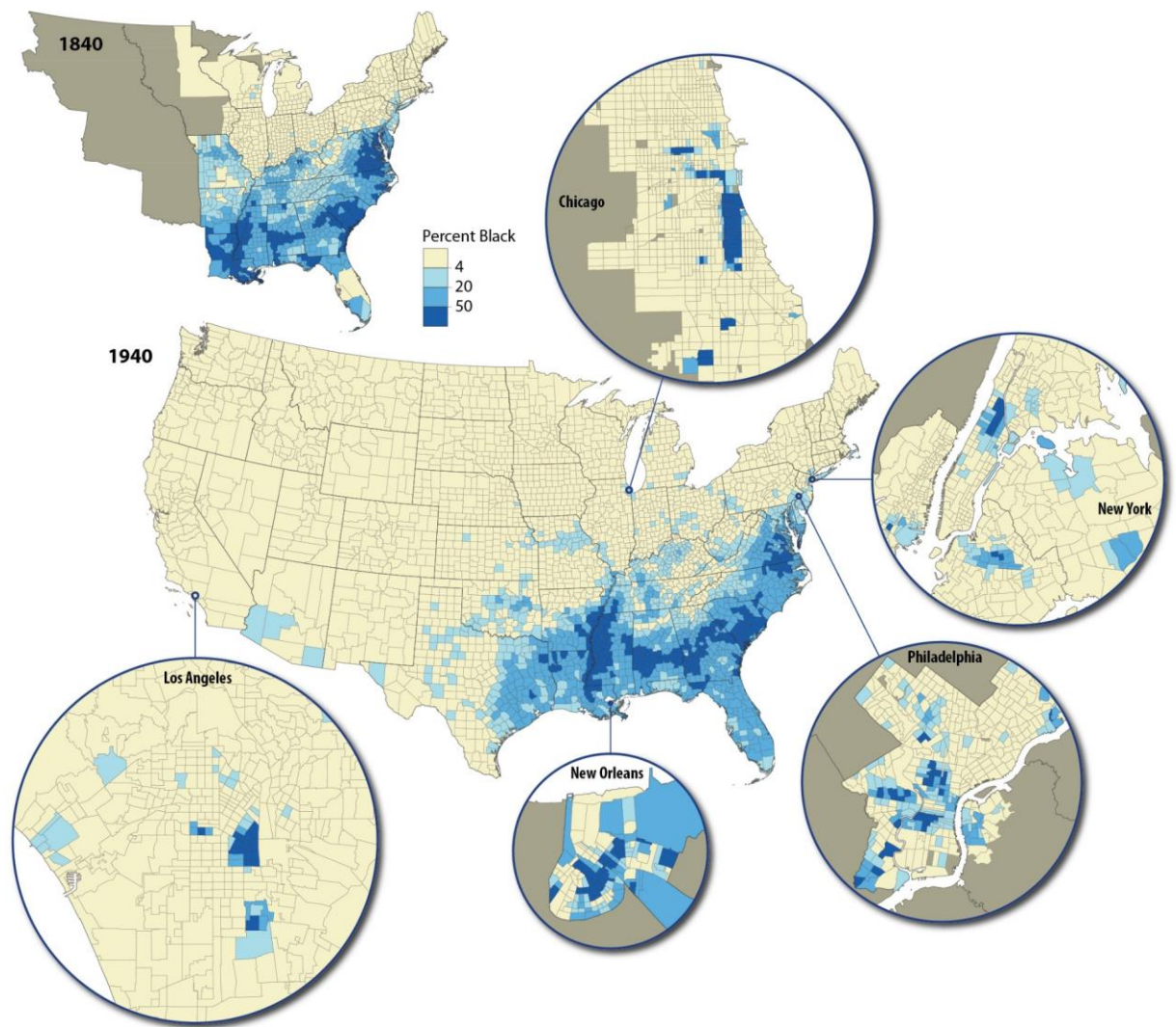
CALENDAR

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NHGIS

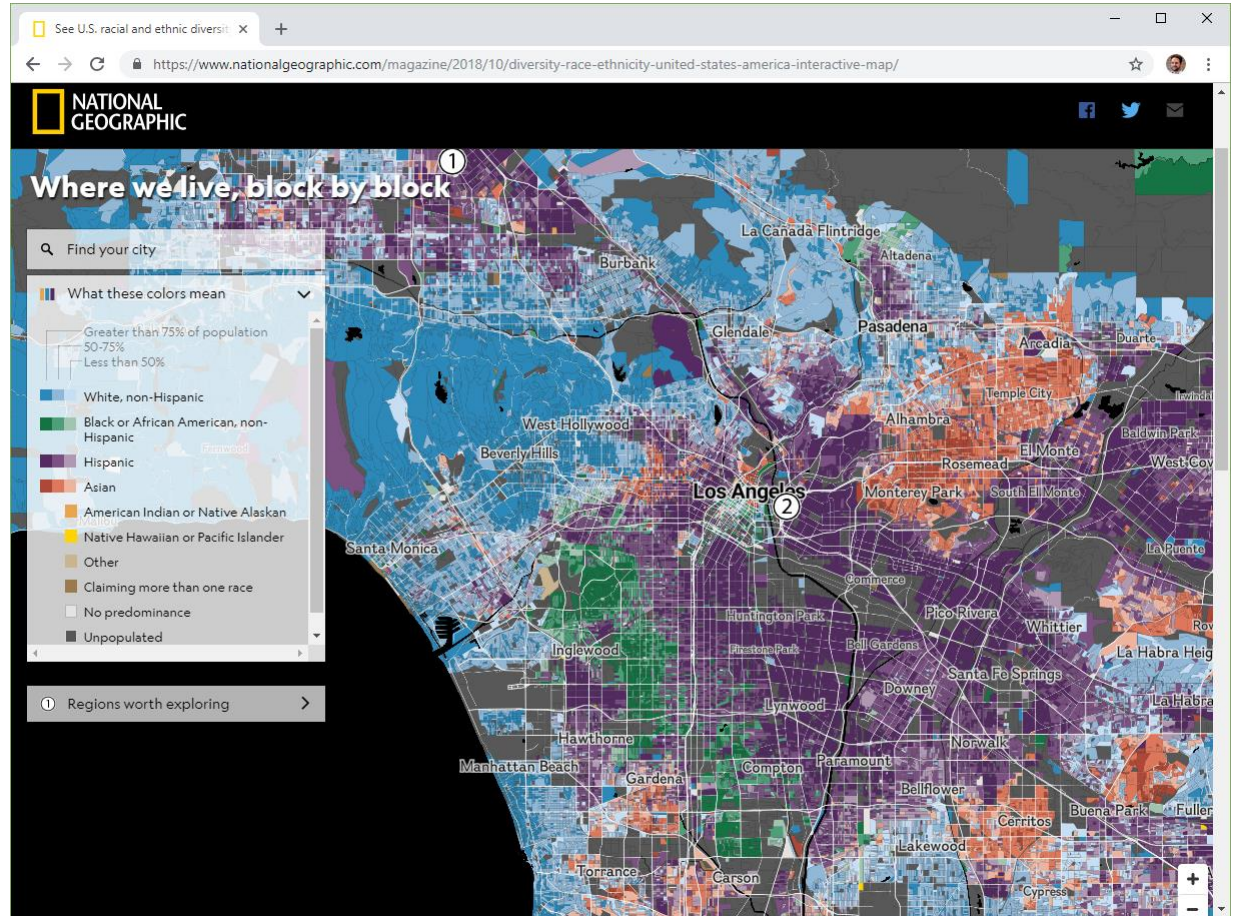
- Geographic U.S. census & survey data
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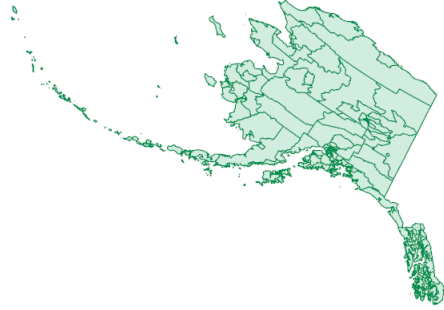
NHGIS

