

**IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION**

ANNIE LOIS GRANT, et al.,

Plaintiffs,

v.

BRAD RAFFENSPERGER, et al.,

Defendants.

CASE NO. 1:22-CV-00122-SCJ

DEFENDANTS' STATEMENT OF UNDISPUTED MATERIAL FACTS

Defendants Brad Raffensperger, in his official capacity as Secretary of State; and State Election Board Members William S. Duffey, Sara Tindall Ghazal, Janice Johnston, Edward Lindsey, and Matthew Mashburn, also in their official capacities (collectively, "Defendants") pursuant to Rule 56 of the Federal Rules of Civil Procedure and Local Rule 56.1 submit this Statement of Material Facts as to Which There is No Genuine Issue to be Tried.

1. Census data showed that the increase in the percentage of Black voters in Georgia from 2010 to 2020 was slightly more than two percentage points. Deposition of Blakeman Esselstyn [Doc. 179] ("Esselstyn Dep.") at 103:18-104:4

2. Both chairs of the House and Senate committees with jurisdiction over redistricting sought to meet with all of their colleagues, both Republican and Democratic, to gain input on their areas of the state. Deposition of Gina Wright [Doc. 184] (“Wright Dep.”) at 68:17-69:7.

3. Consistent with past redistricting cycles, the joint House and Senate committees also held a series of “listening sessions” across the state to hear from citizens about maps, including several Zoom meetings. Deposition of John Kennedy [Doc. 186] (“Kennedy Dep.”) at 171:13-20, 194:1-195:10.

4. And for the first time in 2021, the General Assembly provided a public comment portal online, seeking comments from the public. Wright Dep. 252:20-253:4.

5. After holding a committee education day where a variety of stakeholder groups presented about map-drawing, the committees adopted guidelines to govern the map-drawing process. Kennedy Dep. 161:1-4; Deposition of Bonnie Rich [Doc. 187] (“Rich Dep.”) 214:19-215:7.

6. To prepare maps, Gina Wright, the director of the Joint Reapportionment Office, drafted “blind” maps for the House and Senate, essentially drawing based on her own knowledge of Georgia and the historic districts. Wright Dep. 45:15-25 (Senate map); 62:17-62:24 (House map).

7. The chairs of the House and Senate committees then met with Ms. Wright to adjust district boundaries based on the input they received from members and from others. Wright Dep. 54:3-20, 77:2-7 (Senate map); 197:2-6 (House map).

8. When Democrats requested changes, some of those changes were included. Wright Dep. 59:5-60:7 (Sen. Rhett).

9. Information about draft maps was also shared with members of the Democratic caucus, which had its own counsel and map-drawers. Wright Dep. 223:14-224:4, 226:11-17; Deposition of Derrick Jackson [Doc. 188] (“Jackson Dep.”) at 12:9-21.

10. The chairs and Ms. Wright also consulted with counsel about compliance with the Voting Rights Act. Wright Dep. 92:8-20.

11. While racial data was available, the chairs of each committee focused on past election data to evaluate the partisan impact of the new plans while drawing with awareness of Republican political performance. Wright Dep. 55:25-56:7; 140:3-11; 140:17-19; 257:21-258:1; 258:2-14.

12. The resulting Senate map reduced the number of split counties from the prior plan, did not pair any incumbents of either party who were running for re-election, and maintained the same number of majority-Black

districts as prior plans. Report of Blakeman Esselstyn, attached as Ex. A (“Esselstyn Report”), ¶ 40 n.10; Kennedy Dep. 106:4-11.

13. The state House maps also reduced the number of split counties, increased the number of majority-Black districts in metro Atlanta, and paired a small number of incumbents. Esselstyn Report, ¶¶ 59-61.

14. The Governor signed the plans on December 30, 2021, and they were used in the 2022 elections. Amended Complaint [Doc. 96, ¶ 40].

15. The SEB stated in its responses to interrogatories, that they “were not involved in the map-drawing process.” Responses to Interrogatories, attached as Ex. B, at Response No. 2.

16. Annie Lois Grant (“Grant”) is registered to vote in Greene County, Georgia. Deposition of Annie Lois Grant [Doc. 169] (“Grant Deposition”) at 13:6-11, 24:4-6.

