



111 Liberty Street, Suite 100 Columbus, Ohio 43215 morpc.org T. 614. 228.2663 TTY. 1.800.750.0750 info@morpc.org

NOTICE OF A MEETING REGIONAL INFORMATION & DATA GROUP MID-OHIO REGIONAL PLANNING COMMISSION REMOTE MEETING

May 5, 2021, 2:30 pm - 4:30 pm

AGENDA

1. Welcome

- 2. <u>Census 2020</u> Aaron Schill, MORPC
- 3. <u>How to Get Started with Jupyter Notebook</u> Langdon Sanders, City of Marysville
- 4. <u>National Historical Geographic Information System (NHGIS)</u> –Dave Van Riper, NHGIS
- 5. Group Discussion / Round Robin
- 6. Data News
- 7. RIDG Meeting Format
- 8. Closing Remarks
- 9. Adjourn

Please notify Lynn Kaufman at 614-233-4189 or LKaufman@morpc.org to confirm your attendance for this meeting or if you require special assistance.

The next Meeting of the Regional Information & Data Group will be August 4, 2021 – Location to be Determined.

Karen J. Angelou Chair Erik J. Janas Vice Chair Chris Amorose Groomes Secretary

IPUMS NHGIS

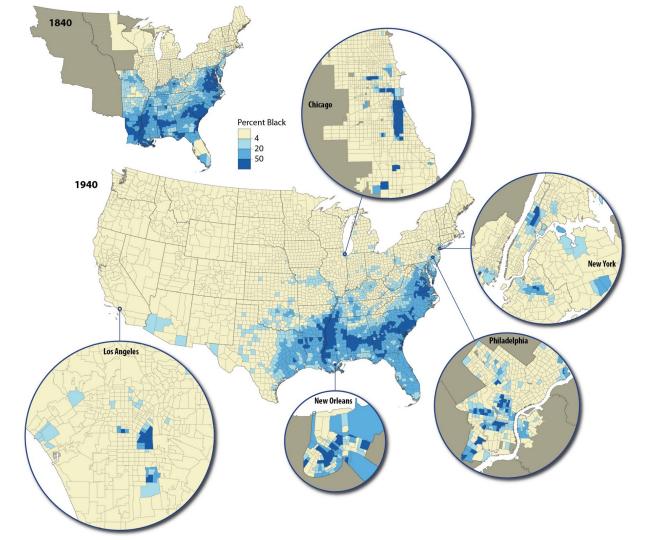
David Van Riper MORPC – May 5, 2021



THE BASICS OF NHGIS

NHGIS

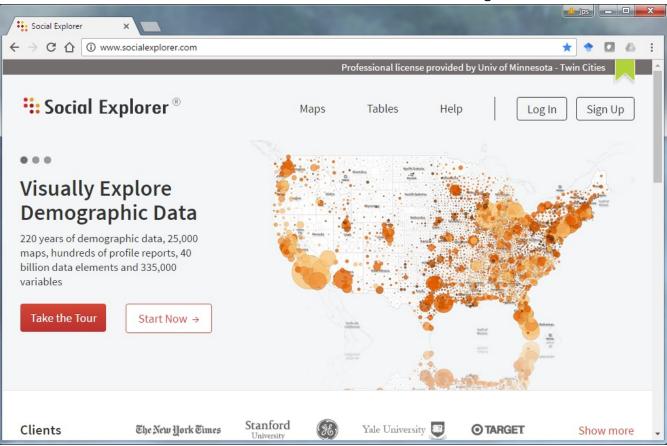
- Geographic U.S. census & survey data
- Summary tables *and* GIS files
- 1790 to the present
- All levels: from nation to census blocks



Alternative: data.census.gov

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Explore Census Data The Census Bureau is the leading source of quality data about the nation's people and economy.			
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Alternative: Social Explorer



Unique to NHGIS

- Historical census tables and GIS files
- Universal data filtering & selection
 - All years, levels & data types accessible at once
- Nationwide extent for all* levels
 - *Blocks & block groups available by state
- Historical vital statistics, agriculture, businesses, religious bodies...
- Complete 1970-2010 summary file data
- Time series tables
- FREE



developer.ipums.org

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OUR DATA, YOUR WAY!

Now you can interact with IPUMS data products programmatically! IPUMS APIs allow you to explore and retrieve IPUMS data in a whole new way. You can automate and integrate IPUMS data into your own tools and workflows.

Our first public APIs, the IPUMS Metadata and Data Extract APIs, allow you to submit a JSON request to describe the data you want, monitor our progress

IPUMS API NEWS

December 17, 2019 - NHGIS Metadata and Data Extract APIs have reached v1.0!

October 30, 2019 - We've added shapefiles, extent selection, year selection and breakdown values to the IPUMS NHGIS Metadata and Data Extract Beta APIs! The docs have all the info.

IPUMS.ORG



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DATA

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USER RESOURCES

ABOUT NHGIS FAQ DATA AVAILABILITY USER'S GUIDE OVERVIEW OF DATASETS MAPPING OPTIONS GEOGRAPHIC CROSSWALKS ENVIRONMENTAL SUMMARIES

DOCUMENTATION

TABULAR DATA SOURCES TIME SERIES TABLES GIS FILES RELEASE LOG

RESEARCH

CITATION AND USE

DOWNLOAD U.S. CENSUS DATA TABLES & MAPPING FILES

The National Historical Geographic Information System (NHGIS) provides easy access to summary tables and time series of population, housing, agriculture, and economic data, along with GIS-compatible boundary files, for years from 1790 through the present and for all levels of U.S. census geography, including states, counties, tracts, and blocks. <u>Read more</u>.

START HERE: Get Data

WHAT IS IPUMS?

IPUMS provides census and survey data from around the world integrated across time and space. IPUMS integration and documentation makes it easy to study change, conduct comparative research, merge information across data types, and analyze individuals within family and community context. Data and services are available free of charge. Learn more about IPUMS.

NHGIS NEWS

2010 CENSUS DEMONSTRATION DATA FOR DIFFERENTIAL PRIVACY

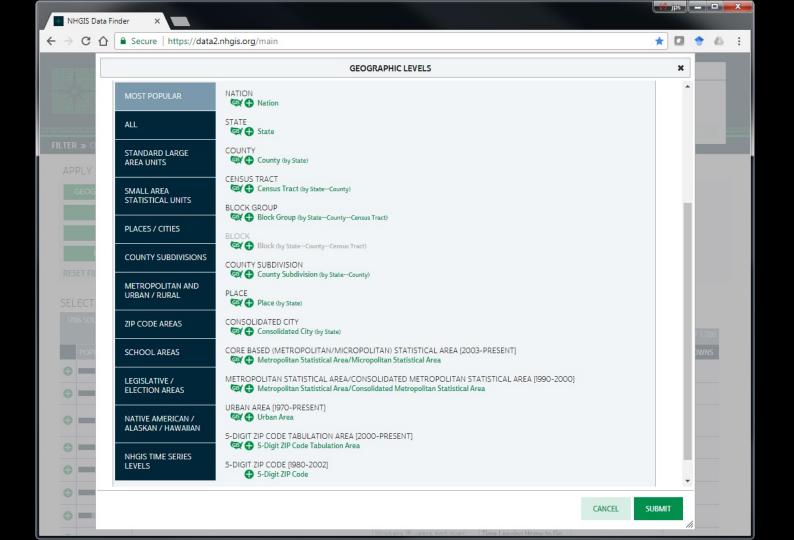
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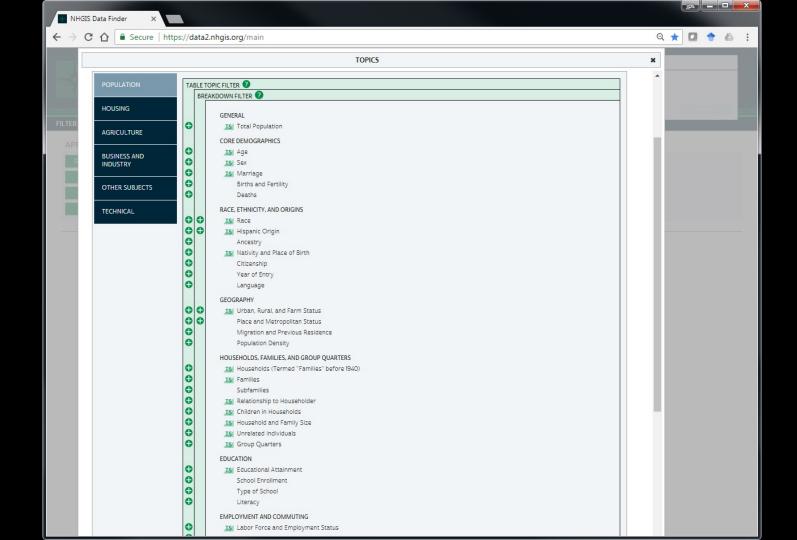


