

U.S. Department of Commerce  
U.S. Census Bureau

**EXHIBIT**

**D**

Table 1. APPORTIONMENT POPULATION AND NUMBER OF REPRESENTATIVES BY STATE: 2020 CENSUS

STATE	APPORTIONMENT POPULATION (APRIL 1, 2020)	NUMBER OF APPORTIONED REPRESENTATIVES BASED ON 2020 CENSUS <sup>2</sup>	CHANGE FROM 2010 CENSUS APPORTIONMENT
Alabama	5,030,053	7	0
Alaska	736,081	1	0
Arizona	7,158,923	9	0
Arkansas	3,013,756	4	0
California	39,576,757	52	-1
Colorado	5,782,171	8	1
Connecticut	3,608,298	5	0
Delaware	990,837	1	0
Florida	21,570,527	28	1
Georgia	10,725,274	14	0
Hawaii	1,460,137	2	0
Idaho	1,841,377	2	0
Illinois	12,822,739	17	-1
Indiana	6,790,280	9	0
Iowa	3,192,406	4	0
Kansas	2,940,865	4	0
Kentucky	4,509,342	6	0
Louisiana	4,661,468	6	0
Maine	1,363,582	2	0
Maryland	6,185,278	8	0
Massachusetts	7,033,469	9	0
Michigan	10,084,442	13	-1
Minnesota	5,709,752	8	0
Mississippi	2,963,914	4	0
Missouri	6,160,281	8	0
Montana	1,085,407	2	1
Nebraska	1,963,333	3	0
Nevada	3,108,462	4	0
New Hampshire	1,379,089	2	0
New Jersey	9,294,493	12	0
New Mexico	2,120,220	3	0
New York	20,215,751	26	-1
North Carolina	10,453,948	14	1
North Dakota	779,702	1	0
Ohio	11,808,848	15	-1
Oklahoma	3,963,516	5	0
Oregon	4,241,500	6	1
Pennsylvania	13,011,844	17	-1
Rhode Island	1,098,163	2	0
South Carolina	5,124,712	7	0
South Dakota	887,770	1	0
Tennessee	6,916,897	9	0
Texas	29,183,290	38	2
Utah	3,275,252	4	0
Vermont	643,503	1	0
Virginia	8,654,542	11	0
Washington	7,715,946	10	0
West Virginia	1,795,045	2	-1
Wisconsin	5,897,473	8	0
Wyoming	577,719	1	0
TOTAL APPORTIONMENT POPULATION <sup>1</sup>	331,108,434	435	

<sup>1</sup> Includes the resident population for the 50 states, as ascertained by the Twenty-Fourth Decennial Census under Title 13, United States Code, and counts of U.S. military and federal civilian employees living overseas (and their dependents living with them overseas) allocated to their home state, as reported by the employing federal agencies. The apportionment population excludes the population of the District of Columbia. The counts of overseas personnel (and dependents) are used for apportionment purposes only.

<sup>2</sup> The U.S. Census Bureau prepared these calculations using the existing size of the U.S. House of Representatives (435 members) and the Method of Equal Proportions, as provided for in Title 2, United States Code, Sections 2a and 2b.



Percy Squire <percysquire@gmail.com>

## County totals are included at the bottom of the table

Mark J Salling <m.salling@csuohio.edu>  
To: Percy Squire <percysquire@gmail.com>

Tue, Aug 31, 2021 at 12:05 PM

Hi Percy,

The map below connects Cleveland, Warrenville Heights, Warren and Youngstown (with a break in Geauga County that my software choked on...?).

The population exceeds the target a bit, but one could play with the geography to get closer to the target population.