17. Grant is a member of the Democratic Party. *Id.* at 26:20-22.

18. Grant has been Chair of the Greene County Democratic Party for 11 years. *Id.* at 26:25-27:9.

19. Grant is in her third term as a state committee member of the Democratic Party of Georgia. *Id.* at 27:18-24.

20. Grant has done volunteer work for campaigns of local Democratic candidates. *Id.* at 29:23-31:6, 31:19-32:25.

21. Grant has done volunteer work for campaigns of statewide Democratic candidates and for presidential Democratic candidates. *Id.* at 33:1-10.

22. Quentin T. Howell (“Howell”) resided in Milledgeville, Georgia, at the time of the filing of the initial Complaint in *Grant* on January 11, 2022. Deposition of Quentin T. Howell [Doc. 170] (“Howell Dep.”) at 17:22-24.

23. Howell is a member of the Baldwin County Democratic Party. *Id.* at 27:3-5.

24. Howell has served as Chairman of several committees of the Baldwin County Democratic Party over the past ten years. *Id.* at 43:11-22.

25. Howell is a member of the Georgia Association of Democratic Chairs. *Id.* at 27:6-7.

26. Howell is a member of the African-American Caucus of the Georgia Democratic Party. *Id.* at 27:10-12.

27. Howell is a member of the Central Georgia Democratic Coalition. *Id.* at 27:13-14.

28. Elroy Tolbert (“Tolbert”) is registered to vote in Bibb County, Georgia. Deposition of Elroy Tolbert [Doc. 175] (“Tolbert Deposition”) at 15:6-16.

29. Tolbert has been a member of the Democratic Party since he started voting. *Id.* at 17:12-16.

30. Tolbert participated in a Democratic Party voter registration drive in 2011 or earlier. *Id.* at 17:23-18:6.

31. Triana Arnold James (“James”) is registered to vote in Douglas County, Georgia. Deposition of Triana Arnold James [Doc. 171] (“James Deposition”) at 37:5-8.

32. James considers herself to be a member of the Democratic Party. *Id.* at 38:20-22.

33. In 2018, James ran for Lieutenant Governor in the Democratic primary, but she did not receive the nomination. *Id.* at 41:9-18.

34. In “2020/2021,” James ran for State Senate in the Democratic primary for Senate District 30, but she did not receive the nomination. *Id.* at 40:20-41:8.

35. Eunice Sykes (“Sykes”) is registered to vote in Henry County, Georgia. Deposition of Eunice Sykes [Doc. 174] (“Sykes Deposition”) at 10:24-25-11:1, 22:8-13, 23:7-9.

36. Sykes is a member of the Democratic Party. *Id.* at 26:9-13.

37. Elbert Solomon (“Solomon”) has been registered to vote in Spalding County since 2015. Deposition of Elbert Solomon [Doc. 173] (“Solomon Dep.”) at 25:8-12.

38. Solomon is a member of the Democratic Party. *Id.* at 27:18-20.

39. Solomon supports Democratic candidates in Georgia and in other states, such as his birth state of Mississippi. *Id.* at 30:8-13.

40. Solomon has voted for members of the Republican Party, but only when there were no members of the Democratic Party on the ballot in those elections. *Id.* at 30:14-20.

41. Dexter Wimbish (“Wimbish”) is registered to vote in Spalding County, Georgia. Deposition of Dexter Wimbish [Doc. 176] (“Wimbish Dep.”) at 29:9-12, 31:4-8.

42. Wimbish is a member of the Democratic Party of Spalding County. *Id.* at 20:2-7.

43. In 2021, Wimbish ran as a Democrat for election as district attorney for the Griffin Judicial District, but he did not win. *Id.* at 24:6-25:21.

44. Plaintiff Garrett Reynolds (“Reynolds”) has resided at his current address in Fayette County, Georgia for approximately 10 years. Deposition of Plaintiff Garrett Reynolds [Doc. 172] (“Reynolds Dep.”) at 12:5-16.

45. Reynolds has considered himself to be a member of the Democratic Party “[s]ince the day Donald Trump became president.” *Id.* at 30:21-31:5.