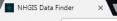
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6 G050 Arkansas 50 170171 200864 209851 245874 330745 3312 464000 7 G060 California 60 2102965 2938148 4034185 4343790 5778554 18439 4611973 8 G080 Colorado 80 230115 341985 373157 516816 678866 4145 510006 9 G090 Connecticut 90 306085 369471 412921 38588 496941 3768 706908 12 G100 Delaware 100 53 Time varies by column 122851 1650 126479 12 G100 District Of C 110 9 Time varies by column 122851 150 126479 13 G130 Georgia 130 144657 137448 15218 166715 205985 2060 169920 15 G160 Idaho 160 69395 86794 91380 128613 172169 2427 169553 16 G170 Illinois 170<	4	G020	Alaska	20	38428	53423	67827	78955	105333	1532	69046	5
7 6060 California 60 2102965 2938148 4034185 4343790 5778554 18439 4611973 8 6080 Colorado 80 230115 341985 373157 516816 678866 4145 510105 9 6090 Connecticut 90 306085 369471 412921 38588 496941 3768 706908 10 G100 Delaware 100 57 12281 1650 126479 11 G110 District Of C 110 95 Time varies by column 12281 1650 126479 12 G120 Florida 120 594050 710123 340487 12911 7312 1050444 14 G150 Hawaii 150 104625 137448 152188 166715 20585 2060 169920 15 G160 Idaho 160 69395 86794 91380 128613 172169 2427 169553 16 G170 Illinois 170 11115952 131840 <t< td=""><td>5</td><td>G040</td><td>Arizona</td><td>40</td><td>170463</td><td>286183</td><td>409976</td><td>581715</td><td>876661</td><td>. 5440</td><td>410438</td><td>3</td></t<>	5	G040	Arizona	40	170463	286183	409976	581715	876661	. 5440	410438	3
8 G080 Colorado 80 230115 341985 373157 516816 678866 4145 510105 9 G090 Connecticut 90 306085 369471 412921 385888 496941 3768 706908 10 G100 Delaware 100 54 Time varies by column 122851 1650 126479 11 G110 District Of C 110 9 Time varies by column 122851 1650 126479 12 G120 Florida 120 59 Time varies by column 122851 1650 126479 13 G130 Georgia 130 44617 394087 71012 94087 1299191 7312 1050444 14 G150 Hawaii 150 104625 137448 15218 166715 205985 2060 169920 15 G160 Idaho 160 69395 86794 91380 128613 172169 2427 169533 16 G170 Illinois 170 1115952 13	6	G050	Arkansas	50	170171	200864	209851	245874	330745	3312	464000) =
9 G090 Connecticut 90 306085 369471 412921 38588 496941 3768 706908 10 G100 Delaware 100 5 12 10 122851 1650 126479 11 G110 District Of C 110 9 Time varies by column 142162 1558 142605 12 G120 Florida 120 596 Time varies by column 122811 1650 126479 13 G130 Georgia 130 440917 504997 710127 94047 129911 7312 1050444 4 G150 Hawaii 150 104625 137448 15218 166715 205985 2060 169920 15 G160 Idaho 160 69395 86794 91380 128613 172169 2427 169553 16 G170 Illinois 170 1115952 1318480 1395167 1495795 183840 9371 2542632 16 G100 kansas 200 223168	7	G060	California	60	2102965	2938148	4034185	4343790	5778554	18439	4611973	3
10 G100 Delaware 100 5 11 120 120 122851 1650 126479 11 G110 District Of C 110 95 Time varies by column 142162 1558 142605 12 G120 Florida 120 596 Time varies by column 123594 14356 1687636 13 G130 Georgia 130 440517 364090 710123 940487 1299191 7312 1050444 14 G150 Hawaii 150 104625 137448 152188 166715 205985 2060 169920 15 G160 Idaho 160 69395 86794 91380 128613 172169 2427 16553 16 G170 Illinois 170 1115552 1318480 1395167 1495795 1838840 9371 2542632 18 G190 Iowa 190 271540 301518 281081 318000 375129 2818 665781 19 G200 Kansas 200 <td< td=""><td>8</td><td>G080</td><td>Colorado</td><td>80</td><td>230115</td><td>341985</td><td>373157</td><td>516816</td><td>678866</td><td>4145</td><td>5 510105</td><td>5</td></td<>	8	G080	Colorado	80	230115	341985	373157	516816	678866	4145	5 510105	5
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13 G130 Georgia 130 44917 504050 710125 540487 1299191 7312 1050444 14 G150 Hawaii 150 104625 137448 152188 166715 205985 2060 169920 15 G160 Idaho 160 69395 86794 91380 128613 172169 2427 169553 16 G170 Illinois 170 1115952 1318480 1395167 1495795 1838840 9371 2542632 17 G180 Indiana 180 477592 541264 569459 643222 814989 5228 122896 18 G190 Iowa 190 271540 301518 281081 318000 375129 2818 665781 19 G200 Kansas 200 223168 241362 244866 281338 345753 3010 542632 20 G210 Kentucky 210 318856 358353 361278 401465 518929 4039 775239 21	11	G110	District Of Co	110	99	Timo va	prioc h		142162	1558	142605	5
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18 G190 Iowa 190 271540 301518 281081 318000 375129 2818 665781 19 G200 Kansas 200 223168 241362 244866 281338 345753 3010 542632 20 G210 Kentucky 210 318856 358353 361278 401465 518929 4039 757239 21 G220 Louisiana 220 370838 450684 464285 514633 633702 4170 793188 22 G230 Maine 230 97253 116576 126930 132473 163254 1650 227135 23 G240 Maryland 240 392646 501319 587368 610852 814952 4997 906860 24 G250 Massachuse 250 622162 743825 832633 817954 981462 5728 1243732 25 G260 Michigan 260 872687 1036241 1078995 1159693 1352844 6714 2021198 <td< td=""><td>16</td><td>G170</td><td>Illinois</td><td>170</td><td>1115952</td><td>1318480</td><td>1395167</td><td>1495795</td><td>1838840</td><td>9371</td><td>2542632</td><td>2</td></td<>	16	G170	Illinois	170	1115952	1318480	1395167	1495795	1838840	9371	2542632	2
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20 G210 Kentucky 210 318856 358353 361278 401465 518929 4039 757239 21 G220 Louisiana 220 370838 450684 464285 514633 633702 4170 793188 22 G230 Maine 230 97253 116576 126930 132473 163254 1650 227135 23 G240 Maryland 240 392646 501319 587368 610852 814952 4997 906860 24 G250 Massachuset 250 622162 743825 832633 817954 981462 5728 1243732 25 G260 Michigan 260 872687 1036241 1078995 1159693 1352844 6714 2021198 26 G270 Minnesota 270 403762 484050 504483 591866 716441 4620 849440 27 G280 Mississippi 280 222569 25292 275422 319922 388559 3394 480663	18	G190	Iowa	190	271540	301518	281081	318000	375129	2818	665781	L
21 G220 Louisiana 220 370838 450684 464285 514633 633702 4170 793188 22 G230 Maine 230 97253 116576 126930 132473 163254 1650 227135 23 G240 Maryland 240 392646 501319 587368 610852 814952 4997 906860 24 G250 Massachuse 250 622162 743825 832633 817954 981462 5728 1243732 25 G260 Michigan 260 872687 1036241 1078995 1159693 1352844 6714 2021198 26 G270 Minnesota 270 403762 484050 504483 591866 716441 4620 849440 27 G280 Mississippi 280 222569 22592 275422 319922 388559 3394 480663 4 + H https:0215_ts_state * * * * * * * * * * *	19	G200	Kansas	200	223168	241362	244866	281338	345753	3010	542632	2
22 G230 Maine 230 97253 116576 126930 132473 163254 1650 227135 23 G240 Maryland 240 392646 501319 587368 610852 814952 4997 906860 24 G250 Massachuset 250 622162 743825 832633 817954 981462 5728 1243732 25 G260 Michigan 260 872687 1036241 1078995 1159693 1352844 6714 2021198 26 G270 Minnesota 270 403762 484050 504483 591866 716441 4620 849440 27 G280 Mississippi 280 222569 22592 275422 319922 388559 3394 480663 14 + H Intigs0215_ts_state *** *** *** *** *** ***	20	G210	Kentucky	210	318856	358353	361278	401465	518929	4039	757239)
23 G240 Maryland 240 392646 501319 587368 610852 814952 4997 906860 24 G250 Massachuse 250 622162 743825 832633 817954 981462 5728 1243732 25 G260 Michigan 260 872687 1036241 1078995 1159693 1352844 6714 2021198 26 G270 Minnesota 270 403762 484050 504483 591866 716441 4620 849440 27 G280 Mississippi 280 222569 225292 275422 319922 388559 3394 480663 14 + Finhgis0215_ts_state * * * * * * * * * *	21	G220	Louisiana	220	370838	450684	464285	514633	633702	4170	793188	3
