

# 2021 Redistricting: Background



**WYOMING LEGISLATIVE SERVICE OFFICE**

*August 16, 2021*

# Presentation Elements

- Provide basic background (why, how, etc.):
  - Redistricting process, purpose and timing
- Current Legislative Districts (2012)
- Recent population trends and “ideal” House and Senate Districts (single-member, 60 House, 30 Senate)
- GIS
- Census data and 2020 population estimate example plan development



# What is Redistricting? When needed?

- *The process of redrawing the geographic boundaries of an area from which people are elected (not required for U.S. Congress for Wyoming) – “one person, one vote” criteria*
  - *Ensured through districts of nearly equal population (+/- 5% deviation is presumptively constitutional)*
- *State constitution requires Legislature to redraw state legislative districts at the first budget session following the federal census (Wyo. Constitution, Art.3, s.48);*
  - *2020 Census = 2021 Census Data Reporting = 2022 Budget Session Redistricting*



# 2021 Process

- *Management Council assigned redistricting to Joint Corporations Committee, established initial guidance*
  - *Wanted initial public input and process plan from Joint Corporations prior to March session (Census data release delay made this unnecessary)*
  - *MC guidelines include Committee's management of staff resources throughout redistricting process*
- *Adoption of core redistricting principles was left to the Joint Corporations Committee (seven principles adopted in 2011)*





# 2010 and 2020 Census Metrics

## Wyoming 2010

Self-Response: 56.5%

Non-Response requ.

*Follow-up:* 42.8%

Administrative Records:

Not used

Unresolved: 0.9%

## Wyoming 2020

### (+/- Change)

Self-Response: 59.7% (+3.2)

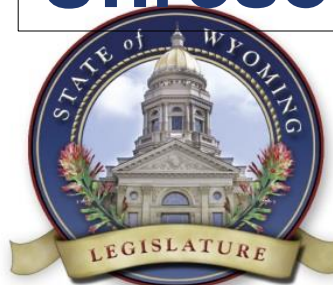
Non-Response requ.

*Follow-up:* 38.9% (-3.9)

Administrative Records: 4.5%

(+4.5)

Unresolved: 0.5% (-0.4)



# Wyoming and Surrounding States

## – *Apportionment\* Population*

State	2020	2010	Count Change 2010-2020	Percent (%) Change 2010 - 2020
Colorado	5,782,171	5,044,930	737,241	14.61%
Idaho	1,841,377	1,573,499	267,878	17.02%
Montana	1,085,407	994,416	90,991	9.15%
Nebraska	1,963,333	1,831,825	131,508	7.18%
North Dakota	779,702	675,905	103,797	15.36%
South Dakota	887,770	819,761	68,009	8.30%
Utah	3,275,252	2,770,765	504,487	18.21%
Surrounding States	15,615,012	13,711,101	1,903,911	13.89%
Wyoming	577,719	568,300	9,419	1.66%
<b>U.S. Total</b>	<b>331,108,434</b>	<b>309,183,463</b>	<b>21,924,971</b>	<b>7.09%</b>

\* Apportionment population includes the overseas population for the state. The state resident population (576,851) will be used for redistricting.

# Current Districts

- *Adopted 2012 (2012 HB 32, HEA 8, Chapter 8)*
- *60 single-member House Districts*
- *30 single-member Senate Districts*
- *Two House Districts **nested** into one Senate district*
- *Adopted within max. population deviation of 10% (+/- 5% from ideal population level)*
- *State Constitution requires House to be at least twice, but not more than three times, size of Senate (Article 3, Section 3)*



# 2000, 2010 & 2020 State Pop.

- **Census Statewide Resident\* Pop.:**
  - 2000 = 493,782
  - 2010 = 563,626
  - 2020 = 576,851
  - No official count for 2020 released below statewide apportionment population
  - May 2021 Census Population **Estimate**: 582,328 (diff: 5,477 people)
- **Ideal Population (60 House and 30 Senate seats, single-member districts):**
  - 2000 = 8,230 per House District; 16,459 per Senate District
  - 2010 = 9,394 per House District; 18,788 per Senate District
  - 2020 = 9,614 per House District; 19,228 per Senate District
    - 2010 to 2020 = increase of 220 people per House Seat, 440 people per Senate seat

\* 2010 Apportionment population was 568,300 but the resident population of 563,626 for redistricting. The difference is the overseas population for the state.

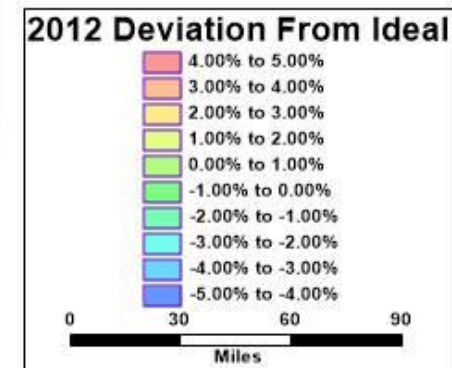
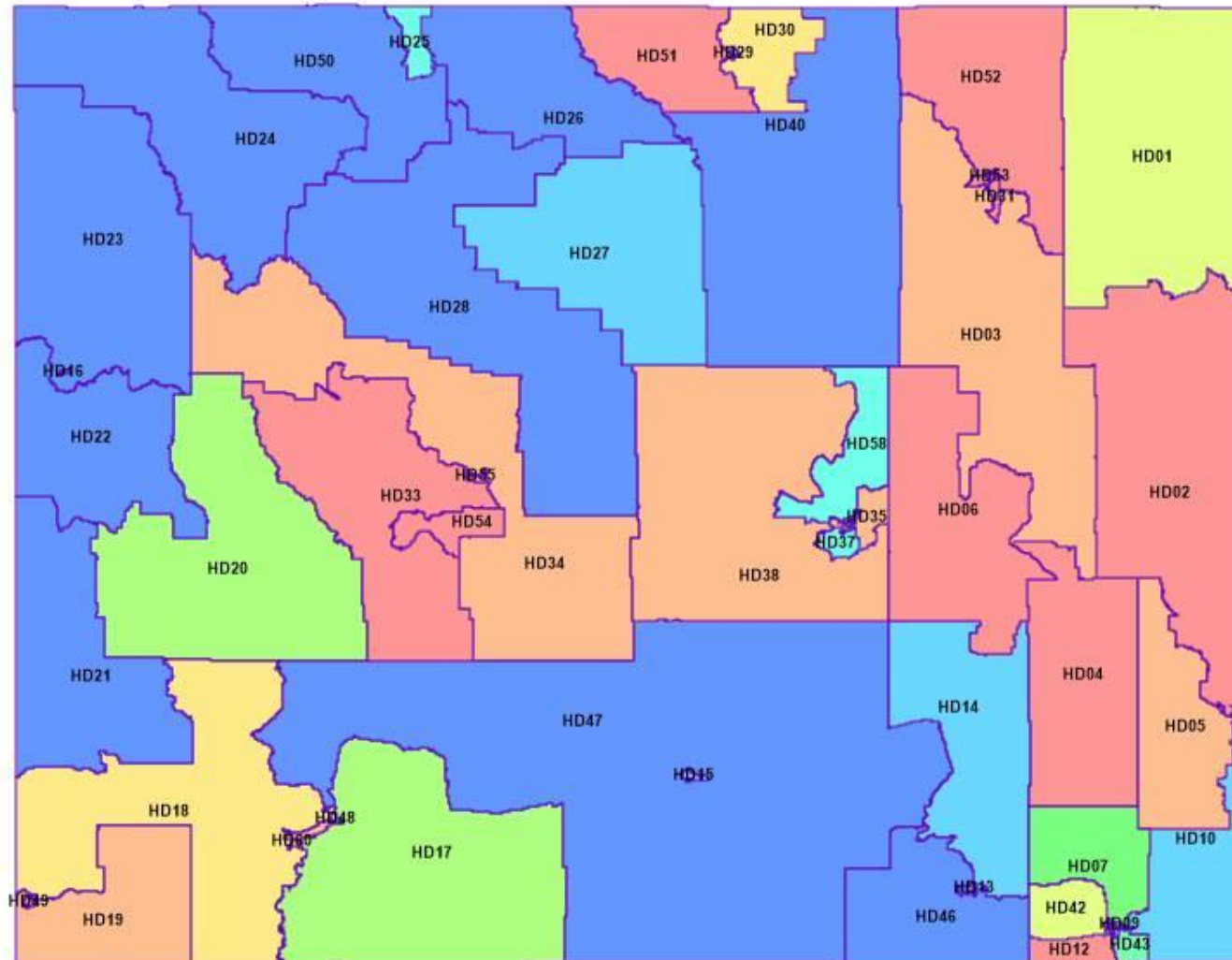


\* 2020 Apportionment population is 577,719 and the resident population is 576,851. The difference is the overseas population for the state.