46. Reynolds has been a member of the Fayette County Democratic Committee since 2017. *Id.* at 19:9-25.

47. According to Reynolds, the goal of the Fayette County Democratic Committee “is to locate and elect [D]emocrats to public office.” *Id.* at 21:2-4.

48. According to Reynolds, he has never considered himself a member of the Republican Party and has not voted for a Republican Party candidate since 2000. *Id.* at 32:4-23.

49. Jacqueline Faye Arbuthnot tends to support Democrats rather than Republicans for office. Deposition of Jacqueline Faye Arbuthnot Vol. II [Doc. 166] (“Arbuthnot Dep.”) at 12:17-20

50. Jacquelyn Bush (“Bush”) is registered to vote in Fayette County, Georgia. Deposition of Jacquelyn Bush [Doc. 167] (“Bush Deposition”) at 16:11-17:10.

51. Bush is a member of the Democratic Party. *Id.* at 18:22-24.

52. Bush participated in a Democratic Party voter registration drive in 2008. *Id.* at 19:8-16.

53. Bush worked on a phone bank for the presidential campaign for Barack Obama in 2008. *Id.* at 20:8-11, 16-18.

54. Mary Nell Conner (“Conner”) is registered to vote in Henry County, Georgia. Deposition of Mary Nell Conner [Doc. 168] (“Conner Deposition”) at 14:23-15:14.

55. Conner has been a member of the Democratic Party since 2005. *Id.* at 16:10-14.

56. Plaintiffs began planning for this litigation before the Georgia maps were even complete—retaining experts to begin drawing alternative maps before the special session was over. Esselstyn Dep. 54:14-55:13.

57. Plaintiffs’ goal in offering their illustrative plans was to determine whether they could draw additional majority-Black districts beyond those drawn by the state plans. Esselstyn Dep. 63:19-64:1.

58. Map-drawers distinguish “majority-minority” from “majority-Black.” Majority-minority districts have a majority of non-white and Latino voters, while majority-Black districts are districts where Black voters as a single racial category constitute a majority of a district. Esselstyn Dep. 68:20-69:9

59. When Mr. Esselstyn was creating his illustrative maps, he turned on features in the software to indicate where Black individuals were

located, including using it to inform decisions about which populations were included and excluded from districts. Esselstyn Dep. 76:21-77:12, 77:20-77:25.

60. Mr. Esselstyn focused on areas with higher concentrations of Black voters for looking where additional districts could be drawn. Esselstyn Dep. 85:6-10.

61. Unlike the legislature, Mr. Esselstyn did not have any political data available to him. Wright Dep. 55:25-56:7; 140:3-11; 140:17-19; 257:21-258:1; 258:2-14; Esselstyn Dep. 229:23-230:1.

62. Mr. Esselstyn's county splits were often racial in nature. Report of John Morgan, attached as Ex. C ("Morgan Report"), ¶¶ 33, 54.

63. Mr. Esselstyn did not review any public comment until after drafting his preliminary injunction plans. Esselstyn Dep. 148:23-149:6.

64. Mr. Esselstyn's illustrative plans contained the maximum number of Black districts he drew for any legislative plan in Georgia. Esselstyn Dep. 64:2-17, 64:18-65:2.

65. Mr. Esselstyn created three additional majority-Black Senate districts in his expert report. Esselstyn Report, ¶ 27.

66. In order to create the additional Senate districts, Mr. Esselstyn modified 22 of the 56 state Senate districts. Esselstyn Report, ¶ 26.

67. To create Senate District 23, Mr. Esselstyn split counties based on race—in each case where a county is split, the higher-Black-percentage portion of the county is included in illustrative District 23, while the lower-Black-percentage portion of the county is outside of illustrative District 23. Esselstyn Dep. 141:24-142:3.

68. To create Senate District 25, Mr. Esselstyn could not recall why he decided to connect Clayton and Henry Counties in a single district. Esselstyn Dep. 149:24-150:14.

69. In creating Senate District 25, Mr. Esselstyn significantly altered Senate District 10 to include areas with significant white populations and lengthening the district to measure 43 miles from north to south. Morgan Report, ¶¶26-28.