24 G250 Massachuset 250 G22162 743825 832633 817954 981462 5728 1243732 25 G260 Michigan 260 872687 1036241 1078995 1159693 1352844 6714 2021198 26 G270 Minnesota 270 403762 484050 504483 591866 716441 4620 849440 27 G280 Mississippi 280 222569 252992 275422 319922 388559 3394 480663 14 + H Inhgis0215_ts_state * * * * * * *	22	G230	Maine	230	97253	116576	126930	132473	163254	1650	227135	5
25 G260 Michigan 260 872687 1036241 1078995 1159693 1352844 6714 2021198 26 G270 Minnesota 270 403762 484050 504483 591866 716441 4620 849440 27 G280 Mississippi 280 222569 252992 275422 319922 388559 3394 480663 ↓ If < ▶ ▶	23	G240	Maryland	240	392646	501319	587368	610852	814952	4997	906860)
26 G270 Minnesota 270 403762 484050 504483 591866 716441 4620 849440 27 G280 Mississippi 280 222569 252992 275422 319922 388559 3394 480663 ↓ I ← ↓ ▶ nhgis0215_ts_state ↓ <td>24</td> <td>G250</td> <td>Massachuset</td> <td>250</td> <td>622162</td> <td>743825</td> <td>832633</td> <td>817954</td> <td>981462</td> <td>5728</td> <td>1243732</td> <td>2</td>	24	G250	Massachuset	250	622162	743825	832633	817954	981462	5728	1243732	2
27 G280 Mississippi 280 222569 252992 275422 319922 388559 3394 480663 ↓ I 4 → ▶ nhgis0215_ts_state <table 1<="" line="" td=""><td>25</td><td>G260</td><td>Michigan</td><td>260</td><td>872687</td><td>1036241</td><td>1078995</td><td>1159693</td><td>1352844</td><td>6714</td><td>2021198</td><td>3</td></table>	25	G260	Michigan	260	872687	1036241	1078995	1159693	1352844	6714	2021198	3
I 4 ■ I	26	G270	Minnesota	270	403762	484050	504483	591866	716441	4620	849440)
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1	GISJOIN	YEAR	STATE	STATEA	NAME	BLIAA	BL1AB	BL1AC	BL1AD	BL1AE	BL1AF	
	GIS Join Match Code	Year	State Name	State Code	Area Name	Never married	Now married	Now married Not separated	Persons: Male ~ Now married Separated	Persons: Male ~ Widowed	Persons: Male ~ Divorced	≡ ,
	G010		Alabama	1	Alabama	324572	792229		19623	34715		
	G010		Alabama		ALABAMA	375515	904748	879413			75051	1
	G010		Alabama		Alabama	406140	925748					
_	G010		Alabama		Alabama	444450	1012430	982641	29789			L
		2008-2012			Alabama	584355	996641					
8	G020	1970	Alaska	2	Alaska	38428	69046	67768	1278	1604	4579)
9	G020		Alaska		ALASKA	53423	89520	87025	2495			1
10	G020		Alaska		Alaska				4146			1
	G020		Alaska		Alaska	Time	<i>iaries</i>	by row	4146	3422	26344	1
		2008-2012		2	Alaska	Thine v	anes		5476	4942	32300)
13	G040	1970	Arizona	4	Arizona	170463	410438	403552	6886	14944	21038	\$
14	G040	1980	Arizona	4	ARIZONA	286183	636243	621664	14579	21708	65500)
15	G040		Arizona	4	Arizona	409976	817459	792947	24512			5
	G040		Arizona	4	Arizona	581715	1141032	1109792	31240			2
17	G040	2008-2012	-	4	Arizona	876661	1293932	1255797	38135			<u>i</u>
	G050		Arkansas	5	Arkansas	170171	464000					-
	G050	1980	Arkansas	5	ARKANSA	200864	558303		13623			3
20	G050		Arkansas	5	Arkansas	209851	563189	548531	14658	24977	70529)
21	G050		Arkansas	5	Arkansas	245874	636346		16722			3
		2008-2012			Arkansas	330745	630722	607327	23395	33244	134161	L
23	G060	1970	California	6	California	2102965	4611973	4488984	122989	170209	315630)
24	G060	1980	California	6	CALIFORN	2938148	5260299	5049511	210788	194463	640946	;
25	G060	1990	California	6	California	4034185	6348675	6096047	252628	237667	897477	1
26	G060		California		California	4343790	7205642	6949183	256459	278180	1017057	1
27	G060	2008-2012	California	6	California	5778554	7400001	7123855	276146	311362	1172808	3 🕌
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1	А	В	С	D	E	F	G	Н	I	J	K	
1	GISJOIN	YEAR	STATE	STATEA	NAME	BL1AA1970	BL1AB1970	BL1AC1970	BL1AD1970	BL1AE1970	BL1AF1970	B
2		Data File Year		State Code	Area Name		Persons: Male ~ Now married		Persons: Male ~ Now married Separated		Persons: Male ~ Divorced	P 'F m
3	G010		Alabama	1	Alabama	324572	792229	772606	19623	34715	29261	
4	G020	1970	Alaska	2	Alaska	38428	69046	67768	1278	1604	4579	
5	G040	_	Arizona	4	Arizona	170463	410438	403552	6886	14944	21038	
6	G050	1970	Arkansas	5	Arkansas	170171	464000	454528	9472	23955	19079	
7	G060	1970	California	6	California	2102965	4611973	4488984	122989	170209	315630	1
8	G080	1970	Colorado	8	Colorado	230115	510105	501665	8440	17989	26060	1
9	G090		Connectic	9	Connectic	306085	706908	692637	14271	31302	21853	
10	G100		Delaware		Delaware				4066	5208	4496	i
11	G110	1970	District Of	11	District O	Time	varios	by file	16943	9814	10821	
12	G120	1970	Florida	12	Florida	IIIIe	varies	by me	45569	81012	83596	i
13	G130	1970	Georgia	13	Georgia	446917	1050444	1019145	31299	41282	42198	
14	G150	1970	Hawaii	15	Hawaii	104625	169920	167778	2142	6433	8198	
15	G160		Idaho	16	Idaho	69395	169553	167692	1861	6142	8349	1
16	G170	1970	Illinois	17	Illinois	1115952	2542632	2486837	55795	122803	108659	1
17	G180	1970	Indiana	18	Indiana	477592	1222896	1206358	16538	49784	55706	i
18	G190	1970	lowa	19	lowa	271540	665781	660244	5537	31358	21556	i
19	G200	1970	Kansas	20	Kansas	223168	542632	536569	6063	22798	22475	i - 1
20	G210	1970	Kentucky	21	Kentucky	318856	757239	745046	12193	34636	31068	
21	G220	1970	Louisiana	22	Louisiana	370838	793188	765679	27509	36094	25765	÷
22	G230	1970	Maine	23	Maine	97253	227135	224170	2965	12156	10385	<i>.</i>
23	G240	1970	Maryland	24	Maryland	392646	906860	869787	37073	36331	. 31050)
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25	G260	1970	Michigan	26	Michigan	872687	2021198	1976907	44291	84358	88150	1
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Additional documentation on NHGIS data sources is available at: http://internal.nhgis.org/documentation/tabular-data		
Data Summary		
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 Persons of Marrying Age* by Sex [2] by Marital Status [6] Valid years in file: 1970, 1980, 1990, 2000, 2007-2011 Code: BL1 		
 Persons of Marrying Age* by Sex [2] by Marital Status [5] by Age [7] Valid years in file: 1970, 1980, 1990, 2000, 2007-2011 Code: A34 		
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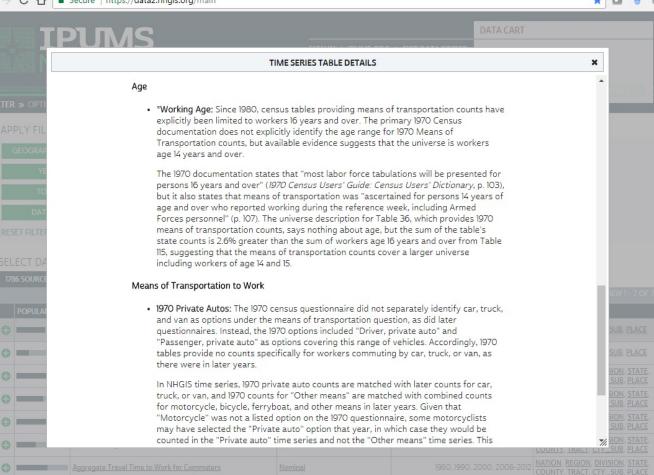
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1786 SOURCE	Notes:		IEW 1 - 7 OF 7
	1970 Negative Values: The 1970 data for this table may include some negative suppressed data. For more information on 1970 suppression codes, see pp. 3 Processing (EDP) Series section of the 1970 Census Users' Guide. Measured features:		SUB, <u>PLACE</u>
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	No known comparability issues for this time period.	COUNT	SION, STATE,
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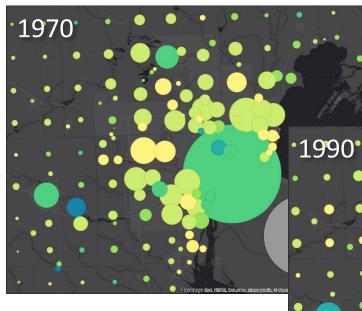
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	Forces personnel" (p. 107). The universe description for Table 36, which provides 1970		
ilter » opti	means of transportation counts, says nothing about age, but the sum of the table's state counts is 2.6% greater than the sum of workers age 16 years and over from Table 115, suggesting that the means of transportation counts cover a larger universe		
APPLY FIL	including workers of age 14 and 15.		
GEOGRAP	Means of Transportation to Work		
YE TO DAT	 1970 Private Autos: The 1970 census questionnaire did not separately identify car, truck, and van as options under the means of transportation question, as did later questionnaires. Instead, the 1970 options included "Driver, private auto" and "Passenger, private auto" as options covering this range of vehicles. Accordingly, 1970 tables provide no counts specifically for workers commuting by car, truck, or van, as 		
RESET FILTER	there were in later years.		