# Current House Districts - Map

2012 Deviation from Ideal Population:  
Wyoming House Districts

**REVISED**

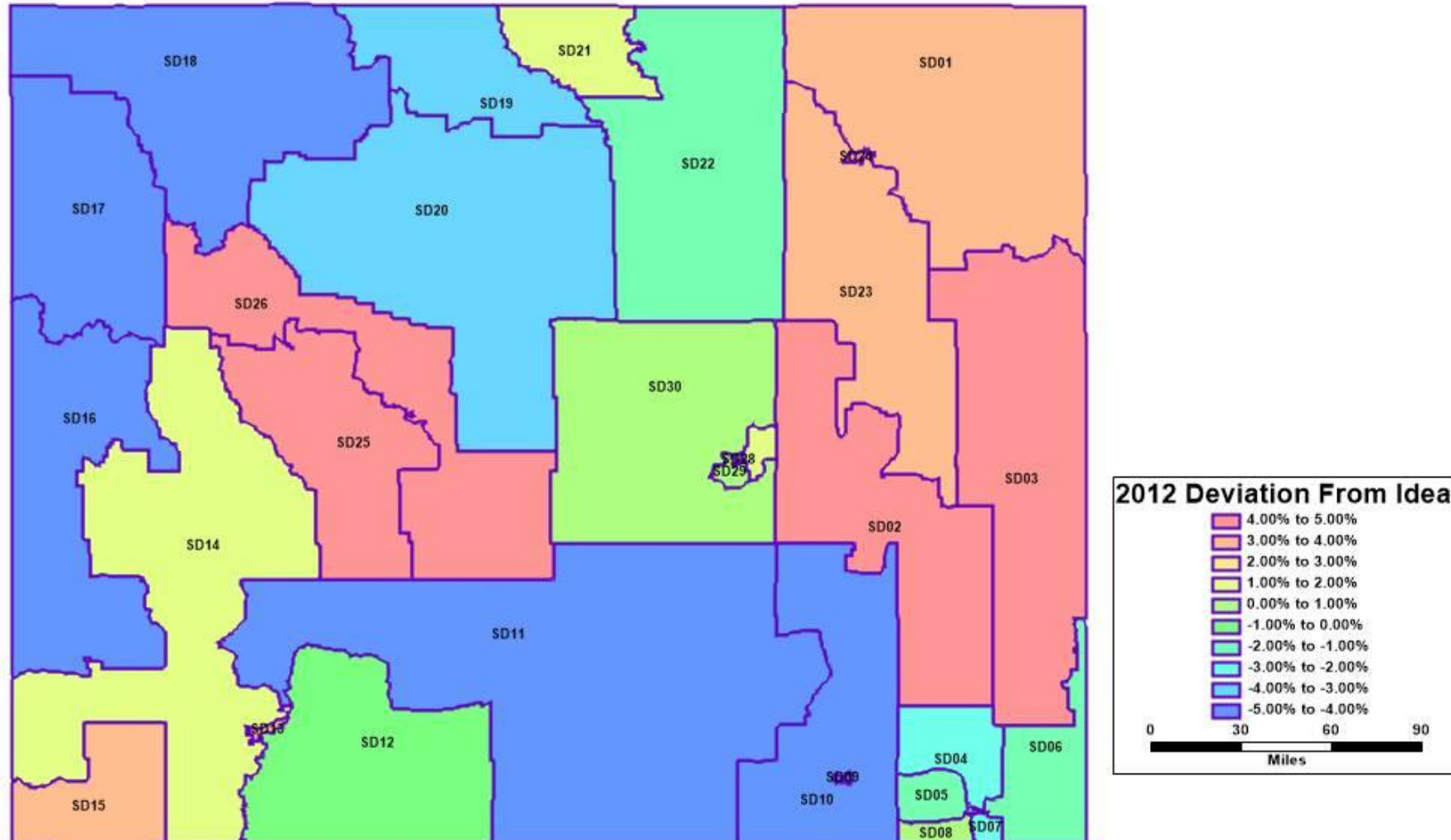




# Current Senate Districts - Map

2012 Deviation from Ideal Population:  
Wyoming Senate Districts

**REVISED**

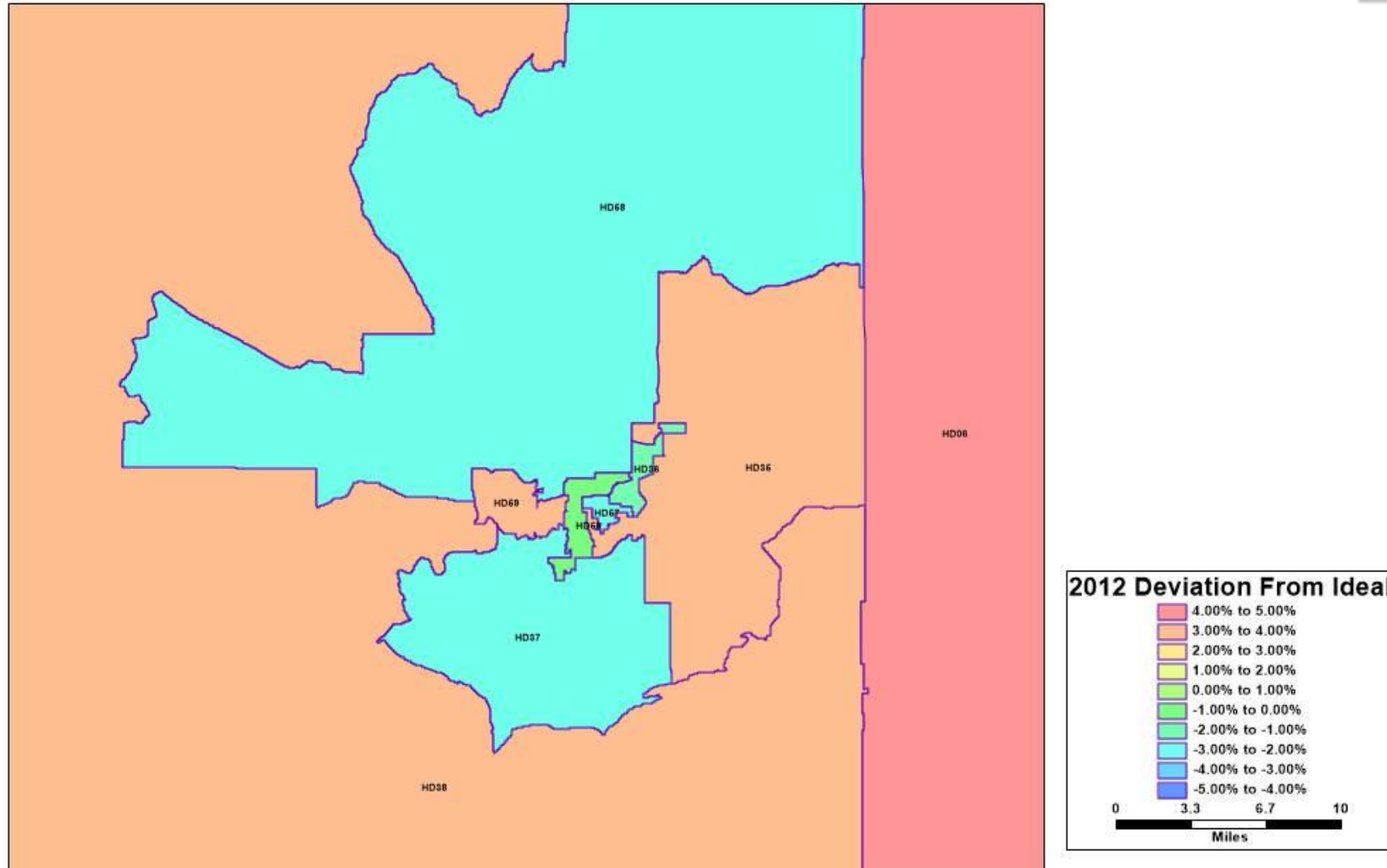




# Current House Districts – Natrona County

2012 Deviation from Ideal Population:  
Wyoming House Districts - Natrona County

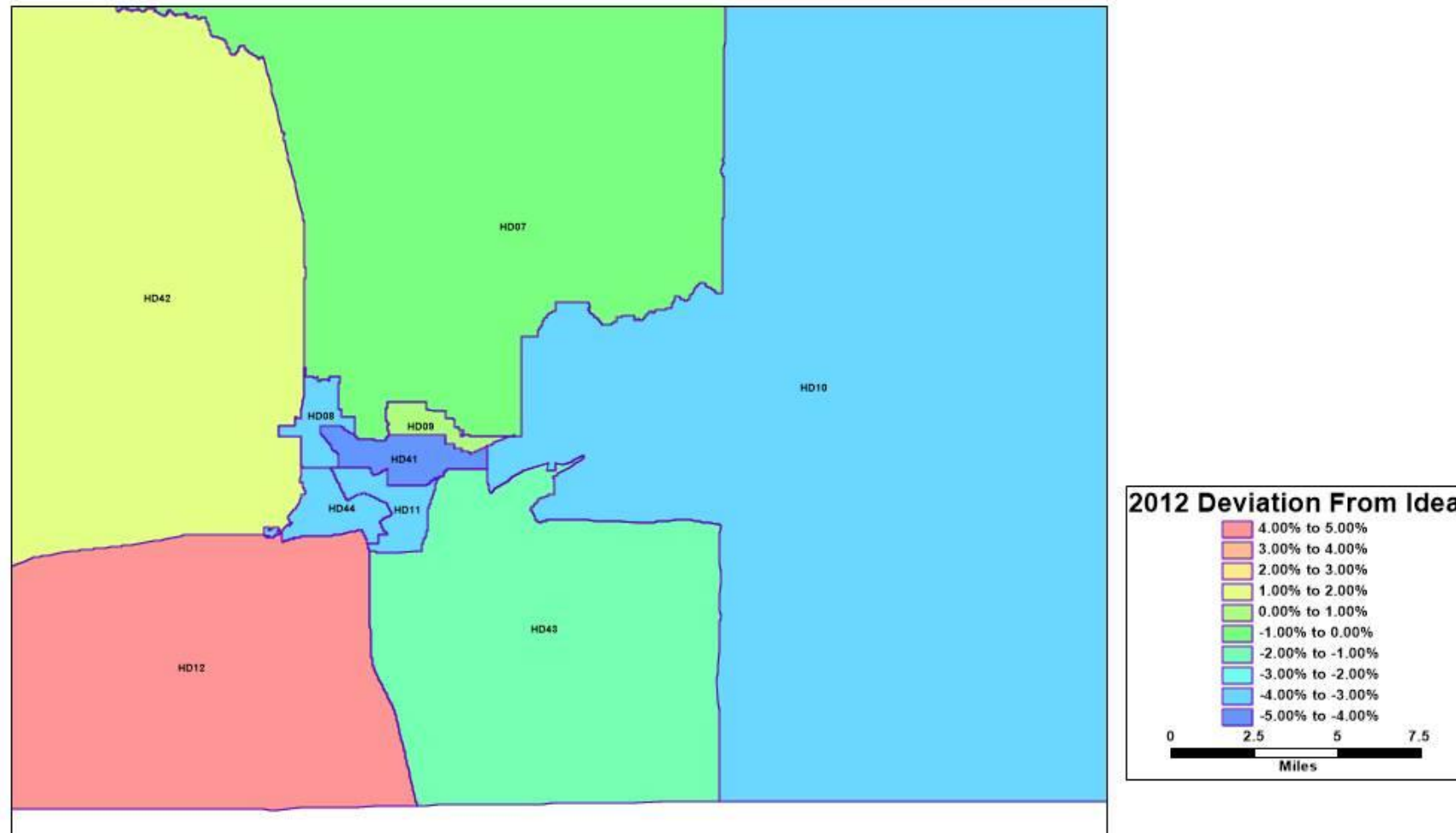
**REVISED**



# Current House Districts – Laramie County

2012 Deviation from Ideal Population:  
Wyoming House Districts - Natrona County

**REVISED**



# Census Geography

- Census Population reporting released at several levels of geography (highest to lowest):
  1. State
  2. **County**
  3. Voting Districts
  4. County Subdivisions
  5. Place (city/town, etc.) or Remainder
  6. **Census Tract**
  7. **Census Block Group**
  8. **Census Block**
- *Red = levels that do not cross county boundaries*



# Census Data Release and Prep

- Census data release not later than August 16, 2021
  - Legacy format requiring more processing prior to redistricting plan development
  - User friendly, integrated data released by Sept. 30, 2021
- GIS software company will help LSO compile legacy data to prepare for initial review and analysis



# Role of Geographic Information System (GIS)

- LSO will use *Maptitude for Redistricting* GIS software (Caliper Corporation; used in 2011 and 2001 WY redistricting)
  - Computer aided mapping
  - Spatial Analysis
  - Combines tabular population data with maps



# Maptitude Mechanics

- User friendly...point and click and drag
- Options for displaying tabular data
- Can copy plans and modify
- Plans are automatically updated and backup files are made as specified by user
- Can be saved at various stages throughout the process as a “snapshot”
- Run reports (e.g.): District contiguity, compactness, unassigned areas, etc.





# Basic of Plan Development in Maptitude

## 1. Map

- Unassigned areas
- New or formed districts

## 2. Tabular Data

## 3. Confirming Districts/Reports

## 4. Finalizing Plans

## 5. Plan Presentation, Bill Draft



# Maptitude Interface

Plan Manager

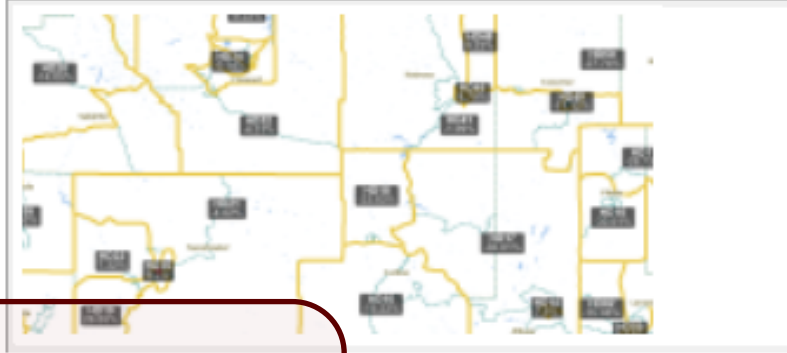
Plans Libraries Templates Plan Sets Reports

Library

Testing-Training

Search Plans

Plan	Created	Modified	Creator	Districts count
2010 Test Plan_20210614	Jun 14 21	Jun 15 21		60
2010 House Districts	Jun 21 21	Jun 21 21		60
2010 HD and SD	Jun 21 21	Jun 21 21		30



New...

Open

Copy

Delete

Move File

Move Up

Move Down

C:\U-Drive Backup\2021 Redistricting\2021 Map Files\Testing\2010 Test Plan\_20210614.rdp

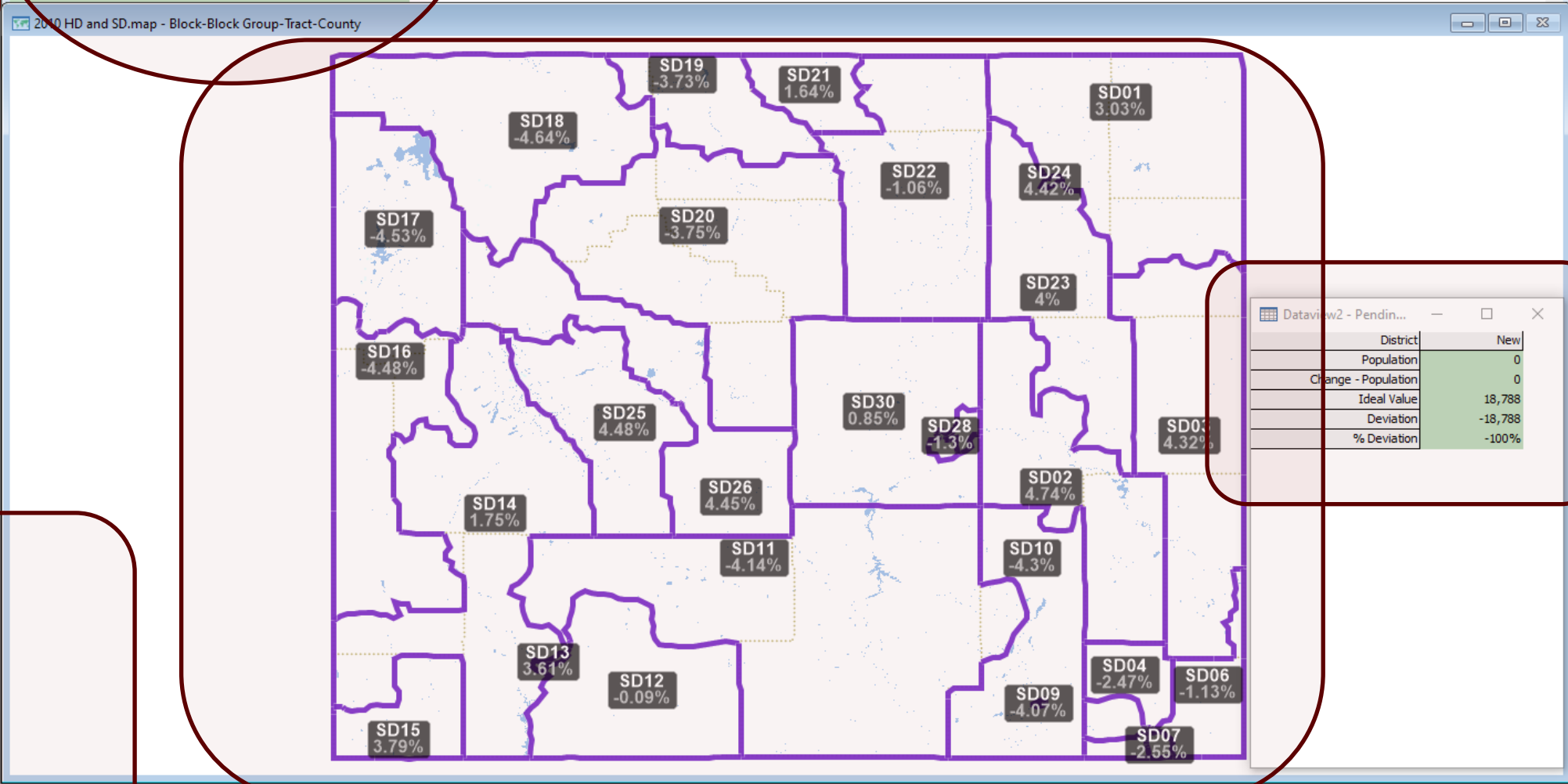
Close

Display Manager

- Water Area
- Streets
- Census Place
- Census Block
- Census Block Group**
- Census Tract
- County
- 2010 House Districts
- 2010 Senate District

Dataview1 - Districts in Plan (30); Maximum (30)

District	Population	Deviation	% Deviation	Compactness
SD01	19358	570	3.03%	1.46
SD02	19678	890	4.74%	1.93
SD03	19599	811	4.32%	1.67
SD04	18323	-465	-2.47%	1.54
SD05	18558	-230	-1.22%	1.34
SD06	18575	-213	-1.13%	1.94
SD07	18308	-480	-2.55%	1.42



Dataview2 - Pending...

District	New
Population	0
Change - Population	0
Ideal Value	18,788
Deviation	-18,788
% Deviation	-100%

Target: New District

Source: All

Selection Layer: County

Theme: None

Map scale: 1 Inch = 39.59092 Miles (1:2,508,481)

# Maptitude Interface (cont.)

# Maptitude Interface

Mapitude for Redistricting (Licensed to Wyoming Legislative Service Office)

File Edit Map Dataview Selection Tools Redistricting Window Help

Display Manager

- Water Area
- Streets
- Census Place
- Census Block
- Census Block Group**
- Census Tract
- County
- 2010 House Districts
- 2010 Senate District

2010 HD and SD.map - Block-Block Group-Tract-County

Dataview2 - Pending Changes (None)

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SD07	18308	-480	-2.55%	1.42
SD08	18839	51	0.27%	1.51
SD09	18024	-764	-4.07%	2.89
SD10	17980	-808	-4.3%	1.84
SD11	18011	-777	-4.14%	1.67
SD12	18772	-16	-0.09%	1.61
SD13	19467	679	3.61%	2.85
SD14	19117	329	1.75%	2.68
SD15	19501	713	3.79%	1.37
SD16	17946	-842	-4.48%	2.13
SD17	17937	-851	-4.53%	1.51
SD18	17917	-871	-4.64%	1.71
SD19	18087	-701	-3.73%	1.79
SD20	18083	-705	-3.75%	1.59
SD21	19097	309	1.64%	1.71
SD22	18588	-200	-1.06%	1.5
SD23	19539	751	4%	2.05
SD24	19618	830	4.42%	2.05
SD25	19629	841	4.48%	1.91
SD26	19625	837	4.45%	2.55
SD27	19026	238	1.27%	1.7
SD28	18544	-244	-1.3%	2.61
SD29	18933	145	0.77%	1.88
SD30	18947	159	0.85%	1.48