70. As a result, the only county in Senate District 10 with a majority-Black voting age population is DeKalb County. Esselstyn Dep. 152:25-153:4.

71. To create Senate District 28, Mr. Esselstyn connected more-urban areas of Clayton County with more-rural areas in Coweta County. Esselstyn Dep. 153:10-154:1.

72. Mr. Esselstyn was not trying to ensure that Senate District 28 had areas in common with each other. Esselstyn Dep. 154:2-24.

73. Mr. Esselstyn also made changes to Senate District 35 that connected more-rural areas of Paulding County to Fulton County. Esselstyn Dep. 155:12-156:13.

74. The illustrative Senate plan has higher total population deviations than the enacted plan. Esselstyn Dep. 157:13-158:3.

75. Mr. Esselstyn did not report the compactness scores of districts that he changed, instead only reporting the average score for all districts, changed and unchanged. Esselstyn Dep. 158:23-159:7.

76. In his charts, Mr. Esselstyn did not include scores for other illustrative Senate districts that he altered. Esselstyn Dep. 160:15-23

77. The illustrative Senate plan also splits more counties and precincts than the enacted plan. Esselstyn Dep. 160:24-161:5.

78. Mr. Esselstyn created five additional majority-Black House districts in his expert report. Esselstyn Report, ¶ 48.

79. In order to create the additional House districts, Mr. Esselstyn modified 25 of the 180 state House districts. Esselstyn Report, ¶ 47.

80. Of the new districts created on Mr. Esselstyn's House plan, illustrative House Districts 64, 117, 145, and 149 are all less than 52% Black voting age population, with several barely above 50%. Esselstyn Report, ¶ 48, Table 5.

81. Illustrative House Districts 77 and 86 are both greater than 75% Black voting age population, which Mr. Esselstyn called accidental. Esselstyn Report, ¶ 48, Table 5; Esselstyn Dep. 176:6-25.

82. To create illustrative House District 64, Mr. Esselstyn connected parts of Paulding and Fulton counties but could not identify any basis for connecting those areas. Esselstyn Dep. 180:16-23.

83. To create illustrative House District 74, Mr. Esselstyn connected heavier concentrations of Black individuals in Clayton County with more heavily white portions of Fayette County, while lowering the compactness of the surrounding districts. Esselstyn Dep. 180:24-181:13; Morgan Report, ¶ 54.

84. To create illustrative House District 117, Mr. Esselstyn connected parts of districts from Clayton County to rural areas and was unable to identify any community that was being kept whole in District 117. Esselstyn Dep. 182:12-184:11, 185:5-8.

85. To create illustrative House Districts 145 and 149 in Macon, Mr. Esselstyn lowered the Black percentages of the existing Macon districts to make Black population available to run into other counties and raise the Black percentages in Districts 145 and 149. Morgan Report, ¶ 58; Esselstyn Dep. 187:8-19.

86. Mr. Esselstyn modified the split of Baldwin County from the House plan offered at the preliminary-injunction stage. Esselstyn Dep. 191:18-192:11

87. As a result, all four House districts that include portions of Macon are all very close to 50% Black voting age population. Esselstyn Dep. 188:21-25.

88. The illustrative House plan has higher total population deviations than the enacted plan. Esselstyn Dep. 195:7-24.

89. Mr. Esselstyn did not report the compactness scores of districts that he changed, instead only reporting the average score for all districts, changed and unchanged. Esselstyn Dep. 196:19-197:4.

90. In his charts, Mr. Esselstyn did not include scores for other illustrative House districts that he altered. Esselstyn Dep. 197:11-198:1.

91. The illustrative House plan also splits one more county and one more precinct than the enacted plan. Esselstyn Dep. 198:18-21.

92. Unlike Mr. Cooper in *Alpha Phi Alpha*, Mr. Esselstyn did not draw any new majority-Black House districts in east Georgia, Esselstyn Dep. 177:21-24, or in southwest Georgia. Esselstyn Dep. 177:14-20.

93. Unlike Mr. Esselstyn, Mr. Cooper only drew one additional majority-Black state House district in Macon (instead of two) and did not

draw an additional majority-Black district in western metro Atlanta. Report of William Cooper in *Alpha Phi Alpha*, attached as Ex. D (“Cooper Report”), ¶ 153.

