

OREGON REDISTRICTING: CENSUS GEOGRAPHIES AND REDISTRICTING



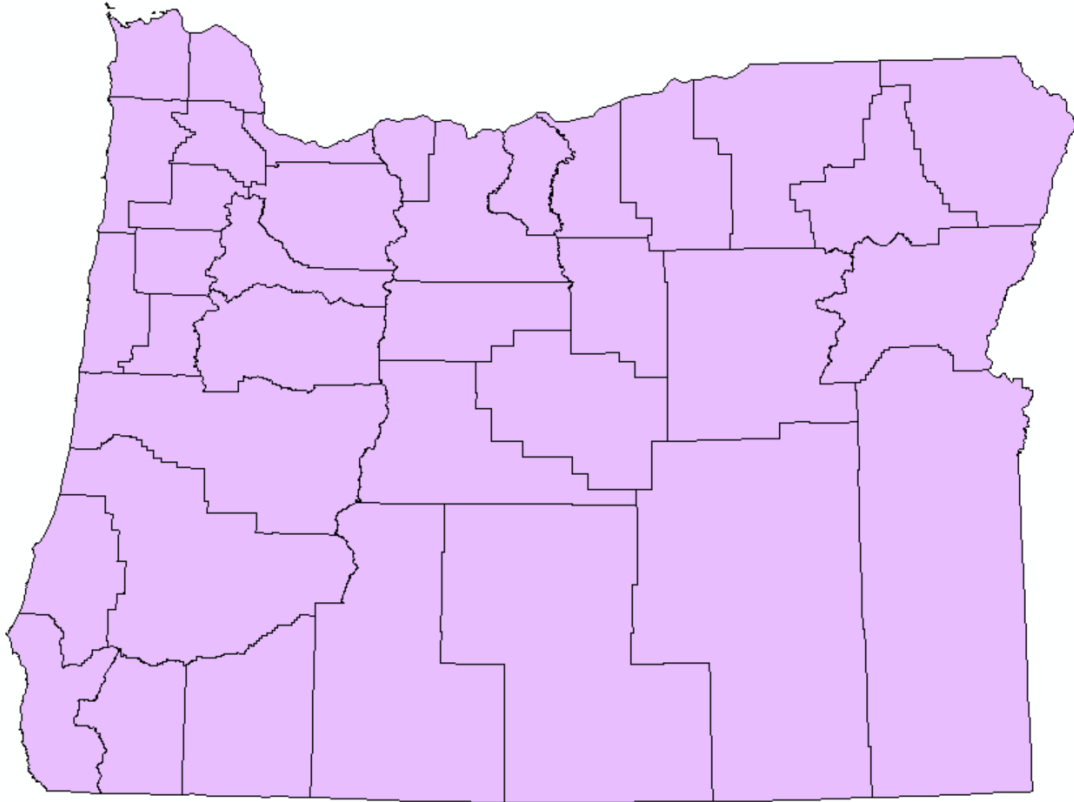
**Senate Redistricting Committee
March 1, 2021**

**Presentation prepared by
Legislative Policy
and Research Office (LPRO)**

WHAT DOES REDISTRICTING DATA LOOK LIKE?

Shapefiles:

Spatial data format for showing geography in GIS software; used in mapping



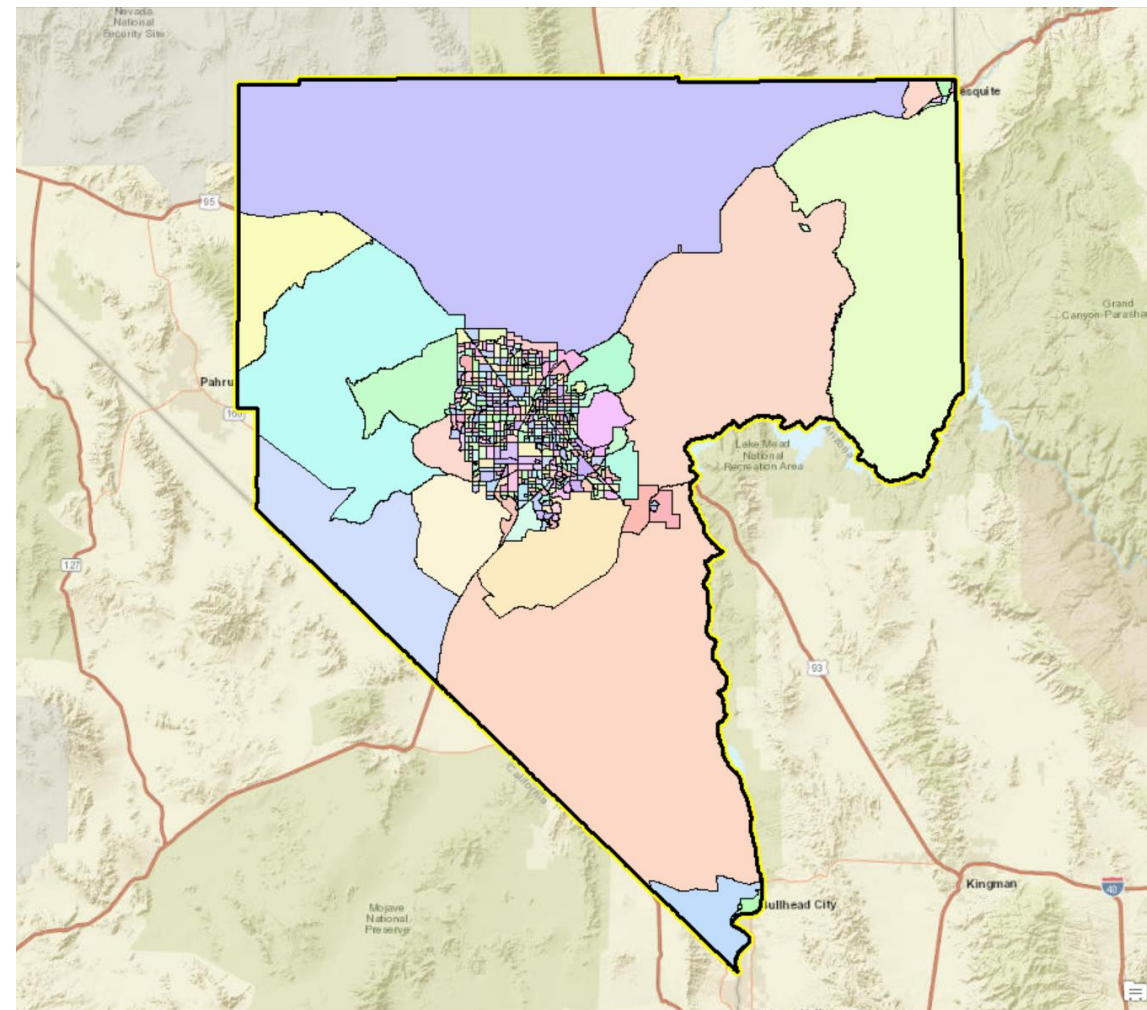
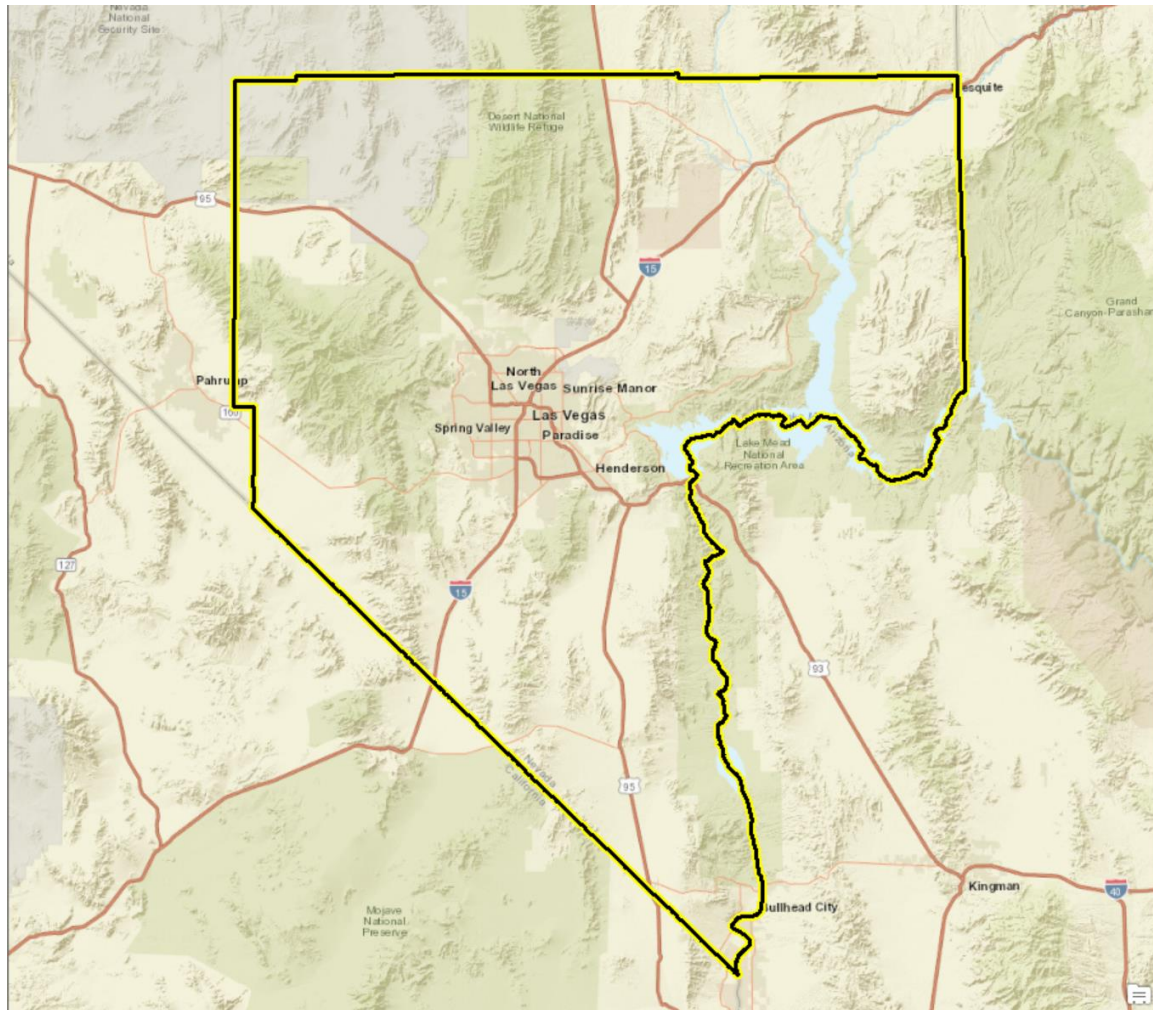
Tables:

Tables of Census data down to the block level; can be joined to shapefiles

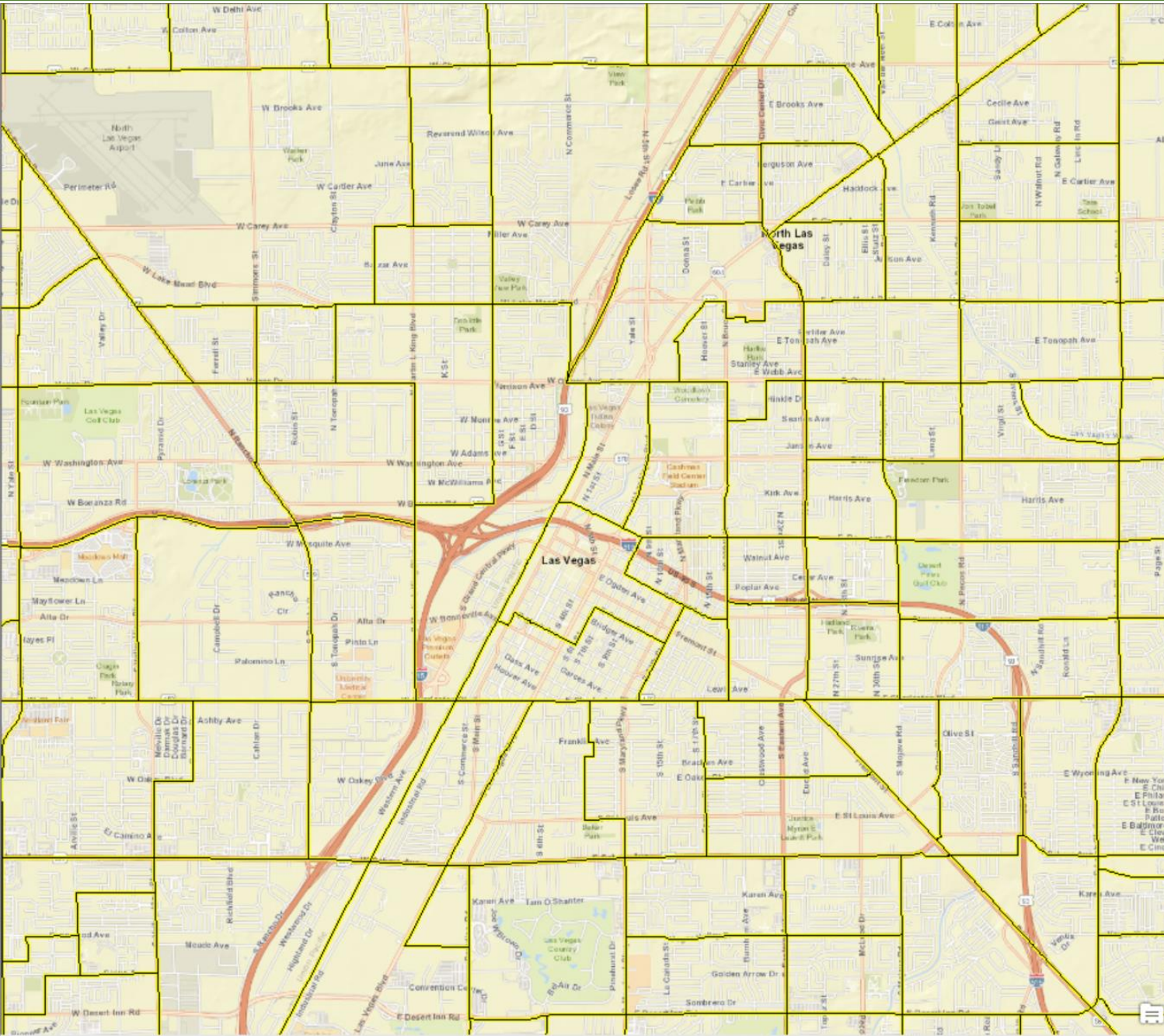
RACE			
Survey/Program: Decennial Census		Product: 2010: DEC Redistricting Data (PL 94-171)	
TableID: P1		Universe: Total population	
Label	Baker County, Oregon	Benton County, Oregon	Clackamas County, Oregon
▼ Total:	16,134	85,579	375,992
▼ Population of one race:	15,753	82,519	364,127
White alone	15,264	74,506	331,571
Black or African American alone	57	759	3,082
American Indian and Alaska Native alone	181	627	3,122
Asian alone	78	4,429	13,729
Native Hawaiian and Other Pacific Islander alone	9	213	867
Some Other Race alone	164	1,985	11,756
▼ Two or More Races:	381	3,060	11,865
▼ Population of two races:	367	2,799	10,931
White; Black or African American	28	355	1,638
White; American Indian and Alaska Native	253	834	3,206
White; Asian	40	1,033	3,403
White; Native Hawaiian and Other Pacific Islander	13	127	384
White; Some Other Race	20	256	1,543
Black or African American; American Indian and Alaska Native	8	16	77
Black or African American; Asian	0	20	70
Black or African American; Native Hawaiian and Other Pacific Islander	0	4	26
Black or African American; Some Other Race	1	17	59
American Indian and Alaska Native; Asian	2	10	64
American Indian and Alaska Native; Native Hawaiian and Other Pacific Islander	0	1	17
American Indian and Alaska Native; Some Other Race	1	16	76
Asian; Native Hawaiian and Other Pacific Islander	1	81	226
Asian; Some Other Race	0	25	100

CENSUS GEOGRAPHIES

- Clark County, Nevada (left picture) divided into Census tracts (right picture)
- Tracts relatively constant over time
- Usually between 1,200 – 8,000 people with ideal population of 4,000