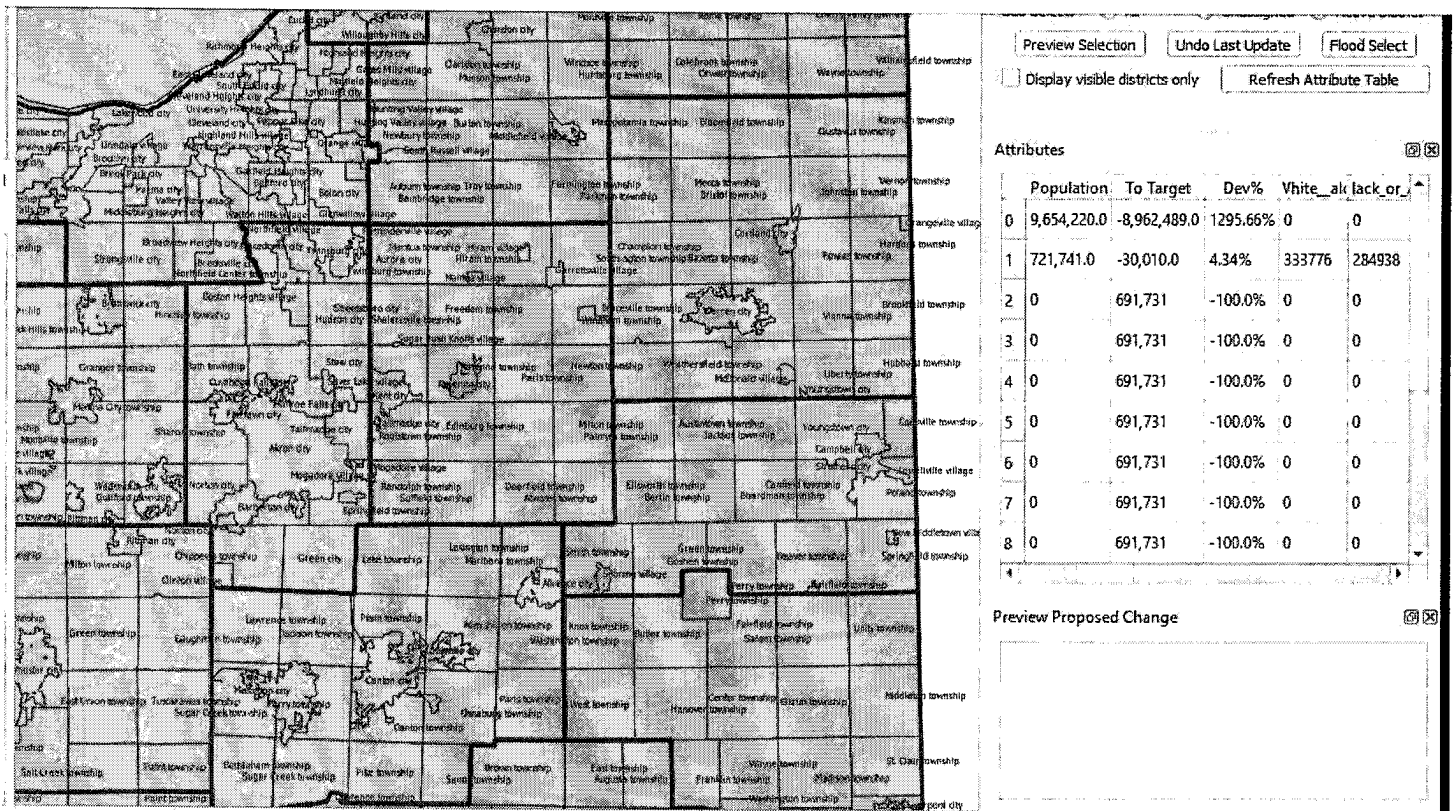
Assuming you are interested in a district with high proportion of AA, I tried to follow a path that generally picks up AA population between the county subdivisions.

The numbers of White, 1 race and AA, 1 race are 333,776 and 284,938, respectively.

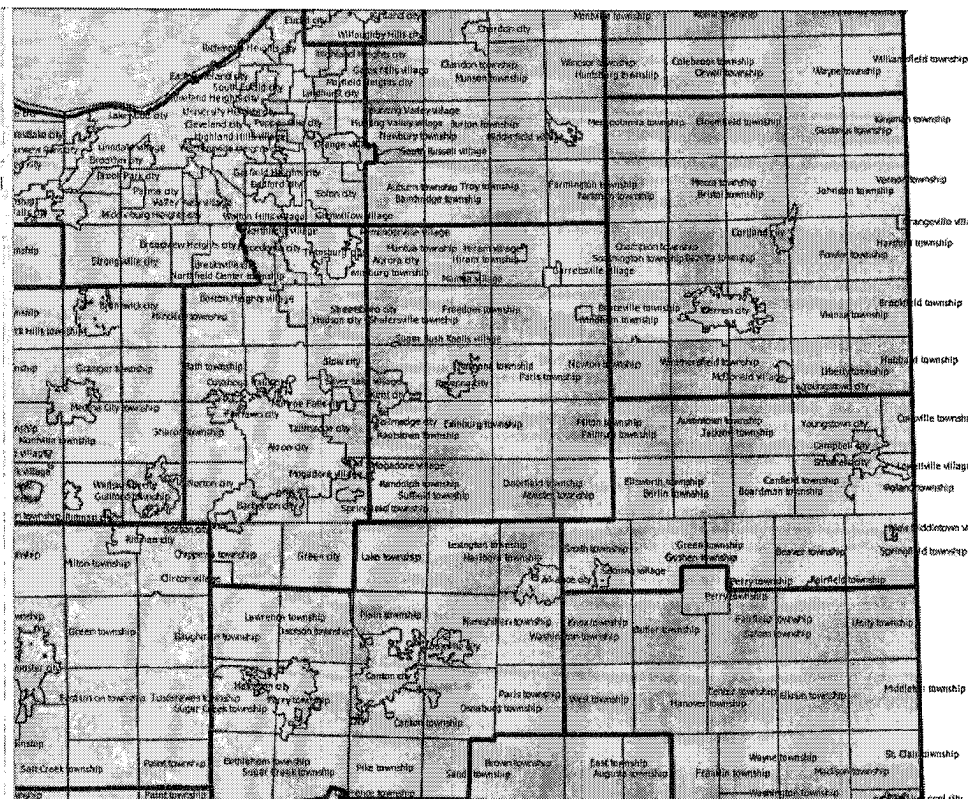
I don't have time to pursue other scenarios...

