Fresno Irrigation District Redistricting Summary Statistics

Scenario 2 – Division Summary Statistics

01/11/2022

Ideal Population Criterion

Ideal Population	118,006
Overall Range	0.3%

< 5.0%	5.0 - 10.0%	> 10.0%

2020 Census P.L. 94-171 Redistricting
Data Summary Files - Total Population.

Total Population & Deviation per District

Division ID	Total Population	Over / Under Ideal	Deviation From Ideal
1	118,076	70	0.1%
2	117,859	-147	-0.1%
3	117,914	-92	-0.1%
4	118,025	19	0.0%
5	118,155	149	0.1%

Total Population by Race/Ethnicity per District

Division ID	White	Black or African American	American Indian or Alaska Native	Asian	Native Hawaiian and Pacific Islander	Some Other Race	Two or More Races	Hispanic/ Latino
1	48.0%	2.2%	0.5%	16.1%	0.2%	0.6%	4.7%	27.7%
2	36.1%	5.8%	0.8%	10.5%	0.2%	0.6%	4.0%	42.0%
3	12.9%	6.9%	0.5%	21.4%	0.1%	0.5%	2.1%	55.4%
4	17.7%	7.3%	0.6%	10.6%	0.1%	0.5%	2.4%	60.6%
5	39.6%	5.6%	0.5%	13.3%	0.1%	0.6%	3.9%	36.2%

2020 Census P.L 94-171 Redistricting Data Summary Files - Total Population by Race and Hispanic/Latino Origin.

CVAP by Race/Ethnicity per District

Division ID	White	Black or African American	American Indian or Alaska Native	Asian	Native Hawaiian and Pacific Islander	Two or More Races	Hispanic/ Latino
1	58.3%	2.0%	0.3%	13.2%	0.1%	1.5%	24.5%
2	48.8%	6.0%	0.7%	8.5%	0.1%	2.3%	33.4%
3	21.7%	8.9%	0.6%	20.9%	0.2%	1.4%	45.8%
4	28.7%	10.2%	0.7%	9.2%	0.1%	1.4%	49.3%
5	51.7%	6.3%	0.2%	10.6%	0.0%	1.7%	29.4%

California Statewide Database Unadjusted 2015-2019 American Community Survey Citizen Voting-age Population (CVAP) by Race and Ethnicity Special Tabulation. Rounding of estimates may lead to summation of percentages not equal to 100% (+/- 1%).