Target: Unassigned

Source: All

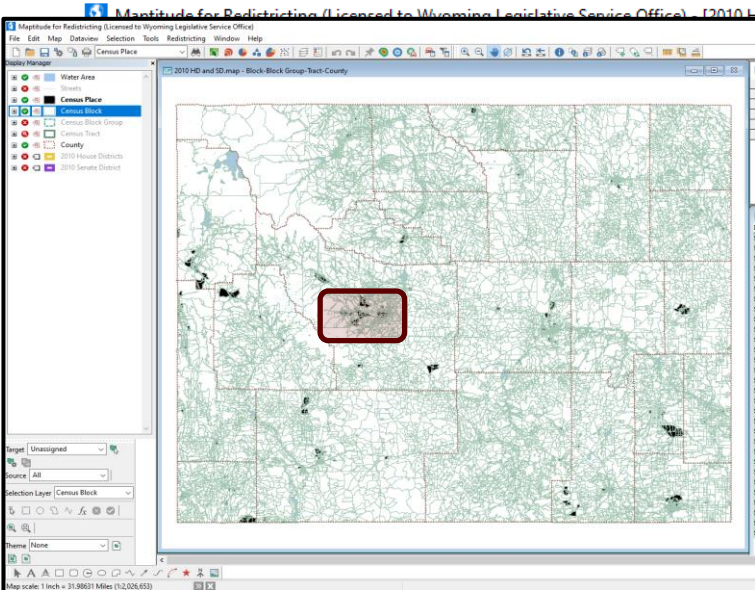
Selection Layer: Census Block

Theme: None

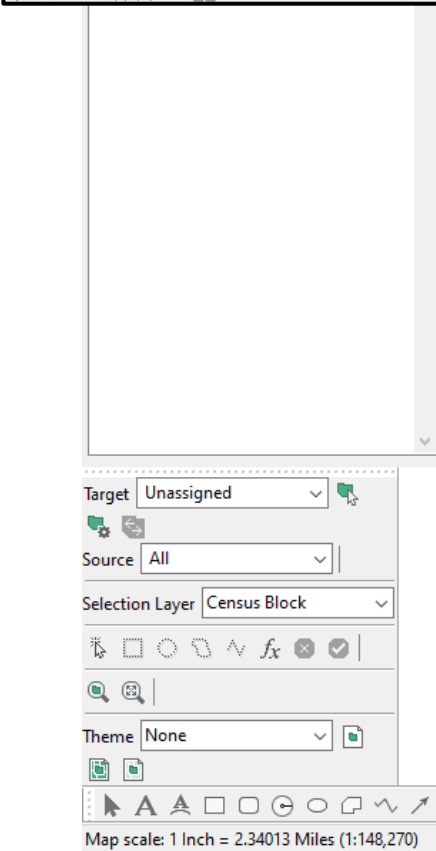
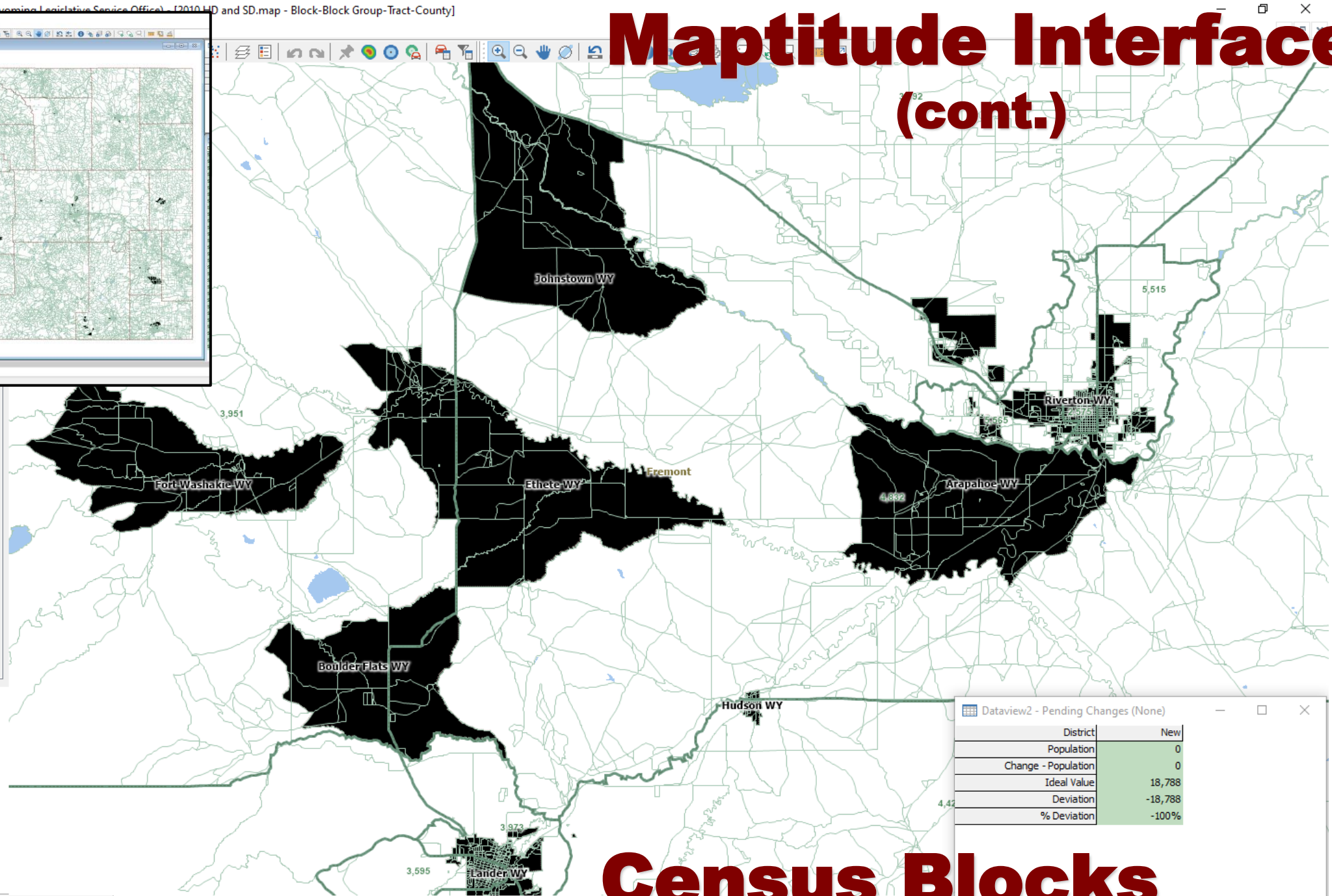
Map scale: 1 Inch = 31.98631 Miles (1:2,026,653)

## Counties and Census "Places"





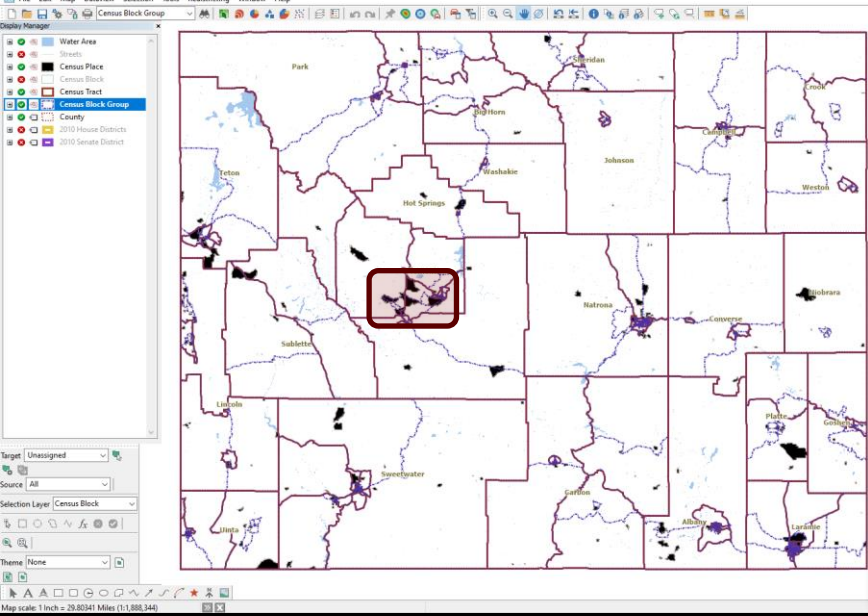
# Maptitude Interface (cont.)



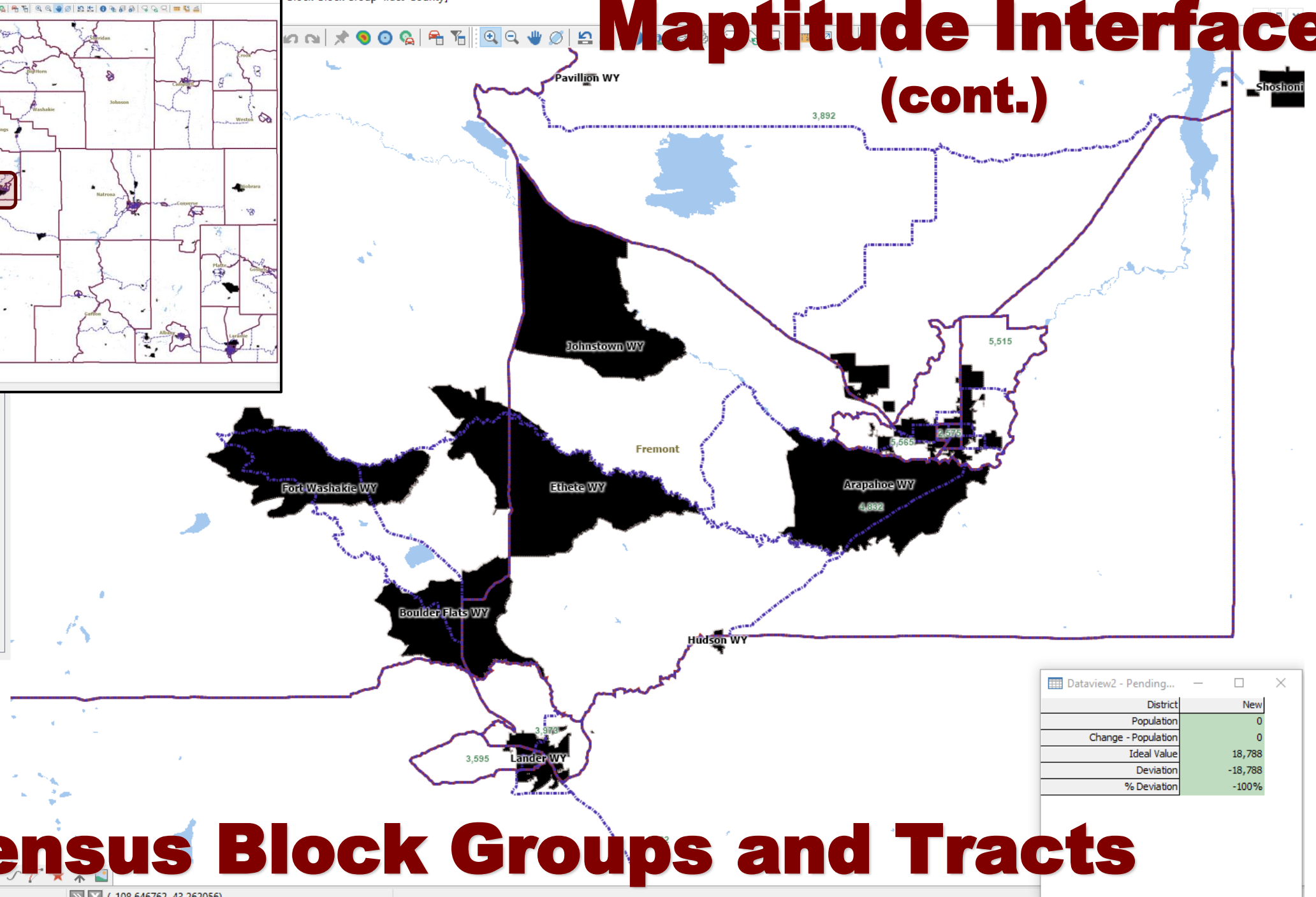
Dataview2 - Pending Changes (None)

District	New
Population	0
Change - Population	0
Ideal Value	18,788
Deviation	-18,788
% Deviation	-100%

# Census Blocks



# Mapitude Interface (cont.)

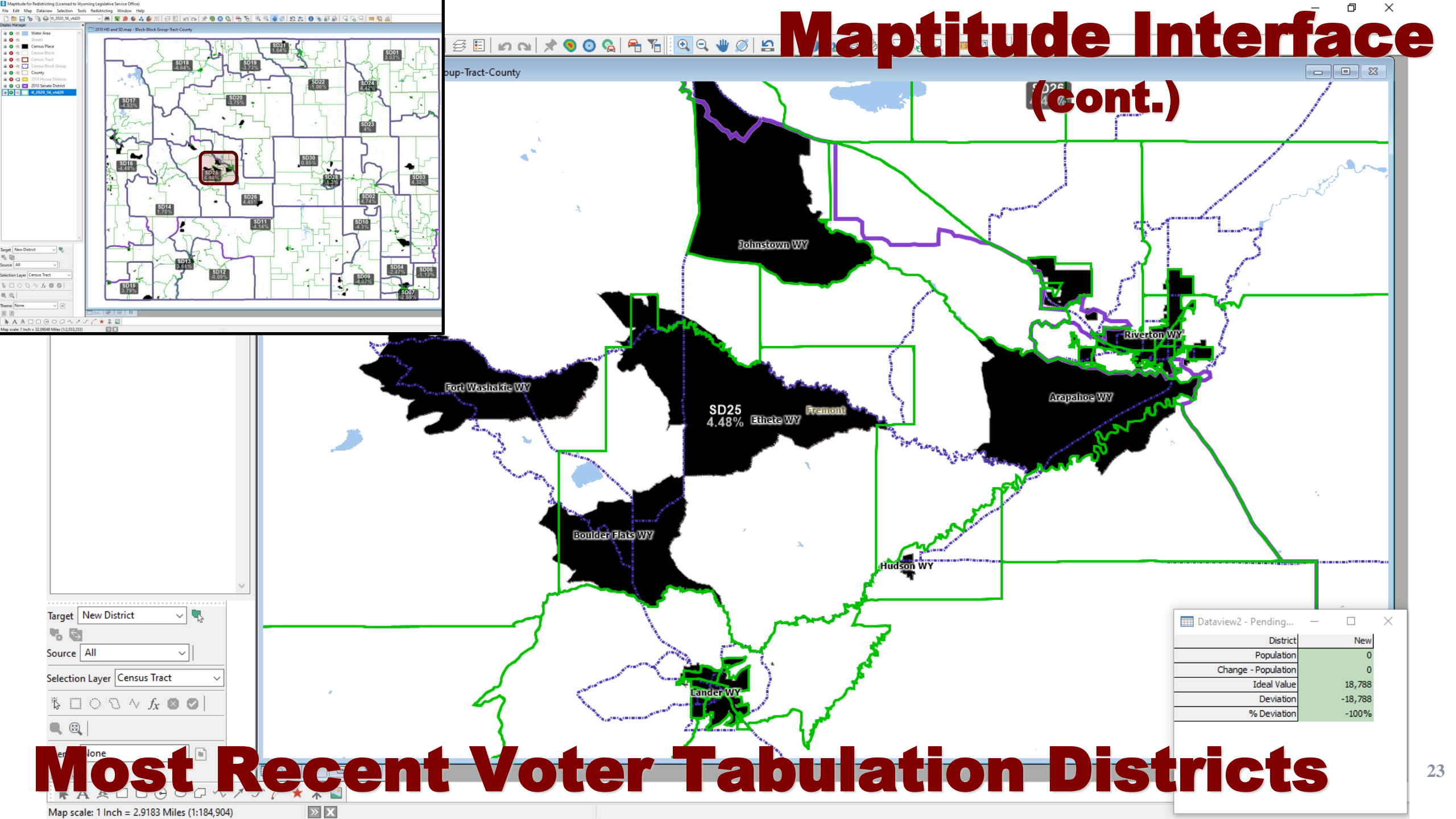


Dataview2 - Pending...