Best

mark



[Quoted text hidden]



Preview Selection

Undo Last Update

Flood Select

Display visible districts only

Refresh Attribute Table

Attributes

	Population	To Target	Dev%	White	Black or
0	9,654,220.0	-8,962,489.0	1295.66%	0	0
1	721,741.0	-30,010.0	4.34%	333776	284938
2	0	691,731	-100.0%	0	0
3	0	691,731	-100.0%	0	0
4	0	691,731	-100.0%	0	0
5	0	691,731	-100.0%	0	0
6	0	691,731	-100.0%	0	0
7	0	691,731	-100.0%	0	0
8	0	691,731	-100.0%	0	0

Preview Proposed Change

Mark J. Salling, PhD, GISP

Maxine Goodman Levin College of Urban Affairs

Cleveland State University

(216) 687-3716



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PUBLIC SERVICE. LEADERSHIP. CHANGE.

From: Percy Squire <percsquire@gmail.com>

Sent: Monday, August 30, 2021 7:42 AM

To: Mark J Salling <m.salling@csuohio.edu>

Subject: Re: County totals are included at the bottom of the table

CAUTION: This email originated from outside of Cleveland State University! Do not click links, open attachments, or reply, unless you recognize the sender's email address and know the content is safe

Dear Mark : Its my understanding that under the new rules, Cleveland must be contained in a single Congressional district and not split. If Cleveland is its own district ,could a district be formed that includes Youngstown, Warren and Warrensville Heights?

On Fri, Aug 20, 2021 at 5:17 PM Mark J Salling <m.salling@csuohio.edu> wrote:

You are welcome.

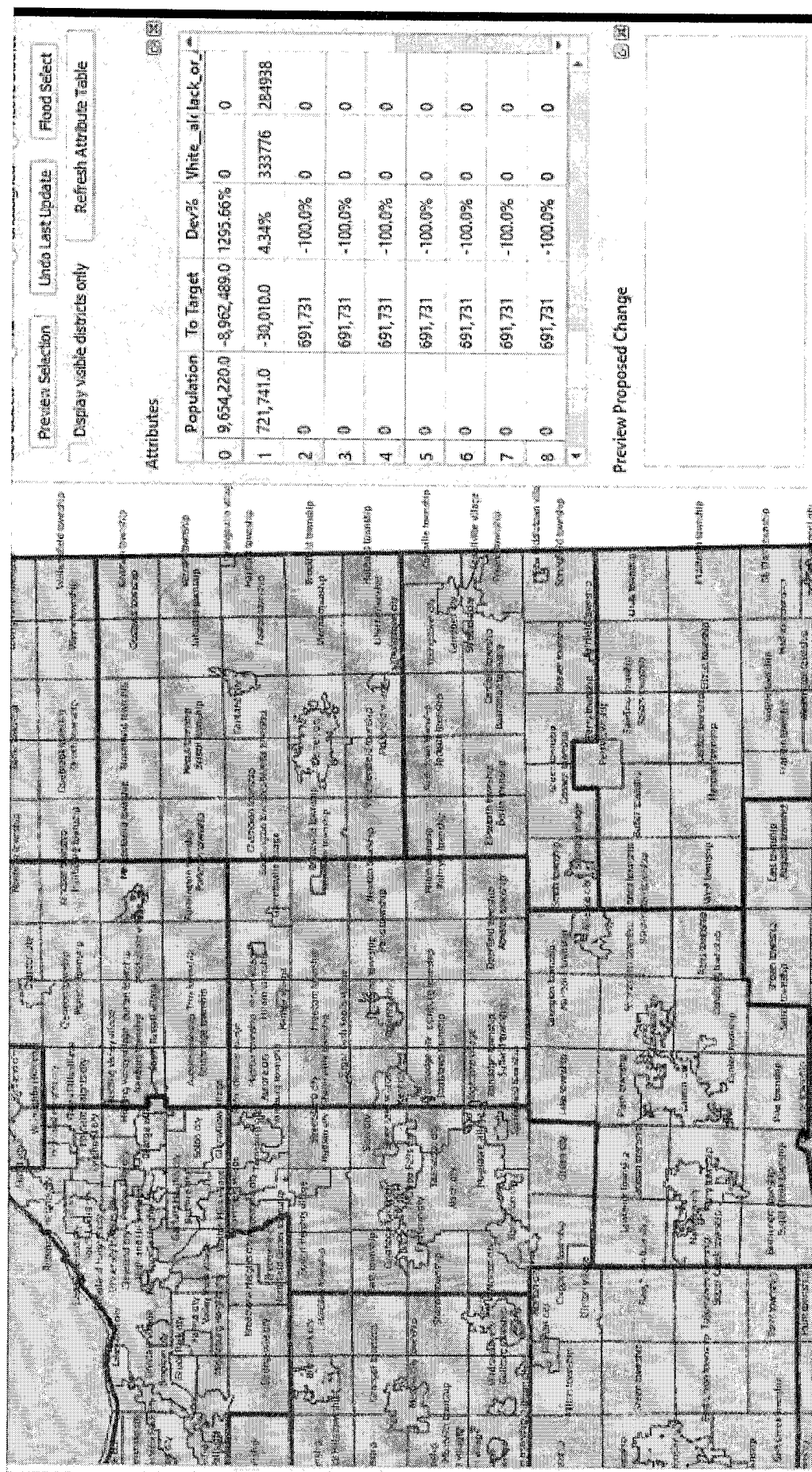
FYI, my recent publication is at <https://www.urisa.org/redistricting-guide>