SELECT DA 1786 SOURCE	In NHGIS time series, 1970 private auto counts are matched with later counts for car, truck, or van, and 1970 counts for "Other means" are matched with combined counts for motorcycle, bicycle, ferryboat, and other means in later years. Given that "Motorcycle" was not a listed option on the 1970 questionnaire, some motorcyclists may have selected the "Private auto" option that year, in which case they would be		IEW 1 - 7 OF 7
POPULAR	counted in the "Private auto" time series and not the "Other means" time series. This discrepancy should have affected only a small fraction of the overall counts, given that in 1980, the total number of workers commuting by motorcycle was only 0.5% as large as the number commuting by car, truck, or van.	- 1	<u>SUB. PLACE</u>
•	Relevant source documentation:		SUB, <u>PLACE</u>
•	<u>1970 Census Users' Guide: Electronic Data Processing (EDP) Series</u> <u>1970 Census Users' Guide: Census Users' Dictionary</u>		SION, <u>STATE</u> , SUB, <u>PLACE</u>
•	 1980 Census of Population and Housing: Summary Tape File 4Technical Documentation: Appendix A. Gloss 1990 Census of Population and Housing: Guide, Part B. Glossary 	ary	SION. <u>STATE</u> . SUB. <u>PLACE</u>
•	 1990 Census of Population and Housing: Guide, Part B. Glossary 2000 Census of Population and Housing: Summary File 3Technical Documentation: Appendix B. Definition Subject Characteristics American Community Survey and Puerto Rico Community Survey: 2012 Subject Definition 		SION, <u>STATE</u> , SUB, <u>PLACE</u>
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Perso	ons by Urban/Rural Status [4]	Standardized to 2010		990, 2000, 2010 CTY_SU	<u>County</u> , <u>tract</u> , <u>blck_grp</u> , <u>JB, place</u> , <u>cd110th-112th</u> , <u>JRB_area</u> , <u>ZCTA</u>
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Match State Male ~ Never married Male ~ Never married Male ~ Never married Male ~ Never married Persons: Male ~ Never married 3 G010 Alabama 10 324572 37515 406140 444450 584355 4261 79222 4 G020 Alaska 20 38428 53423 67827 78955 10533 1532 6904 5 G040 Arizona 40 170463 286183 409851 245874 330745 3312 46400 7 G060 California 60 210295 2938148 4034185 4343790 5778554 18439 461197 8 G080 Colorado 80 230115 341985 373157 516816 678866 41445 51010 9 G090 Connecticut 90 306685 367912 <td></td> <td>100</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Margin of error:</td> <td></td> <td></td>		100								Margin of error:		
2 Code State Name Code married married married married Never married Never married married 3 G010 Alabama 10 324572 375515 406140 444450 584355 4261 79222 4 G020 Alaska 20 38428 53423 67827 78955 105333 1532 6904 5 G040 Arizona 40 170463 286183 409976 581715 876661 5440 41043 6 G050 Arkansas 50 170171 200864 209851 245874 33075 3312 46400 7 G060 California 60 2102965 2938148 4034185 4343790 5778554 18439 461197 8 G080 Colorado 80 230115 341985 373157 518616 678866 4145 51010 9 G090 Connecticut 90 306085		GIS Join			1970: Persons:	1980: Persons:	1990: Persons:	2000: Persons:	2008-2012:	2008-2012:	1970: Persons:	
3 G010 Alabama 10 324572 375515 406140 444450 584355 4261 79222 4 G020 Alaska 20 38428 53423 67827 78955 105333 1532 6904 5 G040 Arizona 40 170463 286183 409976 581715 876661 5440 41043 6 G050 Arkansas 50 170171 200864 209851 245874 330745 3312 46400 7 G060 California 60 2102965 2938148 4034185 4343790 5778554 18439 461197 8 G080 Colorado 80 230115 341985 373157 516816 678866 4145 51010 9 G090 Connecticut 90 306085 369471 412921 38588 496941 3768 70690 10 District Of C 110 999908 112013 1182		Match		State	Male ~ Never	Male ~ Never	Male ~ Never	Male ~ Never	Persons: Male ~	Persons: Male ~	Male ~ Now	
4G020Alaska203842853423G782778955105333153269045G040Arizona401704632861834099765817158766615440410436G050Arkansas501701712008642098512458743307453312464007G060California6021029652938148403418543437905778554184394611978G080Colorado802301153419853731575168166788664145510109G090Connecticut903060853694714129213858849694137687069010G100Delaware1005262467052769978715411285116501264711G110District Of C1109990811201311827311251614216215581426012G120Florida1205966519500491336469170264825532941435616876313G130Georgia1304469175646967161259404871299191731210504414G150Hawaii15010462513744815218816671520598520601699215G160Idaho16069395867949138012861317216924271695516G170Illinois170111595213184	2	Code	State Name	Code	married	married	married	married	Never married	Never married	married	
5 6040 Arizona 40 170463 286183 409976 581715 876661 5440 41043 6 6050 Arkansas 50 170171 200864 209851 245874 330745 3312 46400 7 6060 California 60 2102965 2938148 4034185 4343790 5778554 18439 461197 8 6080 Colorado 80 230115 341985 373157 516816 678866 4145 51010 9 6090 Connecticut 90 306085 369471 412921 38888 496941 3768 70690 10 District Of C 10 99908 112013 118273 112516 142162 1558 14260 12 G120 Florida 120 596651 950049 138469 1702648 2553294 14355 168763 13 G130 Georgia 130 446917 564696	3	G010	Alabama	10	324572	375515	406140	444450	584355	4261	792229	
66050Arkansas5017017120086420985124587433074533124640076060California602102965293814840341854343790577855411843946119786080Colorado8023011534198537315751681667886641455101096090Connecticut90306085369471412921385888496941376870690106100Delaware10052624670527699787154122851165012647116110District Of C1109990811201311827311251614216215581426012G120Florida120596651590049133646917026482553241435616876313G130Georgia1304469175646967161259404871299191731210504414G150Hawaii15010462513744815218816671520598520601699215G160Idaho16069395867949138012861317216924271655516G170Illinois17011155213184013951671495795183840937125426317G180Indiana18047759254126456945964322281498952281222818G190Iowa190271540 <td>4</td> <td>G020</td> <td>Alaska</td> <td>20</td> <td>38428</td> <td>53423</td> <td>67827</td> <td>78955</td> <td>105333</td> <td>1532</td> <td>69046</td> <td></td>	4	G020	Alaska	20	38428	53423	67827	78955	105333	1532	69046	
76060California60210296529381484034185434379057785541843946119786080Colorado8023011534198537315751681667886641455101096090Connecticut903060853694714122138588496941376870690106100Delaware10052624670527697871541122851165012647116110District Of C11099908112013118273112516142162155814260126120Florida1205966519500491336469170264825532941435616876313G130Georgia1304469175646967161259404871299191731210504414G150Hawaii150104625137448152188166715205985206016992215G160Idaho16069395867949138012861317216924271695516G170Illinois1701115952131848013951671495795183840937125426317G180Indiana18047759254126456945964322281498952281228918G190Iowa19027154030151828108131800037512928186657819G200Kansas200223168 <td>5</td> <td>G040</td> <td>Arizona</td> <td>40</td> <td>170463</td> <td>286183</td> <td>409976</td> <td>581715</td> <td>876661</td> <td>5440</td> <td>410438</td> <td></td>	5	G040	Arizona	40	170463	286183	409976	581715	876661	5440	410438	
8 6080 Colorado 80 230115 341985 373157 516816 678866 4145 51010 9 6090 Connecticut 90 306085 369471 412921 385888 496941 3768 70690 10 6100 Delaware 100 52624 67052 76997 87154 122851 1650 12647 11 6110 District Of C 110 99008 112013 118273 112516 142162 1558 14260 12 6120 Florida 120 596651 950049 1336469 1702648 2553294 14356 168763 13 6130 Georgia 130 446917 564696 716125 940487 1299191 7312 105044 14 6150 Hawaii 150 104625 137448 152188 166715 205985 2060 16992 15 6160 Idaho 160 69395 8	6	G050	Arkansas	50	170171	200864	209851	245874	330745	3312	464000	