District	New
Population	0
Change - Population	0
Ideal Value	18,788
Deviation	-18,788
% Deviation	-100%

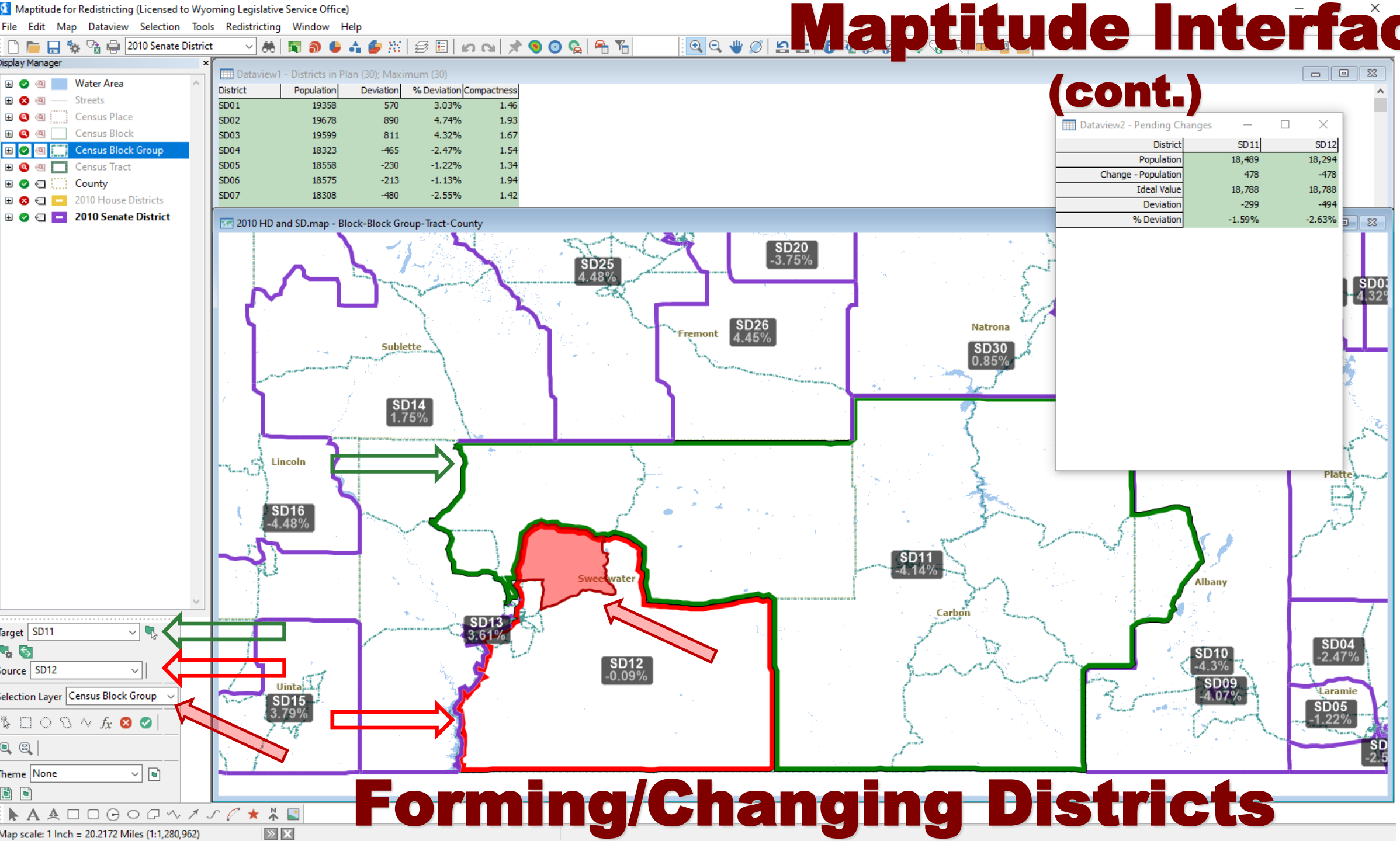
## Census Block Groups and Tracts





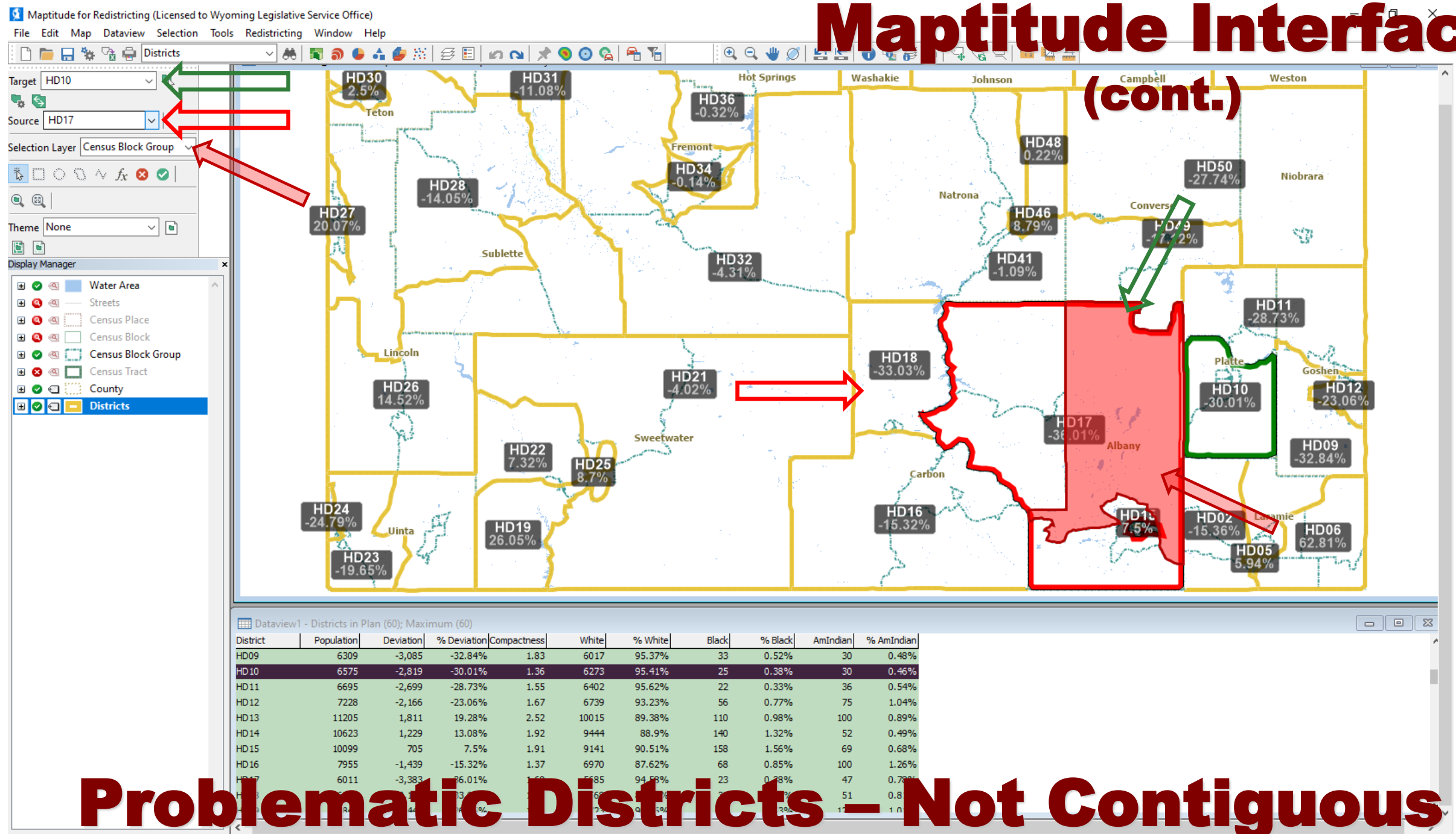
# Mapitude Interface

(cont.)



# Mapitude Interface

(cont.)



Problematic Districts – Not Contiguous

# Maptitude Interface

(cont.)

MapItitude for Redistricting (Licensed to Wyoming Legislative Service Office)

File Edit Map Dataview Selection Tools Redistricting Window Help

Districts

Target HD10

Source HD17

Selection Layer Census Block Group

Theme None

Display Manager

- Water Area
- Streets
- Census Place
- Census Block
- Census Block Group
- Census Tract
- County
- Districts

Redistricting Toolbox

- Pending Changes
- Plan Manager...
- Settings
- Close Plan
- Autodistrict
- Hierarchical Autodistrict
- Ensemble Analysis
- Default Sort Order
- Field Sets...
- Plan Sets...
- Suggest Features...
- Balance Adjacent Districts
- Reports...
- Report Sets...
- Print Map Book
- Back Up Plan
- Snapshots...
- Versioning...
- Plan Integrity
  - Find Unassigned Areas
  - Automatically Assign Unassigned Areas
  - Find Non-Contiguous Areas
- Plan Utilities
  - Travel Contiguity...
  - List Incomplete Districts
  - Verify Boundaries
  - Verify Plan...
- Geographic Utilities
- Login...
- Logout
- Help...

Districts in Plan (60); Maximum (60)

District	Population	Deviation	% Deviation	Compactness	White	% White	Black	% Black	AmIndian	% AmIndian
HD09	6309	-3,085	-32.84%	1.83	6017	95.37%	33	0.52%	30	0.48%
HD10	7619	-1,775	-18.9%	1.99	7273	95.46%	26	0.34%	38	0.5%
HD11	6695	-2,699	-28.73%	1.55	6402	95.62%	22	0.33%	36	0.54%
HD12	7228	-2,166	-23.06%	1.67	6739	93.23%	56	0.77%	75	1.04%
HD13	11205	1,811	19.28%	2.52	10015	89.38%	110	0.98%	100	0.89%
HD14	10623	1,229	13.08%	1.92	9444	88.9%	140	1.32%	52	0.49%
HD15	10099	705	7.5%	1.91	9141	90.51%	158	1.56%	69	0.68%
HD16	7955	-1,439	-15.32%	1.37	6970	87.62%	68	0.85%	100	1.26%
HD17	4967	-4,427	-47.13%	2.48	4685	94.32%	22	0.44%	39	0.79%
HD18	6291	-3,103	-33.03%	1.39	5568	88.51%	39	0.62%	51	0.81%
HD19	11841	2,447	26.05%	1.56	10723	90.56%	63	0.53%	120	1.01%

Non-Contiguous Areas

HD17, Area 1 (2,691.7 sq mi)  
HD17, Area 2 (1,169.9 sq mi)

Show or hide the toolbox for identifying non-contiguous areas in the Districts



# Example Redistricting Geographic Challenges

- **Census Block:** Smallest level of Geography, may use to refine districts but could be labor intensive to district solely at block level (2010 = 86,200 blocks)
- **Voter Tabulation District (VTD):** Corresponds to county designated election precincts
- **Local, regional or partial plans** must be balanced against each other, create potential ripple effects
- **Process/consistent conduit for constituent plan proposals is important**



# 2020 Population Estimates – Closer Look

- May 2021, Census released 2020 population estimates for States, Counties, and Places (cities/towns)
- Wyoming Statewide **Estimate** – 582,328
  - 2020 Statewide Census Pop = 576,851 (resident)
  - Estimate overstates pop by 5,477 compared to Census
- Estimates may still overstate or understate actual populations of counties and places compared to formal redistricting data to be received in August 2021



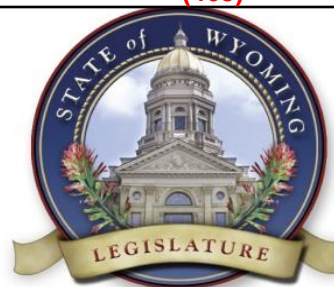


# 2000 to 2020 (est.) Changes - Summary

NAME	County Change 2000-2010	Percent (%) Change 2000- 2010
<b>Wyoming</b>	<b>69,844</b>	<b>14.14%</b>
Albany County	4,285	13.38%
Big Horn County	207	1.81%
Campbell County	12,435	36.90%
Carbon County	246	1.57%
Converse County	1,781	14.78%
Crook County	1,196	20.32%
Fremont County	4,319	12.06%
Goshen County	711	5.67%
Hot Springs County	(70)	-1.43%
Johnson County	1,494	21.12%
Laramie County	10,131	12.41%
Lincoln County	3,533	24.24%
Natrona County	8,917	13.40%
Niobrara County	77	3.20%
Park County	2,419	9.38%
Platte County	(140)	-1.59%
Sheridan County	2,556	9.62%
Sublette County	4,327	73.09%
Sweetwater County	6,193	16.47%
Teton County	3,043	16.67%
Uinta County	1,376	6.97%
Washakie County	244	2.94%
Weston County	564	8.49%

NAME	Count Change 2010- 2020	Percent (%) Change 2010- 2020
<b>Wyoming</b>	<b>18,702</b>	<b>3.32%</b>
Albany County	2,651	7.30%
Big Horn County	(93)	-0.80%
Campbell County	543	1.18%
Carbon County	(1,174)	-7.39%
Converse County	(29)	-0.21%
Crook County	510	7.20%
Fremont County	(806)	-2.01%
Goshen County	(14)	-0.11%
Hot Springs County	(387)	-8.04%
Johnson County	19	0.22%
Laramie County	8,857	9.65%
Lincoln County	2,147	11.86%
Natrona County	5,365	7.11%
Niobrara County	(209)	-8.41%
Park County	1,126	3.99%
Platte County	(89)	-1.03%
Sheridan County	1,747	6.00%
Sublette County	(391)	-3.82%
Sweetwater County	(1,133)	-2.59%
Teton County	2,203	10.35%
Uinta County	(903)	-4.28%
Washakie County	(773)	-9.06%
Weston County	(465)	-6.45%

NAME	County Change 2000-2020	Percent (%) Change 2000-2020
<b>Wyoming</b>	<b>88,546</b>	<b>17.93%</b>
Albany County	6,936	21.67%
Big Horn County	114	0.99%
Campbell County	12,978	38.51%
Carbon County	(928)	-5.93%
Converse County	1,752	14.54%
Crook County	1,706	28.98%
Fremont County	3,513	9.81%
Goshen County	697	5.56%
Hot Springs County	(457)	-9.36%
Johnson County	1,513	21.39%
Laramie County	18,988	23.27%
Lincoln County	5,680	38.98%
Natrona County	14,282	21.47%
Niobrara County	(132)	-5.48%
Park County	3,545	13.75%
Platte County	(229)	-2.60%
Sheridan County	4,303	16.20%
Sublette County	3,936	66.49%
Sweetwater County	5,060	13.45%
Teton County	5,246	28.74%
Uinta County	473	2.40%
Washakie County	(529)	-6.38%
Weston County	99	1.49%



# **REVISED - 2020 Est. v. 2020 Census**

NAME	2020 Population Estimate	2020 Population Official	Official minus Estimate Difference (Count)	Official minus Estimate Difference (%)
<b>Wyoming</b>	<b>582,328</b>	<b>576,851</b>	<b>(5,477)</b>	<b>-0.95%</b>
Albany County	38,950	37,066	(1,884)	-5.08%
Big Horn County	11,575	11,521	(54)	-0.47%
Campbell County	46,676	47,026	350	0.74%
Carbon County	14,711	14,537	(174)	-1.20%
Converse County	13,804	13,751	(53)	-0.39%
Crook County	7,593	7,181	(412)	-5.74%
Fremont County	39,317	39,234	(83)	-0.21%
Goshen County	13,235	12,498	(737)	-5.90%
Hot Springs County	4,425	4,621	196	4.24%
Johnson County	8,588	8,447	(141)	-1.67%
Laramie County	100,595	100,512	(83)	-0.08%
Lincoln County	20,253	19,581	(672)	-3.43%
Natrona County	80,815	79,955	(860)	-1.08%
Niobrara County	2,275	2,467	192	7.78%
Park County	29,331	29,624	293	0.99%
Platte County	8,578	8,605	27	0.31%
Sheridan County	30,863	30,921	58	0.19%
Sublette County	9,856	8,728	(1,128)	-12.92%
Sweetwater County	42,673	42,272	(401)	-0.95%
Teton County	23,497	23,331	(166)	-0.71%
Uinta County	20,215	20,450	235	1.15%
Washakie County	7,760	7,685	(75)	-0.98%
Weston County	6,743	6,838	95	1.39%