mark

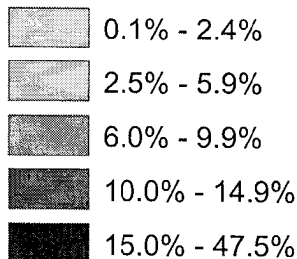
Mark J. Salling, PhD, GISP

Maxine Goodman Levin College of Urban Affairs

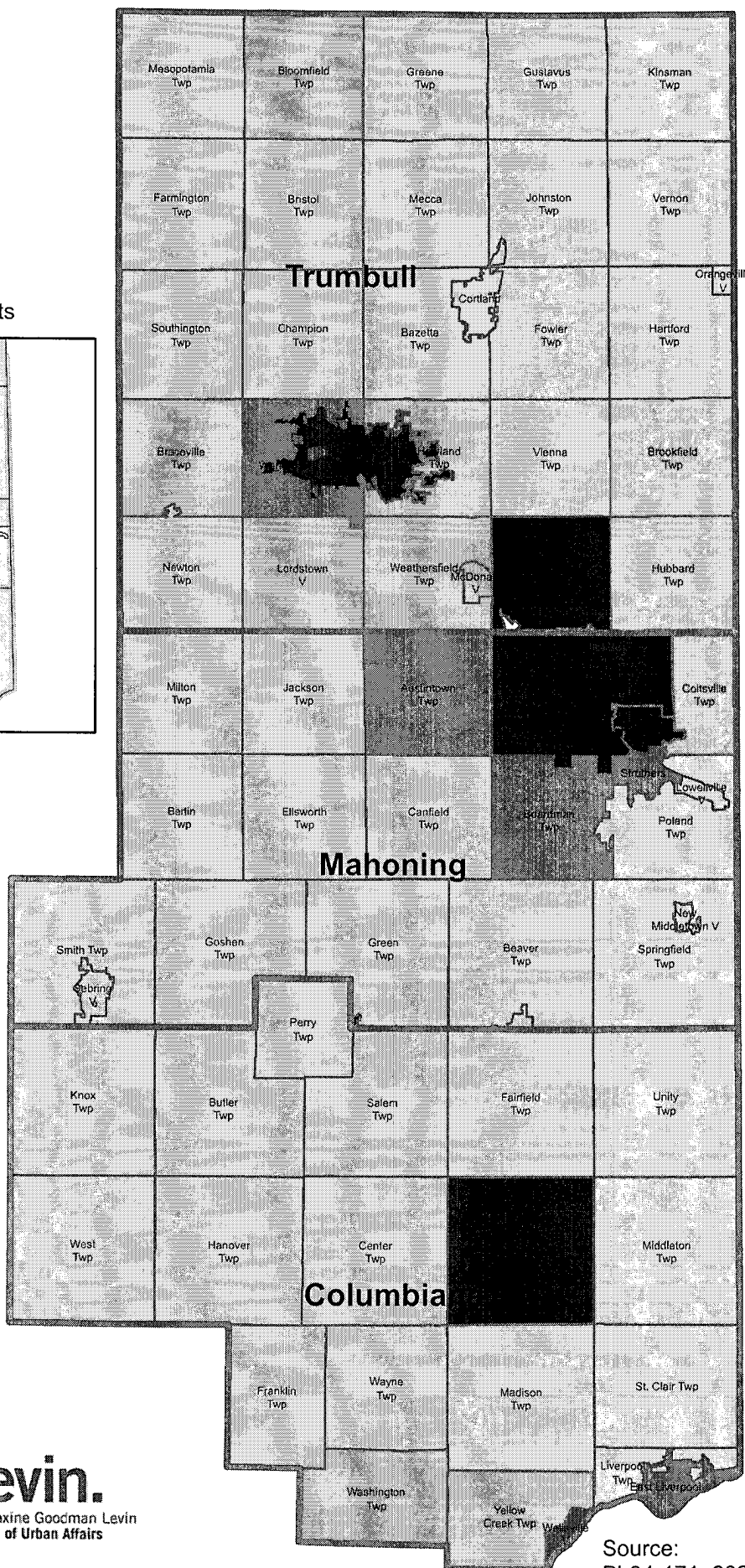
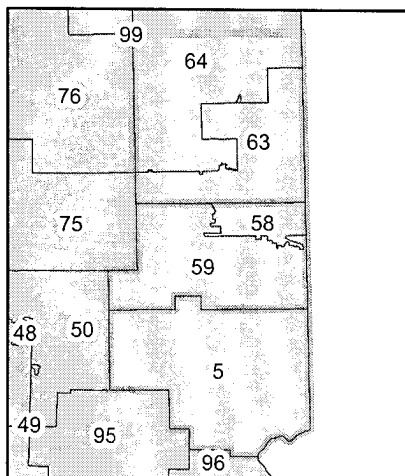
Cleveland State University