- All summary levels down to census blocks

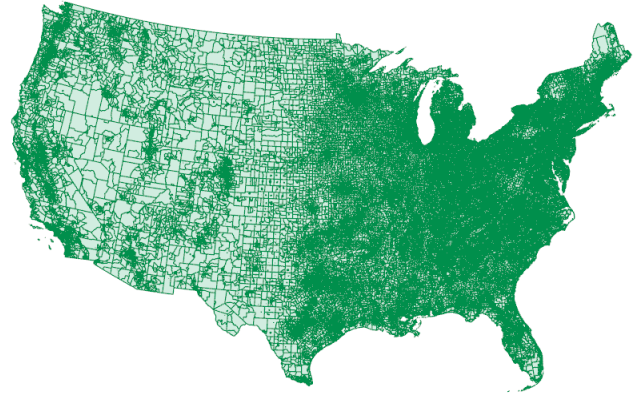


NHGIS

- All summary levels down to census blocks
- Nationwide extent for most levels

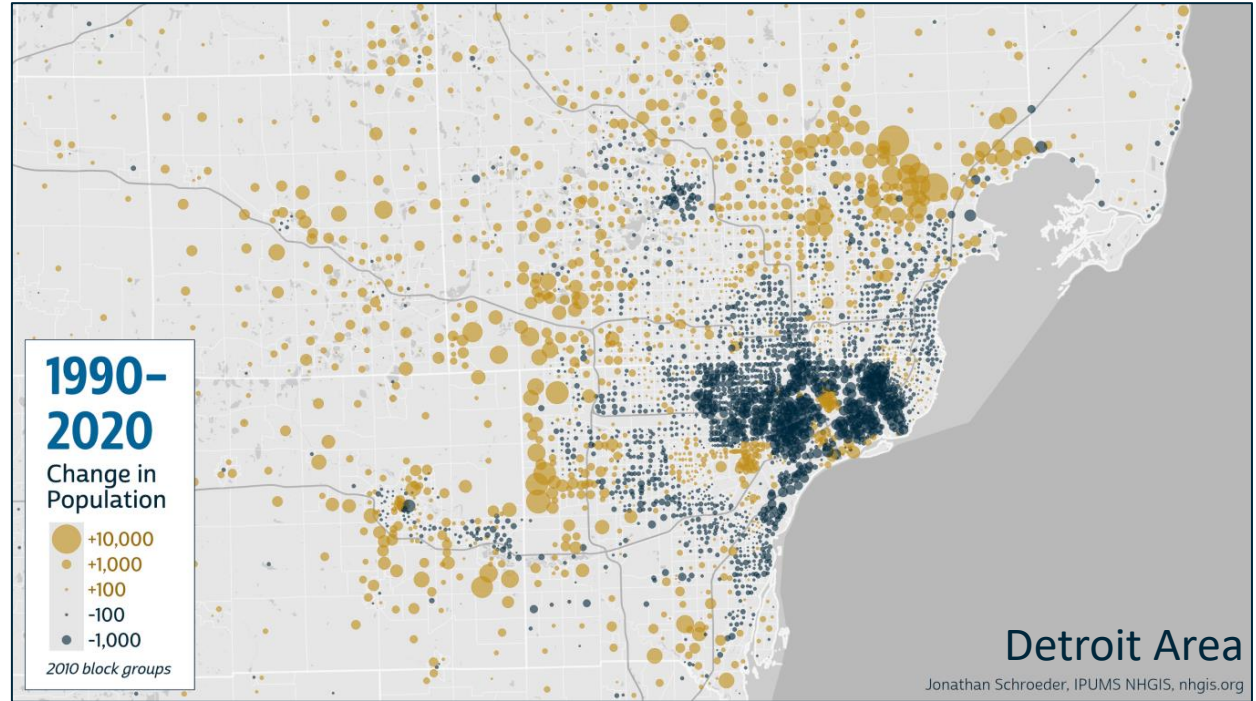


2020 block group
boundaries

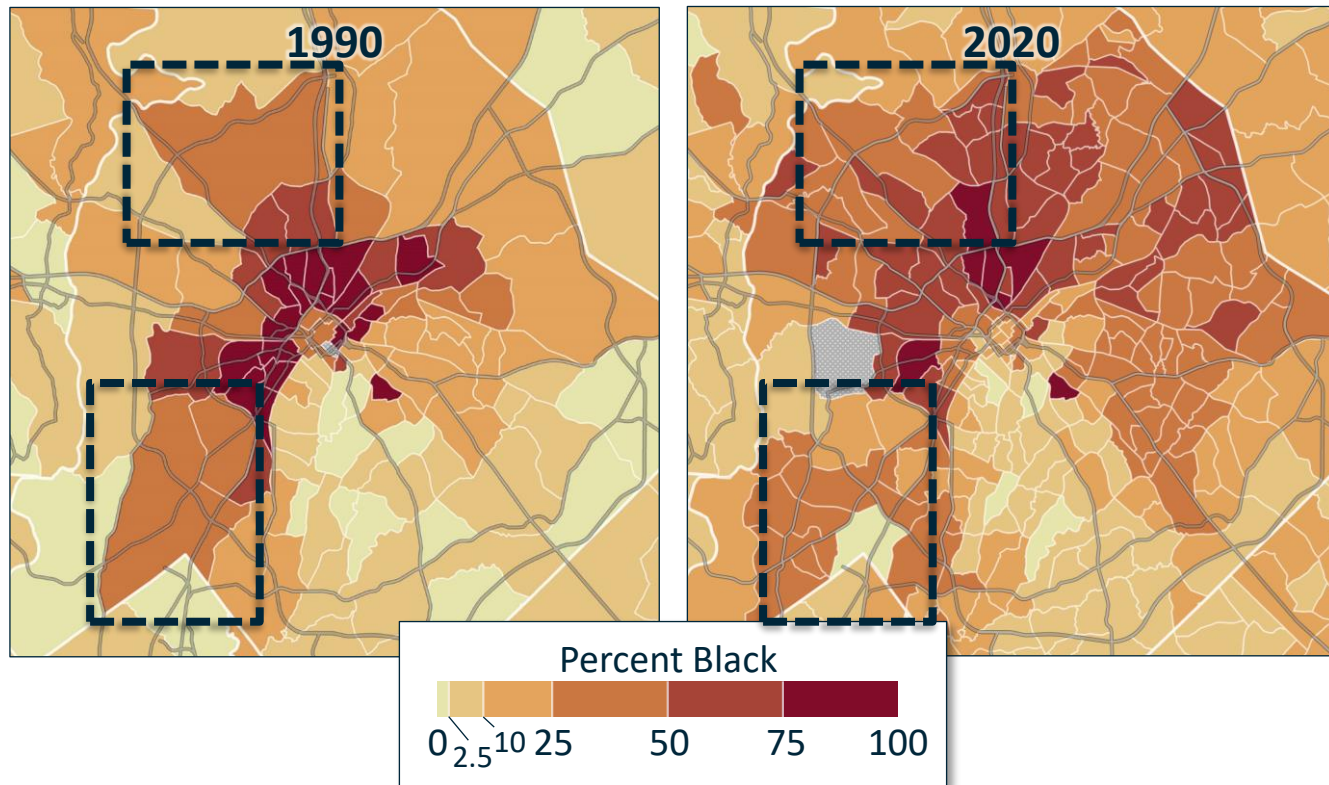


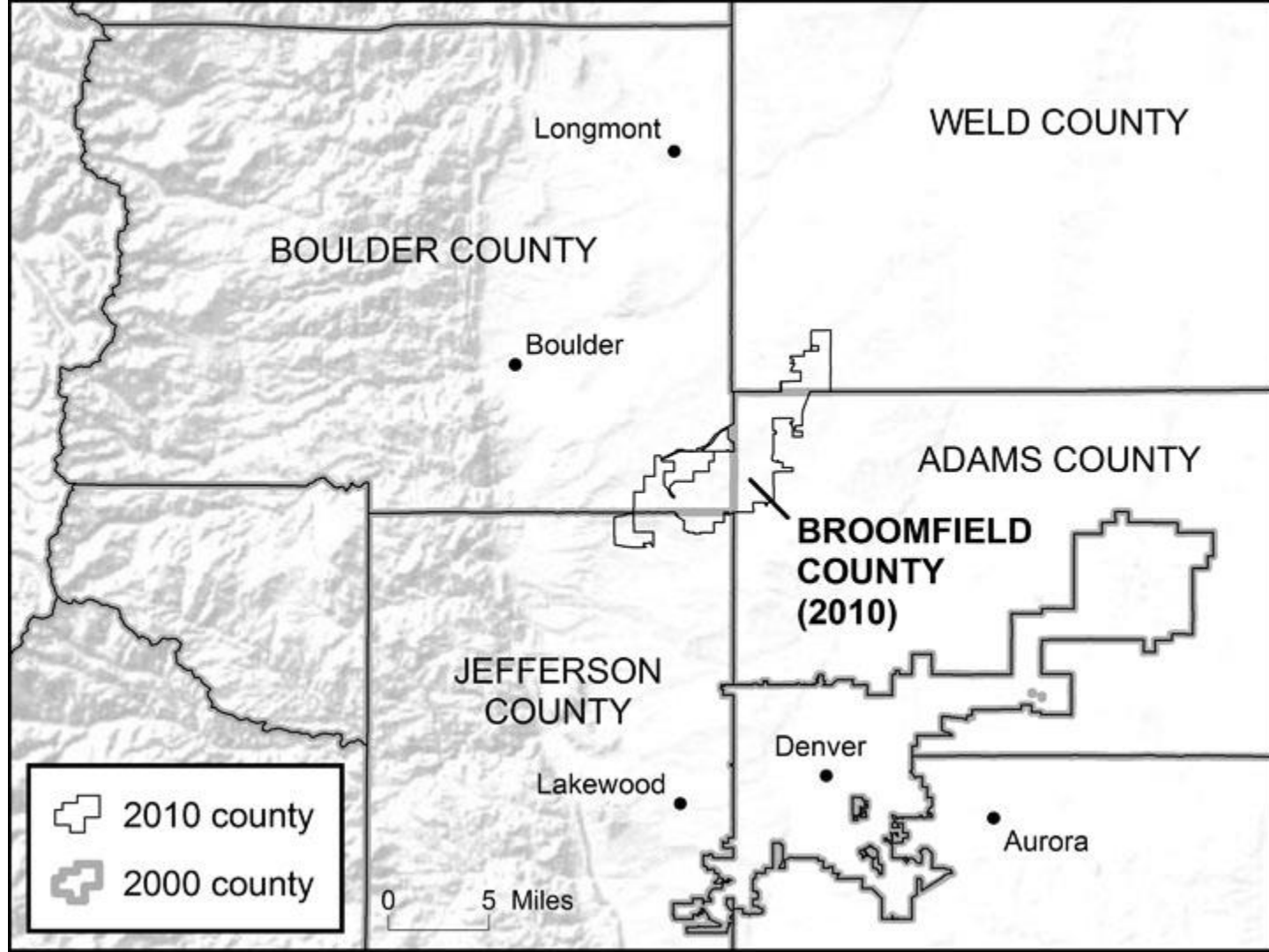
NHGIS

- All summary levels down to census blocks
- Nationwide extent for most levels
- Time series & geographic crosswalks



Charlotte census tracts





And that's not all!