94. Mr. Cooper and Mr. Esselstyn also located their new majority-Black Senate districts in metro Atlanta in different places, with Mr. Cooper drawing his District 28 without Coweta County and District 17 into DeKalb County as opposed to the placement on Mr. Esselstyn’s plans. Cooper Report, ¶¶ 85-86; Esselstyn Report, ¶ 27, Figure 4.

95. Mr. Esselstyn could identify practically nothing beyond the race of the voters in a number of his districts that united them. Esselstyn Dep. 141:24-142:3, 149:24-150:14, 153:10-154:1, 154:2-24, 180:16-23, 180:24-181:13, 182:12-184:11, 185:5-8, 187:8-19.

96. Dr. Palmer chose not to review any primary results in his report. Deposition of Maxwell Palmer [Doc. 183] (“Palmer Dep.”) Dep. 59:23-60:01; Deposition of John Alford [Doc. 178] (“Alford Dep.”) 29:07-30:01.

97. Dr. Palmer’s data still only demonstrate two material facts: The race of the candidate *does not* change voting behavior of Georgia voters; and the party of the candidate *does*. Alford Dep. 54:18-22.

Respectfully submitted this 20th day of March, 2023.

Christopher M. Carr
Attorney General
Georgia Bar No. 112505
Bryan K. Webb
Deputy Attorney General
Georgia Bar No. 743580
Russell D. Willard
Senior Assistant Attorney General
Georgia Bar No. 760280
Elizabeth Vaughan
Assistant Attorney General
Georgia Bar No. 762715
State Law Department
40 Capitol Square, S.W.
Atlanta, Georgia 30334

/s/Bryan P. Tyson
Bryan P. Tyson
Special Assistant Attorney General
Georgia Bar No. 515411
btyson@taylorenghish.com
Frank B. Strickland
Georgia Bar No. 687600
fstrickland@taylorenghish.com
Bryan F. Jacoutot
Georgia Bar No. 668272
bjacoutot@taylorenghish.com
Diane Festin LaRoss
Georgia Bar No. 430830
dlaross@taylorenghish.com
Donald P. Boyle, Jr.
Georgia Bar No. 073519
dboyle@taylorenghish.com
Daniel H. Weigel

Georgia Bar No. 956419
dweigel@taylorenghish.com
Taylor English Duma LLP
1600 Parkwood Circle
Suite 200
Atlanta, Georgia 30339
(678) 336-7249

Counsel for Defendants

CERTIFICATE OF COMPLIANCE

Pursuant to L.R. 7.1(D), the undersigned hereby certifies that the foregoing Statement has been prepared in Century Schoolbook 13, a font and type selection approved by the Court in L.R. 5.1(B).

/s/ Bryan P. Tyson
Bryan P. Tyson

EXHIBIT A

Expert Report of Blakeman B. Esselstyn

I. INTRODUCTION

A. Qualifications

1. My name is Blakeman B. Esselstyn. I am the founder and principal of a consultancy called Mapfigure Consulting, which provides expert services in the areas of redistricting, demographics, and geographic information systems (GIS). For more specific information about the qualifications and credentials in the paragraphs below, please see my Curriculum Vitae, provided as **Attachment A**.

2. On February 8th and 9th of 2022, in the preliminary injunction proceedings related to this matter, I served as a testifying expert. I was accepted by the Court as an expert in redistricting, demographics, and census data, and my expert testimony was credited by the Court.

3. I have previously served as a consulting expert in four other redistricting cases, and as a testifying expert in three cases related to other topics.

4. I have developed 16 redistricting plans that have been enacted for use in elections by jurisdictions at various levels of government.

5. I earned a bachelor's degree in Geology & Geophysics and International Studies from Yale University and a master's degree in Computer and Information Technology from the University of Pennsylvania. I have professional certifications both as a Geographic Information Systems Professional (GISP) and as a member of the American Institute of Certified Planners (AICP).

6. I have taught graduate-level semester courses in Geographic Information Systems (GIS) and have presented on redistricting at conferences at Harvard University, Duke University, the University of North Carolina at Chapel Hill, the University of Texas, and several other universities. I have also presented at national events organized by the National Conference of State Legislatures (NCSL), the Urban and Regional Information Systems Association (URISA), and the American Planning Association (APA).