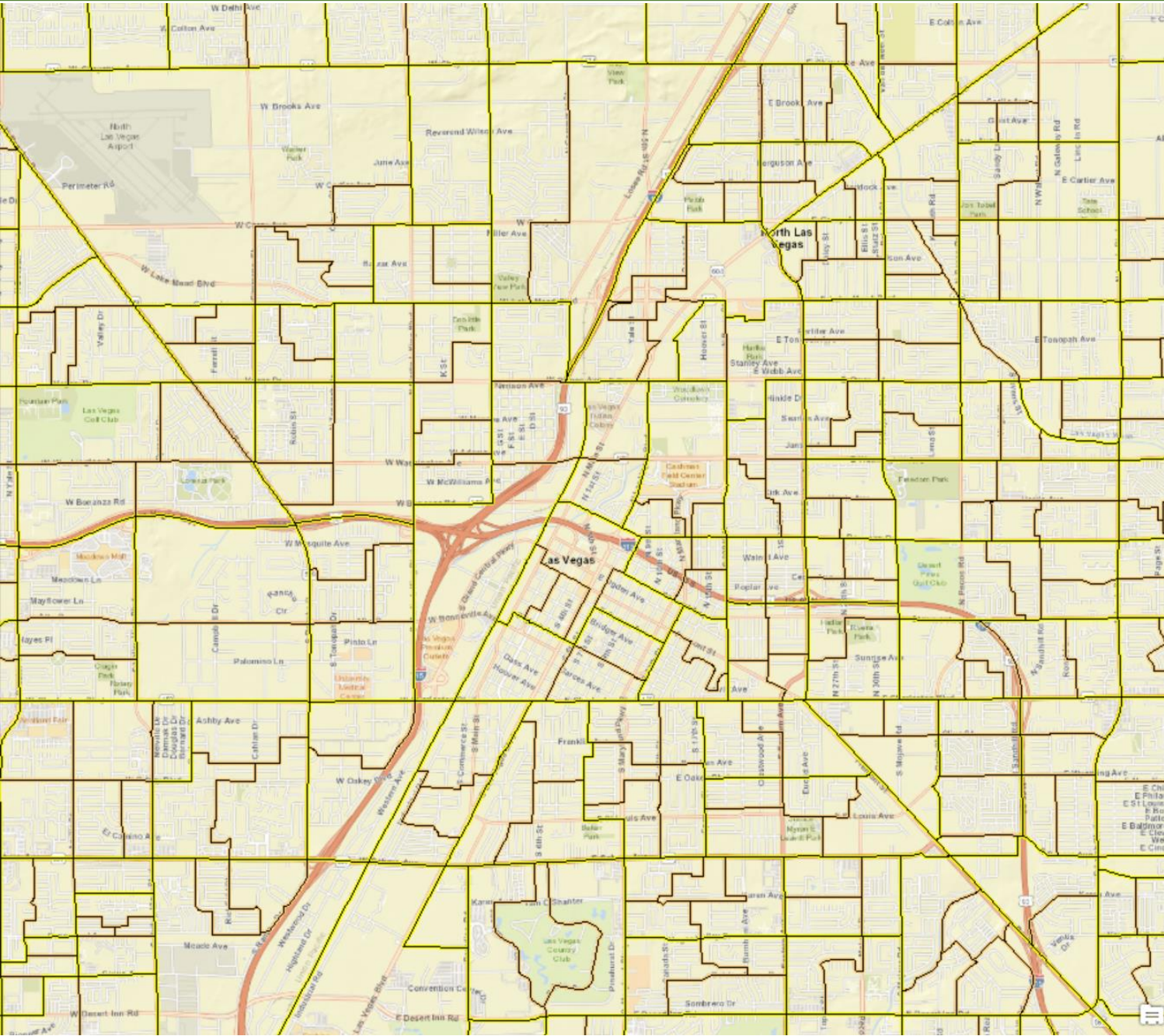
CENSUS GEOGRAPHIES: CENSUS TRACTS



CENSUS TRACTS

- Tracts relatively constant over time
- Usually between 1,200 – 8,000 people with ideal population of 4,000
- Nest within counties; counties with low populations may only have 1 tract covering the entire county
- Usually follow visible and identifiable features
- Can follow nonvisible legal boundaries
- Oregon has 1,001 tracts in Census 2020 (up from 828 in Census 2010)

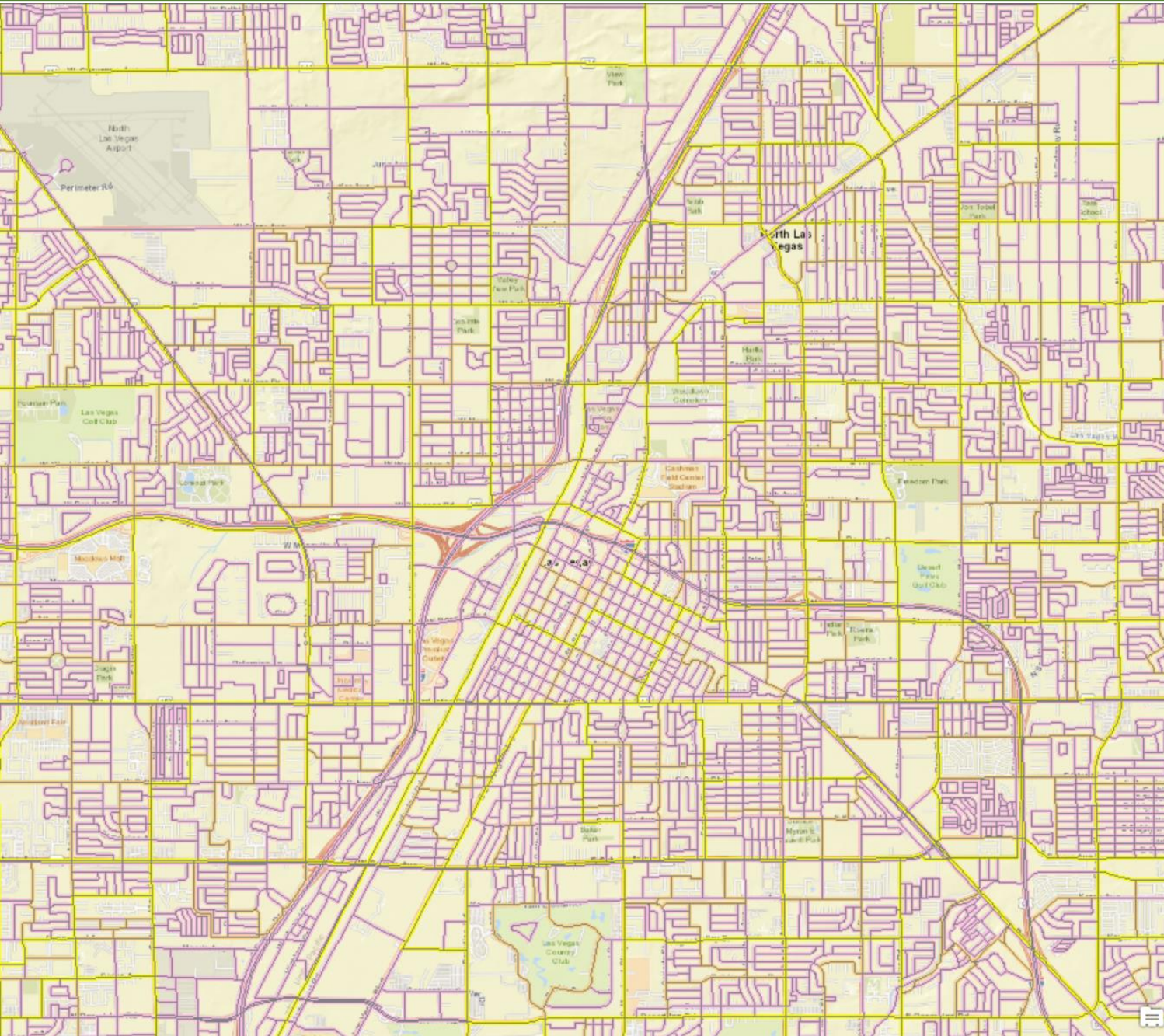
CENSUS GEOGRAPHIES: BLOCK GROUPS



BLOCK GROUPS

- Divisions of Census tracts
- Cannot cross state, county, or tract boundaries but might cross others such as city limits
- Usually between 600 – 3,000 people
- Oregon has 2,970 tracts in Census 2020 (up from 2,628 in Census 2010)

