Catherine Seita
New Jersey, Massachusetts, Iowa, and Kansas Reports
Draw Congress: Stanford Redistricting Project
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## Massachusetts

Least Change Plan ${ }^{1}$


## I. Introduction

This least change plan of Massachusetts was intended to resemble the preexisting map as much as possible. Accordingly, there is minimal deviation between the original and the proposed lines. Due to a decline in population in western Massachusetts, the shifts from preexisting lines are more pronounced in that area. As in the good government map of Massachusetts, these proposed districts achieve perfect population equality and are in compliance with federal and

[^0]state law.

## II. Evaluation of Relevant Criteria

## A. Demographic Considerations

As the boundaries from the original map have been retained for the most part, the racial demographics and political data across all districts in the proposed plan are extremely similar to their current values under the preexisting plan. District 9, for instance, has a white CVAP of 92.1\%, a Black CVAP of $3.0 \%$, and a Hispanic CVAP of $3.6 \%$ under the preexisting lines. Under this least change plan, these values remain the same. Additionally, $59.0 \%$ of voters in the preexisting map's District 9 voted Democrat in the 2020 Presidential election, while $41.0 \%$ voted Republican. Under the proposed plan, $58.9 \%$ of District 9's voters will have voted Democrat, while $41.1 \%$ will have voted Republican-a very slight change.

## B. Geographic Considerations

This map prioritizes keeping with preexisting lines, with some straying to ensure perfect population equality. The proposed districts therefore largely resemble the preexisting ones, with the most significant changes occurring in the western portion of the state, where there was a more pronounced change in population than in the eastern districts. Achieving a greater degree of compactness was a minor, secondary goal-the average compactness scores for districts under this plan are the same or greater under all of the performed tests, the one exception being the Population Circle test. Finally, all districts are contiguous and the map contains no unassigned areas.

## C. Political Subdivisions

Of Massachusetts' 14 counties, four are enclosed in a single district under this plan. Four of the 10 split counties are split among two districts, three are split among three, one is split
among four, one is split among five, and one is split among six. These numbers are nearly identical to those of the preexisting plan's, where four counties were contained within a single district, and of the 10 counties that were split, four were split among two districts, three were split among three, one was split among four, and two were split among five.

## D. Communities of Interest

Of the 248 cities and towns in Massachusetts, 236 are undivided in this map. All of the 12 split cities and towns were split in two, leaving a total of 24 splits of cities and towns overall. This is, again, almost exactly the same as the preexisting plan, where 237 cities and towns were left intact, with all of the 11 divided cities and towns split in two.

## E. Partisan Considerations

According to the PlanScore Assessment ${ }^{2}$ of this new plan, all districts will be reliably Democratic. With Democrats poised to win $95 \%$ of the seats with $62 \%$ of the votes, this map appears to heavily favor Democrats. This element of the plan is similar to the preexisting one, under which Democrats won elections for all nine of Massachusetts' seats.

## III. Legal Compliance

## A. One Person, One Vote

In 1964, the Supreme Court applied the principle of "one person, one vote" in Wesberry $v$. Sanders, holding that Article I, Section 2 of the United States Constitution commands that "one [person]'s vote in a congressional election is to be worth as much as another's" to the extent practicable. ${ }^{3}$ In 1983, the Court further clarified in Karcher v. Daggett that, while precise mathematical equality may be impossible, even insignificant deviations in population between districts are unacceptable when avoidable and unjustified. ${ }^{4}$ In Karcher, the Court rejected the

[^1]state of New Jersey's argument that a population deviation of $0.7 \%$ between districts should be excused as de minimis. ${ }^{5}$

This plan complies with the "one person, one vote" requirement. With each district containing 781,102 people (plus or minus one person), there is essential perfect population equality.

## B. Voting Rights Act

Section 2 of the Voting Rights Act disallows congressional maps that deny minority voters an equal opportunity to "participate in the political process and to elect representatives of their choice. ${ }^{.6}$ Under Thornburg v. Gingles, challenges to district lines on the basis of this provision must first pass a three-part test to prevail. First, the minority group must "demonstrate that it is sufficiently large and geographically compact to constitute a majority" in a district in the state; second, the minority group "must be able to show that it is politically cohesive"; third, the minority group "must be able to demonstrate that the white majority votes sufficiently as a bloc to enable it ... usually to defeat the minority's preferred candidate". ${ }^{7}$

Massachusetts' Black and Hispanic populations are probably not large or geographically condensed enough that Section 2 of the Voting Rights Act would require a majority-Black or majority-Hispanic district. Given this plan's similarities to the preexisting one, which avoided legal challenges, it is unlikely that the lack of such districts would be found to violate Section 2.