1980

Table: NT48A. Years of School Completed

Universe: Persons 25 Years and Over

Variables in table (5) :

- Elementary (0-8 years)
- High school: 1-3 years
- High school: 4 years
- College: 1-3 years
- College: 4 or more years

1990

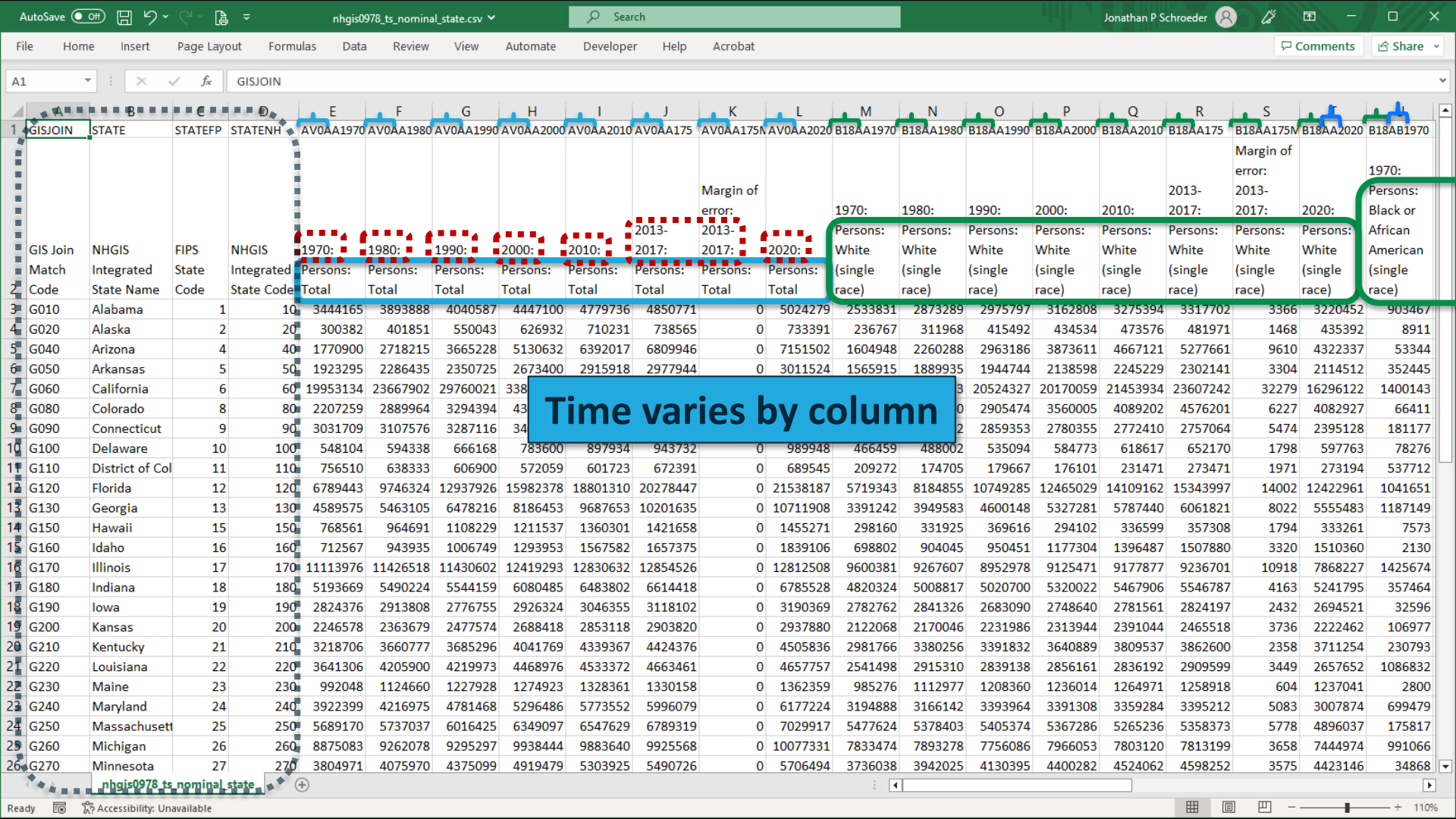
Table: NP57. Educational Attainment

Universe: Persons 25 years and over

Variables in table (7) :

- Less than 9th grade
- 9th to 12th grade, no diploma
- High school graduate (includes equivalency)
- Some college, no degree
- Associate degree
- Bachelor's degree
- Graduate or professional degree

TIME SERIES TABLES



Time varies by row

A1 | GISJOIN

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	GISJOIN	YEAR	STATE	STATEFP	STATENH	NAME	AV0AA1970	B18AA1970	B18AB1970	B18AC1970	B18AD1970	B18AE1970							
	GIS Join	Data File	NHGIS Integrated	FIPS	NHGIS														
2	Match	Year	State Name	State Code	State Code	Area Name, 1970	Persons: Total	Persons: White (single race)	Persons: Black or African American (single race)	Persons: American Indian and Alaska Native (single race)	Persons: Asian and Pacific Islander and Other Race (single race)	Persons: Two or More Races							
3	G010	1970	Alabama		1	10 Alabama	3444165	2533831	903467	2443	4424								
4	G020	1970	Alaska		2	20 Alaska	300382	236767	8911	16276	38428								
5	G040	1970	Arizona		4	40 Arizona	1770900	1604948	53344	95812	16796								
6	G050	1970	Arkansas		5	50 Arkansas	1923295	1565915	352445	2014	2921								
7	G060	1970	California		6	60 California	1												
8	G080	1970	Colorado		8	80 Colorado													
9	G090	1970	Connecticut		9	90 Connecticut													
10	G100	1970	Delaware		10	100 Delaware	548104	466459	78276	656	2713								
11	G110	1970	District of Columbia		11	110 District Of Columbia	756510	209272	537712	956	8570								
12	G120	1970	Florida		12	120 Florida	6789443	5719343	1041651	6677	21772								
13	G130	1970	Georgia		13	130 Georgia	4589575	3391242	1187149	2347	8837								
14	G150	1970	Hawaii		15	150 Hawaii	768561	298160	7573	1126	461702								
15	G160	1970	Idaho		16	160 Idaho	712567	698802	2130	6687	4948								
16	G170	1970	Illinois		17	170 Illinois	11113976	9600381	1425674	11413	76508								
17	G180	1970	Indiana		18	180 Indiana	5193669	4820324	357464	3887	11994								
18	G190	1970	Iowa		19	190 Iowa	2824376	2782762	32596	2992	6026								
19	G200	1970	Kansas		20	200 Kansas	2246578	2122068	106977	8672	8861								
20	G210	1970	Kentucky		21	210 Kentucky	3218706	2981766	230793	1531	4616								
21	G220	1970	Louisiana		22	220 Louisiana	3641306	2541498	1086832	5294	7682								
22	G230	1970	Maine		23	230 Maine	992048	985276	2800	2195	1777								
23	G240	1970	Maryland		24	240 Maryland	3922399	3194888	699479	4239	23793								
24	G250	1970	Massachusetts		25	250 Massachusetts	5689170	5477624	175817	4475	31254								
25	G260	1970	Michigan		26	260 Michigan	8875083	7833474	991066	16854	33689								
26	G270	1970	Minnesota		27	270 Minnesota	3804971	3736038	34868	23128	10937								

Time varies by file



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Find & download time series tables

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Time series table
documentation



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POPULARITY	TABLE NAME	UNIVERSE	CLASSIFICATIONS	YEAR - DATASET	BREAKDOWNS
	NT4. White Males and Estimated White Females by Sex by Age	White Persons	Age (2) , Sex (2)	1790_cPop	
	NT5. White Population by Sex	White Persons	Sex (2)	1790_cPop	
	NT6. Race/Slave Status	Persons	Race (2) , Slave Status (2)	1790_cPop	
	NT12. White Population by Nationality	White Persons	Ancestry (8)	1790_cPop	
	NT14. Families by Slaveholding Status by Race	Families	Race (2) , Slaveholding Status (2)	1790_cPop	
	NT15. White Family Members by Slaveholding Status	White Family Members	Slaveholding Status (2)	1790_cPop	



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POPULARITY	TABLE NAME	UNIVERSE	CLASSIFICATIONS	YEAR - DATASET	BREAKDOWNS
<div>+ P1. Race</div>	P1. Race	Total population	Race (70)	2020_PL94171	
<div>+ B02001. Race</div>	B02001. Race	Total population	Race (9)	2016_2020_ACS5a	Spatial
<div>+ B02001. Race</div>	B02001. Race	Total population	Race (9)	2017_2021_ACS5a	Spatial
<div>+ P2. Hispanic or Latino, and Not Hispanic or Latino by Race</div>	P2. Hispanic or Latino, and Not Hispanic or Latino by Race	Total population	Hispanic Origin (2), Race (70)	2020_PL94171	
<div>+ B03002. Hispanic or Latino Origin by Race</div>	B03002. Hispanic or Latino Origin by Race	Total population	Hispanic Origin (2), Race (9)	2016_2020_ACS5a	Spatial
<div>+ P3. Race</div>	P3. Race	Total population	Race (7)	2010_SF1a	Spatial
<div>+ B03002. Hispanic or Latino Origin by Race</div>	B03002. Hispanic or Latino Origin by Race	Total population	Hispanic Origin (2), Race (9)	2017_2021_ACS5a	Spatial



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	POPULARITY	YEAR	GEOGRAPHIC LEVEL	EXTENT	BASIS
+		1790	State	United States	2000 TIGER/Line +
+		1790	County	United States	2000 TIGER/Line +
+		1790	County	United States	2008 TIGER/Line +
+		1800	State	United States	2000 TIGER/Line +
+		1800	County	United States	2000 TIGER/Line +
+		1800	County	United States	2008 TIGER/Line +
+		1810	State	United States	2000 TIGER/Line +