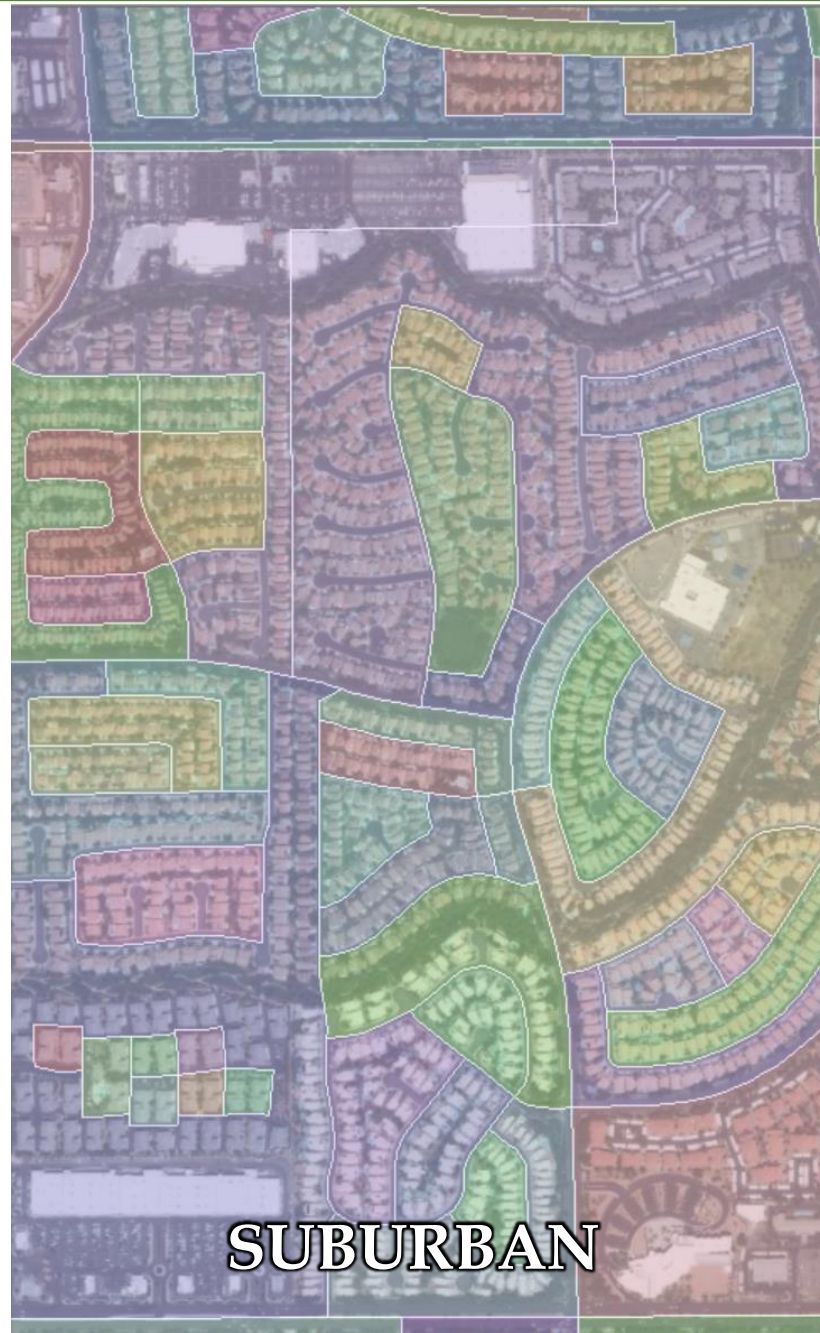
CENSUS GEOGRAPHIES: BLOCKS



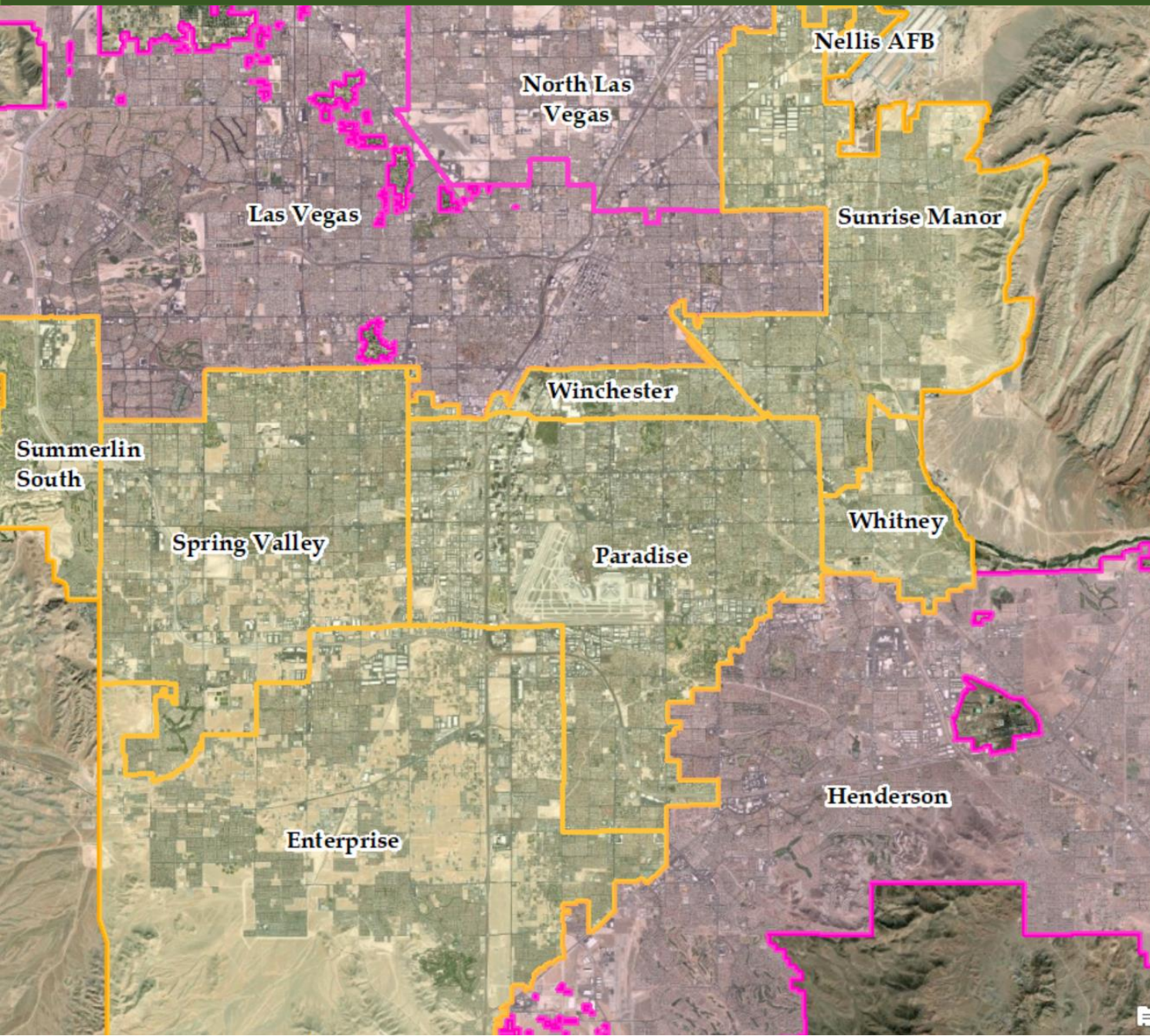
BLOCKS

- Census blocks; also called Tabulation blocks
- Nest within all other types of Census geography
- Often bounded by visible features but sometimes by property lines, sight-lines at street ends, or municipal boundaries
- No set population; Oregon's largest in 2010 had 2,927 residents while 56% of blocks were unpopulated
- Oregon has 130,807 tracts in Census 2020 (down from 196,621 in Census 2010)

CENSUS GEOGRAPHIES: BLOCKS



CENSUS GEOGRAPHIES: CENSUS-DESIGNATED PLACES



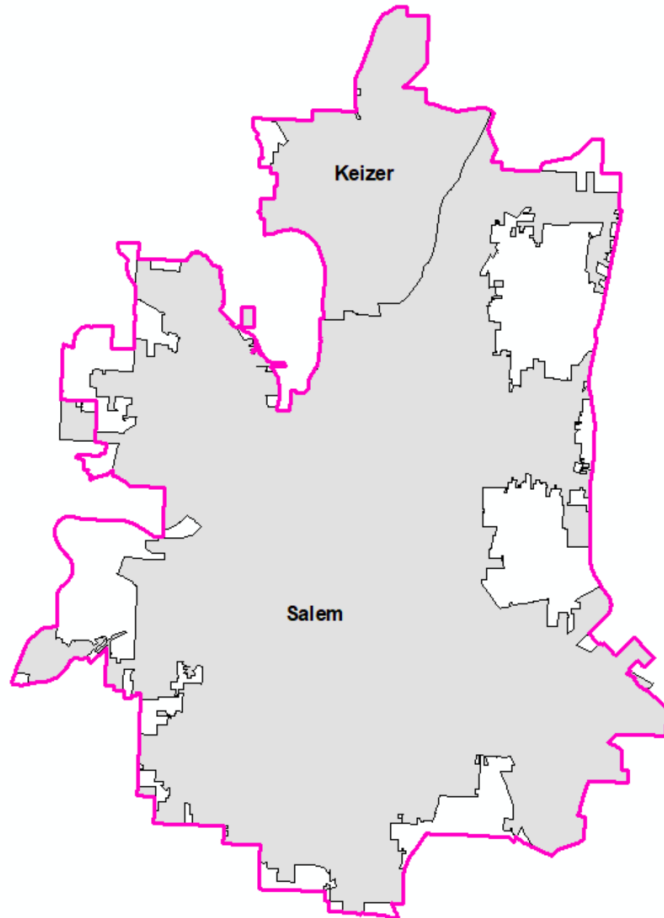
CENSUS-DESIGNATED PLACES (CDPs)

- CDPs (orange) are a counterpart to incorporated places (pink)
- Boundaries usually defined in cooperation with local officials
- No legal status
- Boundaries change
- No size requirements but must contain some residential population or housing
- Based on the 2019 ACS 5-year estimates, Aloha is Oregon's largest with over 50,000 residents