9 6090 Connecticut 90 306085 369471 412921 385888 496941 3768 70690 10 G100 Delaware 100 52624 67052 76997 87154 122851 1650 12647 11 G110 District Of C 110 99908 112013 118273 1112516 142162 1558 14260 12 G120 Florida 120 596651 950049 1336469 1702648 2553294 14356 168763 13 G130 Georgia 130 446917 564696 716125 940487 1299191 7312 105044 14 G150 Hawaii 150 104625 137448 152188 166715 205985 2060 16992 15 G160 Idaho 160 69395 86794 91380 128613 172169 2427 16955 16 G170 Illinois 170 1115952 <td< td=""><td>7</td><td>G060</td><td>California</td><td>60</td><td>2102965</td><td>2938148</td><td>4034185</td><td>4343790</td><td>5778554</td><td>18439</td><td>4611973</td><td></td></td<>	7	G060	California	60	2102965	2938148	4034185	4343790	5778554	18439	4611973	
10G100Delaware1005262467052769978715412285116501264711G110District Of C1109990811201311827311251614216215581426012G120Florida1205966519500491336469170264825532941435616876313G130Georgia1304469175666967161259404871299191731210504414G150Hawaii15010462513744815218816671520598520601699215G160Idaho16069395867949138012861317216924271695516G170Illinois1701115952131848013951671495795183840937125426317G180Indiana18047759254126456945964322281498952281228918G190Iowa19027154030151828108131800037512928186657819G200Kansas20022316824136224486628133834575330105426320G210Kentucky21031885635835336127840146551892940397572321G200Louisiana22037083845068446428551463363370241707931822G30Maine23097253116	8	G080	Colorado	80	230115	341985	373157	516816	678866	4145	510105	
11G110District Of C1109990811201311827311251614216215581426012G120Florida1205966519500491336469170264825532941435616876313G130Georgia1304469175646967161259404871299191731210504414G150Hawaii15010462513744815218816671520598520601699215G160Idaho16069395867949138012861317716924271695516G170Illinois17011159521318480139516714957951838840937125426317G180Indiana180477592541264569459643222814989522812228918G190Iowa19027154030151828108131800037512928186657819G200Kansas20022316824136224486628133834575330105426320G210Kentucky21031885635835336127840146551892940397572321G200Louisiana22037083845068446428551463363370241707931822G230Maine23097253116576126930132473163254165022713	9	G090	Connecticut	90	306085	369471	412921	385888	496941	3768	706908	
12G120Florida1205966519500491336469170264825532941435616876313G130Georgia1304469175646967161259404871299191731210504414G150Hawaii15010462513744815218816671520598520601699215G160Idaho16069395867949138012861317216924271695516G170Illinois17011159521318480139516714957951838840937125426317G180Indiana180477592541264569459643222814989522812228918G190Iowa19027154030151828108131800037512928186657819G200Kansas20022316824136224486628133834575330105426320G210Kentucky21031885635835336127840146551892940397572321G200Louisiana22037083845068446428551463363370241707931822G300Maine23097253116576126930132473163254165022713	10	G100	Delaware	100	52624	67052	76997	87154	122851	1650	126479	
13G130Georgia1304469175646967161259404871299191731210504414G150Hawaii15010462513744815218816671520598520601699215G160Idaho16069395867949138012861317216924271695516G170Illinois17011159521318480139516714957951838840937125426317G180Indiana180477592541264569459643222814989522812228918G190Iowa19027154030151828108131800037512928186657819G200Kansas20022316824136224486628133834575330105426320G210Kentucky21031885635835336127840146551892940397572321G200Louisiana22037083845068446428551463363370241707931822G300Maine23097253116576126930132473163254165022713	11	G110	District Of Co	110	99908	112013	118273	112516	142162	1558	142605	
14G150Hawaii15010462513744815218816671520598520601692215G160Idaho16069395867949138012861317216924271695516G170Illinois17011159521318480139516714957951838840937125426317G180Indiana180477592541264569459643222814989522812228918G190Iowa19027154030151828108131800037512928186657819G200Kansas20022316824136224486628133834575330105426320G210Kentucky21031885635835336127840146551892940397572321G200Louisiana22037083845068446428551463363370241707931822G300Maine23097253116576126930132473163254165022713	12	G120	Florida	120	596651	950049	1336469	1702648	2553294	14356	1687636	
15G160Idaho16069395867949138012861317716924271695516G170Illinois17011159521318480139516714957951838840937125426317G180Indiana180477592541264569459643222814989522812228918G190Iowa19027154030151828108131800037512928186657819G200Kansas20022316824136224486628133834575330105426320G210Kentucky21031885635835336127840146551892940397572321G200Louisiana22037083845068446428551463363370241707931822G300Maine23097253116576126930132473163254165022713	13	G130	Georgia	130	446917	564696	716125	940487	1299191	7312	1050444	
16G170Illinois17011159521318480139516714957951838840937125426317G180Indiana180477592541264569459643222814989522812228918G190Iowa19027154030151828108131800037512928186657819G200Kansas20022316824136224486628133834575330105426320G210Kentucky21031885635835336127840146551892940397572321G220Louisiana22037083845068446428551463363370241707931822G230Maine23097253116576126930132473163254165022713	14	G150	Hawaii	150	104625	137448	152188	166715	205985	2060	169920	
17G180Indiana180477592541264569459643222814989522812289918G190Iowa19027154030151828108131800037512928186657819G200Kansas20022316824136224486628133834575330105426320G210Kentucky21031885635835336127840146551892940397572321G200Louisiana22037083845068446428551463363370241707931822G230Maine23097253116576126930132473163254165022713	15	G160	Idaho	160	69395	86794	91380	128613	172169	2427	169553	
18 G190 Iowa 190 271540 301518 281081 318000 375129 2818 66578 19 G200 Kansas 200 223168 241362 244866 281338 345753 3010 54263 20 G210 Kentucky 210 318856 358353 361278 401465 518929 4039 75723 21 G200 Louisiana 220 370838 450684 464285 514633 633702 4170 79318 22 G230 Maine 230 97253 116576 126930 132473 163254 1650 22713	16	G170	Illinois	170	1115952	1318480	1395167	1495795	1838840	9371	2542632	
19G200Kansas20022316824136224486628133834575330105426320G210Kentucky21031885635835336127840146551892940397572321G220Louisiana22037083845068446428551463363370241707931822G230Maine23097253116576126930132473163254165022713	17	G180	Indiana	180	477592	541264	569459	643222	814989	5228	1222896	
20 G210 Kentucky 210 318856 358353 361278 401465 518929 4039 75723 21 G220 Louisiana 220 370838 450684 464285 514633 633702 4170 79318 22 G230 Maine 230 97253 116576 126930 132473 163254 1650 22713	18	G190	Iowa	190	271540	301518	281081	318000	375129	2818	665781	
21 G220 Louisiana 220 370838 450684 464285 514633 633702 4170 79318 22 G230 Maine 230 97253 116576 126930 132473 163254 1650 22713	19	G200	Kansas	200	223168	241362	244866	281338	345753	3010	542632	
22 G230 Maine 230 97253 116576 126930 132473 163254 1650 22713	20	G210	Kentucky	210	318856	358353	361278	401465	518929	4039	757239	
	21	G220	Louisiana	220	370838	450684	464285	514633	633702	4170	793188	
23 G240 Manyland 240 392646 501319 597269 610952 914952 4997 90696	22	G230	Maine	230	97253	116576	126930	132473	163254	1650	227135	
23 3240 Maryland 240 332040 301313 307300 010032 014332 4337 30080	23	G240	Maryland	240	392646	501319	587368	610852	814952	4997	906860	
24 G250 Massachuser 250 G22162 743825 832633 817954 981462 5728 124373	24	G250	Massachuse	250	622162	743825	832633	817954	981462	5728	1243732	
25 G260 Michigan 260 872687 1036241 1078995 1159693 1352844 6714 202119	25	G260	Michigan	260	872687	1036241	1078995	1159693	1352844	6714	2021198	
26 G270 Minnesota 270 403762 484050 504483 591866 716441 4620 84944	26	G270	Minnesota	270	403762	484050	504483	591866	716441	4620	849440	
27 G280 Mississippi 280 222569 252992 275422 319922 388559 3394 48066	27	G280	Mississippi	280	222569	252992	275422	319922	388559	3394	480663	-
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Nominal integration