# Percent African American (all race combinations)



Current House Districts



Prepared by

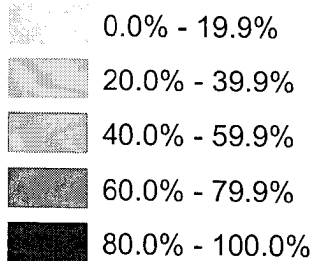


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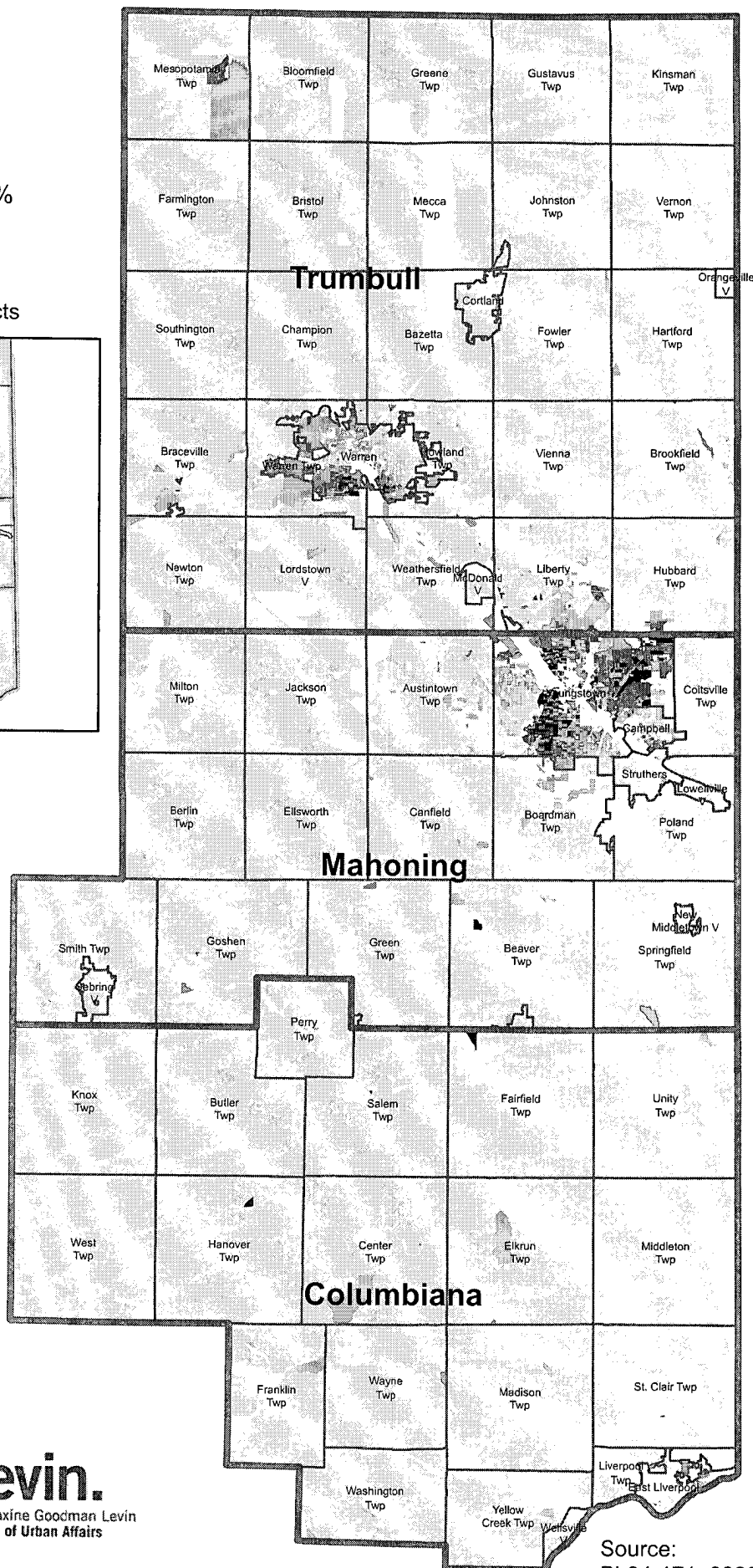
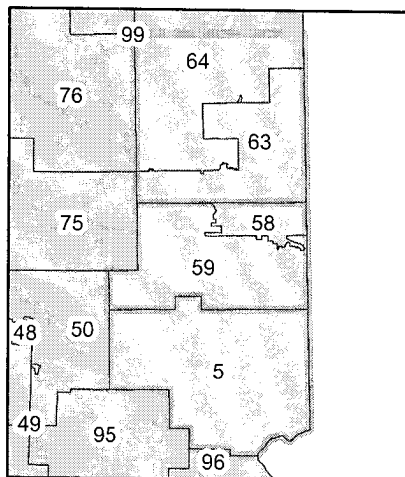
August 20, 2021 mjs