CENSUS GEOGRAPHIES: URBAN GROWTH AREAS AND URBAN/RURAL DESIGNATION

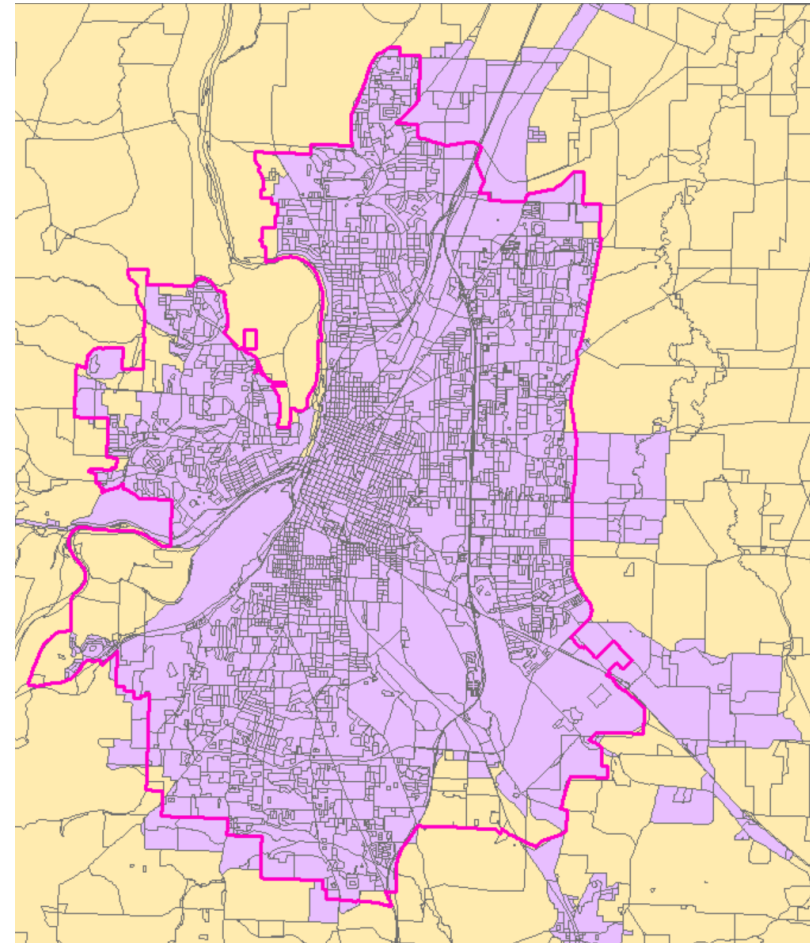
URBAN GROWTH AREAS

- Oregon and Washington state specific
- Used for regulating urban growth

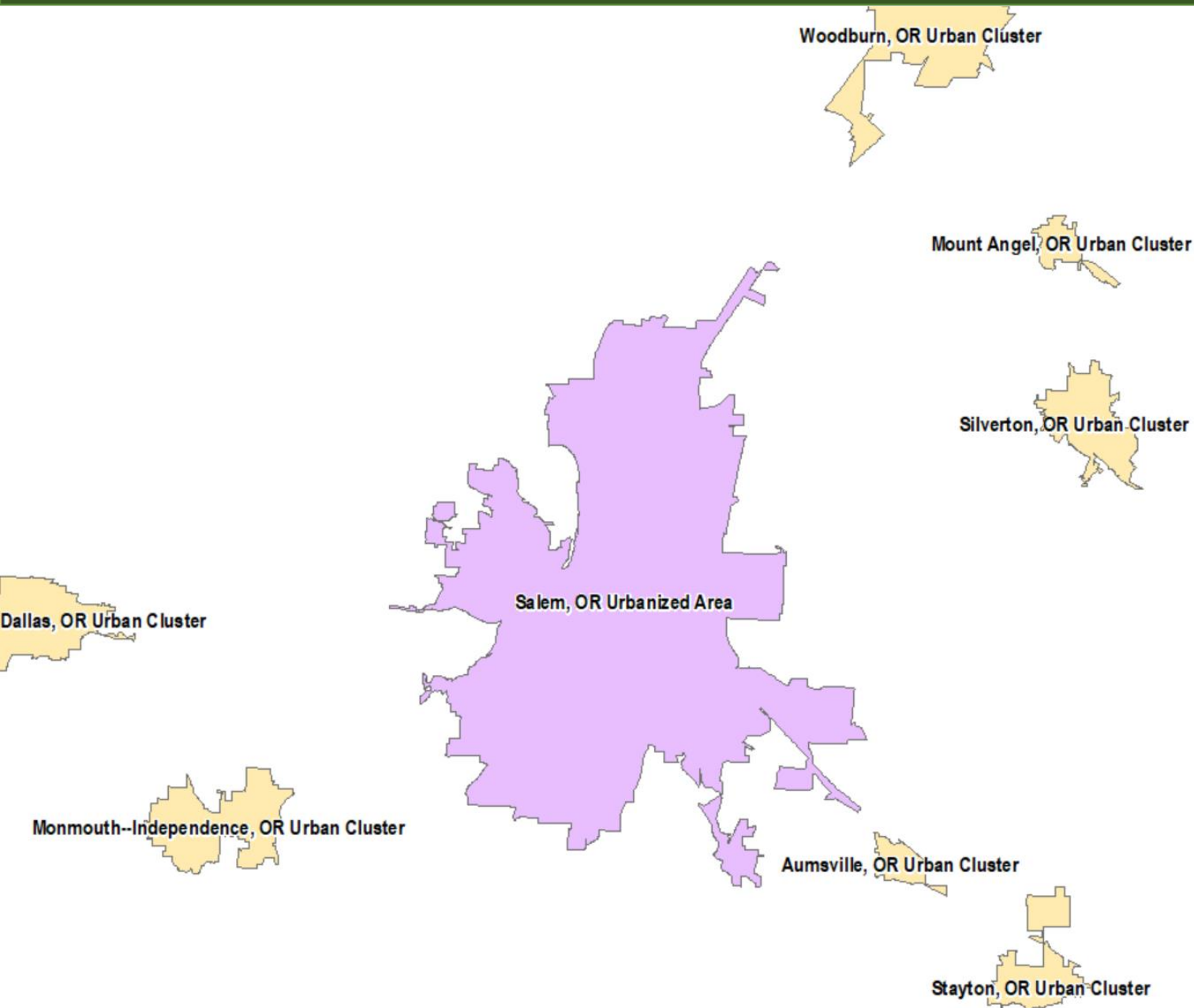


URBAN AND RURAL

- Urban includes densely developed areas of at least 2,500 people



CENSUS GEOGRAPHIES: URBAN AREAS AND CLUSTERS



- Urban areas have at least 50,000 people
- Urban clusters have at least 2,500 but fewer than 50,000 people

Oregon's Urban Areas:

- Albany
- Bend
- Corvallis
- Eugene
- Grants Pass
- Longview
 - *Primarily in Washington state*
- Medford
- Salem
- Portland
 - *Includes parts of Washington state*
- Walla Walla
 - *Primarily in Washington state*

TABLES AND PL 94-171 DATA (categories and table names defined by the Census Bureau)

- **Race**
 - Total population by race
 - White; Black; Asian; American Indian or Alaska Native; Native Hawaiian or Pacific Islander; Other
 - Combinations of the above groups
- **Hispanic or Latino, and Not Hispanic or Latino by Race**
 - Same as *Race* but with each category further broken down by Hispanic vs. Not Hispanic
- **Race for the Population 18 Years and Over**
 - Same as *Race* but only includes those 18 years of age and over
- **Hispanic or Latino, and Not Hispanic or Latino by Race for the Population 18 Years and Over**
 - Same as above but with each category further broken down by Hispanic vs. Not Hispanic
- **Occupancy Status**
 - Count of occupied and vacant housing units
 - Does not differentiate between housing types – only provides total unit count
- **Group Quarters Population by Major Group Quarters Type**
 - Institutionalized: Adult correctional facilities; juvenile facilities; nursing facilities; other
 - Noninstitutionalized: College/university housing; military quarters; other



Oregon Redistricting

Esri Redistricting Online Assists State And Local Governments, Advocacy Groups, And The General Public In Drawing Legislative And Congressional Redistricting Plans Following The 2020 U.S. Census.

[Learn More About Esri Redistricting](#)

[Sign in To Portal for ArcGIS](#)

Please login with your Portal for ArcGIS Account.

[Create an account](#)

[Forgot Your Password?](#)

<https://oregon-redistricting.esriemcs.com/redistricting/>

Official help guide:

<https://doc.arcgis.com/en/redistricting/get-started/what-is-esri-redistricting-online.htm>

OPENING SCREEN

Redistricting Online 2.28

Plan: (Untitled) | Invites (0) | TestBadger | Sign Out

File Learn View Create Review Share Submit

New Open Save Save As Archive Open Local Save Local Quick Print Print Plan Book Import Export

Plans Local Plans Print Interchange

Open Plan

Plan Search:

Plan Name	Owner	Description	Created	Last Modified
Deschutes County Plan	redistadmin	for training exercise only	2021-01-15 06:33	2021-01-15 07:02
Hillsboro City Plan	redistadmin	for training exercise only	2021-01-15 06:33	2021-01-15 07:03
Module8Example	redistadmin		2021-01-20 07:21	2021-01-20 08:41
Oregon State Plan	redistadmin	for training exercise only	2021-01-15 06:33	2021-01-15 07:03
OregonStateTemplatePlan	redistadmin	Contains Congressional, House, and Senate Reference Layers	2021-01-13 09:37	2021-01-13 10:06

Select Plan to View

- Existing plans available to you will show up in this box; these are categorized by type and group in the menu on the left, and a preview will appear on the right

Open Local Plan.. Import Plan..

Create Plan Open Plan

esri

USER INTERFACE

Menu Bar >

Tools and reports accessible through tabs

Map View >

Most work will be done in the map section

Attribute

Table >


Choose variables when setting up a plan, and track changes as you build your plan

Redistricting Online 2.28

Plan: Example Plan | Invites (0) | TestBadger | Sign Out | ?

File Learn View Create Review Share Submit

New Open Save Save As Archive Open Local Save Local Quick Print Print Plan Book Import Export Interchange



200km
100mi

District	Color	Hide	Lock	TOTAL	TARGET_DEV	TARGET_DEV_P	TOTALHISP_P	TOTALNH_P	WHITENH_P	BLACKNH_P	AIANNH_P	ASIANNH_P	HPINH_P	OTHERNH_P	MLTMNNH_P	Districts
Unassigned				3,831,074	3,831,074	100.00	11.75	88.25	78.46	2.15	2.14	4.44	0.44	0.19	0.	Proposed
District 1				0	-1,277,025	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	Assigned
District 2				0	-1,277,025	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	Comparison
District 3				0	-1,277,025	-100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.	Attributes

Esri, HERE, Garmin, NGA, USGS, NPS | Esri Redistricting 2020

POWERED BY esri

DATA VARIABLES AND GEOGRAPHY LEVELS

- Demographic variables available from Census 2000 and 2010
 - 2020 will be added once available
 - Total numbers along with percentages can be shown
 - Adjustable any time during the process
- Different geographic levels show up at different zoom levels
- Geographic type such as county or block can be chosen as your districts' building blocks



New Plan

Select demographics to display:

Name	Sum	Percent	Description
▲ Universe	<input type="checkbox"/>	<input type="checkbox"/>	
TOTAL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Total
TOTAL18	<input type="checkbox"/>	<input type="checkbox"/>	Total voting age
TARGET_DEV	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Deviation from the target
▲ Standard	<input type="checkbox"/>	<input type="checkbox"/>	
TOTALHISP	<input type="checkbox"/>	<input type="checkbox"/>	Hispanic
TOTALNH	<input type="checkbox"/>	<input type="checkbox"/>	Non-Hispanic
WHITENH	<input type="checkbox"/>	<input type="checkbox"/>	Non-Hispanic white
BLACKNH	<input type="checkbox"/>	<input type="checkbox"/>	Non-Hispanic black
AIANNH	<input type="checkbox"/>	<input type="checkbox"/>	Non-Hispanic American Indian/ Alaskan Native
ASIANNH	<input type="checkbox"/>	<input type="checkbox"/>	Non-Hispanic Asian
HPINH	<input type="checkbox"/>	<input type="checkbox"/>	Non-Hispanic Hawaiian or Other Pacific Islander
OTHERNH	<input type="checkbox"/>	<input type="checkbox"/>	Non-Hispanic some other race
MLTMNNH	<input type="checkbox"/>	<input type="checkbox"/>	Non-Hispanic two or more minority race
▶ Standard VAP	<input type="checkbox"/>	<input type="checkbox"/>	
▶ Alternative	<input type="checkbox"/>	<input type="checkbox"/>	
▶ Alternative VAP	<input type="checkbox"/>	<input type="checkbox"/>	
▶ OMB	<input type="checkbox"/>	<input type="checkbox"/>	
▶ OMB VAP	<input type="checkbox"/>	<input type="checkbox"/>	