## C. Shaw v. Reno

Although Section 2 of the Voting Rights Act requires that states draw districts that provide minority groups a chance to elect their own candidates where feasible, the Supreme Court has also made it clear that districts drawn with race as the predominant factor must be

[^2]evaluated with skepticism. In Shaw vs. Reno, the Court held that plaintiffs can be granted relief under the Equal Protection Clause when challenging a plan that is "so extremely irregular on its face that it rationally can be viewed only as an effort to segregate the races for purposes of voting, without regard for traditional districting principles and without sufficiently compelling justification." ${ }^{8}$ Two years later, the Court further developed this idea, holding in Miller v. Johnson that strict scrutiny is triggered when the predominant factor motivating the drawing of district lines was race. ${ }^{9}$ Also in Miller, the Court determined that bizarrely-shaped districts may indicate that race was in fact the predominant factor. ${ }^{10}$

Without a majority-Black or majority-Hispanic district, there is no reason to fear a Shaw claim.

## D. Massachusetts State Law

Massachusetts state law provides additional requirements for state legislative districts when it comes to compactness, contiguity, and keeping municipalities intact, but places no additional requirements on congressional districts extending beyond federal law. .
IV. Comparison to the Approved Plan

This plan closely resembles the congressional map ${ }^{11}$ that was actually approved by the Massachusetts State Legislature. Both seemed to be motivated, at least in part, by the goal of minimizing deviation from the preexisting district lines.
V. Conclusion

This map was motivated by the goal of forming districts that achieve perfect population equality without deviating much from preexisting lines. The resulting plan greatly resembles the

[^3]one approved in the 2010 cycle and is legally defensible.
VI. Appendix

Close-ups of Urban Regions:


District Composition (Preexisting):

| District | Population | Deviation | W-CVAP | B-CVAP | H-CVAP | $\% \mathrm{D}\left({ }^{\prime} 20\right)$ | $\% \mathrm{R}\left({ }^{\prime} 20\right)$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 730,467 | $-50,635$ | $77.3 \%$ | $5.6 \%$ | $15.0 \%$ | $62.4 \%$ | $37.6 \%$ |
| 2 | 780,054 | $-1,048$ | $83.2 \%$ | $4.1 \%$ | $7.9 \%$ | $63.1 \%$ | $36.9 \%$ |
| 3 | 796,664 | 15,562 | $75.1 \%$ | $3.0 \%$ | $14.7 \%$ | $64.7 \%$ | $35.3 \%$ |
| 4 | 777,137 | $-3,965$ | $87.7 \%$ | $3.0 \%$ | $3.8 \%$ | $65.7 \%$ | $34.3 \%$ |
| 5 | 794,966 | 13,864 | $79.4 \%$ | $4.9 \%$ | $6.5 \%$ | $75.7 \%$ | $24.3 \%$ |
| 6 | 777,832 | $-3,270$ | $87.2 \%$ | $2.9 \%$ | $6.0 \%$ | $63.7 \%$ | $36.3 \%$ |
| 7 | 799,816 | 18,714 | $51.0 \%$ | $23.8 \%$ | $15.5 \%$ | $86.5 \%$ | $13.5 \%$ |
| 8 | 798,458 | 17,356 | $79.3 \%$ | $9.0 \%$ | $4.7 \%$ | $67.3 \%$ | $32.7 \%$ |
| 9 | 774,523 | $-6,579$ | $91.2 \%$ | $3.0 \%$ | $3.6 \%$ | $59.0 \%$ | $41.0 \%$ |

District Composition (Proposed):

| District | Population | Deviation | W-CVAP | B-CVAP | H-CVAP | $\% \mathrm{D}\left({ }^{\prime} 20\right)$ | \%R (‘20) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 781,101 | -1 | $77.8 \%$ | $5.4 \%$ | $14.3 \%$ | $64.0 \%$ | $36.0 \%$ |
| 2 | 781,103 | 1 | $83.4 \%$ | $4.1 \%$ | $7.8 \%$ | $60.8 \%$ | $39.2 \%$ |
| 3 | 781,102 | 0 | $74.6 \%$ | $3.1 \%$ | $14.9 \%$ | $65.0 \%$ | $35.0 \%$ |
| 4 | 781,103 | 1 | $87.7 \%$ | $2.9 \%$ | $3.8 \%$ | $65.6 \%$ | $34.4 \%$ |
| 5 | 781,102 | 0 | $78.8 \%$ | $5.2 \%$ | $6.6 \%$ | $77.0 \%$ | $23.0 \%$ |
| 6 | 781,101 | -1 | $87.1 \%$ | $2.9 \%$ | $6.0 \%$ | $64.1 \%$ | $35.9 \%$ |
| 7 | 781,103 | 1 | $50.9 \%$ | $23.8 \%$ | $15.7 \%$ | $86.3 \%$ | $13.7 \%$ |
| 8 | 781,101 | -1 | $79.0 \%$ | $9.2 \%$ | $4.7 \%$ | $67.3 \%$ | $32.7 \%$ |
| 9 | 781,101 | -1 | $91.2 \%$ | $3.0 \%$ | $3.6 \%$ | $58.9 \%$ | $41.1 \%$ |