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	POPULARITY	SEQUENCE	TABLE NAME	GEOGRAPHIC INTEGRATION	YEARS	GEOGRAPHIC LEVELS
+	<div></div>	110.01	B10. Persons by Race [5*]	Nominal	1970, 1980, 1990, 2000, 2010, 2020. ACS 5-year periods 2006-2021	STATE, COUNTY, TRACT, CTY_SUB, PLACE
+	<div></div>	110.02	AA0. Persons by Race [6*]	Nominal	1980, 1990, 2000, 2010, 2020. ACS 5-year periods 2006-2021	NATION, REGION, DIVISION, STATE, COUNTY, TRACT, CTY_SUB, PLACE
+	<div></div>	110.03	B07. Persons by Race [7*]	Nominal	1990, 2000, 2010, 2020. ACS 5-year periods 2006-2021	NATION, REGION, DIVISION, STATE, COUNTY, TRACT, CTY_SUB, PLACE
+	<div></div>	110.04	CM1. Persons by Race [7*]	Standardized to 2010	1990, 2000, 2010, 2020	STATE, COUNTY, TRACT, BLCK_GRP, CTY_SUB, PLACE, CD110TH-112TH, CBSA, URB_AREA, ZCTA

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+		110.03
+		110.04

TIME SERIES TABLE DETAILS

About time series tables

Table: B18. Persons by Race [5*]

Years: 1970, 1980, 1990, 2000, 2010, 2006-2010, 2007-2011, 2008-2012, 2009-2013, 2010-2014, 2011-2015, 2012-2016, 2013-2017, 2014-2018, 2015-2019, 2020, 2016-2020, 2017-2021

Geographic integration: Nominal

Time series in table (5) :

Persons: White (single race)
Persons: Black or African American (single race)
Persons: American Indian and Alaska Native (single race)
Persons: Asian and Pacific Islander and Other Race (single race)
Persons: Two or More Races

Available geographic levels (5) :

State
County
Census Tract
County Subdivision
Place

Data sources:

Dataset	Table
1970 Census: Count 2 - 100% Data [Tracts, Urban Areas, Metro Areas, etc.]	NT1. Sex by Race
1980 Census: STF 3 - Sample-Based Data	NT12. Race
1990 Census: STF 1 - 100% Data	NP6. Race
2000 Census: SF 1a - 100% Data [Areas Larger Than Block Groups]	NP007A. Population by Race



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+		110.02
+		110.03
+		110.04

TIME SERIES TABLE DETAILS

About time series tables

Table: AA0. Persons by Race [6*]

Years: 1980, 1990, 2000, 2010, 2006-2010, 2007-2011, 2008-2012, 2009-2013, 2010-2014, 2011-2015, 2012-2016, 2013-2017, 2014-2018, 2015-2019, 2020, 2016-2020, 2017-2021

Geographic integration: Nominal

Time series in table (6) :

- Persons: White (single race)
- Persons: Black or African American (single race)
- Persons: American Indian and Alaska Native (single race)
- Persons: Asian and Pacific Islander (single race)
- Persons: Some Other Race (single race)
- Persons: Two or More Races

Available geographic levels (8) :

- Nation
- Region
- Division
- State
- County
- Census Tract
- County Subdivision
- Place

Data sources:

Dataset	Table
1980 Census: STF 3 - Sample-Based Data	NT12. Race

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LEVELS

TRACT, CTY, SUB, PLACE

N, DIVISION, STATE, CTY, SUB, PLACE

N, DIVISION, STATE, CTY, SUB, PLACE

TRACT, BLCK_GRP, CTY, SUB, PLACE

URB_AREA, ZCTA



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+		110.03
+		110.04

TIME SERIES TABLE DETAILS

[About time series tables](#)

Table: B07. Persons by Race [7*]

Years: 1990, 2000, 2010, 2006-2010, 2007-2011, 2008-2012, 2009-2013, 2010-2014, 2011-2015, 2012-2016, 2013-2017, 2014-2018, 2015-2019, 2020, 2016-2020, 2017-2021

Geographic integration: Nominal

Time series in table (7) :

- Persons: White (single race)
- Persons: Black or African American (single race)
- Persons: American Indian and Alaska Native (single race)
- Persons: Asian (single race)
- Persons: Native Hawaiian and Other Pacific Islander (single race)
- Persons: Some Other Race (single race)
- Persons: Two or More Races

Available geographic levels (8) :

- Nation
- Region
- Division
- State
- County
- Census Tract
- County Subdivision
- Place

Data sources:

Dataset	Table
1990 Census	CT51-1990
2000 Census	CT51-2000
2010 Census	CT51-2010
2006-2010 Census	CT51-2006-2010
2007-2011 Census	CT51-2007-2011
2008-2012 Census	CT51-2008-2012
2009-2013 Census	CT51-2009-2013
2010-2014 Census	CT51-2010-2014
2011-2015 Census	CT51-2011-2015
2012-2016 Census	CT51-2012-2016
2013-2017 Census	CT51-2013-2017
2014-2018 Census	CT51-2014-2018
2015-2019 Census	CT51-2015-2019
2020 Census	CT51-2020

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LEVELS

TRACT_CTY_SUB_PLACE

[N_DIVISION_STATE](#)

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[N_DIVISION_STATE](#)

[CTY_SUB_PLACE](#)

[TRACT_BLK_GRP](#)

[CD10TH-12TH_CBSA](#)

[URB_AREA_ZCTA](#)

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TIME SERIES TABLE DETAILS

Data sources:

Dataset	Table
1990 Census: STF 1 - 100% Data	NP6. Race
1990 Census: STF 1 - 100% Data	NP7. Race
2000 Census: SF 1a - 100% Data [Areas Larger Than Block Groups]	NP007A. Population by Race
2010 American Community Survey: 5-Year Data [2006-2010, Block Groups & Larger Areas]	B02001. Race
2010 Census: SF 1a - P & H Tables [Blocks & Larger Areas]	P3. Race
2011 American Community Survey: 5-Year Data [2007-2011, Block Groups & Larger Areas]	B02001. Race
2012 American Community Survey: 5-Year Data [2008-2012, Block Groups & Larger Areas]	B02001. Race
2013 American Community Survey: 5-Year Data [2009-2013, Block Groups & Larger Areas]	B02001. Race
2014 American Community Survey: 5-Year Data [2010-2014, Block Groups & Larger Areas]	B02001. Race
2015 American Community Survey: 5-Year Data [2011-2015, Block Groups & Larger Areas]	B02001. Race
2016 American Community Survey: 5-Year Data [2012-2016, Block Groups & Larger Areas]	B02001. Race
2017 American Community Survey: 5-Year Data [2013-2017, Block Groups & Larger Areas]	B02001. Race
2018 American Community Survey: 5-Year Data [2014-2018, Block Groups & Larger Areas]	B02001. Race
2019 American Community Survey: 5-Year Data [2015-2019, Block Groups & Larger Areas]	B02001. Race
2020 American Community Survey: 5-Year Data [2016-2020, Block Groups & Larger Areas]	B02001. Race

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LEVELS

TRACT, CTY, SUB, PLACE

DIVISION, STATE

CTY, SUB, PLACE

DIVISION, STATE

CTY, SUB, PLACE

TRACT, BLCK_GRP

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+		110.04

TIME SERIES TABLE DETAILS

As an approximation, NHGIS race time series generally align pre-2000 race categories with the corresponding "one race alone" categories from 2000 and later. For example, a "White (single race)" time series links pre-2000 "White" data with "White alone" data from later years. Data for persons of "Two or More Races" in 2000 and later are provided in separate time series that do not include data from before 2000. As a result, some portion of the change in "single race" time series data between 1990 and 2000 is due to the changed classification of multi-race individuals.

- 1990 Separation of Asian and Pacific Islander:** The NHGIS "Asian" and "Native Hawaiian and Other Pacific Islander" time series do not include data from before 1990 because the 1990 census was the first to provide data for *all* Asians separately from data for *all* Native Hawaiians and other Pacific islanders. Even in the most detailed race tables from earlier censuses, some subgroups of Asians and Pacific Islanders were included together in an "Other" category, making it impossible to derive complete, separate counts of the two major groups.

Relevant source documentation:

- [1990 Census of Population and Housing: Guide, Part B. Glossary](#)
- [1990 Census of Population and Housing: Summary Tape File 1--Technical Documentation: Appendix I. Code Lists: Race](#)
- [2000 Census of Population and Housing: Summary File 1--Technical Documentation: Appendix B. Definitions of Subject Characteristics](#)
- [2000 Census of Population and Housing: Summary File 1--Technical Documentation: Appendix G. Code Lists: Race](#)
- [2010 Census of Population and Housing: Summary File 1--Technical Documentation: Appendix B. Definitions of Subject Characteristics](#)
- [2010 Census of Population and Housing: Summary File 1--Technical Documentation: Appendix F. Code Lists: Race](#)
- [2020 Census State Redistricting Data \(Public Law 94-171\)--Technical Documentation: Appendix B. Definitions of Subject Characteristics](#)
- [2020 Census State Redistricting Data \(Public Law 94-171\)--Technical Documentation: Appendix F. Hispanic Origin and Race Code List](#)
- [American Community Survey and Puerto Rico Community Survey: Subject Definitions](#)
- [American Community Survey and Puerto Rico Community Survey: Code Lists](#)



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WHAT ARE TIME SERIES TABLES?

An NHGIS *time series table* links together comparable statistics from multiple U.S. censuses in one downloadable bundle. A table is comprised of one or more related *time series*, each of



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	POPULARITY	SEQUENCE	TABLE NAME	GEOGRAPHIC INTEGRATION	YEARS	GEOGRAPHIC LEVELS
+		110.01	B18. Persons by Race [5*]	Nominal	1970, 1980, 1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	STATE, COUNTY, TRACT, CTY_SUB, PLACE
+		110.02	A40. Persons by Race [6*]	Nominal	1980, 1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	NATION, REGION, DIVISION, STATE, COUNTY, TRACT, CTY_SUB, PLACE
+		110.03	B07. Persons by Race [7*]	Nominal	1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	NATION, REGION, DIVISION, STATE, COUNTY, TRACT, CTY_SUB, PLACE
+		110.04	CM1. Persons by Race [7*]	Standardized to 2010	1990, 2000, 2010, 2020	STATE, COUNTY, TRACT, BLCK_GRP, CTY_SUB, PLACE, CD110TH-112TH, CBSA, URB_AREA, ZCTA



NHGIS

GEOMARKER

NATIONAL HISTORICAL GIS

HOME | SELECT DATA | MY DATA | SUPPORT

DATA CART

CLEAR X

0 SOURCE TABLES

1 TIME SERIES TABLE

0 GIS FILES

SHOW SELECTIONS

CONTINUE

FILTER > OPTIONS > REVIEW

APPLY FILTERS ?