	А	Н	I	J	К	L	М	Ν	U	V	W	Х	Y
1	NHGISCODE	STATE	STATEFP	STATENH	COUNTY	COUNTYFP	COUNTYNH	TRACTA	AV0AA1970	AV0AA1980	AV0AA1990	AV0AA2000	AV0AA2010
	NHGIS Integrated	NHGIS	FIPS	NHGIS	NHGIS Integrated	FIPS	NHGIS Integrated	NHGIS Integrated	1970:	1980:	1990:	2000:	2010:
	Geographic Unit	Integrated	State	Integrated	County	County	County	Census	Persons:	Persons:	Persons:	Persons:	Persons:
2	Code	State Name	Code	State Code	Name	Code	Code	Tract Code	Total	Total	Total	Total	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	
4	hgis057	0_ts_nominal_trac	t (+)					: •					Þ
Ready													+ 110%



Detroit Area Poverty Rates by County Subdivision

Nominal integration

Poverty Rate (%)

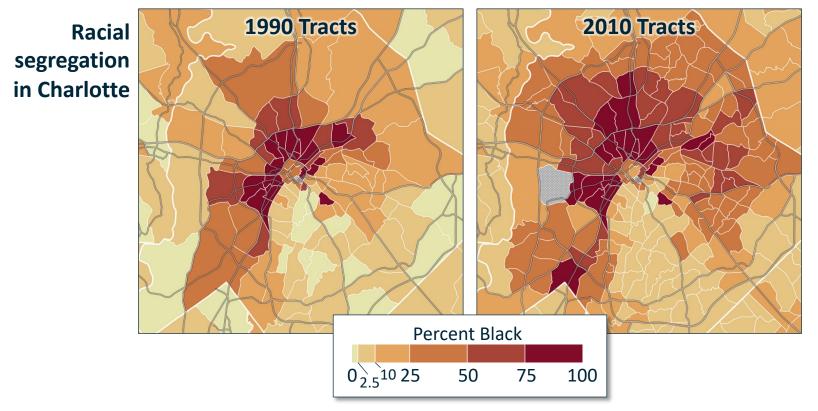
Population 1,000,000 100,000 25,000 5,000

2008-

2012

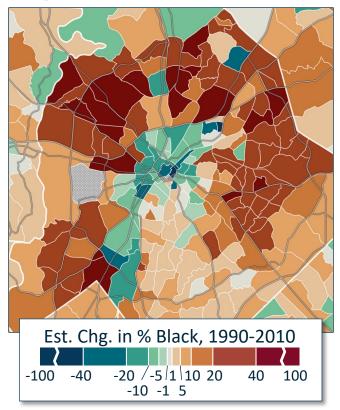
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Nominal integration