7. In addition to speaking engagements, my work and opinions related to redistricting have often been cited in media outlets, and some of my related writings have been published or cited in national publications. Again, for details, please see **Attachment A**.

8. I am being compensated at a rate of \$325 per hour. No part of my compensation is dependent upon the conclusions that I reach or the opinions that I offer.

B. About this report

9. Plaintiffs' counsel has asked me to determine whether there are areas in the State of Georgia where the Black population is "sufficiently large and geographically compact"¹ to enable the creation of additional majority-Black legislative districts relative to the number of such districts provided in the enacted State Senate and State House of Representatives redistricting plans from 2021.

¹ *Thornburg v. Gingles*, 478 U.S. 30, 50 (1986).

10. The Georgia General Assembly has two chambers, each with distinct redistricting plans that I will consider individually. Following a demographic overview of the state that will be relevant for both chambers, the report will provide separate sections addressing each chamber's districts: first the State Senate, then the House of Representatives. For each chamber, I will briefly review the enacted plan, present an alternative illustrative plan, and supply some analysis of selected characteristics of the plans.

11. Unless otherwise specified, all map images in the report are ones that I created (though they may be maps showing redistricting plans I did not create).²

12. More detailed information about the sources of data, the software, and my methodology can be found in **Attachment B**.

C. Summary of conclusions

13. It is possible to create three additional majority-Black districts in the State Senate plan and five additional majority-Black districts in the State House plan in accordance with traditional redistricting principles.

² Some maps deliberately do not show the State of Georgia in its entirety, as districts in large areas of the northern and southern parts of the state are unchanged in the illustrative plans. Focusing in on affected portions of the State's geography allows for more clarity and higher level of detail in the map figures.

II. Statewide Demographic Overview

A. Georgia and the 2020 Census

14. Georgia’s population increased by more than one million people between the 2010 and 2020 censuses, from 9,687,653 to 10,711,908—an increase of approximately 10.6%.³

15. According to the 2020 census, 33.0% of Georgia’s population (essentially one-third) identified as “Black or African American alone or in combination.”⁴ The 2010–2020 population increase in this group outpaced the growth in the state as a whole, increasing by approximately 15.8%.

16. By contrast, the state’s population identifying as White and neither Hispanic nor multi-racial *decreased* by 1.0% between 2010 and 2020. This non-Hispanic White population still constitutes a majority of the state population, but only barely, at 50.1%. In 2010, this group constituted 55.9% of Georgia’s population.

17. The *voting age* population identifying as Black increased 21.8% from 2010 to 2020. In 2020 this group (sometimes abbreviated as BVAP for the Black voting age population) made up 31.7% of the voting age population, an increase from 29.7% in

³ All demographic analysis is based on statistics obtained from the U.S. Census Bureau website, <https://www.census.gov>. For URLs of specific census resources used, please consult Attachment B.

⁴ The Census Bureau classification “Black or African American alone or in combination,” sometimes stated as “any part Black,” will be the measure of the Black population that I use most frequently in this report. Unless otherwise stated, in the text that follows, “Black” can be taken to indicate “alone or in combination.” This measure includes Black residents who also identify as Hispanic. It is my understanding that the “alone or in combination” designation is the appropriate measure for most Voting Rights Act Section 2 considerations.

2010. The non-Hispanic single-race White proportion of the voting age population, however, decreased from 59.0% in 2010 to 52.8% in 2020.