HOW TO USE THE DATA FINDER

GEOGRAPHIC LEVELS

YEARS

TOPICS

DATASETS


✓ INCLUDES Race

RESET FILTERS

SELECT DATA ?

14266 SOURCE TABLES | 135 TIME SERIES TABLES | 1837 GIS FILES

PAGE 1 OF 7 VIEW 1 - 20 OF 135						
	POPULARITY	SEQUENCE	TABLE NAME	GEOGRAPHIC INTEGRATION	YEARS	GEOGRAPHIC LEVELS
✓		110.01	B18. Persons by Race [5*]	Nominal	1970, 1980, 1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	STATE, COUNTY, TRACT, CTY_SUB, PLACE
+		110.02	A40. Persons by Race [6*]	Nominal	1980, 1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	NATION, REGION, DIVISION, STATE, COUNTY, TRACT, CTY_SUB, PLACE
+		110.03	B07. Persons by Race [7*]	Nominal	1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	NATION, REGION, DIVISION, STATE, COUNTY, TRACT, CTY_SUB, PLACE
+		110.04	CM1. Persons by Race [7*]	Standardized to 2010	1990, 2000, 2010, 2020	STATE, COUNTY, TRACT, BLCK_GRP, CTY_SUB, PLACE, CD110TH-112TH, CBSA, URB_AREA, ZCTA



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DATA CART

CLEAR X

0 SOURCE TABLES
2 TIME SERIES TABLES
0 GIS FILES

SHOW SELECTIONS

CONTINUE

FILTER > OPTIONS > REVIEW

APPLY FILTERS ?

HOW TO USE THE DATA FINDER

GEOGRAPHIC LEVELS

YEARS

TOPICS ☒ INCLUDES ▼ Total Population

DATASETS

RESET FILTERS

SELECT DATA ?

219 SOURCE TABLES4 TIME SERIES TABLES1836 GIS FILES

PAGE 1 OF 120							VIEW 1 - 4 OF 4
	POPULARITY	SEQUENCE	TABLE NAME	GEOGRAPHIC INTEGRATION	YEARS	GEOGRAPHIC LEVELS	
+		100.01	A00. Total Population	Nominal	1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020	STATE, COUNTY	
✓		100.02	AV0. Total Population	Nominal	1970, 1980, 1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	STATE, COUNTY, TRACT, CTY_SUB, PLACE	
+		100.03	B78. Total Population	Nominal	1980, 1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	NATION, REGION, DIVISION, STATE, COUNTY, TRACT, CTY_SUB, PLACE	
+		100.04	Totals	Nominal	1980, 1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	STATE, COUNTY, TRACT, BLCK_GRP, CTY_SUB, PLACE, COUNTY, NATL, GRCA	



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NATIONAL HISTORICAL GIS

HOME | SELECT DATA | MY DATA | SUPPORT

DATA CART CLEAR X

0 SOURCE TABLES
2 TIME SERIES TABLES
0 GIS FILES

SHOW SELECTIONS CONTINUE

FILTER > OPTIONS > REVIEW

DATA OPTIONS ?

Selections are required for the highlighted options below.

TIME SERIES TABLES

	TABLE	GEOGRAPHIC INTEGRATION	YEARS	GEOGRAPHIC LEVELS
✓	AV0 - Total Population	Nominal	0 of 18	0 of 5
✓	B1.8 - Persons by Race (5*)	Nominal	0 of 18	0 of 5

SELECT YEARS SELECT GEOGRAPHIC LEVELS

NEW

ABLES
ES TABLES

CTIONS

GEOGRAPHIC LEVELS

GEOGRAPHIC LEVELS

USE SELECTED YEARS FOR ALL AVAILABLE TIME SERIES TABLES

No years have been selected

SELECT/DESELECT ALL

1: Av0. TOTAL POPULATION (NOMINAL)

2: B18. PERSONS BY RACE [5*] (NOMINAL)

YEARS

 DECENNIAL YEARS

+ 1980

+ 1990

+ 2000

+ 2010

+ 2020

+ 5-YEAR PERIODS

+ 2006-2010

2007-2011

2008-2012

+ 2009-2013

+ 2010-2014

+ 2011-2015

+ 2012-2016

+ 2013-2017

+ 2014-2018

+ 2015-2019

+ 2016-2020

+ 2017-2021

CANCEL

SUBMIT



FILTER > OPTIONS > REVIEW

DATA OPTIONS ?

Selections are required for the

TIME SERIES TABLES

- ☒ avo. Total Population
- ☒ b1.8. Persons by Race [5*]

YEARS FOR ALL TIME SERIES TABLES

SELECTED YEARS

- ☒ 1970
- ☒ 1980
- ☒ 1990
- ☒ 2000
- ☒ 2010
- ☒ 2020

USE SELECTED YEARS FOR ALL AVAILABLE TIME SERIES TABLES
SELECT/DESELECT ALL

1: avo. TOTAL POPULATION (NOMINAL)	
2: b1.8. PERSONS BY RACE [5*] (NOMINAL)	
1	2
YEARS	
X DECENNIAL YEARS	
<input checked="" type="checkbox"/>	X 1970
<input checked="" type="checkbox"/>	X 1980
<input checked="" type="checkbox"/>	X 1990
<input checked="" type="checkbox"/>	X 2000
<input checked="" type="checkbox"/>	X 2010
<input checked="" type="checkbox"/>	X 2020
+ 5-YEAR PERIODS	
<input type="checkbox"/>	+ 2006-2010
<input type="checkbox"/>	+ 2007-2011
<input type="checkbox"/>	+ 2008-2012
<input type="checkbox"/>	+ 2009-2013
<input type="checkbox"/>	+ 2010-2014
<input type="checkbox"/>	+ 2011-2015
<input type="checkbox"/>	+ 2012-2016
<input type="checkbox"/>	+ 2013-2017
<input type="checkbox"/>	+ 2014-2018



CANCEL

SUBMIT



FILTER > OPTIONS > REVIEW

DATA OPTIONS ?

Selections are required for the

TIME SERIES TABLES

- ☒ avo. Total Population
- ☒ b1.8. Persons by Race [5*]

YEARS FOR ALL TIME SERIES TABLES

SELECTED YEARS

USE SELECTED YEARS FOR ALL AVAILABLE TIME SERIES TABLES

SELECT/DESELECT ALL

- ☒ 1970
- ☒ 1980
- ☒ 1990
- ☒ 2000
- ☒ 2010
- ☒ 2020
- ☒ 2013-2017

1: avo. TOTAL POPULATION (NOMINAL)	
2: b1.8. PERSONS BY RACE [5*] (NOMINAL)	
1	2
	YEARS
	✗ DECENNIAL YEARS
<input checked="" type="checkbox"/>	✗ 1970
<input checked="" type="checkbox"/>	✗ 1980
<input checked="" type="checkbox"/>	✗ 1990
<input checked="" type="checkbox"/>	✗ 2000
<input checked="" type="checkbox"/>	✗ 2010
<input checked="" type="checkbox"/>	✗ 2020
	+ 5-YEAR PERIODS
<input type="checkbox"/>	+ 2006-2010
<input type="checkbox"/>	+ 2007-2011
<input type="checkbox"/>	+ 2008-2012
<input type="checkbox"/>	+ 2009-2013
<input type="checkbox"/>	+ 2010-2014
<input type="checkbox"/>	+ 2011-2015
<input type="checkbox"/>	+ 2012-2016
<input checked="" type="checkbox"/>	✗ 2013-2017

CANCEL

SUBMIT

NHGIS GEOMARKER
NATIONAL HISTORICAL GIS

HOME | SELECT DATA | MY DATA | SUPPORT

DATA CART

CLEAR X

0 SOURCE TABLES
2 TIME SERIES TABLES
0 GIS FILES

SHOW SELECTIONS

CONTINUE

FILTER > OPTIONS > REVIEW

DATA OPTIONS ?

Selections are required for the highlighted options below.