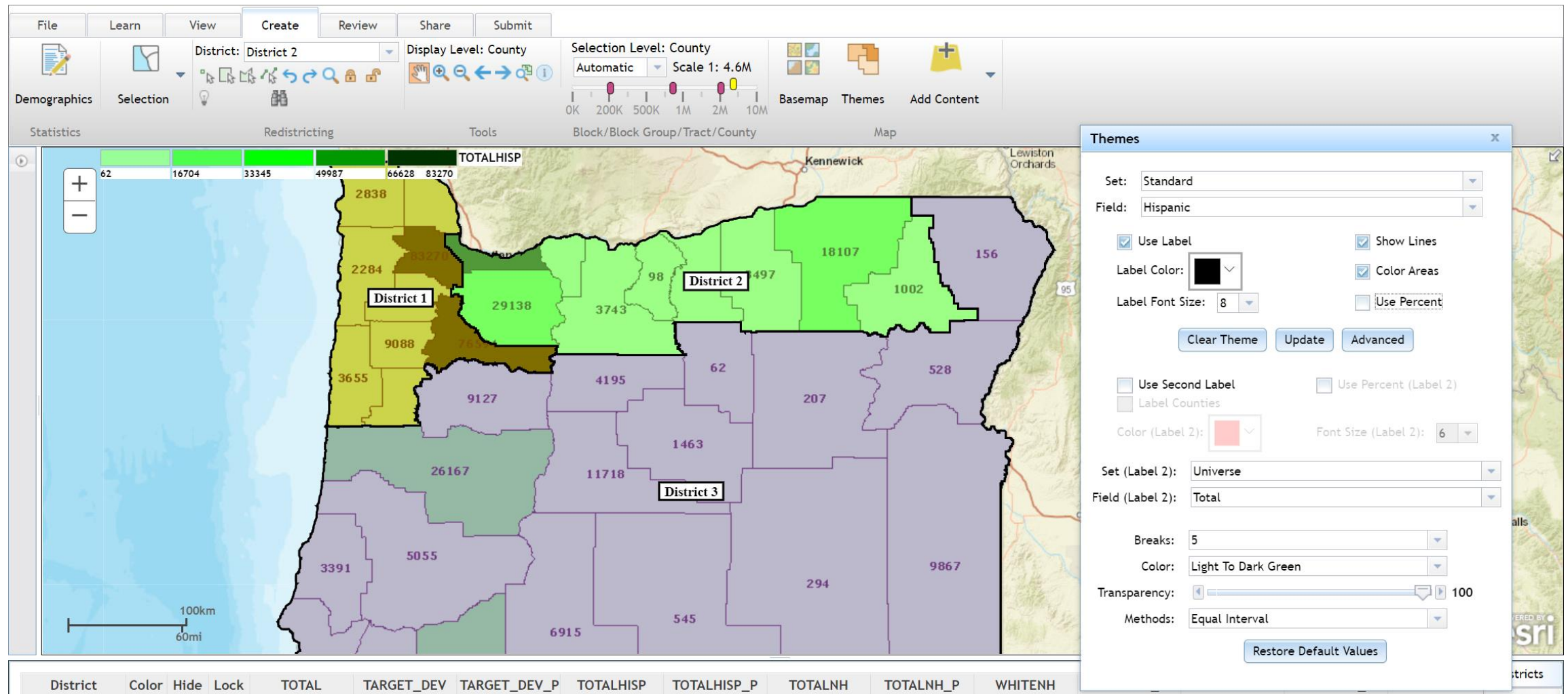
< Previous

Custom Variable

Done

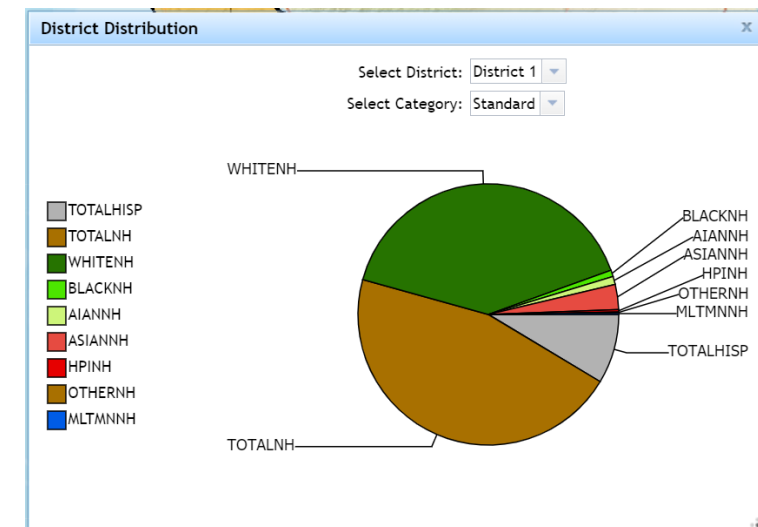
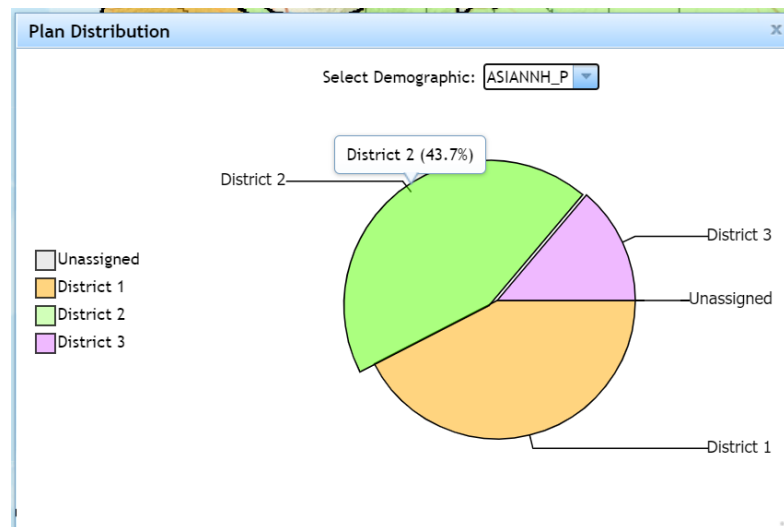
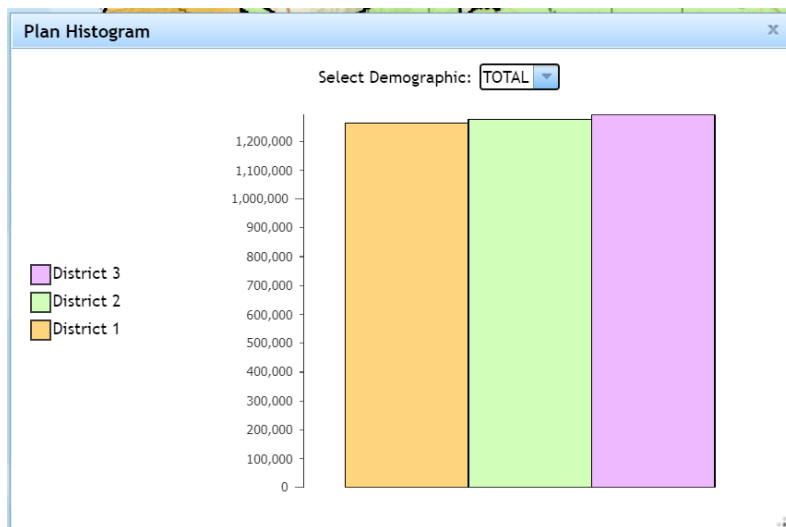
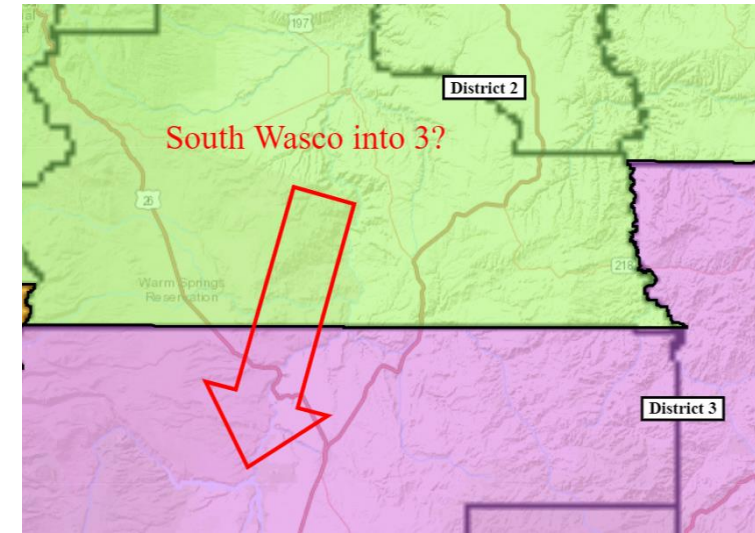
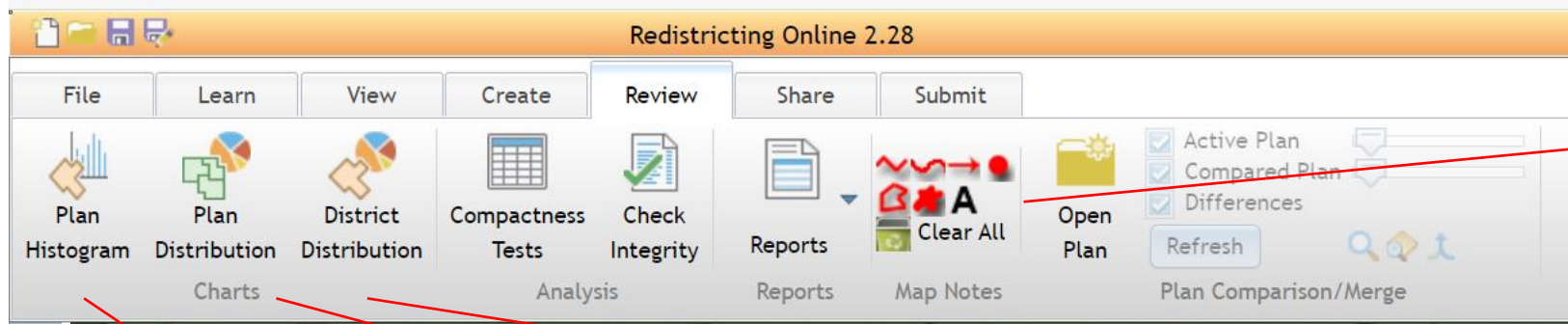
THEMES AND SHOWING DATA