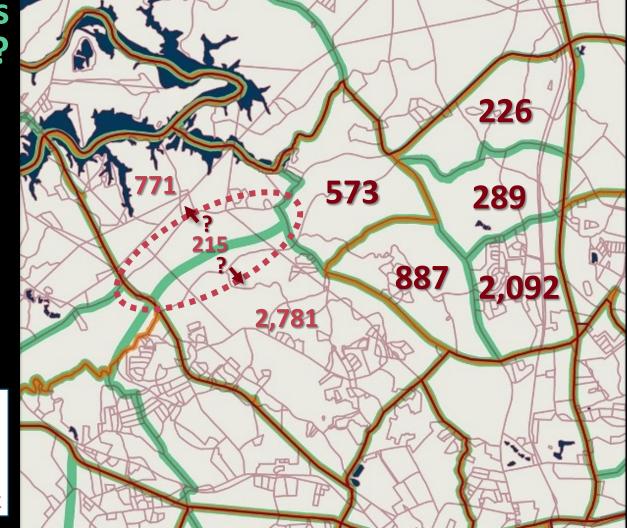
Geographic standardization

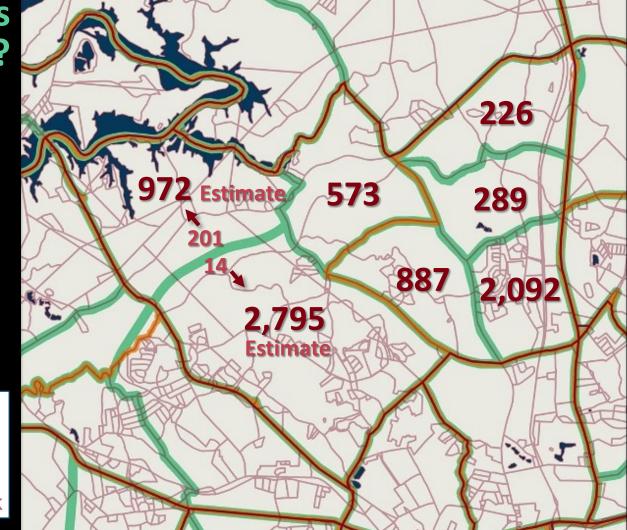


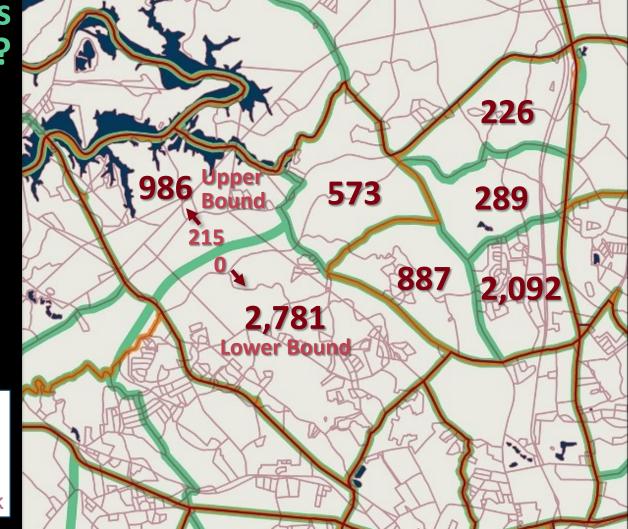


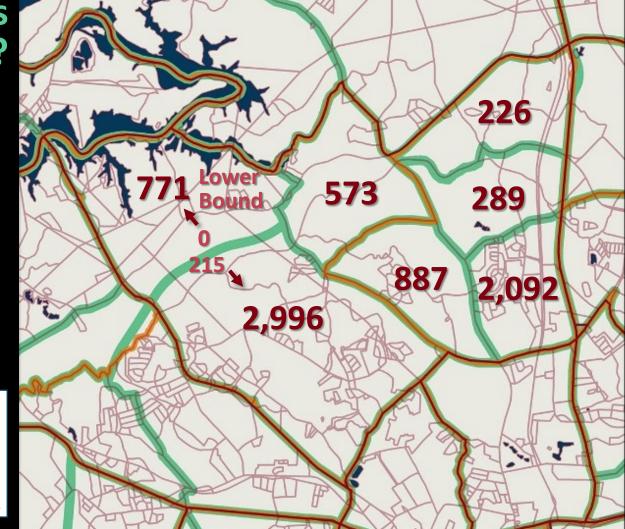
Home Geographic standardization Sign R

1	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	-
1	GISJOIN	GEOGYEAR	STATE	STATEA	COUNTY	COUNTYA	TRACTA	CL8AA199	CL8AA199	CL8AA199	CL8AA200	CL8AA200	CL8AA200	CL8AA2010	
	GIS Join Match	Geography		State		County	Census Tract	Persons:	bound: 1990: Persons:		2000: Persons:	Lower bound: 2000: Persons:	Upper bound: 2000: Persons:	2010: Persons:	
	Code	Year				Code	Code		Total	Total	Total	Total	Total	Total	_
	G3701190001400) North Carolina		Mecklenburg Co										_
	G3701190001504) North Carolina		Mecklenburg Co										_
49317	G3701190001505	2010	North Carolina		Mecklenburg Co		1505			2901	2906	2906			_
49318	G3701190001507) North Carolina	-	Mecklenburg Co										_
49319	G3701190001508	2010) North Carolina	37	Mecklenburg Co	o 119	1508	3662	3662	3662	4400	4400	4400	6061	_
49320	G3701190001509	2010) North Carolina		Mecklenburg Co		1509					1	3229		
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	o 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	1
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	
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Time Series Tables | IPUM ×

▲ Secure | https://www.nhgis.org/documentation/time-series#standardization

Documentation at nhgis.org

Geographically standardized tables provide data from multiple times for a single census's geographic units. At this time, NHGIS's standardized time series tables provide 1990, 2000, and 2010 data for *2010 census units*.

To allocate 1990 and 2000 summary data to 2010 census units, NHGIS reaggregates data from the smallest source units for which 1990 and 2000 data are available: census blocks. Where a source block intersects multiple 2010 units, NHGIS applies interpolation to estimate how the source block's characteristics are distributed among the 2010 units.

Detailed methodology:

- <u>2000 Block Data Standardized to 2010 Geography</u>
- 1990 Block Data Standardized to 2010 Geography

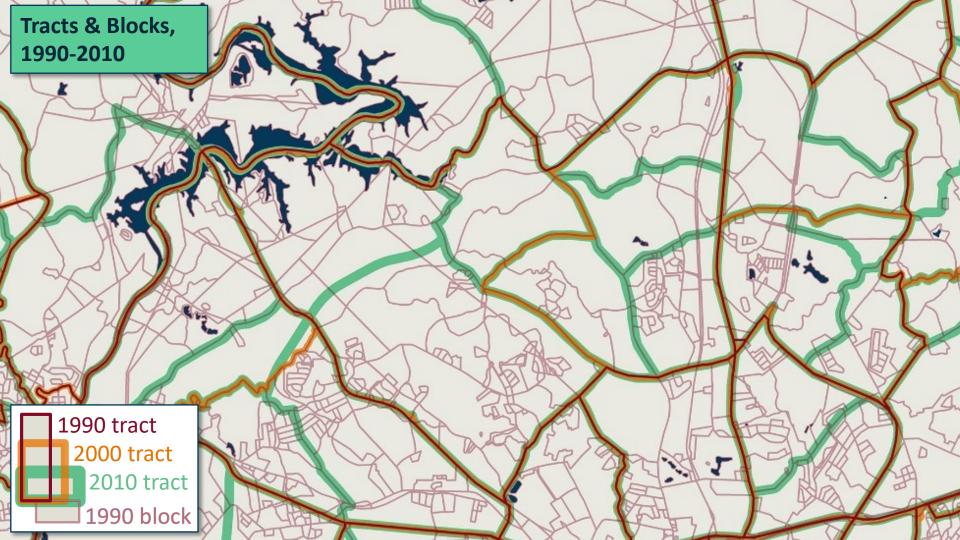
For each standardized statistic, NHGIS also supplies lower and upper bounds based on the spatial relationship between the source units and standard units. For example, if there are three 2000 census blocks that straddle a 2010 census unit's boundary, then it is possible that either all or none of the three blocks' 2000 residents were located in the 2010 unit. The upper bound assumes that all residents and housing units in straddling blocks were located in the 2010 unit, and the lower bound assumes that none were. <u>Bounds for 1990 estimates</u> also take account of additional uncertainty due to accuracy improvements in Census Bureau's geographic data files, which make it impossible to determine exact spatial relationships between 1990 and 2010 units.

NHGIS has not yet implemented standardization for non-count statistics such as medians and quotients. Therefore, currently available standardized tables supply only count statistics.