TIME SERIES TABLES

	TABLE	GEOGRAPHIC INTEGRATION	SELECT YEARS	YEARS	SELECT GEOGRAPHIC LEVELS	GEOGRAPHIC LEVELS
<input checked="" type="checkbox"/>	AV0. Total Population	Nominal	7 of 18	1970, 1980, 1990, 2000, 2010, 2013-2017, 2020	0 of 5	
<input checked="" type="checkbox"/>	B1.8. Persons by Race [5*]	Nominal	7 of 18	1970, 1980, 1990, 2000, 2010, 2013-2017, 2020	0 of 5	



FILTER > OPTIONS > REVIEW

DATA OPTIONS

Selections are required for the

TIME SERIES TABLES

- ☒ avo. Total Population
- ☒ B1.B. Persons by Race [5*]

GEOGRAPHIC LEVELS FOR ALL TIME SERIES TABLES

SELECTED GEOGRAPHIC LEVELS

No Geographic Levels have been selected

USE SELECTED GEOGRAPHIES FOR ALL AVAILABLE TIME SERIES TABLES

SELECT/DESELECT ALL

1: avo. TOTAL POPULATION (NOMINAL)

2: B1.B. PERSONS BY RACE [5*] (NOMINAL)

1	2	GEOGRAPHIC LEVELS
<input type="checkbox"/>	<input type="checkbox"/>	+ State
<input type="checkbox"/>	<input type="checkbox"/>	+ County (by State)
<input type="checkbox"/>	<input type="checkbox"/>	+ Census Tract (by State--County)
<input type="checkbox"/>	<input type="checkbox"/>	+ County Subdivision (by State--County)
<input type="checkbox"/>	<input type="checkbox"/>	+ Place (by State)

CANCEL

SUBMIT



FILTER > OPTIONS > REVIEW

DATA OPTIONS

Selections are required for the

TIME SERIES TABLES

- ☒ avo. Total Population
- ☒ b18. Persons by Race [5*]

GEOGRAPHIC LEVELS FOR ALL TIME SERIES TABLES

SELECTED GEOGRAPHIC LEVELS

USE SELECTED GEOGRAPHIES FOR ALL AVAILABLE TIME SERIES TABLES

SELECT/DESELECT ALL

☒ Census Tract

1: avo. TOTAL POPULATION (NOMINAL)

2: b18. PERSONS BY RACE [5*] (NOMINAL)

1	2	GEOGRAPHIC LEVELS
<input type="checkbox"/>	<input type="checkbox"/>	State
<input type="checkbox"/>	<input type="checkbox"/>	County (by State)
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Census Tract (by State--County)
<input type="checkbox"/>	<input type="checkbox"/>	County Subdivision (by State--County)
<input type="checkbox"/>	<input type="checkbox"/>	Place (by State)

CANCEL

SUBMIT



NHGIS GEOMARKER
NATIONAL HISTORICAL GIS

HOME | SELECT DATA | MY DATA | SUPPORT

DATA CART CLEAR X

0 SOURCE TABLES
2 TIME SERIES TABLES
0 GIS FILES

SHOW SELECTIONS CONTINUE

FILTER > OPTIONS > REVIEW

DATA OPTIONS ?

TIME SERIES TABLES

TABLE		GEOGRAPHIC INTEGRATION	SELECT YEARS		SELECT GEOGRAPHIC LEVELS	
			YEARS		GEOGRAPHIC LEVELS	
<input checked="" type="checkbox"/>	AV0. Total Population	Nominal	7 of 18	1970, 1980, 1990, 2000, 2010, 2013-2017, 2020	1 of 5	Census Tract
<input checked="" type="checkbox"/>	B1.8. Persons by Race [5*]	Nominal	7 of 18	1970, 1980, 1990, 2000, 2010, 2013-2017, 2020	1 of 5	Census Tract

NHGIS GEOMARKER
NATIONAL HISTORICAL GIS[HOME](#) | [SELECT DATA](#) | [MY DATA](#) | [SUPPORT](#)[FILTER](#) » [OPTIONS](#) » [REVIEW](#)

REVIEW AND SUBMIT ?

TABLE FILE STRUCTURE ?

- ☒ Comma delimited (best for GIS)
- ☒ Include additional descriptive header row (best for spreadsheets)
- ☐ Fixed width (best for statistical packages)

SOURCE TABLES

None selected

TIME SERIES TABLES

2 time series tables

TIME SERIES TABLE LAYOUT ?

- ☒ Time varies by column
- ☐ Time varies by row
- ☐ Time varies by file

GIS FILES

None selected

DESCRIPTION ?

Tract population & race, 1970-2020 time series

SUBMIT

Alternative: data.census.gov

United States Census Bureau

race

Advanced Search

All Tables Maps Pages

Microdata Help FAQ Feedback

3 Filters ?

402 Results

Race and Ethnicity x

All Census Tracts within United Sta... x

ACS 5-Year Estimates Detailed Tabl... x

Clear search & filters

402 Results

American Community Survey

B02001 | RACE

View All 12 Products

American Community Survey

B02008 | WHITE ALONE OR IN COMBINATION WITH ONE OR MORE OTHER RACES

View All 12 Products

American Community Survey

B02009 | BLACK OR AFRICAN AMERICAN ALONE OR IN COMBINATION WITH ONE OR MORE OTHER RACES

View All 12 Products

American Community Survey

B02010 | AMERICAN INDIAN AND ALASKA NATIVE ALONE OR IN COMBINATION WITH ONE OR MORE OTHER RACES

View All 12 Products

American Community Survey

B02011 | ASIAN ALONE OR IN COMBINATION WITH ONE OR MORE OTHER RACES

View All 12 Products

American Community Survey

B02001 | RACE

2021: ACS 5-Year Estimates Detailed Tables | Universe: Total population

Geos Topics Codes Dataset Year Share Map

census

Table is too large to display

The size of this table may exceed your browser's capabilities and may result in error or browser instability. Download the entire data or adjust your filters in the toolbar for a smaller table.

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Select Table Vintages to Download

[illegible]

Compressed Size Estimate: 3.1 MB

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One time & one table per file

[DOWNLOAD TABLE](#)

and may result in error
filters in the toolbar for

To proceed with the table display anyway, [open the table](#).



DATA CART

0 SOURCE TABLES
0 TIME SERIES TABLES
0 GIS FILES

SHOW SELECTIONS CONTINUE

FILTER OPTIONS REVIEW

APPLY FILTERS ?

HOW TO USE THE DATA FINDER

GEOGRAPHIC LEVELS

YEARS

TOPICS ☒

DATASETS

INCLUDES Race

RESET FILTERS

SELECT DATA ?

14266 SOURCE TABLES 135 TIME SERIES TABLES 1837 GIS FILES

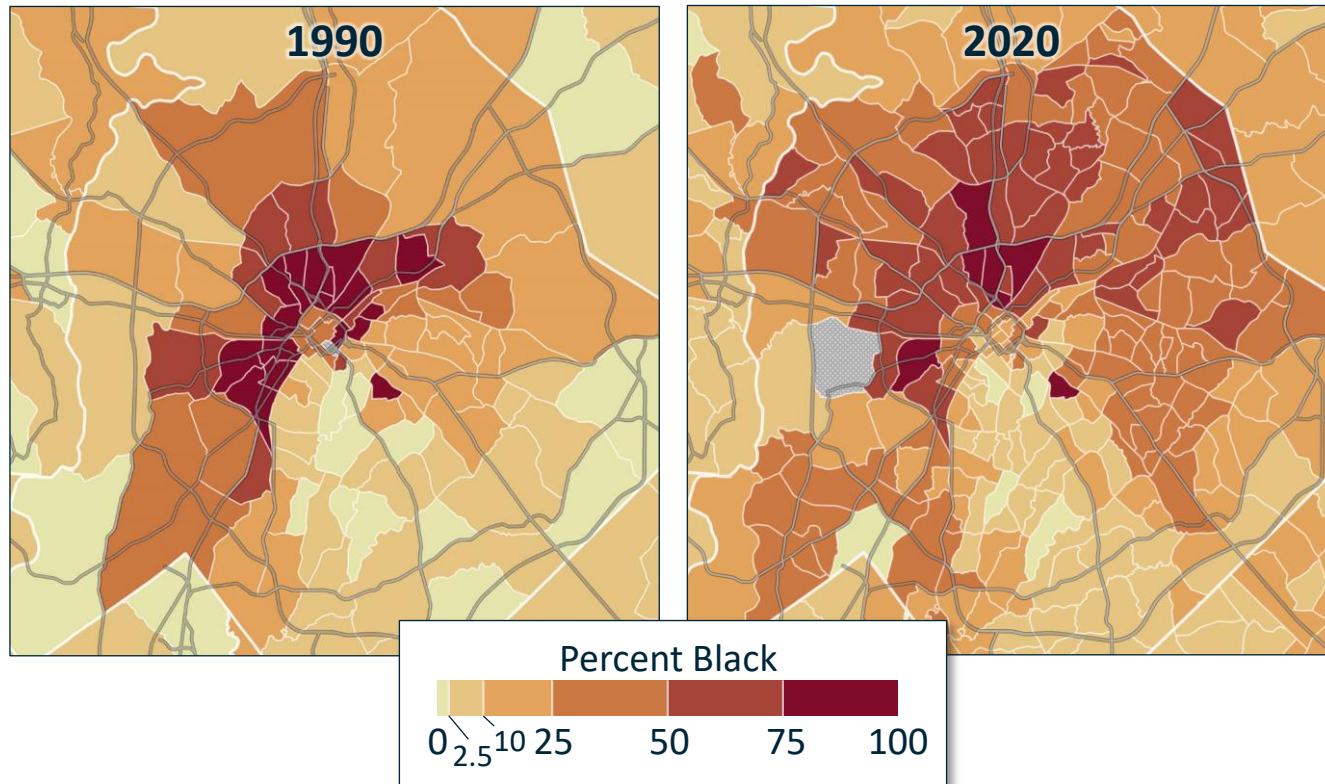
PAGE 1 OF 7 20 VIEW 1 - 20 OF 135						
	POPULARITY	SEQUENCE	TABLE NAME	GEOGRAPHIC INTEGRATION	YEARS	GEOGRAPHIC LEVELS
+		110.01	B18. Persons by Race [5*]	Nominal	1970, 1980, 1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	STATE, COUNTY, TRACT, CTY_SUB, PLACE
+		110.02	AA0. Persons by Race [6*]	Nominal	1980, 1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	NATION, REGION, DIVISION, STATE, COUNTY, TRACT, CTY_SUB, PLACE
+		110.03	B07. Persons by Race [7*]	Nominal	1990, 2000, 2010, 2020, ACS 5-year periods 2006-2021	NATION, REGION, DIVISION, STATE, COUNTY, TRACT, CTY_SUB, PLACE
+		110.04	CM1. Persons by Race [7*]	Standardized to 2010	1990, 2000, 2010, 2020	STATE, COUNTY, TRACT, BLCK_GRP, CTY_SUB, PLACE, CD110TH-112TH, CBSA, URB_AREA, ZCTA