# **REVISED – 2020 Official**

## **Population Change - Summary**

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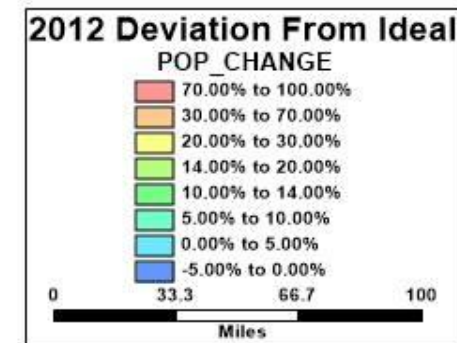
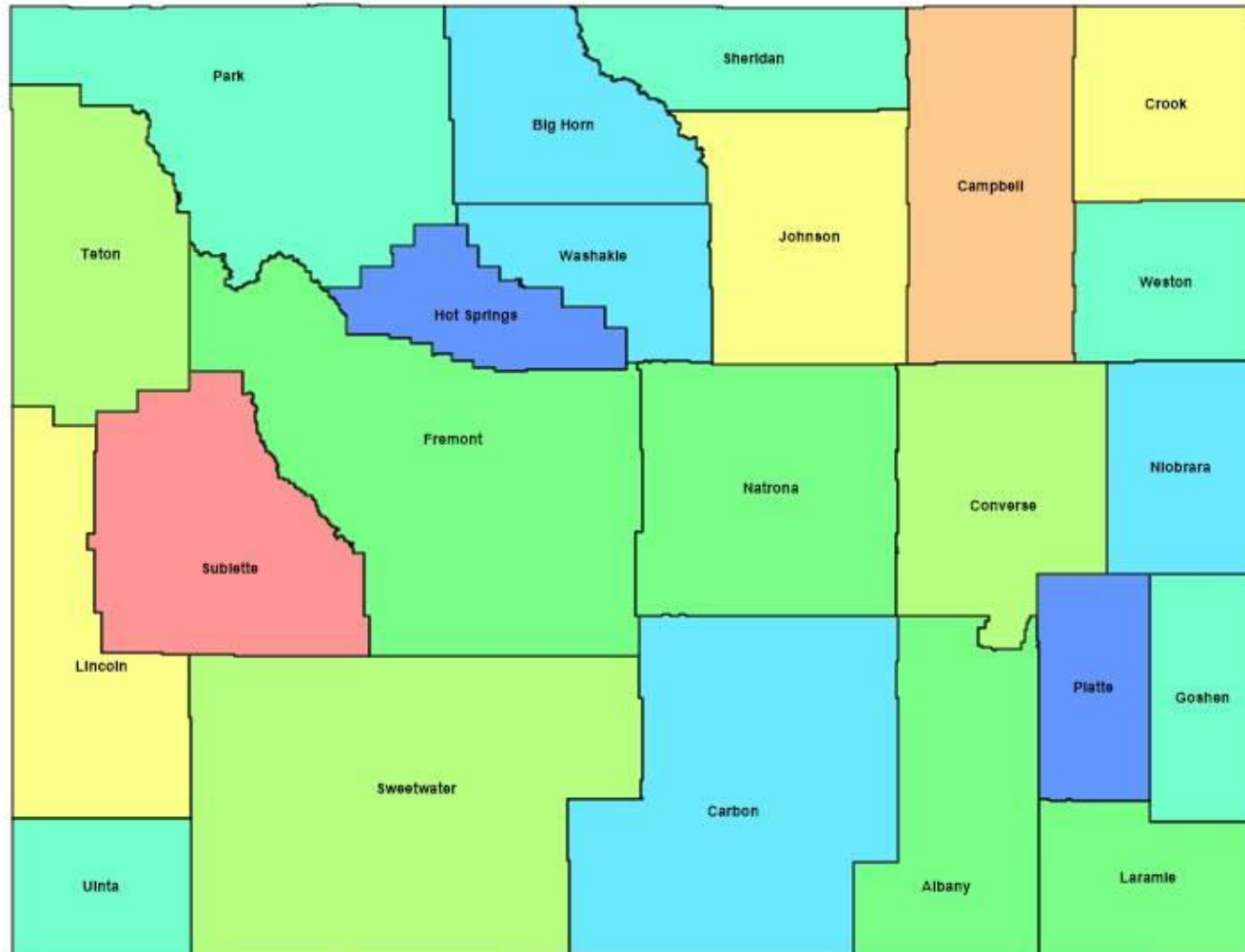
NAME	Count Change 2010-2020 Census	Percent (%) Change 2010-2020
<b>Wyoming</b>	<b>13,225</b>	<b>2.35%</b>
Albany County	767	2.11%
Big Horn County	(147)	-1.26%
Campbell County	893	1.94%
Carbon County	(1,348)	-8.49%
Converse County	(82)	-0.59%
Crook County	98	1.38%
Fremont County	(889)	-2.22%
Goshen County	(751)	-5.67%
Hot Springs County	(191)	-3.97%
Johnson County	(122)	-1.42%
Laramie County	8,774	9.56%
Lincoln County	1,475	8.15%
Natrona County	4,505	5.97%
Niobrara County	(17)	-0.68%
Park County	1,419	5.03%
Platte County	(62)	-0.72%
Sheridan County	1,805	6.20%
Sublette County	(1,519)	-14.82%
Sweetwater County	(1,534)	-3.50%
Teton County	2,037	9.57%
Uinta County	(668)	-3.16%
Washakie County	(848)	-9.94%
Weston County	(370)	-5.13%

NAME	County Change 2000-2020	Percent (%) Change 2000-2020
<b>Wyoming</b>	<b>83,069</b>	<b>16.82%</b>
Albany County	5,052	15.78%
Big Horn County	60	0.52%
Campbell County	13,328	39.55%
Carbon County	(1,102)	-7.05%
Converse County	1,699	14.10%
Crook County	1,294	21.98%
Fremont County	3,430	9.58%
Goshen County	(40)	-0.32%
Hot Springs County	(261)	-5.35%
Johnson County	1,372	19.39%
Laramie County	18,905	23.17%
Lincoln County	5,008	34.36%
Natrona County	13,422	20.17%
Niobrara County	60	2.49%
Park County	3,838	14.88%
Platte County	(202)	-2.29%
Sheridan County	4,361	16.42%
Sublette County	2,808	47.43%
Sweetwater County	4,659	12.39%
Teton County	5,080	27.83%
Uinta County	708	3.59%
Washakie County	(604)	-7.29%
Weston County	194	2.92%

# Wyoming Population Trends, 2000 - 2020

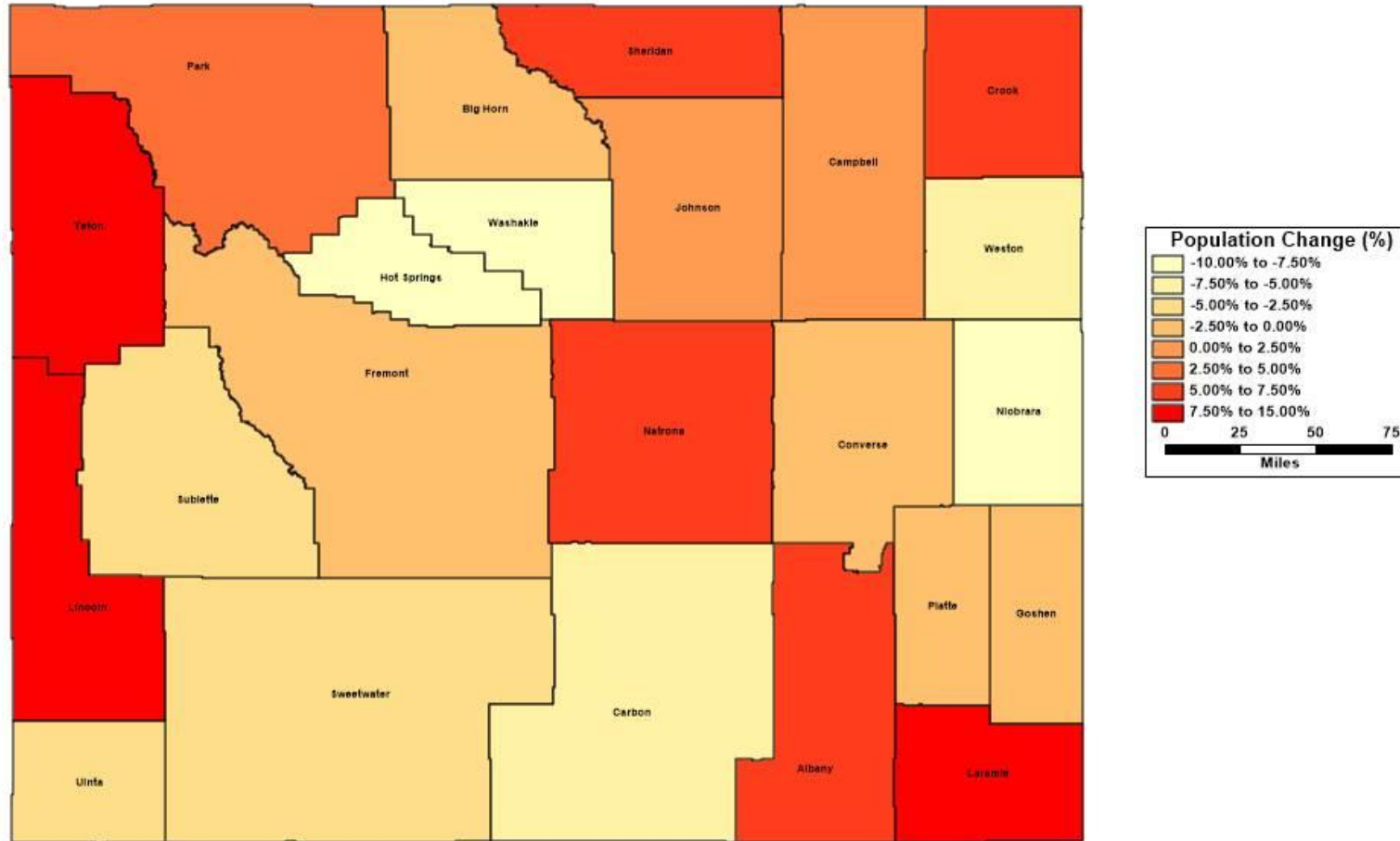
County Population Change:  
2000 to 2010 Census

**REVISED**



# Wyoming Population Trends, 2000 - 2020

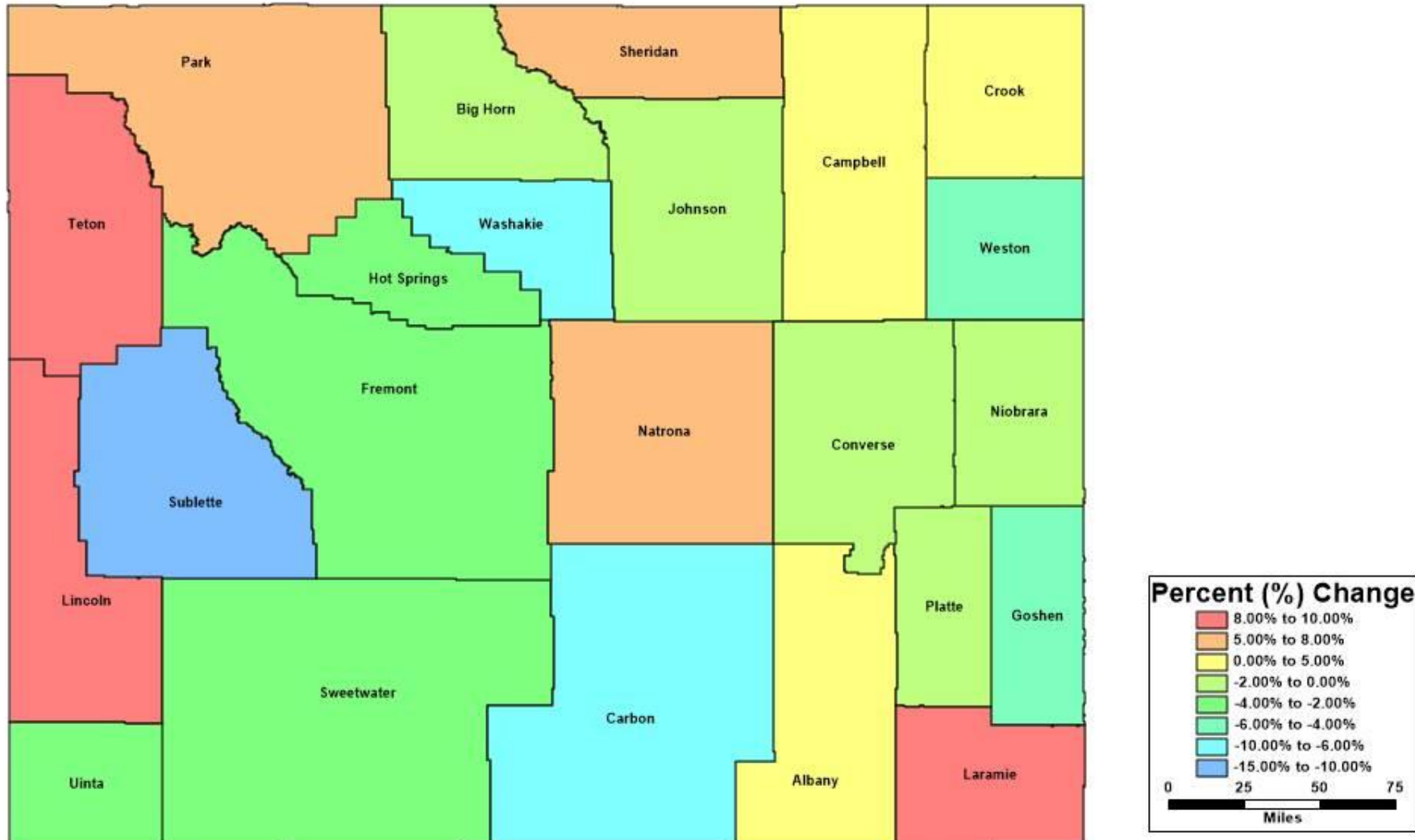
County Population changes:  
2010 Census to 2020 Estimate





# REVISED – Wyoming Population

## County Population Change: 2010 to 2020 Census



# Where is Growth Occurring, 2000-2020 (est.)?

## Counties Growing (18)

Albany	Big Horn
Campbell	Converse
Crook	Fremont
Goshen	Johnson
Laramie	Lincoln
Natrona	Park
Sheridan	Sublette
Sweetwater	Teton
Uinta	Weston

## Counties Not Growing (5)

Carbon
Hot Springs
Niobrara
Platte
Washakie

## Fastest Growing\* (9)

Albany	
Campbell	
Crook	
	Johnson
Laramie	Lincoln
Natrona	
	Sublette
	Teton

(\* Proportionately more people 2020 than 2000)



# **REVISED - Where is Growth Occurring, 2000-2020 Census?**

## **Counties Growing (18)**

<b>Albany</b>	<b>Big Horn</b>
Campbell	Converse
Crook	Fremont
_____	Johnson
Laramie	Lincoln
Natrona	<u>Niobrara</u>
Park	Sheridan
Sublette	Sweetwater
Teton	Uinta
Weston	