- **Themes** allow you to add the data variables you selected earlier to your map
- Allows you to visually represent where population totals or groups are
- Can label geographies with the numbers to help with your work



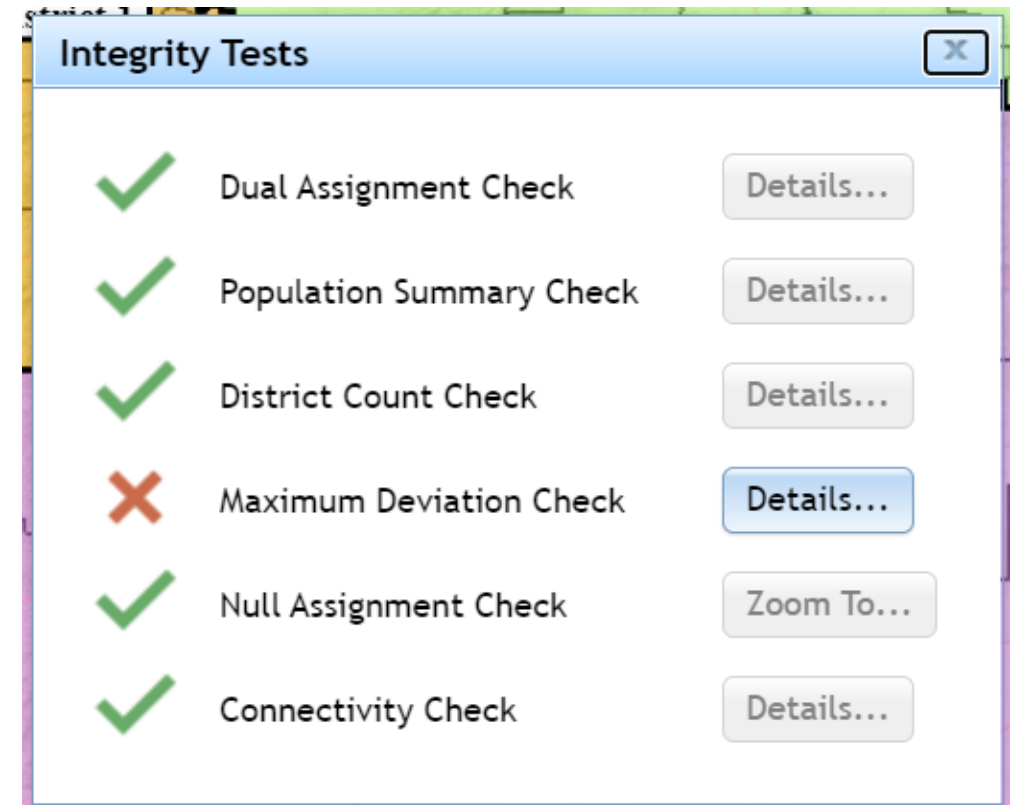
CHARTS AND NOTES

- The review tab allows you to summarize data in graphical form, verify the plan meets certain criteria, generate reports, add notes, and compare one plan to another.



INTEGRITY TESTS AND LEGAL CRITERIA

- Integrity checks verify criteria are being met
- Failure on any criteria prohibits submission of a map, but failures can be rectified
- Ensures:
 - All locations are assigned to districts
 - Population counts add up correctly
 - District contiguity



SHARING AND COMPARING PLANS

Open Comparison Plan

+

 Recent Plans

+

 My Plans

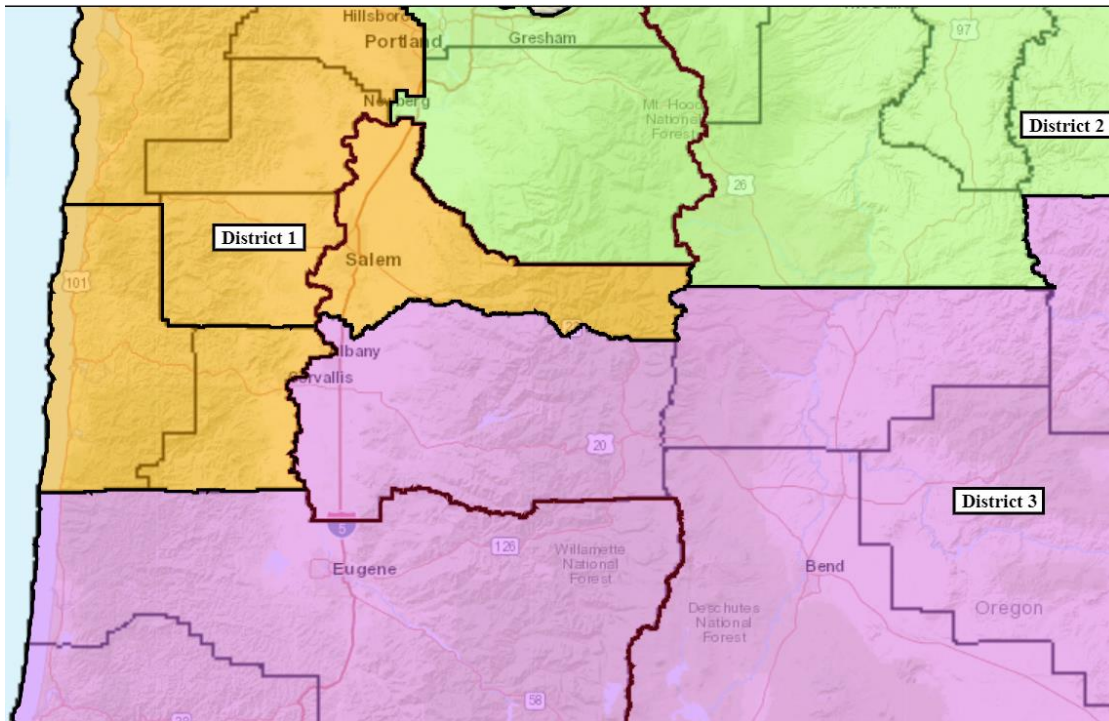
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 Shared Plans











Everyone

Plan Search: 