Nominal integration

1	A	H	I	J	K	L	M	N	U	V	W	X	Y
	NHGISCODE	STATE	STATEFP	STATENH	COUNTY	COUNTYFP	COUNTYNH	TRACTA	AV0AA1970	AV0AA1980	AV0AA1990	AV0AA2000	AV0AA2010
2	NHGIS Integrated Geographic Unit Code	NHGIS Integrated State Name	FIPS State Code	NHGIS Integrated State Code	NHGIS Integrated County Name	FIPS County Code	NHGIS Integrated County Code	NHGIS Integrated Census Tract Code	1970: Persons: Total	1980: Persons: Total	1990: Persons: Total	2000: Persons: Total	2010: Persons: Total
73390	G3701190001400	North Carolina	37	370	Mecklenburg	119	1190	1400	3338	2799	2400	2656	2607
73391	G3701190001501	North Carolina	37	370	Mecklenburg	119	1190	1501	4660	6891	9260		
73392	G3701190001502	North Carolina	37	370	Mecklenburg	119	1190	1502	7506				
73393	G3701190001503	North Carolina	37	370	Mecklenburg	119	1190	1503		5047	7081	9191	
73394	G3701190001504	North Carolina	37	370	Mecklenburg	119	1190	1504		4728	4629	4806	6401
73395	G3701190001505	North Carolina	37	370	Mecklenburg	119	1190	1505				2906	3678
73396	G3701190001506	North Carolina	37	370	Mecklenburg	119	1190	1506				6423	
73397	G3701190001507	North Carolina	37	370	Mecklenburg	119	1190	1507					4004
73398	G3701190001508	North Carolina	37	370	Mecklenburg	119	1190	1508					6061
73399	G3701190001509	North Carolina	37	370	Mecklenburg	119	1190	1509					2976
73400	G3701190001510	North Carolina	37	370	Mecklenburg	119	1190	1510					3047
73401	G3701190001601	North Carolina	37	370	Mecklenburg	119	1190	1601	7408				
73402	G3701190001602	North Carolina	37	370	Mecklenburg	119	1190	1602	5815	5401	6735	8346	
73403	G3701190001603	North Carolina	37	370	Mecklenburg	119	1190	1603		3351	3675	4082	4598
73404	G3701190001604	North Carolina	37	370	Mecklenburg	119	1190	1604		4028	6191	6993	
73405	G3701190001605	North Carolina	37	370	Mecklenburg	119	1190	1605					1776
73406	G3701190001606	North Carolina	37	370	Mecklenburg	119	1190	1606					4295
73407	G3701190001607	North Carolina	37	370	Mecklenburg	119	1190	1607					2613
73408	G3701190001608	North Carolina	37	370	Mecklenburg	119	1190	1608					3933
73409	G3701190001609	North Carolina	37	370	Mecklenburg	119	1190	1609					3168
73410	G3701190001700	North Carolina	37	370	Mecklenburg	119	1190	1700	6784	7399			
73411	G3701190001701	North Carolina	37	370	Mecklenburg	119	1190	1701				4111	3749
73412	G3701190001702	North Carolina	37	370	Mecklenburg	119	1190	1702				5151	4881
73413	G3701190001798	North Carolina	37	370	Mecklenburg	119	1190	1798			7840		
73414	G3701190001800	North Carolina	37	370	Mecklenburg	119	1190	1800	5485	4031		4380	

nhgis0570_ts_nominal_tract

Charlotte census tracts



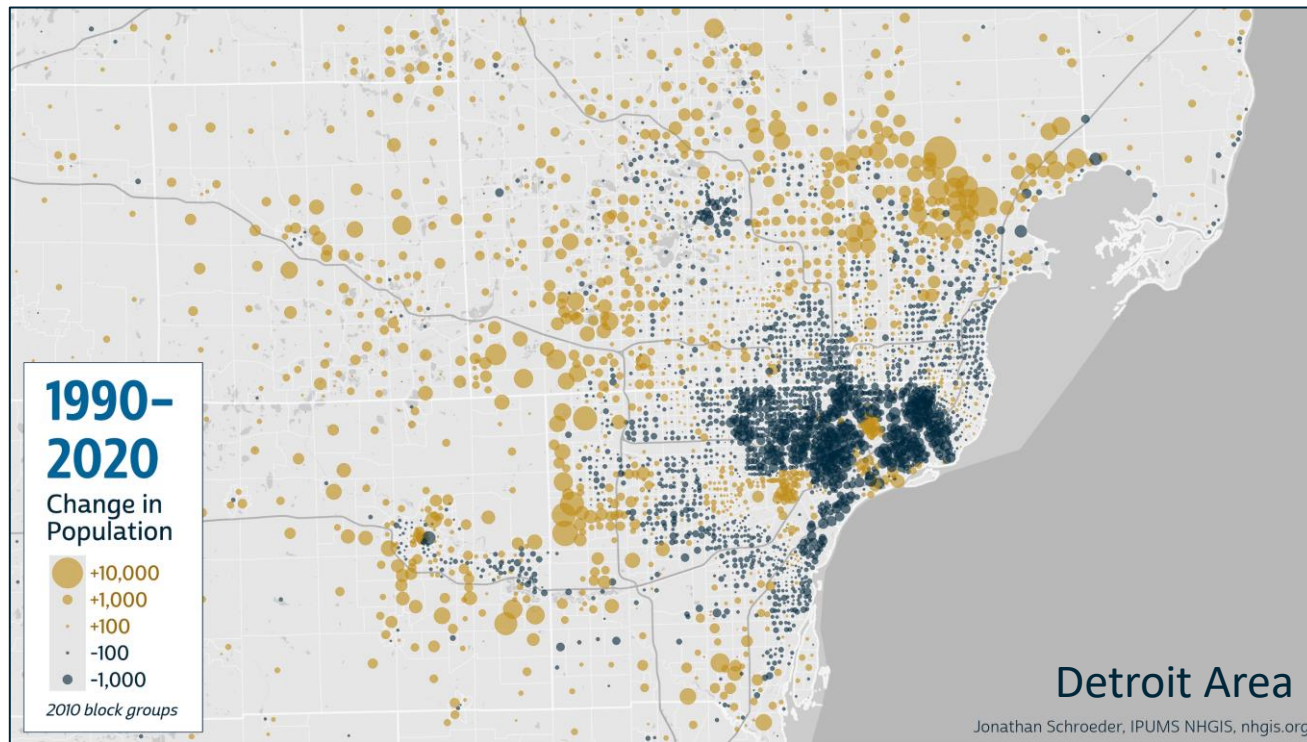
Geographic standardization

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	GISJOIN	GEOYEAR	STATE	STATEA	COUNTY	COUNTYA	TRACTA	CL8AA199	CL8AA199	CL8AA199	CL8AA200	CL8AA200	CL8AA200	CL8AA2010
2	GIS Join Match Code	Geography Year	State Name	State Code	County Name	County Code	Census Tract Code	1990: Persons: Total	1990: Persons: Total	1990: Persons: Total	2000: Persons: Total	2000: Persons: Total	2000: Persons: Total	2010: Persons: Total
49315	G3701190001400	2010	North Carolina	37	Mecklenburg Co	119	1400	2389.68	2366	2391	2652.31	2640	2653	2607
49316	G3701190001504	2010	North Carolina	37	Mecklenburg Co	119	1504	4629	4629	4629	4806	4806	4806	6401
49317	G3701190001505	2010	North Carolina	37	Mecklenburg Co	119	1505	2901	2901	2901	2906	2906	2906	3678
49318	G3701190001507	2010	North Carolina	37	Mecklenburg Co	119	1507	3419	3419	3419	4791	4791	4791	4004
49319	G3701190001508	2010	North Carolina	37	Mecklenburg Co	119	1508	3662	3662	3662	4400	4400	4400	6061
49320	G3701190001509	2010	North Carolina	37	Mecklenburg Co	119	1509	3213	3213	3213	3229	3229	3229	2976
49321	G3701190001510	2010	North Carolina	37	Mecklenburg Co	119	1510	3146.1	3146	3211	3194.36	3194	3367	3047
49322	G3701190001603	2010	North Carolina	37	Mecklenburg Co	119	1603	3660	3660	3660	4065	4065	4065	4598
49323	G3701190001605	2010	North Carolina	37	Mecklenburg Co	119	1605	1389	1389	1389	1978	1978	1978	1776
49324	G3701190001606	2010	North Carolina	37	Mecklenburg Co	119	1606	3822	3822	3822	4154	4154	4154	4295
49325	G3701190001607	2010	North Carolina	37	Mecklenburg Co	119	1607	1524	1524	1524	2214	2214	2214	2613
49326	G3701190001608	2010	North Carolina	37	Mecklenburg Co	119	1608	3872	3872	3872	4321	4321	4321	3933
49327	G3701190001609	2010	North Carolina	37	Mecklenburg Co	119	1609	2251.16	1687	2334	2445.55	2137	2635	3168
49328	G3701190001701	2010	North Carolina	37	Mecklenburg Co	119	1701	3303	3303	3303	4111	4111	4111	3749
49329	G3701190001702	2010	North Carolina	37	Mecklenburg Co	119	1702	4537	4537	4537	5151	5151	5151	4881
49330	G3701190001801	2010	North Carolina	37	Mecklenburg Co	119	1801	1813.95	1349	1814	1706.96	1702	1707	1249
49331	G3701190001802	2010	North Carolina	37	Mecklenburg Co	119	1802	2775	2775	2775	2673	2673	2673	2892
49332	G3701190001910	2010	North Carolina	37	Mecklenburg Co	119	1910	4277	4277	4277	4614	4614	4614	5117
49333	G3701190001911	2010	North Carolina	37	Mecklenburg Co	119	1911	4613	4613	4613	5041	5041	5041	5441
49334	G3701190001912	2010	North Carolina	37	Mecklenburg Co	119	1912	5096.84	5014	5661	5506.45	5317	5815	6565
49335	G3701190001914	2010	North Carolina	37	Mecklenburg Co	119	1914	3295	3295	3295	3965	3965	3965	3485
49336	G3701190001915	2010	North Carolina	37	Mecklenburg Co	119	1915	4403	4403	4403	5460	5460	5460	6293
49337	G3701190001916	2010	North Carolina	37	Mecklenburg Co	119	1916	3003.8	2465	3050	3005.23	2508	3009	3725
49338	G3701190001917	2010	North Carolina	37	Mecklenburg Co	119	1917	3050.2	3004	3589	3294.77	3291	3792	3567
49339	G3701190001918	2010	North Carolina	37	Mecklenburg Co	119	1918	2842.4	698	3700	3129	3129	3129	3527
49340	G3701190001919	2010	North Carolina	37	Mecklenburg Co	119	1919	3243.6	2386	5388	3837	3837	3837	3379

nhgis0570_ts_geog2010_tract

Geographically standardized time series

- 1990–2020 data for 2010 census units



- **10 geographic levels:**
states, counties,
tracts, block groups,
county subdivisions,
places, congressional
districts, CBSAs,
urban areas, ZCTAs