## **Counties Not Growing (5)**

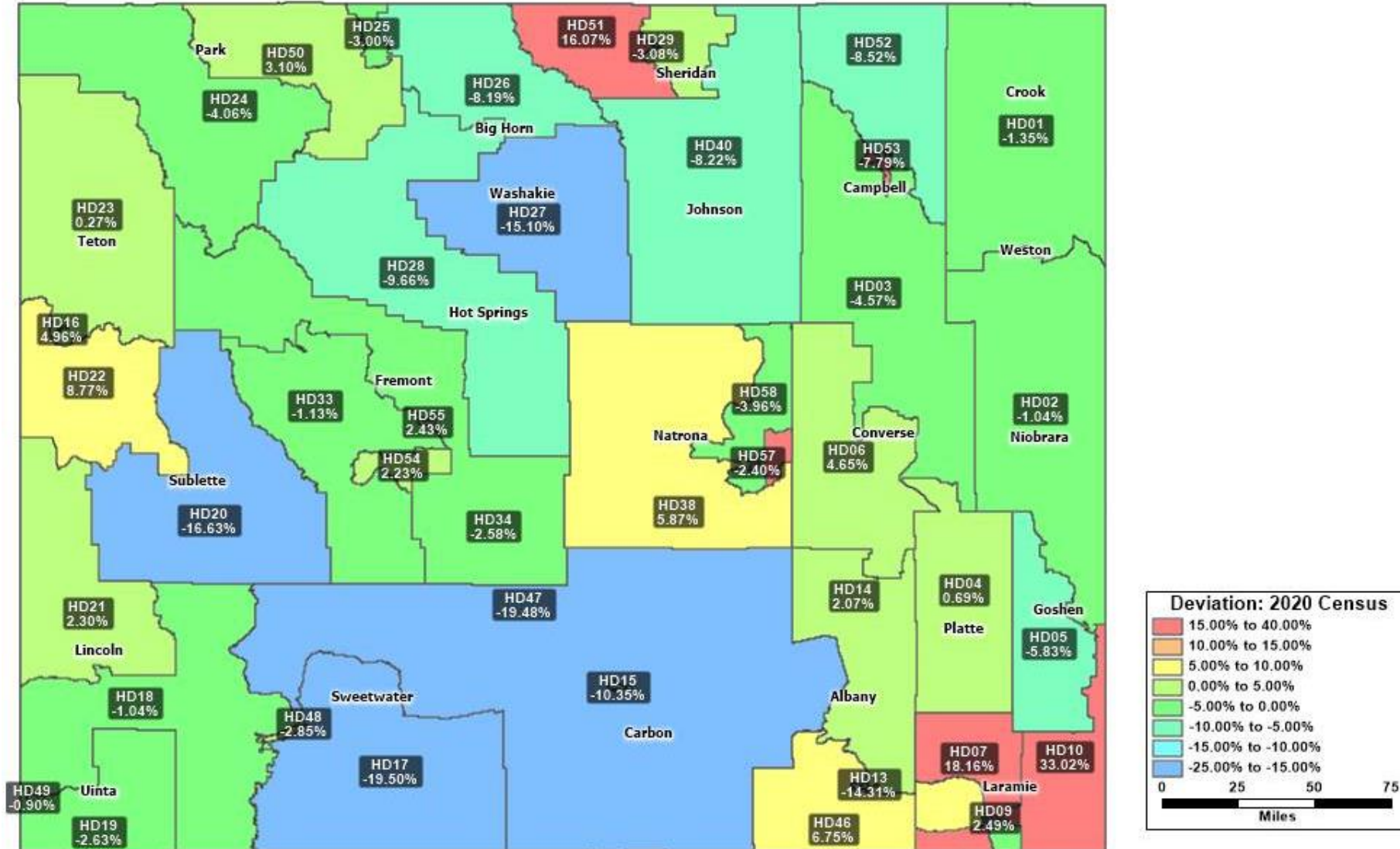
<b>Carbon</b>
<u>Goshen</u>
Hot Springs
_____
Platte
Washakie