Source:  
PL94-171, 2020 Census of Population,  
U.S. Census Bureau



By Census Block

Current House Districts



Prepared by

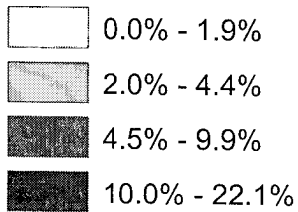


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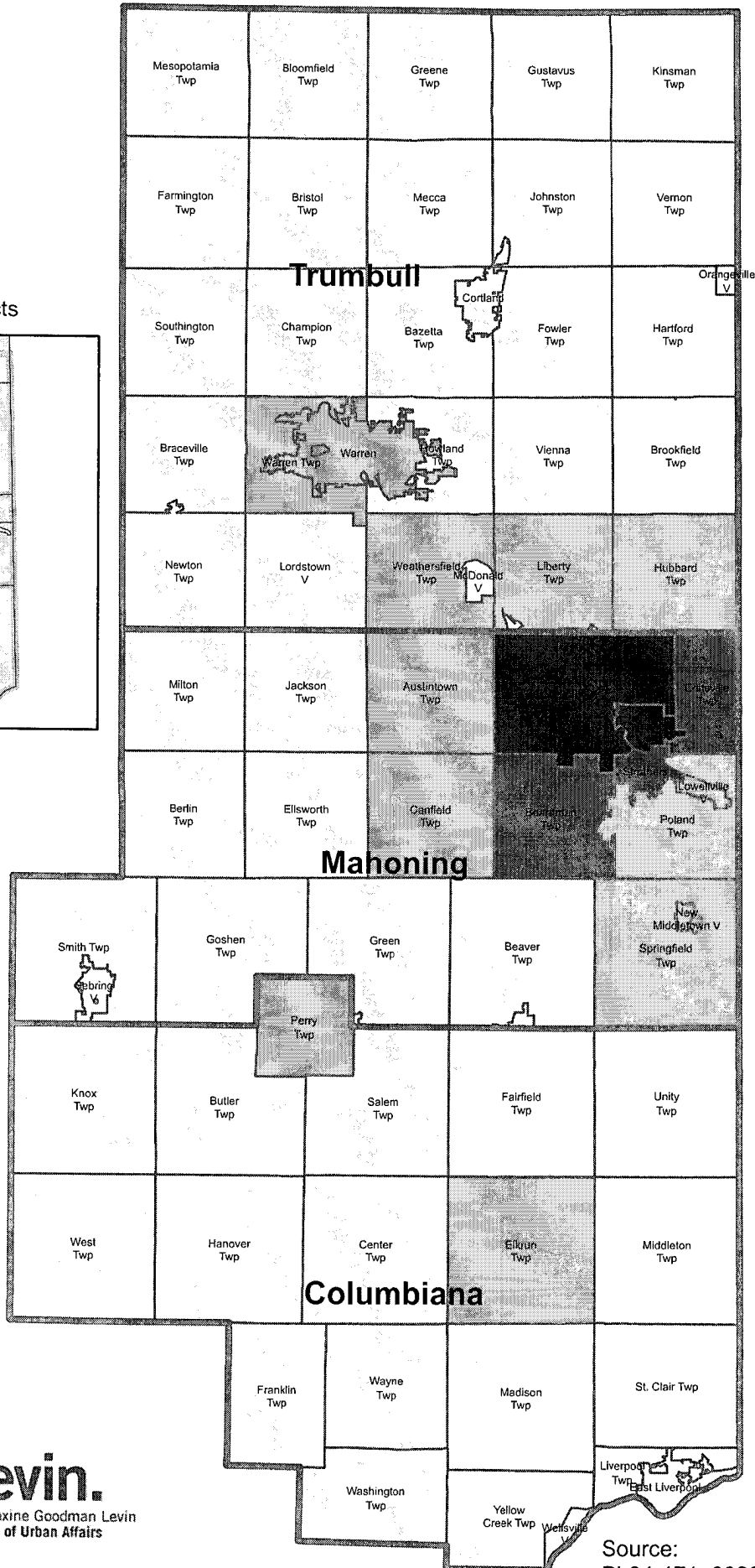
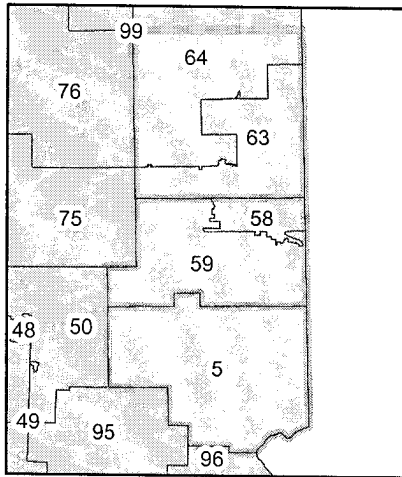
August 20, 2021 mjs