Geographically standardized time series

- 1990–2020 data for 2010 census units
- ~1,600 time series in 111 tables
 - 19 tables include 2020 data
- “Short-form” counts only
 - Race, ethnicity, age, sex, household size & relationships, housing occupancy & tenure
 - *Not* income, education, employment, ...
 - *No ACS data*

Nominally integrated time series

- ~5,700 time series in 273 tables
 - Including:* marital status, nativity & place of birth, education, employment, means of transportation, travel time, income, poverty
- 8 geographic levels:
 - nation, regions, divisions, states, counties, tracts, county subdivisions, places
- Years:
 - Mainly back to 1970
 - *Total Population* to 1790 & *Persons by Sex* to 1820
 - **NEW:** 12 ACS 5-year periods, 2006-2010 → 2017-2021

Nominally integrated time series

- **Caveat:** Some missing data in latest release
 - Tracts: 18+ states & Puerto Rico
 - Counties: Alaska, Hawaii & Puerto Rico
- Fix coming soon!

Will report in Revision History



GEOGRAPHIC CROSSWALKS

IPUMS NHGIS

ABOUT

REGISTER

DONATE TO NHGIS

DATA

BROWSE AND SELECT DATA

DOWNLOAD OR REVISE MY DATA

API

SUPPLEMENTAL DATA**GEOGRAPHIC CROSSWALKS**

ENVIRONMENTAL SUMMARIES

PRIVACY-PROTECTED DEMO DATA

SABINS SCHOOL AREAS

ANNUAL TRACT DATA

DOCUMENTATION

DATA AVAILABILITY

OVERVIEW OF DATASETS

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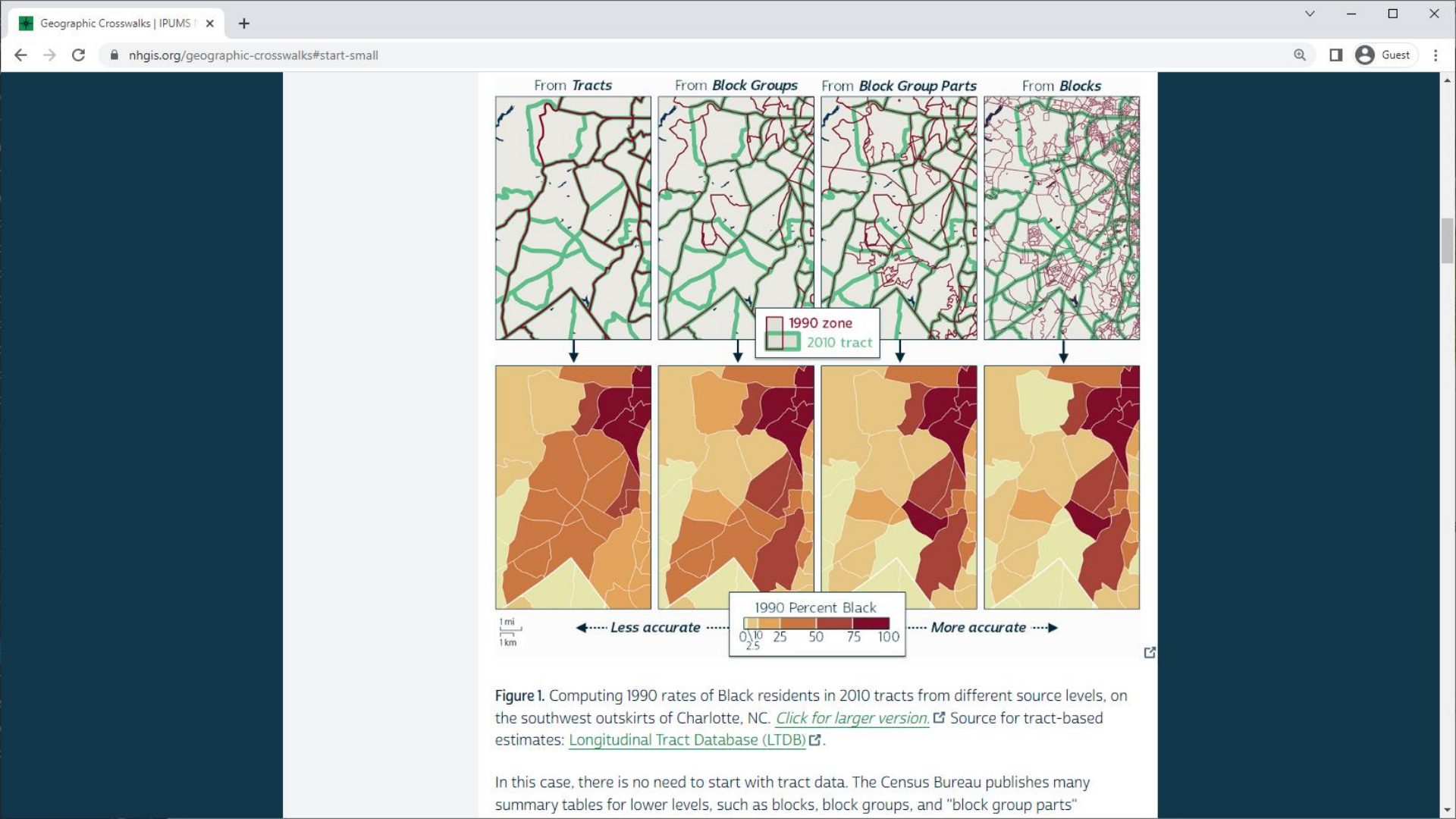
IPUMS BIBLIOGRAPHY

GEOGRAPHIC CROSSWALKS

NHGIS geographic crosswalks describe how U.S. census summary data from one year correspond to geographic units for another year. The crosswalks are designed to support high-quality tabulations of one year's census data for another year's geographic units (e.g., 1990 foreign-born population for 2010 census tracts).

NHGIS crosswalks are similar to the [U.S. Census Bureau's Relationship Files](#), but NHGIS crosswalks include interpolation weights, derived from advanced models. Each interpolation weight indicates the proportion of a source zone's characteristics to allocate to a specific target zone. We use these same weights to produce NHGIS [geographically standardized time series tables](#).

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- [Selecting a Crosswalk](#)
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Available crosswalks...

Source Zones	Target Zones	1990- 2010	2000- 2010	2010- 2020
Blocks	Blocks	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>

Available crosswalks...

Source Zones	Target Zones	1990- 2010	2000- 2010	2010- 2020
Blocks	Blocks	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>
Block Group Parts	Block Groups, Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	—
Block Groups	Block Groups, Census Tracts, Counties	—	—	<i>Forward & Back</i>

Available crosswalks... *coming soon*

Source Zones	Target Zones	1990- 2010	2000- 2010	2010- 2020
Blocks	Blocks	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>
Block Group Parts	Block Groups, Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	—
Block Groups	Block Groups, Census Tracts, Counties	—	—	<i>Forward & Back</i>
Census Tracts	Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>

Available crosswalks... *coming soon*

Source Zones	Target Zones	1990- 2010	2000- 2010	2010- 2020
Blocks	Blocks	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>
Block Group Parts	Block Groups, Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	—
Block Groups	Block Groups, Census Tracts, Counties	—	—	<i>Forward & Back</i>
Census Tracts	Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>
Blocks	Block Groups, Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>

Available crosswalks... *on the horizon*

Source Zones	Target Zones	1990- 2010	2000- 2010	2010- 2020	Other ACS years
Blocks	Blocks	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>	—
Block Group Parts	Block Groups, Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	—	—
Block Groups	Block Groups, Census Tracts, Counties	—	—	<i>Forward & Back</i>	<i>Forward & Back</i>
Census Tracts	Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>	<i>Forward & Back</i>
Blocks	Block Groups, Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>	—

Available crosswalks... *on the horizon*

Source Zones	Target Zones	1990- 2010	2000- 2010	2010- 2020	Other ACS years	2000- 2020	1990- 2020
Blocks	Blocks	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>	—	<i>Forward</i>	<i>Forward</i>
Block Group Parts	Block Groups, Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	—	—	<i>Forward</i>	<i>Forward</i>
Block Groups	Block Groups, Census Tracts, Counties	—	—	<i>Forward & Back</i>	<i>Forward & Back</i>	—	—
Census Tracts	Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>	<i>Forward & Back</i>	<i>Forward</i>	<i>Forward</i>
Blocks	Block Groups, Census Tracts, Counties	<i>Forward</i>	<i>Forward</i>	<i>Forward & Back</i>	—	<i>Forward</i>	<i>Forward</i>

Acknowledgments

Eunice Kennedy Shriver National Institute of Child
Health & Human Development

[NIH-R01HD057929,
NIH-R24HD041023]

National Science Foundation

[SES-1324875]

For more...

- API: <https://developer.ipums.org/>
- R package *ipumsr*: <https://tech.popdata.org/ipumsr/>
- Twitter: [@nhgis](#)
- User forum: <https://forum.ipums.org>