## **Fastest Growing\* (8)**

_____	_____
Campbell	
Crook	
	Johnson
Laramie	Lincoln
Natrona	
Sublette	
Teton	

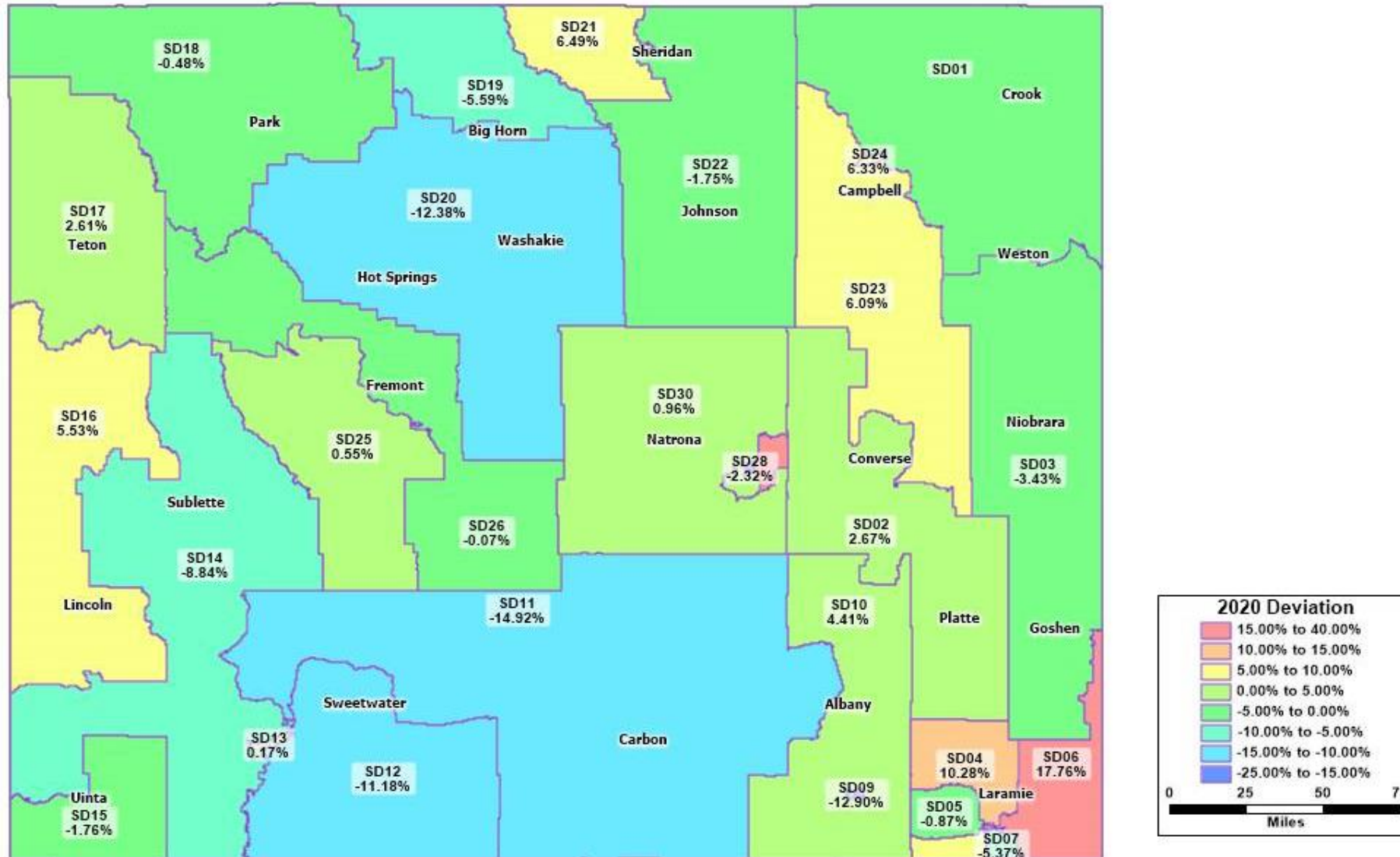


# **REVISED – Current House District Deviations with 2020 Census?**



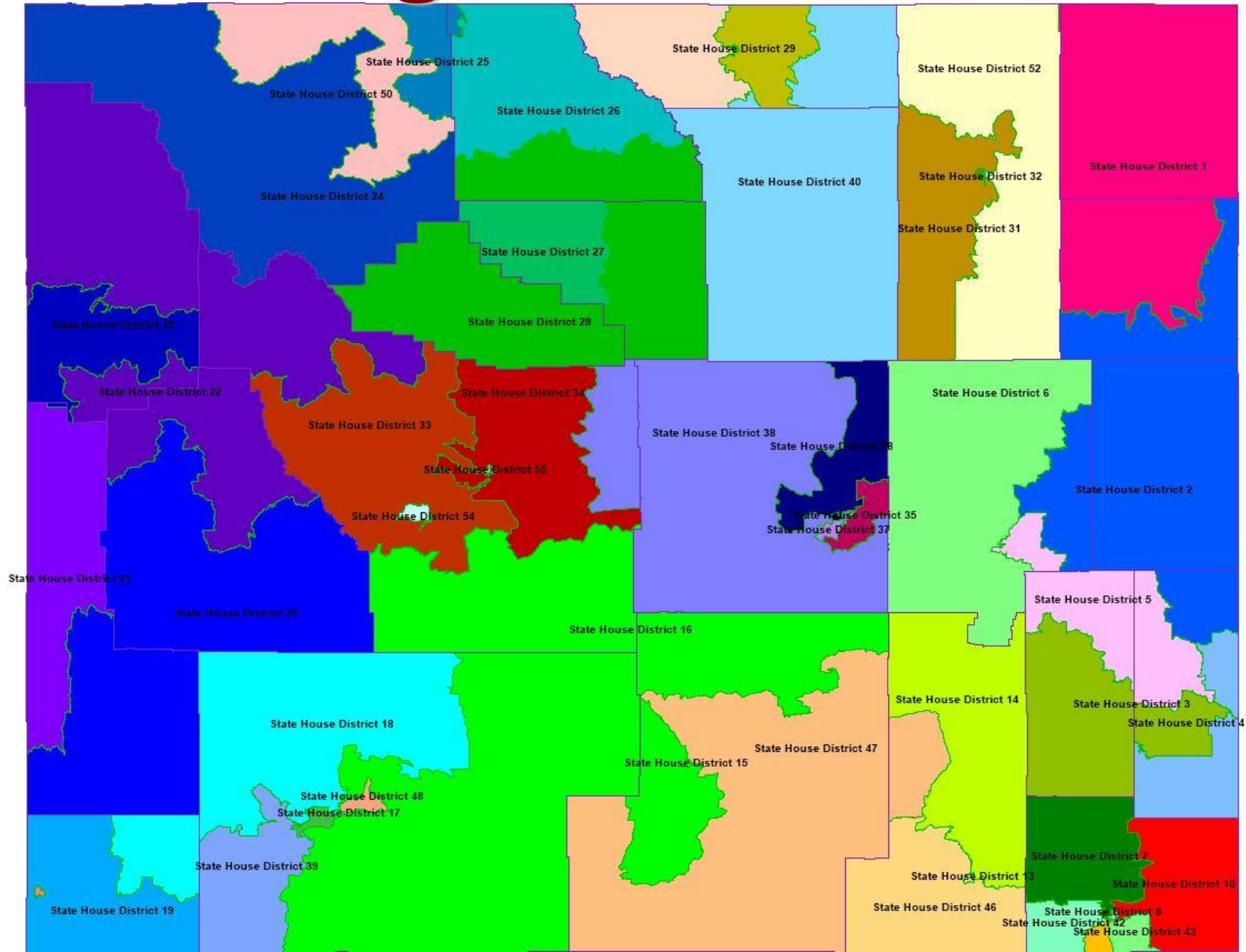


# **REVISED – Current Senate District Deviations with 2020 Census?**

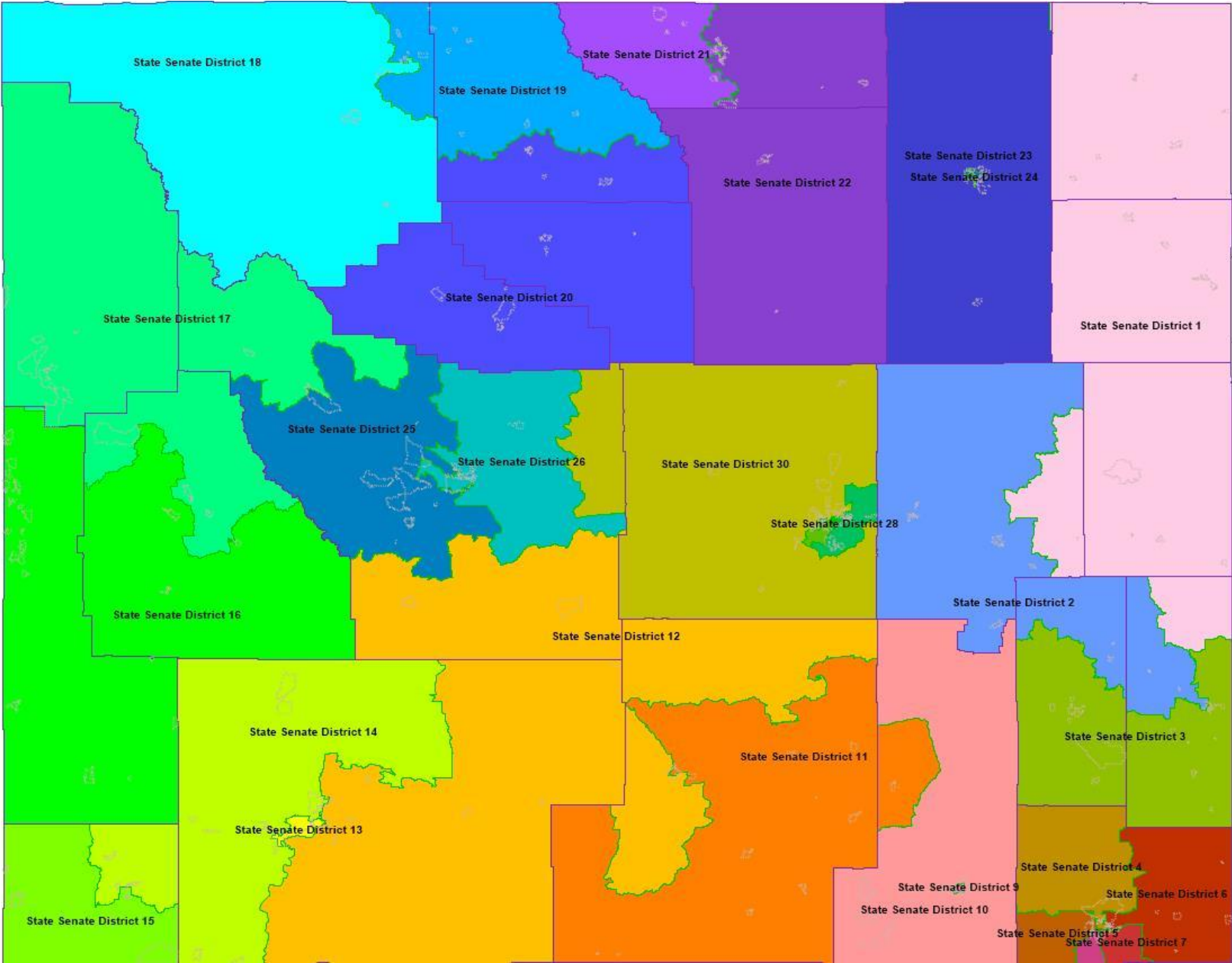




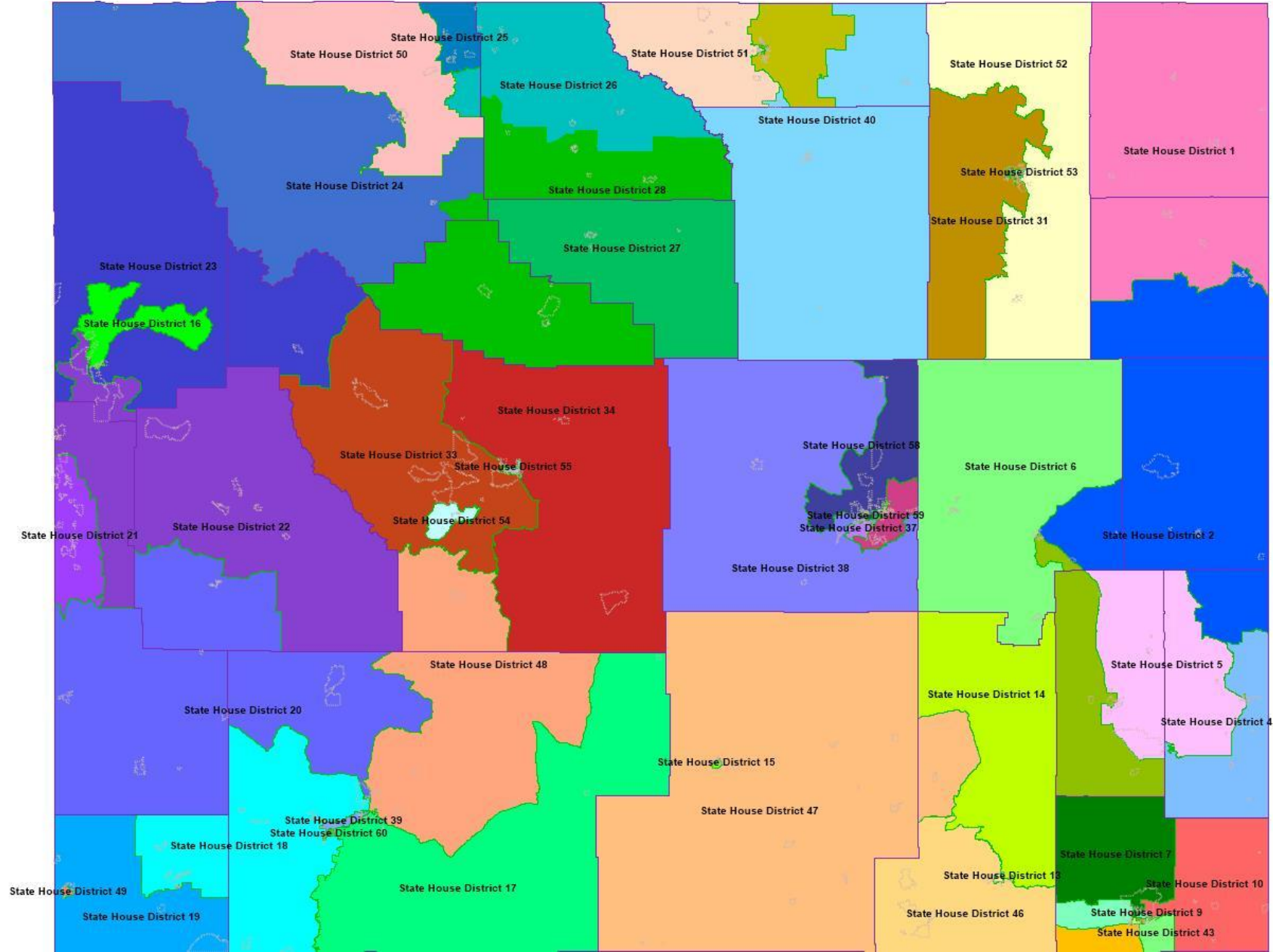
# District Configurations – 1992 House



# District Configurations – 1992 Senate

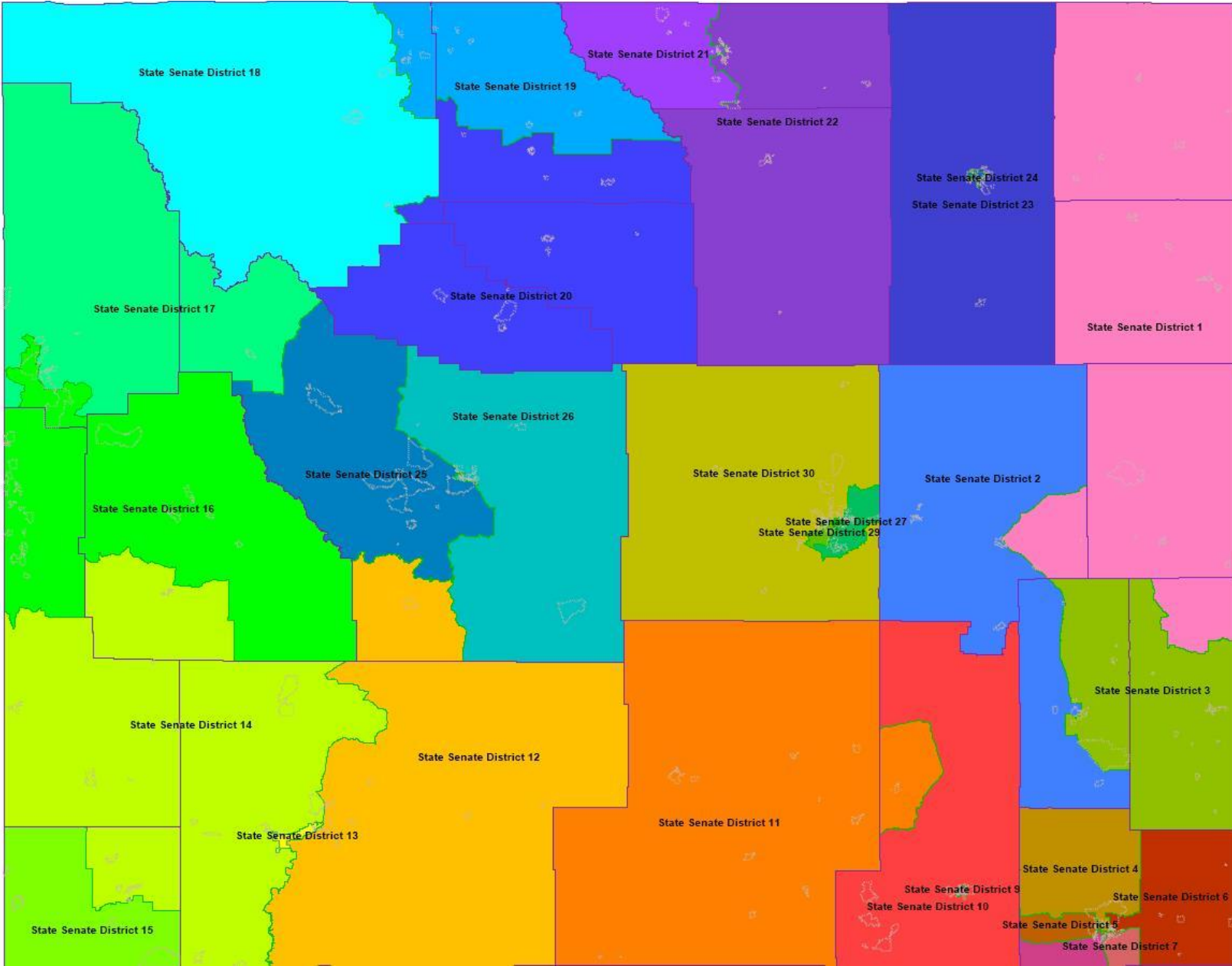


# District Configurations – 2002 House

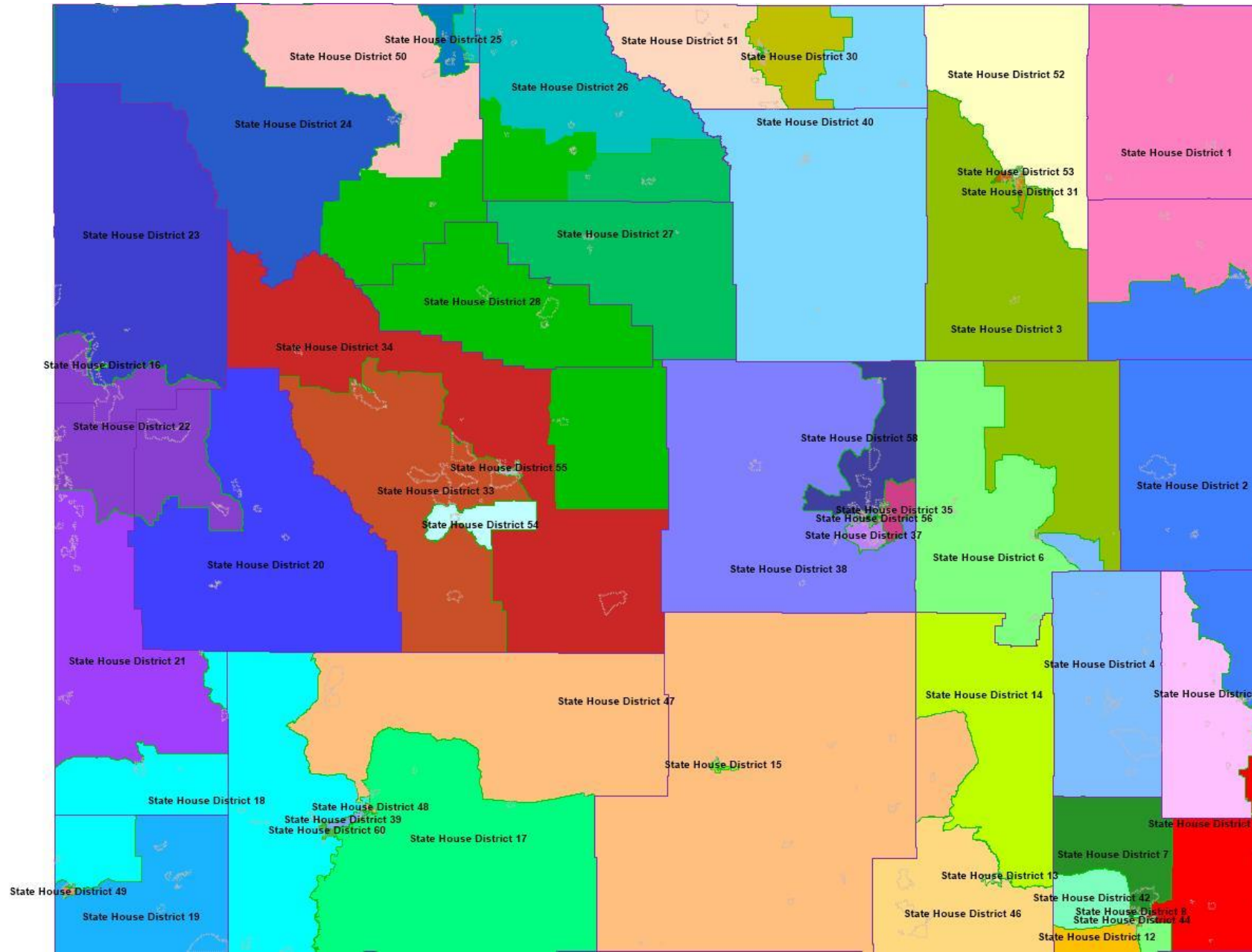




# District Configurations – 2002 Senate

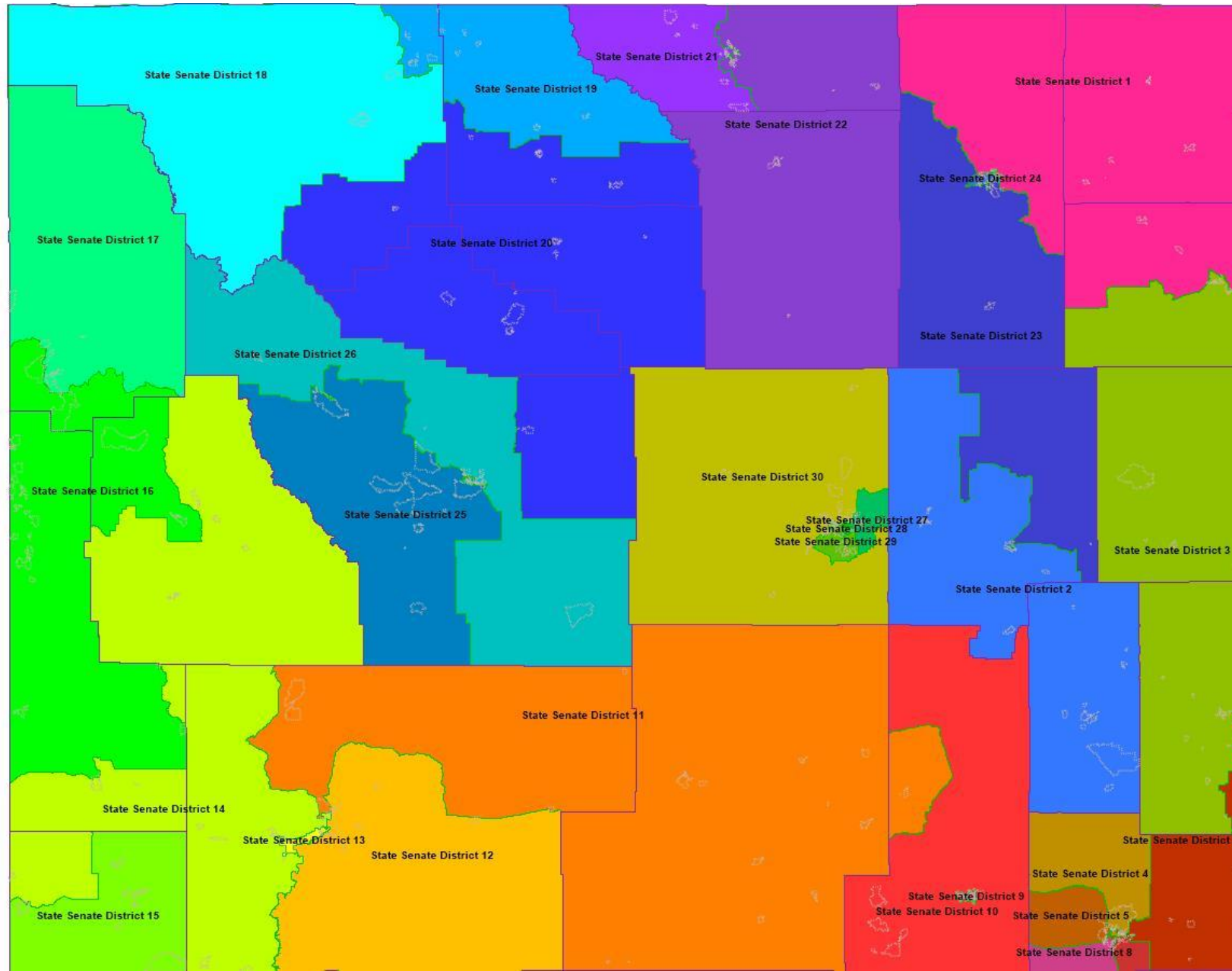


# District Configurations – 2012 House





# District Configurations – 2012 Senate



# 2020 Census County Pop. Estimates and Potential District Distribution

Statewide Pop Estimate = 582,328

- Ideal House District = 9,705
  - +/- 5% deviation: 9,220 to 10,191 (971 people)
- Ideal Senate District = 19,411
  - +/- 5% deviation: 18,440 to 20,381 (1,941 people)