Source:  
 PL94-171, 2020 Census of Population,  
 U.S. Census Bureau

# Percent Hispanic/Latino



Current House Districts



Prepared by



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August 20, 2021 mjs

Source:  
PL94-171, 2020 Census of Population,  
U.S. Census Bureau

Source: PL94-171, 2020 Census of Population, Census Bureau

## 2020 Population of County Subdivisions in Columbiana, Mahoning, and Trumbull Counties

COUNTY	NAME	Population	Population of one race	White alone	Black or African American alone	American Indian and Alaska Native alone	Asian alone	Native Hawaiian and Other Pacific Islander alone	Some Other Race alone	Population of two or more races	Black or African American, any combination	Hispanic / Latino	Proportion of 2020 CD	Proportion of 2020 HD	Proportion of SD
Columbiana	Butler Twp.	3,542	3,418	3,381	10	3	3	0	21	124	38	45	0.450%	2.972%	0.991%
Columbiana	Center Twp.	5,793	5,569	5,474	59	5	10	0	21	224	91	60	0.736%	4.860%	1.620%
Columbiana	East Liverpool city	9,958	9,287	8,730	461	30	26	1	39	671	803	124	1.266%	8.355%	2.785%
Columbiana	Elkrun Twp.	4,367	4,305	3,359	908	19	13	0	6	62	918	182	0.555%	3.664%	1.221%
Columbiana	Fairfield Twp.	9,769	9,415	9,304	27	7	40	1	36	354	73	149	1.242%	8.196%	2.732%
Columbiana	Franklin Twp.	735	712	705	4	0	2	0	1	23	5	6	0.093%	0.617%	0.206%
Columbiana	Hanover Twp.	3,459	3,372	3,341	11	5	5	0	10	87	27	24	0.440%	2.902%	0.967%
Columbiana	Knox Twp.	4,068	3,917	3,885	11	2	7	2	10	151	40	38	0.517%	3.413%	1.138%
Columbiana	Liverpool Twp.	3,862	3,720	3,638	34	14	13	2	19	142	65	64	0.491%	3.240%	1.080%
Columbiana	Madison Twp.	2,922	2,833	2,808	13	5	5	0	2	89	29	26	0.371%	2.452%	0.817%
Columbiana	Middletown Twp.	3,359	3,245	3,209	5	12	2	0	17	114	35	24	0.427%	2.818%	0.939%
Columbiana	Perry Twp.	16,318	15,495	14,772	173	167	97	3	283	823	308	627	2.074%	13.691%	4.564%
Columbiana	St. Clair Twp.	7,804	7,502	7,343	51	8	65	1	34	302	116	88	0.992%	6.548%	2.183%
Columbiana	Salem Twp.	5,142	4,970	4,912	12	3	19	1	23	172	34	56	0.654%	4.314%	1.438%
Columbiana	Unity Twp.	9,721	9,311	9,155	52	19	24	5	56	410	94	135	1.236%	8.156%	2.719%
Columbiana	Washington Twp.	2,002	1,903	1,872	23	2	2	0	4	99	49	25	0.255%	1.680%	0.560%
Columbiana	Wayne Twp.	797	773	761	7	4	0	0	1	24	17	2	0.101%	0.669%	0.223%
Columbiana	Wellsville V.	3,113	2,887	2,647	221	6	3	0	10	226	338	22	0.396%	2.612%	0.871%
Columbiana	West Twp.	3,173	3,069	3,034	4	5	8	0	18	104	23	36	0.403%	2.662%	0.887%
Columbiana	Yellow Creek Twp.	1,973	1,870	1,825	36	3	2	0	4	103	54	19	0.251%	1.655%	0.552%
Mahoning	Austintown Twp.	36,049	34,060	30,573	2,878	65	199	22	323	1,989	3,474	1,340	4.583%	30.246%	10.082%
Mahoning	Beaver Twp.	6,756	6,507	6,375	78	7	26	0	21	249	132	83	0.859%	5.668%	1.889%
Mahoning	Berlin Twp.	1,973	1,881	1,873	1	0	1	0	6	92	25	32	0.251%	1.655%	0.552%
Mahoning	Boardman Twp.	40,213	37,912	33,582	3,021	66	735	12	496	2,301	3,737	1,915	5.112%	33.740%	11.247%
Mahoning	Campbell city	7,852	6,929	4,334	1,857	24	17	4	693	923	2163	1,735	0.998%	6.588%	2.196%
Mahoning	Canfield Twp.	16,944	16,252	15,453	196	15	464	0	124	692	285	440	2.154%	14.216%	4.739%
Mahoning	Cottsville Twp.	1,264	1,196	1,114	52	7	0	0	23	68	62	81	0.161%	1.061%	0.354%
Mahoning	Ellsworth Twp.	2,128	2,059	2,045	2	3	2	0	7	69	12	33	0.271%	1.785%	0.595%
Mahoning	Fairfield Twp.	839	825	810	0	0	12	0	2	14	1	15	0.107%	0.704%	0.235%
Mahoning	Goshen Twp.	3,101	2,977	2,917	7	13	15	1	24	124	29	47	0.394%	2.602%	0.867%
Mahoning	Green Twp.	3,414	3,321	3,270	17	2	14	1	17	93	25	59	0.434%	2.864%	0.955%
Mahoning	Jackson Twp.	2,124	2,054	2,030	7	2	5	0	10	70	22	32	0.270%	1.782%	0.594%
Mahoning	Lowellville V.	996	938	924	4	4	0	0	6	58	18	31	0.127%	0.836%	0.279%
Mahoning	Milton Twp.	3,565	3,376	3,339	15	5	16	0	1	189	48	47	0.453%	2.991%	0.997%
Mahoning	New Middletown V.	1,507	1,451	1,440	3	2	4	0	2	56	12	30	0.192%	1.264%	0.421%
Mahoning	Perry Twp.	6	6	4	1	0	1	0	0	0	1	0	0.001%	0.005%	0.002%
Mahoning	Poland Twp.	14,664	14,140	13,883	62	12	111	1	71	524	139	438	1.864%	12.303%	4.101%
Mahoning	Sebring V.	4,191	4,064	4,028	12	5	9	1	9	127	46	37	0.533%	3.516%	1.172%
Mahoning	Smith Twp.	4,097	3,898	3,839	29	5	7	1	17	199	73	59	0.521%	3.437%	1.146%
Mahoning	Springfield Twp.	6,800	6,524	6,393	46	13	26	0	46	276	101	158	0.864%	5.705%	1.902%
Mahoning	Struthers city	10,063	9,372	8,668	475	19	51	6	153	691	681	586	1.279%	8.443%	2.814%
Mahoning	Youngstown city	60,068	55,439	25,827	26,072	258	266	28	2,988	4,629	28,521	6,895	7.636%	50.398%	16.799%
Trumbull	Bazetta Twp.	5,912	5,648	5,509	65	4	45	0	25	264	119	80	0.752%	4.960%	1.653%
Trumbull	Bloomfield Twp.	1,249	1,201	1,174	25	0	0	0	1	48	35	5	0.159%	1.048%	0.349%
Trumbull	Braceville Twp.	2,467	2,345	2,241	64	3	10	0	27	122	76	45	0.314%	2.070%	0.690%
Trumbull	Bristol Twp.	2,704	2,557	2,531	11	0	1	0	14	147	30	32	0.344%	2.269%	0.756%