Oregon State Plan

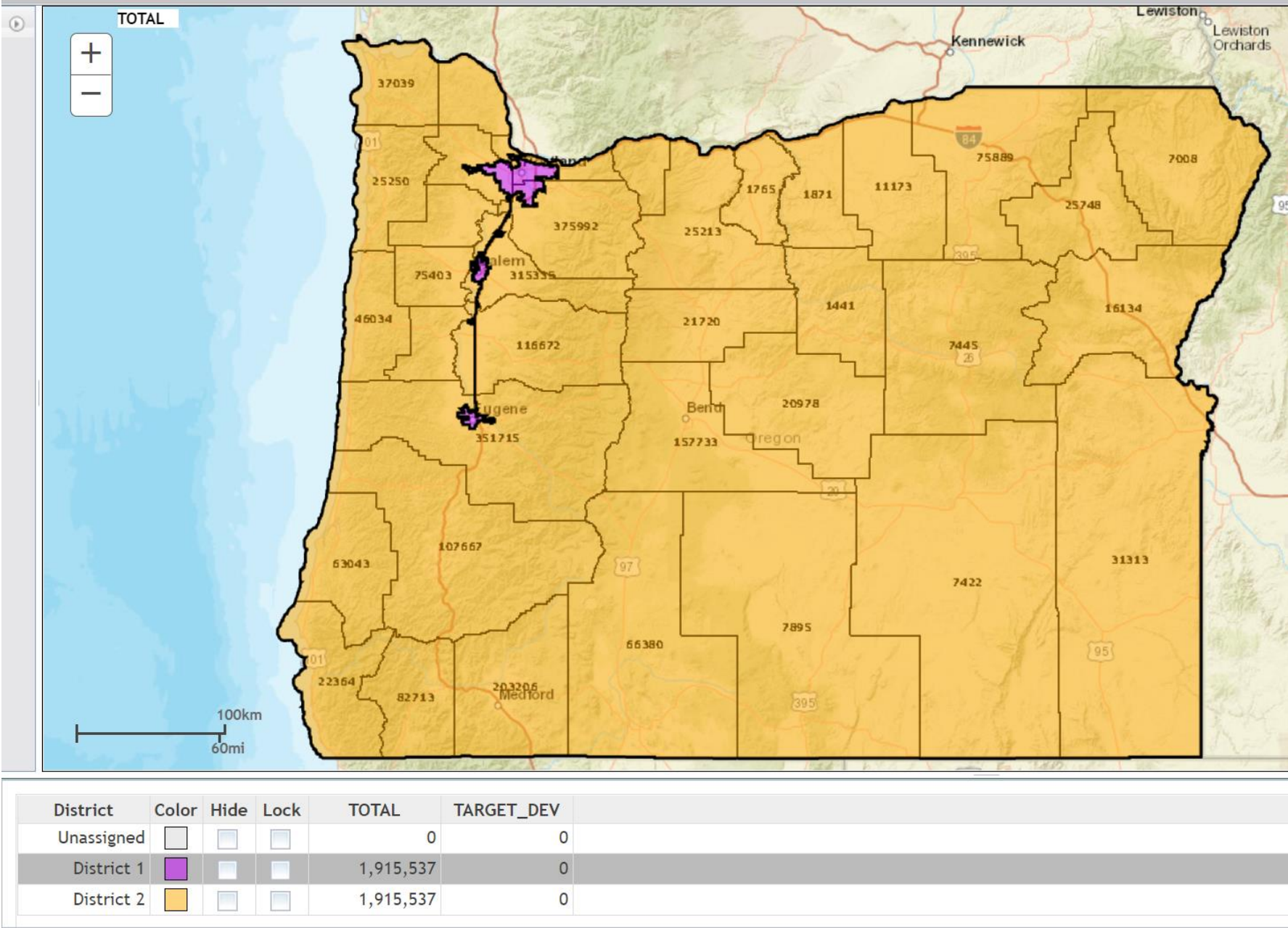


- Plans can be shared publicly, to groups, or specific users
- Can export mapping and image files
- Plans can be compared with others available to you
 - Any plan publicly shared
 - Limited graphical interface, however

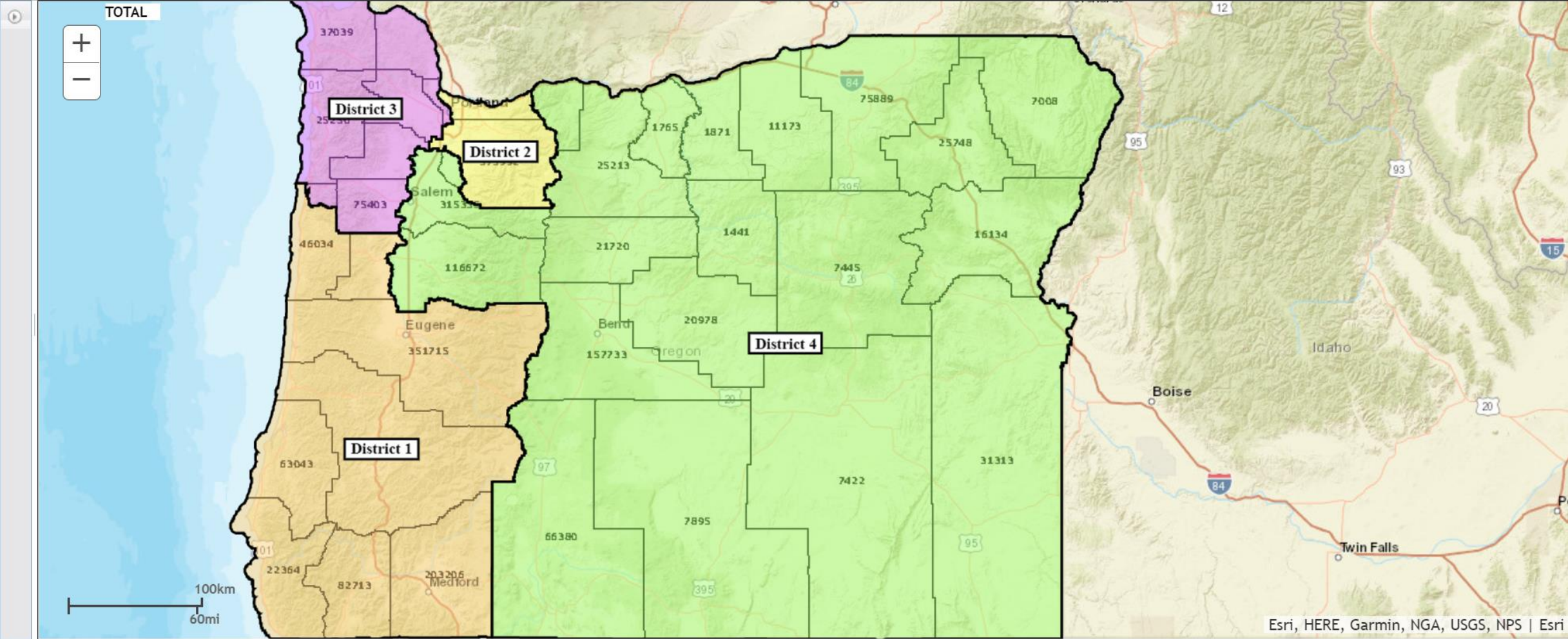
File	Learn	View	Create	Review	Share	Submit
						
Attach Files	Information	Comments	Access Log	Share Plan	Lock Plan	Unlock Plan
Plan Information				Organization		
						
				Manage Groups	Group Invites	Edit Profile

EXAMPLE: 50/50 POPULATION DISTRIBUTION

- Redistricting tools as geographic and Census education
- Population distribution not even across the state
- 50% of Oregon's 2010 population lives in the purple area, while 50% lives in the orange area
- This map was created using 2010 Census blocks, the smallest geographic unit of data available

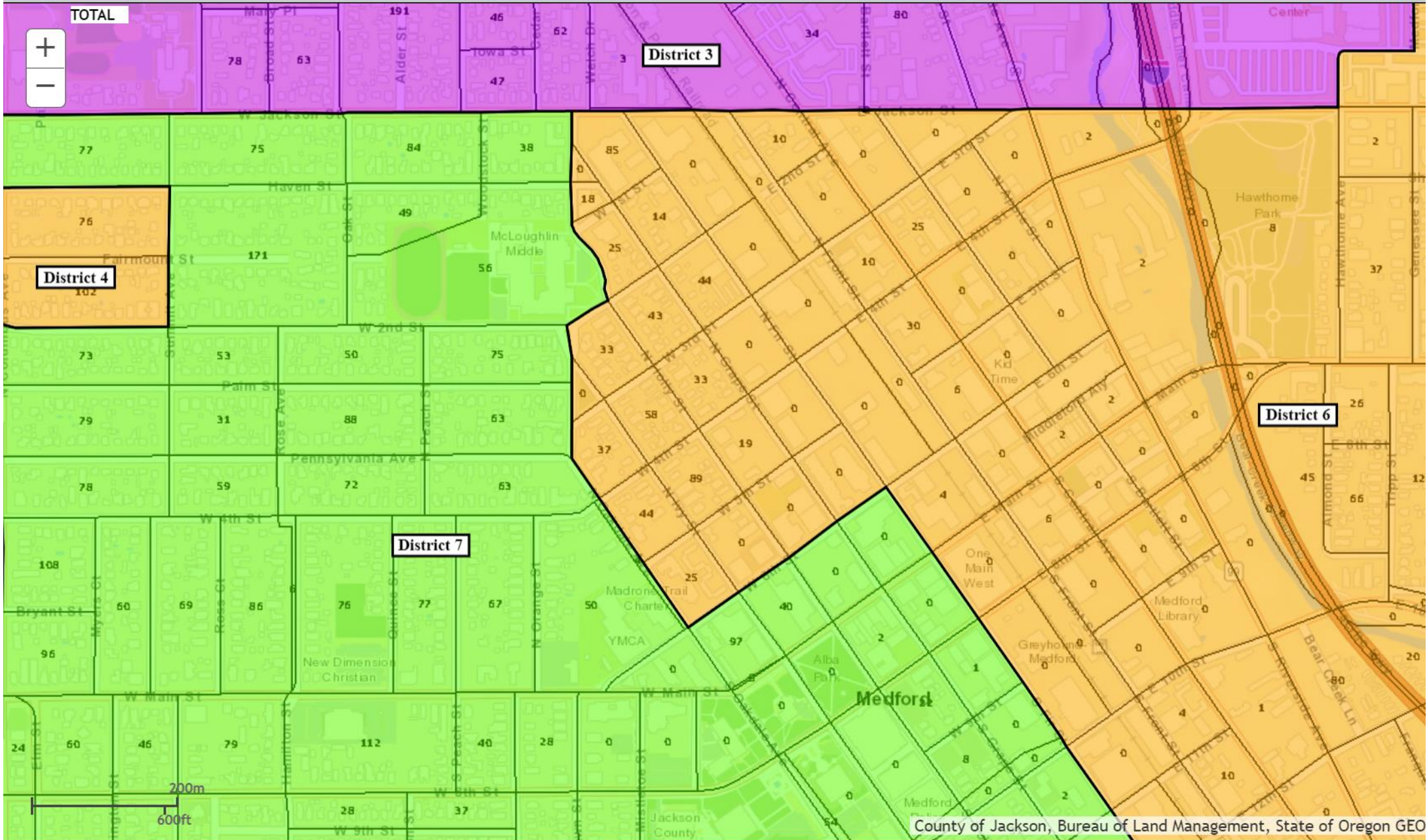


EXAMPLE: STATE-LEVEL VIEW



District	Color	Hide	Lock	TOTAL	TARGET_DEV
Unassigned	<div></div>	<div></div>	<div></div>	0	0
District 1	<div></div>	<div></div>	<div></div>	957,769	0
District 2	<div></div>	<div></div>	<div></div>	957,768	-1
District 3	<div></div>	<div></div>	<div></div>	957,768	-1
District 4	<div></div>	<div></div>	<div></div>	957,769	0

EXAMPLE: BLOCK-LEVEL VIEW



THANK YOU FOR YOUR TIME!



Questions?

Comments?