# Regional Plan Development

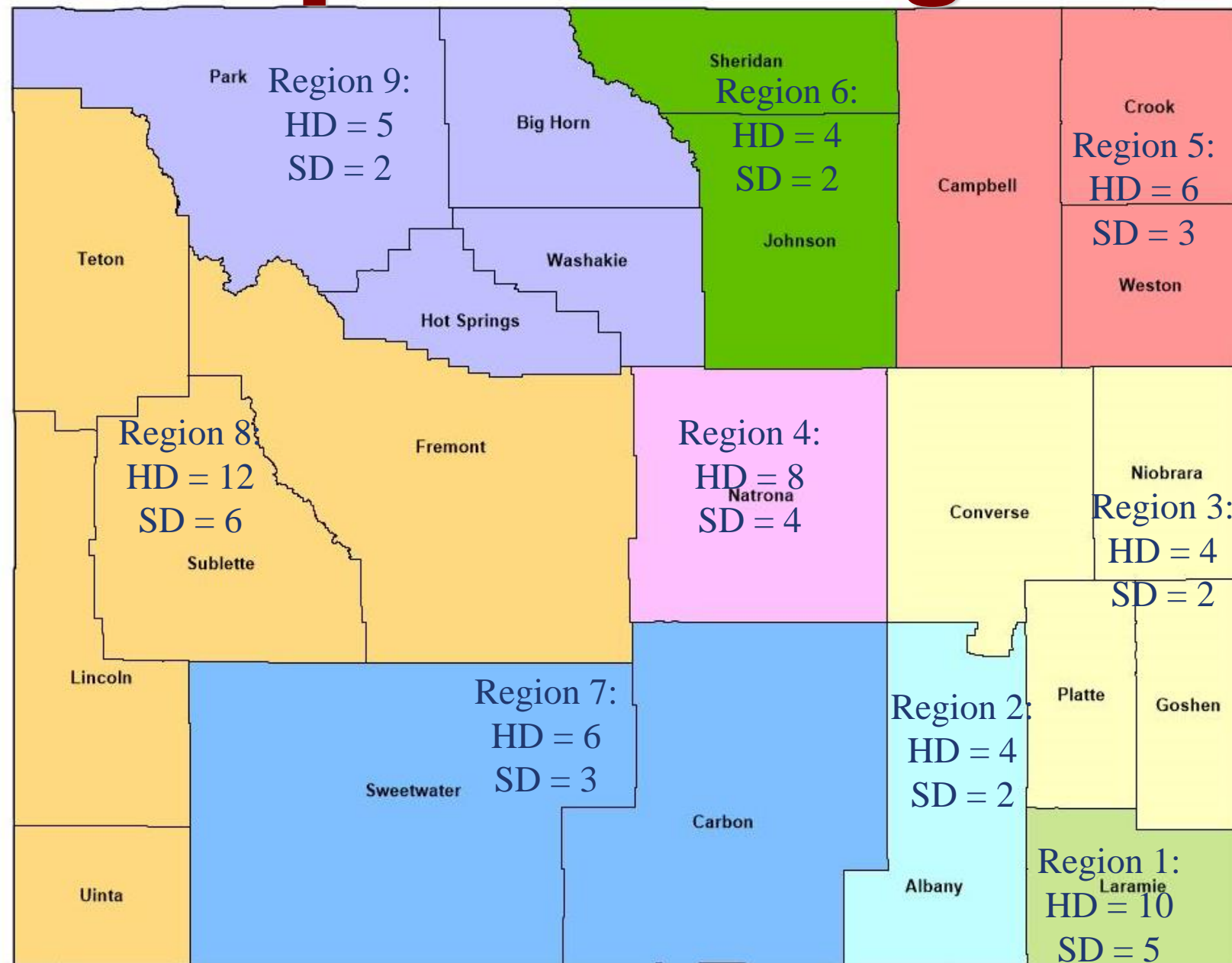
- Committee could consider assigning regions for plan development
- Regional Plan Development attributes:
  - More local focus/input and collaborative approach
  - Plug-and-Play district configurations
  - Allows Committee/members to focus on potential issue areas



# Example Plan Regions A

Region 1-9 = 59 HD, 29 SD

**Region 9 = 1 HD and 1 SD?**



- Regions 1, 4, 5 = High, positive deviations (closer to 5% above “ideal”; 3.7% Laramie Co. and 4.1% Natrona Co.)

- Regions 2, 6, 7 = Smaller deviations (average deviation + or – less than 2%)

- Region 3, 8 = Negative average deviations

- Region 9** = Shows 5 HD and 2 SD; to remain w/in 10% deviation, would need population outside region to support 1 additional HD and 1 SD

# Example Plan Regions (2020 Pop. Est.)

Region	Counties	2020 Population (est.)	HD Whole No	SD Whole No	Average HD Population	Average SD Population	Average Deviation HD	Average Deviation SD
1	Laramie	100,595	10	5	10,060	20,119	3.65%	3.65%
2	Albany	38,950	4	2	9,738	19,475	0.33%	0.33%
3	Converse, Platte, Goshen, Niobrara	37,892	4	2	9,473	18,946	-2.40%	-2.40%
4	Natrona	80,815	8	4	10,102	20,204	4.08%	4.08%
5	Campbell, Crook, Weston	61,012	6	3	10,169	20,337	4.77%	4.77%
6	Sheridan, Johnson	39,451	4	2	9,863	19,726	1.62%	1.62%
7	Sweetwater, Carbon	57,384	6	3	9,564	19,128	-1.46%	-1.46%
8	Uinta, Lincoln, Teton, Sublette, Fremont	113,138	12	6	9,428	18,856	-2.86%	-2.86%
9	Hot Springs, Washakie, Big Horn, Park	53,091	5	2	10,618	26,546	9.40%	36.76%
Region 1-9		582,328	59	29	9,890	20,371	1.91%	3.27%

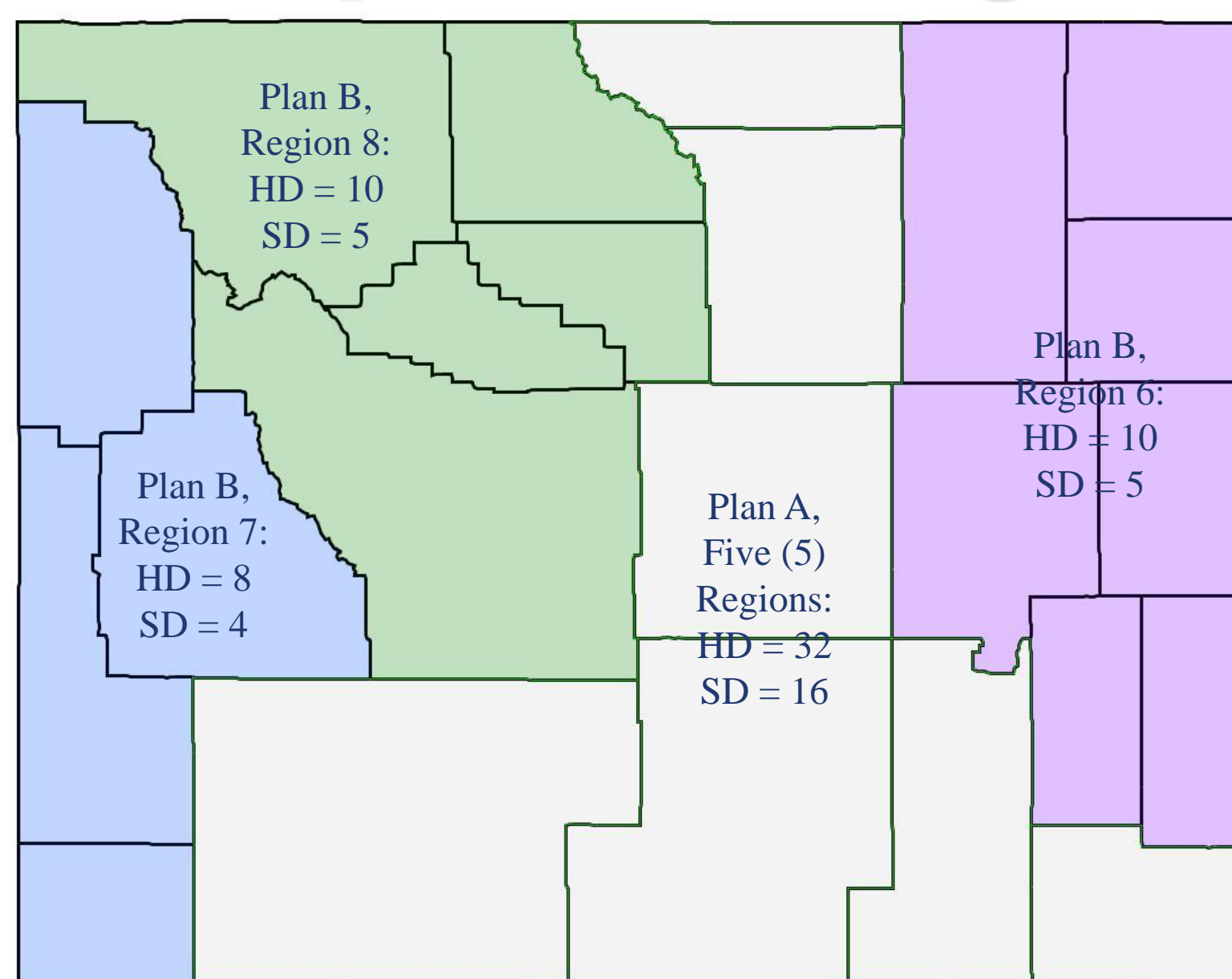


**REVISED**  
**Example**  
**Plan**  
**Regions**  
**(2020 Census)**

Region	Counties	2020 Census Population	HD Whole No	SD Whole No	Average HD Pop	Average SD Pop	Average Deviation HD	Average Deviation SD
1	Laramie	100,512	10	5	10,051	20,102	4.55%	4.55%
2	Albany	37,066	4	2	9,267	18,533	-3.62%	-3.62%
3	Converse, Platte, Goshen, Niobrara	37,321	4	2	9,330	18,661	-2.95%	-2.95%
4	Natrona	79,955	8	4	9,994	19,989	3.95%	3.95%
5	Campbell, Crook, Weston	61,045	6	3	10,174	20,348	5.82%	5.82%
6	Sheridan, Johnson	39,368	4	2	9,842	19,684	2.37%	2.37%
7	Sweetwater, Carbon	56,809	6	3	9,468	18,936	-1.52%	-1.52%
8	Uinta, Lincoln, Teton, Sublette, Fremont	111,324	12	6	9,277	18,554	-3.51%	-3.51%
9	Hot Springs, Washakie, Big Horn, Park	53,451	5	2	10,690	17,817	11.19%	-7.34%
Region 1-9		576,851	59	29	9,788	19,180	1.81%	-2.56%

# Example Plan Regions B

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## Regional Plan Alternative B:

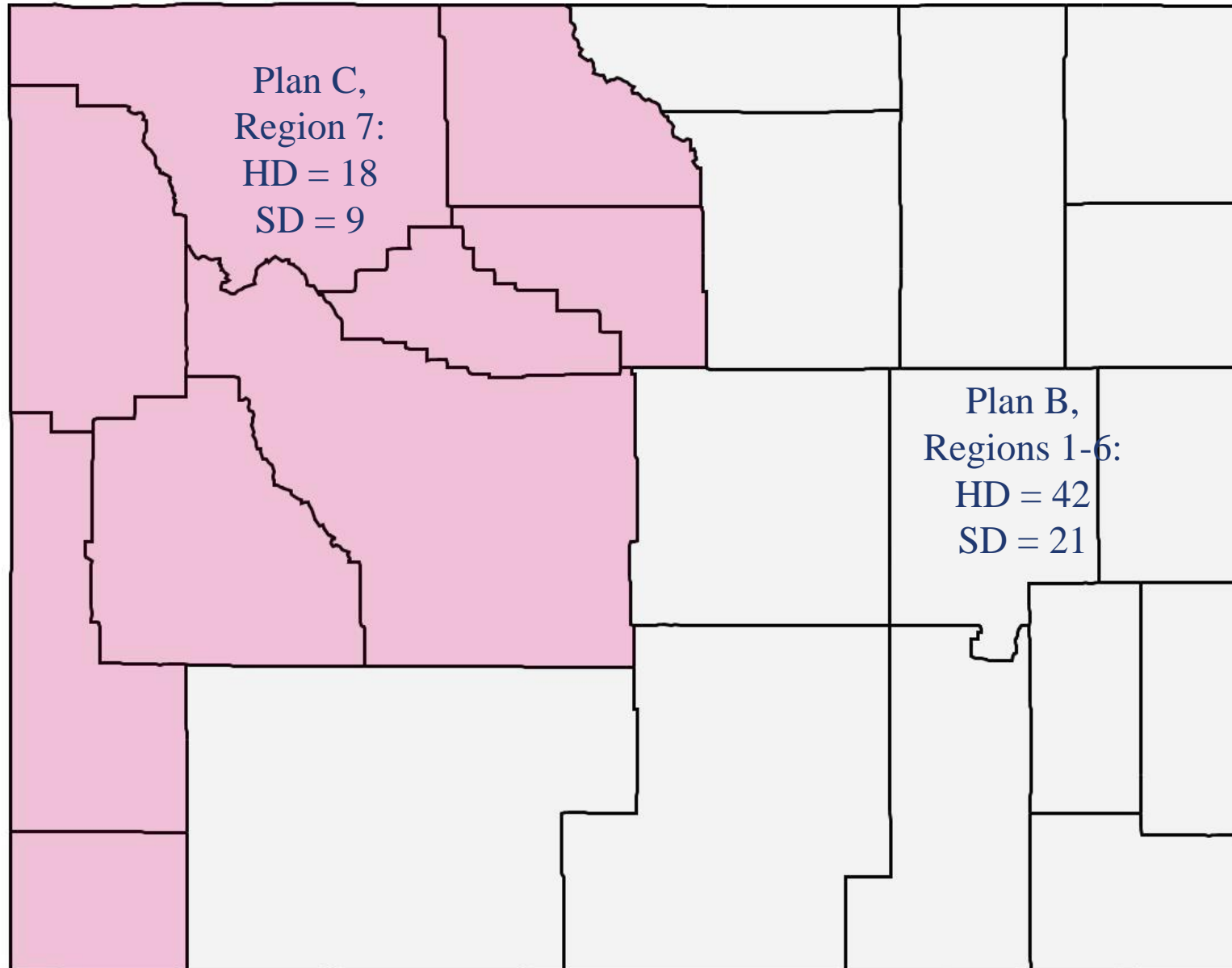
- Use five regions from Plan A
- Revised region for NE
- Revised regions for the Big Horn Basin and SW = Swap Fremont County between Plan A, Region 8 and Region 9
- Plan B, SW Region 7: would need small additional pop to reduce deviation below 5%

**REVISED**  
**Example**  
**Plan**  
**Regions B**  
**(2020 Census)**

Region	Counties	2020 Population	HD Whole No	SD Whole No	Average HD Pop	Average SD Pop	Average Deviation HD	Average Deviation SD
1	Laramie	100,512	10	5	10,051	20,102	4.55%	4.55%
2	Albany	37,066	4	2	9,267	18,533	-3.62%	-3.62%
3	Natrona	79,955	8	4	9,994	19,989	3.95%	3.95%
4	Sheridan, Johnson	39,368	4	2	9,842	19,684	2.37%	2.37%
5	Sweetwater, Carbon	56,809	6	3	9,468	18,936	-1.52%	-1.52%
6	Campbell, Crook, Weston, Converse, Platte, Goshen, Niobrara	98,366	10	5	9,837	19,673	2.31%	2.31%
7	Uinta, Lincoln, Teton, Sublette	72,090	8	4	9,011	18,023	-6.27%	-6.27%
8	Hot Springs, Washakie, Big Horn, Park, Fremont	92,685	10	5	9,269	18,537	-3.60%	-3.60%
Region 1-8		576,851	60	30	9,592	19,185	-0.23%	-2.54%

# Example Plan Regions C

**REVISED**



## Regional Plan Alternative C:

- Use five regions from Plan A and Region 6 from Plan B
- Revised to include Big Horn Basin and SW into one region
- Plan B, SW Region 7: would need small additional pop to reduce deviation below 5%
- All regions within +/-5% deviation

**REVISED**  
**Example**  
**Plan**  
**Regions C**  
**(2020 Census)**

Region	Counties	2020 Population	HD Whole No	SD Whole No	Average HD Pop	Average SD Pop	Average Deviation HD	Average Deviation SD
1	Laramie	100,512	10	5	10,051	20,102	4.55%	4.55%
2	Albany	37,066	4	2	9,267	18,533	-3.62%	-3.62%
3	Natrona	79,955	8	4	9,994	19,989	3.95%	3.95%
4	Sheridan, Johnson	39,368	4	2	9,842	19,684	2.37%	2.37%
5	Sweetwater, Carbon	56,809	6	3	9,468	18,936	-1.52%	-1.52%
6	Campbell, Crook, Weston, Converse, Platte, Goshen, Niobrara	98,366	10	5	9,837	19,673	2.31%	2.31%
7	Hot Springs, Washakie, Big Horn, Park, Fremont, Uinta, Lincoln, Teton, Sublette	164,775	18	9	9,154	18,308	-4.78%	-4.78%
Region 1-7		576,851	60	30	9,659	19,318	0.47%	-1.86%