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U.S. DISTRICT COURT
N.D. OF ALABAMA

EXHIBIT 8

Grofman 2023 Plan

Grofman 2023 Plan

Plan Characteristics	Grofman 2023 Plan
Maximum Population Deviation	1
Contiguous	Yes
Core Retention (% Population in Same District as in 2023 Plan): Statewide	87.5%
County Splits (out of 67 counties)	6
Voting District Splits (out of 1,837 voting districts)	38
Municipality Splits (out of 462 municipalities)	24
Municipality Splits, excluding where at least 95% of population is together	15
Birmingham Split (% Population)	District 6: 12.1% District 7: 87.9%
Mobile (City) Split (% Population)	District 1: 10.1% District 2: 89.9%
Core Black Belt (out of 18 counties)	District 2: 8 counties District 7: 10 counties
Compactness: Reock Score: Statewide	0.35
Compactness: Polsby-Popper Score: Statewide	0.23
Compactness: Population Polygon Score: Statewide	0.68
Compactness: Cut Edges: Statewide	3,663

District Characteristics	District 1	District 2	District 3	District 4	District 5	District 6	District 7
Total Population	717,754	717,754	717,754	717,754	717,754	717,754	717,755
Core Retention (compared to 2023 Plan)	66.6%	59.3%	100.0%	100.0%	100.0%	94.1%	92.7%
Compactness: Reock Score	0.21	0.25	0.41	0.33	0.37	0.45	0.44
Compactness: Polsby-Popper Score	0.14	0.14	0.35	0.20	0.40	0.19	0.19
Compactness: Population Polygon Score	0.73	0.63	0.91	0.41	0.96	0.56	0.55
Black Voting Age Population	16.1%	48.7%	20.7%	7.2%	18.3%	17.1%	52.5%

Grofman 2023 Plan Election Performance Analysis

The percentage below is the margin of victory or defeat of the Black-preferred candidate (equal to the vote count for the Black-preferred candidate minus the vote count for the other top-vote getting candidate, divided by the total number of votes of those two candidates, excluding third-party or "other" votes). The average is a simple average (equally weighted) of all unique election contests without duplicates; in the event of a duplicate, the Legislature's data was used.

Election Contest	**District 1**	**District 2**	**District 3**	**District 4**	**District 5**	**District 6**	**District 7**
Average	-51.8%	**8.9%**	-40.1%	-57.7%	-29.3%	-42.6%	**29.2%**
Count (out of 17 contests)	0	**14**	0	0	0	0	**17**
Data Supplied by the Legislature (Dr. Trey Hood)							
2017 U.S. Senate	-28.2%	**31.7%**	-12.4%	-37.5%	-0.6%	-11.7%	**49.9%**
2018 Attorney General	-43.7%	**17.4%**	-33.4%	-50.4%	-21.7%	-34.2%	**34.6%**
2018 Auditor	-47.3%	**14.3%**	-36.5%	-54.8%	-24.0%	-38.0%	**31.9%**
2018 Governor	-46.4%	**12.0%**	-34.8%	-50.3%	-22.8%	-33.1%	**33.7%**
2018 Lt. Governor	-48.9%	**12.3%**	-37.6%	-56.7%	-26.5%	-40.0%	**31.5%**
2018 Secretary of State	-48.5%	**12.6%**	-37.0%	-56.5%	-25.1%	-39.3%	**31.3%**
2020 President	-50.9%	**11.3%**	-41.4%	-62.7%	-27.6%	-38.7%	**29.8%**
2020 U.S. Senate	-43.8%	**15.7%**	-36.3%	-56.3%	-21.1%	-33.4%	**33.0%**
2022 Attorney General	-60.9%	-0.9%	-52.3%	-71.4%	-37.7%	-48.5%	**22.7%**
2022 Governor	-64.1%	-4.3%	-55.1%	-74.4%	-43.6%	-52.8%	**20.9%**
2022 Secretary of State	-61.4%	**0.2%**	-52.6%	-71.8%	-38.0%	-49.3%	**23.8%**
2022 U.S. Senate	-62.5%	-2.0%	-52.9%	-71.6%	-39.2%	-49.3%	**22.6%**
Data Supplied by the Milligan Plaintiffs (Dr. Baodong Liu)							
2014 Auditor	-54.7%	**4.0%**	-35.0%	-47.4%	-34.6%	-55.9%	**25.5%**
2014 Lt. Governor	-56.0%	**5.2%**	-38.0%	-42.5%	-37.0%	-54.5%	**24.8%**
2014 Secretary of State	-56.3%	**6.0%**	-39.4%	-51.5%	-38.5%	-58.2%	**24.4%**
2018 Auditor	-47.3%	**14.5%**	-36.1%	-54.8%	-24.0%	-37.9%	**32.0%**
2018 Lt. Governor	-48.9%	**12.5%**	-37.2%	-56.7%	-26.5%	-39.8%	**31.6%**
2018 Pub. Serv. Comm'n	-47.8%	**14.5%**	-35.7%	-55.1%	-24.2%	-38.5%	**33.0%**
2020 President	-50.5%	**11.2%**	-37.9%	-61.8%	-28.1%	-39.0%	**29.7%**
2022 Supreme Court	-59.9%	**0.8%**	-50.9%	-70.1%	-36.6%	-48.3%	**23.5%**
2022 Attorney General	-60.9%	-0.6%	-52.0%	-71.4%	-37.7%	-48.5%	**22.7%**
2022 Governor	-64.1%	-3.9%	-54.9%	-74.4%	-43.6%	-52.8%	**21.0%**
2022 Secretary of State	-61.4%	**0.6%**	-52.3%	-71.8%	-38.0%	-49.3%	**23.8%**
2022 U.S. Senate	-62.5%	-1.7%	-52.7%	-71.6%	-39.2%	-49.3%	**22.7%**

Lauderdale
Limestone
Madison
Jackson
Colbert
5
Lawrence
Morgan
Franklin
Marshall
DeKalb
Cullman
Cherokee
Marion
Winston
Etowah
Blount
4
Lamar
Fayette
Walker
St. Clair
Calhoun
Cleburne
3
Jefferson
Talladega
Pickens
Tuscaloosa
Shelby
Clay
Randolph
Greene
Bibb
6
Coosa
Tallapoosa
Chambers
Hale
Chilton
Perry
Elmore
Lee
Autauga
Sumter
Dallas
Macon
Russell
Marengo
Montgomery
7
Lowndes
Bullock
Choctaw
Wilcox
Barbour
Pike
Butler
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Clarke
Monroe
Henry
Washington
Coffee
Dale
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Calhoun
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Talladega
Pickens
Tuscaloosa
Shelby
Clay
Randolph
Greene
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