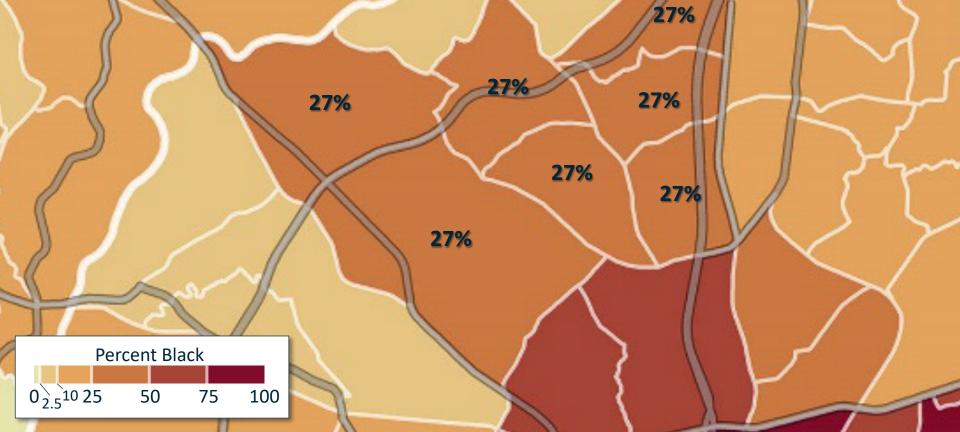
NHGIS delivers standardized statistics with two decimal digits of precision in order to reduce the size of rounding errors when users sum estimates. Rounding errors may still

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NHGIS estimates

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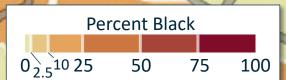
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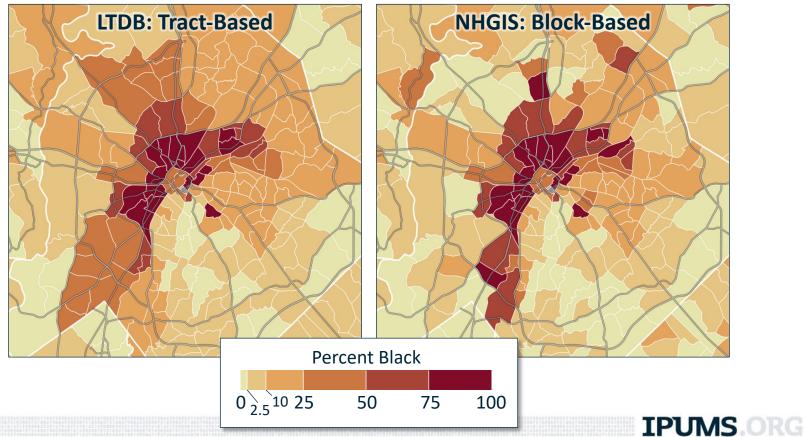
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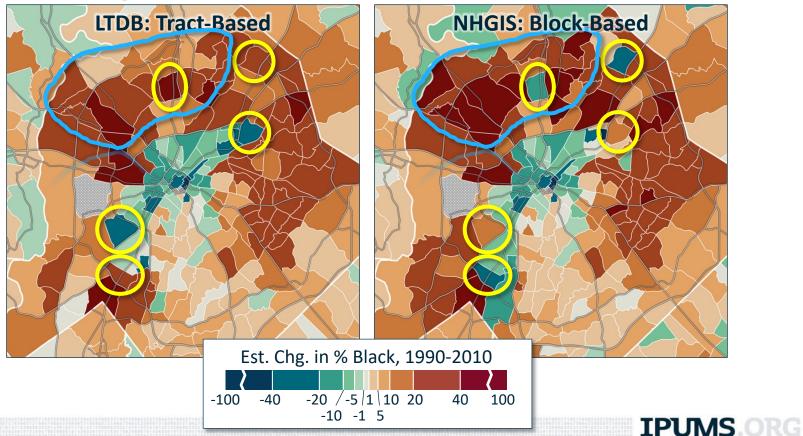




1990 Percent Black in 2010 Tracts



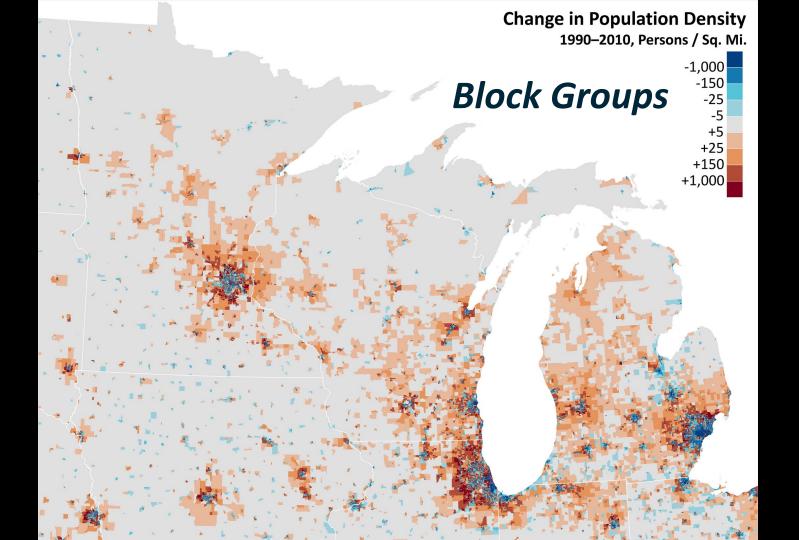
Change in Percent Black, 1990-2010

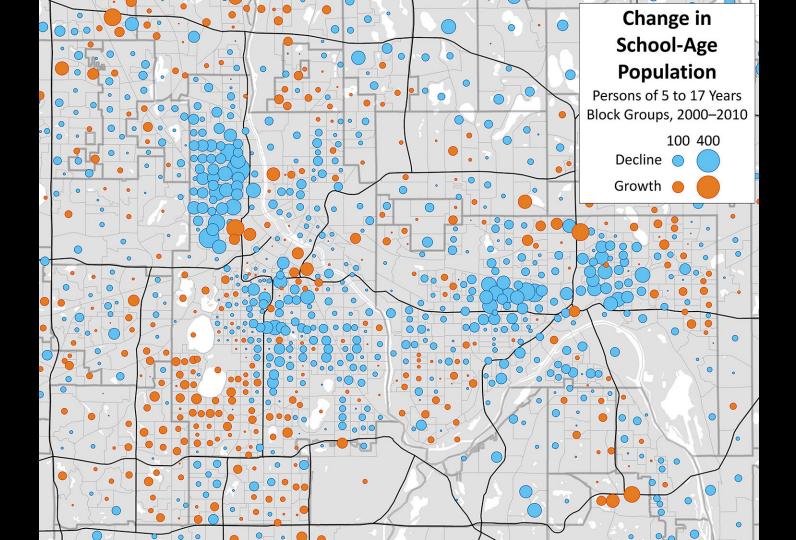


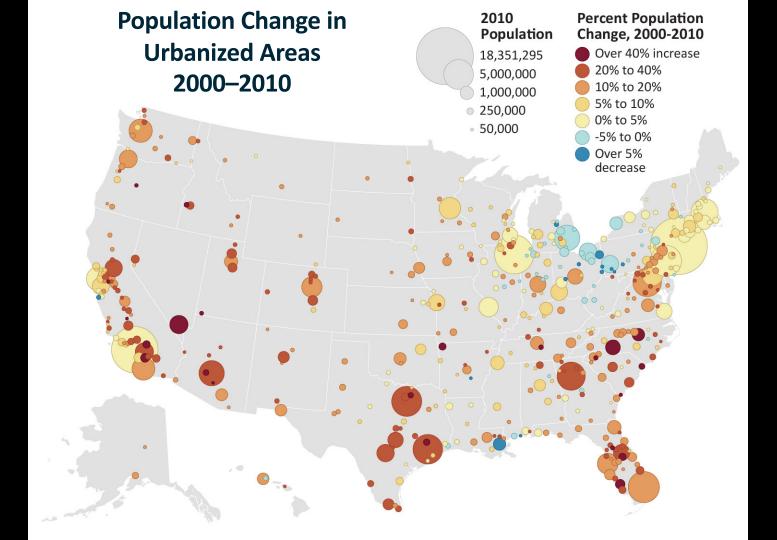
Geographically standardized time series

- 1990, 2000 & 2010 data for 2010 units
- 10 geographic levels: states, counties, tracts, block groups, county subdivisions, places, congressional districts, CBSAs, urban areas, ZCTAs
- ~1,600 time series in 109 tables
- "Short-form" counts only
 - Race, ethnicity, age, sex, household size & relationships, housing occupancy & tenure
 - Not income, education, employment, ...









Nominally integrated time series

- ~5,700 time series in 271 tables
- 8 geographic levels: nation, regions, divisions, states, counties, tracts, county subdivisions, places
- Years mainly in 1970-2010 range
 - Total Population back to 1790 & Persons by Sex back to 1820
 - "Long-form" tables use 2008-2012 ACS



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