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Trumbull	Brookfield Twp.	8,447	8,022	7,699	261	8	17	3	34	425	396	106	1.074%	7.087%	2.362%
Trumbull	Champion Twp.	9,381	8,954	8,797	80	11	30	0	36	427	147	125	1.193%	7.871%	2.624%
Trumbull	Cortland city	7,105	6,837	6,639	101	11	52	0	34	268	165	128	0.903%	5.961%	1.987%
Trumbull	Farmington Twp.	2,993	2,920	2,912	5	2	0	0	1	73	28	13	0.380%	2.511%	0.837%
Trumbull	Fowler Twp.	2,360	2,264	2,231	9	2	1	2	19	96	15	26	0.300%	1.980%	0.660%
Trumbull	Greene Twp.	950	920	911	6	0	1	0	2	30	13	8	0.121%	0.977%	0.266%
Trumbull	Gustavus Twp.	834	783	772	4	0	4	0	3	51	11	8	0.106%	0.700%	0.233%
Trumbull	Hartford Twp.	1,861	1,800	1,784	5	4	2	0	5	61	16	27	0.237%	1.561%	0.520%
Trumbull	Howland Twp.	19,042	18,120	16,938	698	41	320	6	97	922	951	354	2.421%	15.977%	5.326%
Trumbull	Hubbard Twp.	12,969	12,424	11,967	311	16	48	1	81	545	408	265	1.649%	10.881%	3.627%
Trumbull	Johnston Twp.	1,739	1,652	1,623	5	1	11	0	12	87	9	24	0.221%	1.459%	0.486%
Trumbull	Kinsman Twp.	1,751	1,677	1,647	8	8	10	0	4	74	29	23	0.223%	1.469%	0.490%
Trumbull	Liberty Twp.	21,514	20,262	16,878	2,943	48	173	1	219	1,252	3,411	758	2.735%	18.051%	6.017%
Trumbull	Lordstown V.	3,332	3,197	3,052	103	8	18	0	16	135	128	55	0.424%	2.796%	0.932%
Trumbull	McDonald V.	3,172	3,020	2,939	57	3	10	0	11	152	78	58	0.403%	2.661%	0.887%
Trumbull	Mecca Twp.	2,319	2,215	2,192	8	8	6	0	1	104	15	19	0.295%	1.946%	0.649%
Trumbull	Mesopotamia Twp.	3,404	3,357	3,320	34	1	1	1	0	47	50	16	0.433%	2.856%	0.952%
Trumbull	Newton Twp.	8,618	8,180	8,028	88	12	14	0	38	438	164	123	1.096%	7.231%	2.410%
Trumbull	Orangeville V.	174	167	165	1	0	0	0	1	7	3	1	0.022%	0.146%	0.049%
Trumbull	Southington Twp.	3,731	3,552	3,499	24	3	12	0	14	179	53	39	0.474%	3.130%	1.043%
Trumbull	Vernon Twp.	1,337	1,282	1,271	2	0	2	0	7	55	10	11	0.170%	1.122%	0.374%
Trumbull	Vienna Twp.	3,978	3,815	3,722	58	0	24	0	11	163	85	53	0.506%	3.338%	1.113%
Trumbull	Warren city	39,201	36,217	24,595	10,944	66	153	10	449	2,984	12,468	1,104	4.983%	32.891%	10.964%
Trumbull	Warren Twp.	4,744	4,411	3,990	367	14	14	1	25	333	453	92	0.603%	3.980%	1.327%
Trumbull	Weathersfield Twp.	24,689	23,234	22,016	913	24	128	1	152	1,455	1,343	581	3.139%	20.715%	6.905%
Trumbull	Youngstown city	0	0	0	0	0	0	0	0	0	0	0	0.000%	0.000%	0.000%
<b>Total</b>		<b>532,468</b>	<b>503,787</b>	<b>437,938</b>	<b>54,157</b>	<b>1,146</b>	<b>3,434</b>	<b>119</b>	<b>6,993</b>	<b>28,681</b>	<b>63,473</b>	<b>20,024</b>	<b>67.690%</b>	<b>446.753%</b>	<b>148.918%</b>
Columbiana		101,877	97,573	94,155	2,122	319	346	16	615	4,304	3,157	1,752	12.951%	85.477%	28.492%
Mahoning		228,614	215,181	172,721	34,835	528	1,981	77	5,039	13,433	39,607	14,093	29.062%	191.812%	63.937%
Trumbull		201,977	191,033	171,062	17,200	299	1,107	26	1,339	10,944	20,709	4,179	25.676%	169.463%	56.488%