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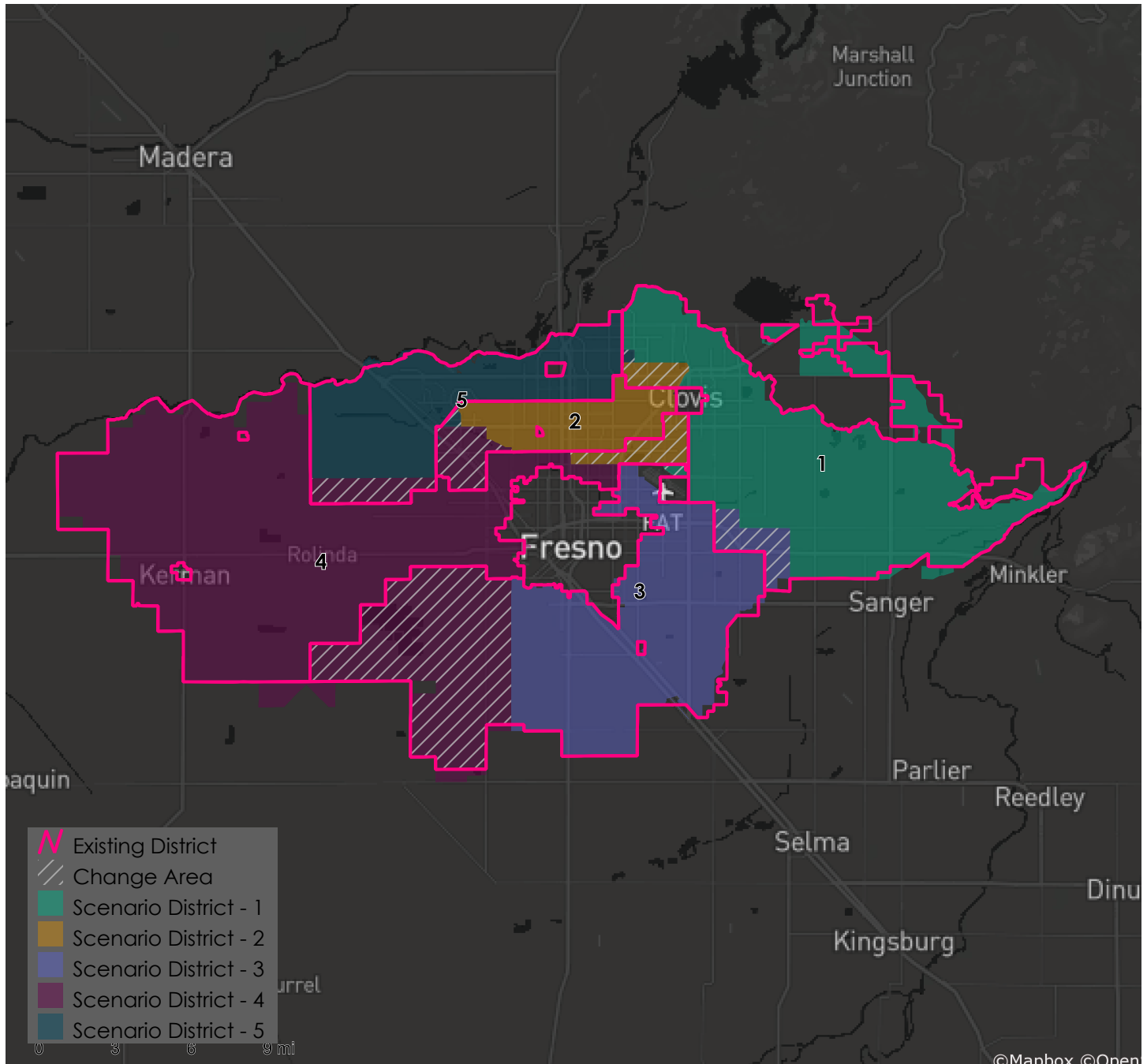01/11/2022

Compactness Measures per District

Division ID	Polsby-Popper	Reock	Convex Hull	Length-Width	Schwartzberg
1	0.12	0.29	0.63	0.62	2.89
2	0.37	0.32	0.78	0.44	1.65
3	0.21	0.46	0.73	0.95	2.16
4	0.21	0.41	0.71	0.70	2.19
5	0.22	0.25	0.69	0.52	2.14

A single definitive measure of compactness does not exist, and no specific scores for any measures indicate satisfactory or unsatisfactory compactness. Measures are typically based on comparing geometric features of the district (e.g. perimeters, areas) to the features of a related base geometric object (e.g. minimum bounding circle, convex hull). In practice, compactness tends to be assessed by a visual test-a district in which people generally live near each other is usually more compact than one in which they do not. In California, districts are compact when they do not bypass nearby population for people farther away. Note that Polsby-Popper, Reock, Convex Hull, and Length-Width scores fall within the range of 0-1, with 0 being the least compact and 1 being the most compact. In comparison, a Schwartzberg score of 1 is the most compact and higher scores are increasingly less compact.

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Legend:
- *N* Existing District
- Change Area
- Scenario District - 1
- Scenario District - 2
- Scenario District - 3
- Scenario District - 4
- Scenario District - 5

Metadata

Run Time Stamp: 2022-01-11 11:56:35

Workflow Directory: X:\F2148_Fresno_Irrigation_District\Projects\Alteryx\

District Scenario: File: gdb:X:\F2148_Fresno_Irrigation_District\Data\Redist.gdb|||Districts_Scenario_2