Measures of Compactness (Preexisting): $:^{12}$

| District | Reock | Schwartz- <br> berg | Alternate <br> Schwartz- <br> berg | Polsby- <br> Popper | Population <br> Polygon | Area/ <br> Convex <br> Hull | Population <br> Circle | Ehren <br> burg |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 0.39 | 1.73 | 1.80 | 0.31 | 0.81 | 0.75 | 0.65 | 0.40 |
| 2 | 0.40 | 1.84 | 1.92 | 0.27 | 0.75 | 0.77 | 0.40 | 0.34 |
| 3 | 0.32 | 2.02 | 2.10 | 0.23 | 0.81 | 0.68 | 0.58 | 0.36 |
| 4 | 0.37 | 2.33 | 2.46 | 0.17 | 0.50 | 0.65 | 0.33 | 0.26 |
| 5 | 0.31 | 2.32 | 2.45 | 0.17 | 0.44 | 0.62 | 0.29 | 0.24 |
| 6 | 0.58 | 1.44 | 1.61 | 0.38 | 0.60 | 0.81 | 0.31 | 0.50 |
| 7 | 0.21 | 3.45 | 3.64 | 0.08 | 0.57 | 0.38 | 0.45 | 0.11 |
| 8 | 0.39 | 2.54 | 2.69 | 0.14 | 0.56 | 0.60 | 0.31 | 0.19 |
| 9 | 0.59 | 1.39 | 1.86 | 0.29 | 0.80 | 0.80 | 0.67 | 0.38 |
| Mean | 0.40 | 2.12 | 2.28 | 0.23 | 0.65 | 0.67 | 0.44 | 0.31 |

${ }^{12}$ Numbers closer to 1 indicate a higher degree of compactness.
Catherine Seita 7

Measures of Compactness (Proposed):

| District | Reock | Schwartz- <br> berg | Alternate <br> Schwartz- <br> berg | Polsby- <br> Popper | Population <br> Polygon | Area/ <br> Convex <br> Hull | Population <br> Circle | Ehren <br> -burg |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 0.42 | 1.64 | 1.71 | 0.34 | 0.86 | 0.80 | 0.69 | 0.59 |
| 2 | 0.40 | 1.91 | 1.99 | 0.25 | 0.74 | 0.76 | 0.40 | 0.43 |
| 3 | 0.35 | 1.90 | 1.98 | 0.25 | 0.84 | 0.73 | 0.37 | 0.49 |
| 4 | 0.38 | 2.29 | 2.43 | 0.17 | 0.51 | 0.65 | 0.33 | 0.26 |
| 5 | 0.30 | 2.27 | 2.39 | 0.17 | 0.44 | 0.61 | 0.29 | 0.25 |
| 6 | 0.57 | 1.39 | 1.57 | 0.41 | 0.66 | 0.83 | 0.31 | 0.51 |
| 7 | 0.21 | 3.31 | 3.50 | 0.08 | 0.58 | 0.39 | 0.45 | 0.11 |
| 8 | 0.40 | 2.60 | 2.76 | 0.13 | 0.55 | 0.60 | 0.30 | 0.19 |
| 9 | 0.59 | 1.42 | 1.89 | 0.28 | 0.81 | 0.80 | 0.68 | 0.38 |
| Mean | 0.40 | 2.08 | 2.25 | 0.23 | 0.67 | 0.69 | 0.42 | 0.36 |


[^0]:    ${ }^{1}$ Dotted lines indicate previous district boundaries.

[^1]:    ${ }^{2}$ Available at https://planscore.campaignlegal.org/plan.html?20211123T042732.190063778Z.
    ${ }^{3}$ Wesberry v. Sanders, 376 U.S. 1, 8 (1964).
    ${ }^{4}$ Karcher v. Daggett, 462 U.S. 725, 734 (1983).

[^2]:    ${ }^{5}$ Id. at 732 .
    ${ }^{6} 52$ U.S.C. §10301(b) (1982).
    ${ }^{7}$ Thornburg v. Gingles, 478 U.S. 30, 50-51 (1986).

[^3]:    ${ }^{8}$ Shaw v. Reno, 509 U.S. 630, 642 (1993).
    ${ }^{9}$ Miller v. Johnson, 515 U.S. 900, 920 (1995).
    ${ }^{10}$ Id. at 913.
    ${ }^{11}$ Available at https://redistricting.lls.edu/wp-content/uploads/ma_2020_congress_2021-11-05_2031-06-30.pdf.