B. Geographic distribution of the Black population

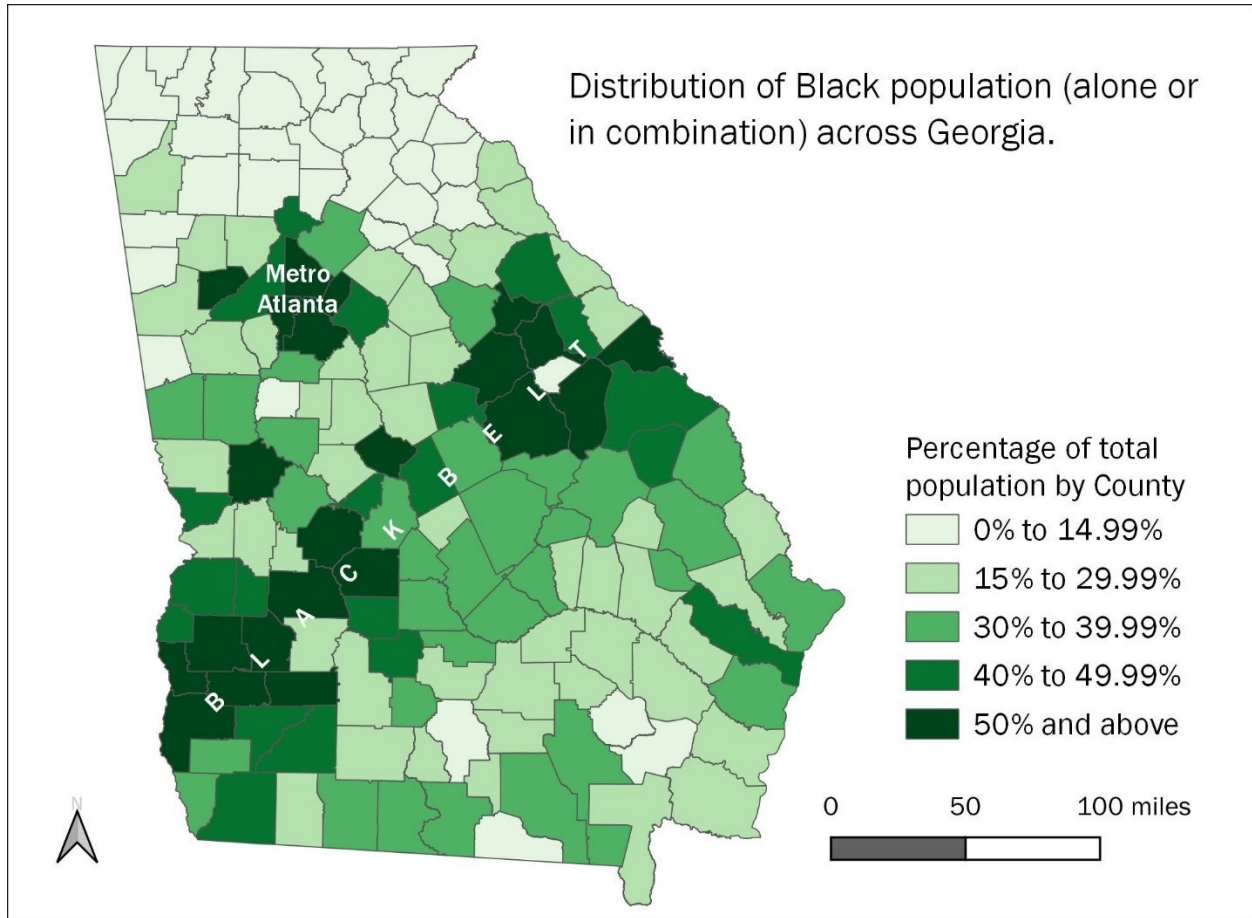
18. Just about half of Georgia's Black population lives in six of the state's 159 counties, all of which are in the Metro Atlanta region. These six counties are, in order of decreasing Black population, Fulton, DeKalb, Gwinnett, Cobb, Clayton, and Henry.

19. The counties in Georgia where the percentage of Black residents generally tends to be highest can be grouped into two main categories: the aforementioned Metro Atlanta region and the so-called "Black Belt" of Georgia. Though some accounts say the origin of the term "Black Belt" in the American South stems from descriptions of the soil, modern classifications of which counties are in this region can hinge on the percentage of the population that is Black.⁵ In Georgia, this belt of counties, most of which are rural, constitutes a wide band from the southwest corner of the state to the central part of the South Carolina border near Augusta-Richmond County. See Figure 1.

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⁵ See, e.g., *Southeastern Geographer* article at <https://www.jstor.org/stable/26225503>.

Figure 1: Statewide map showing percentages of Black population across counties.



20. For a table showing demographic statistics from the 2020 census for Georgia's counties, please see **Attachment C**.

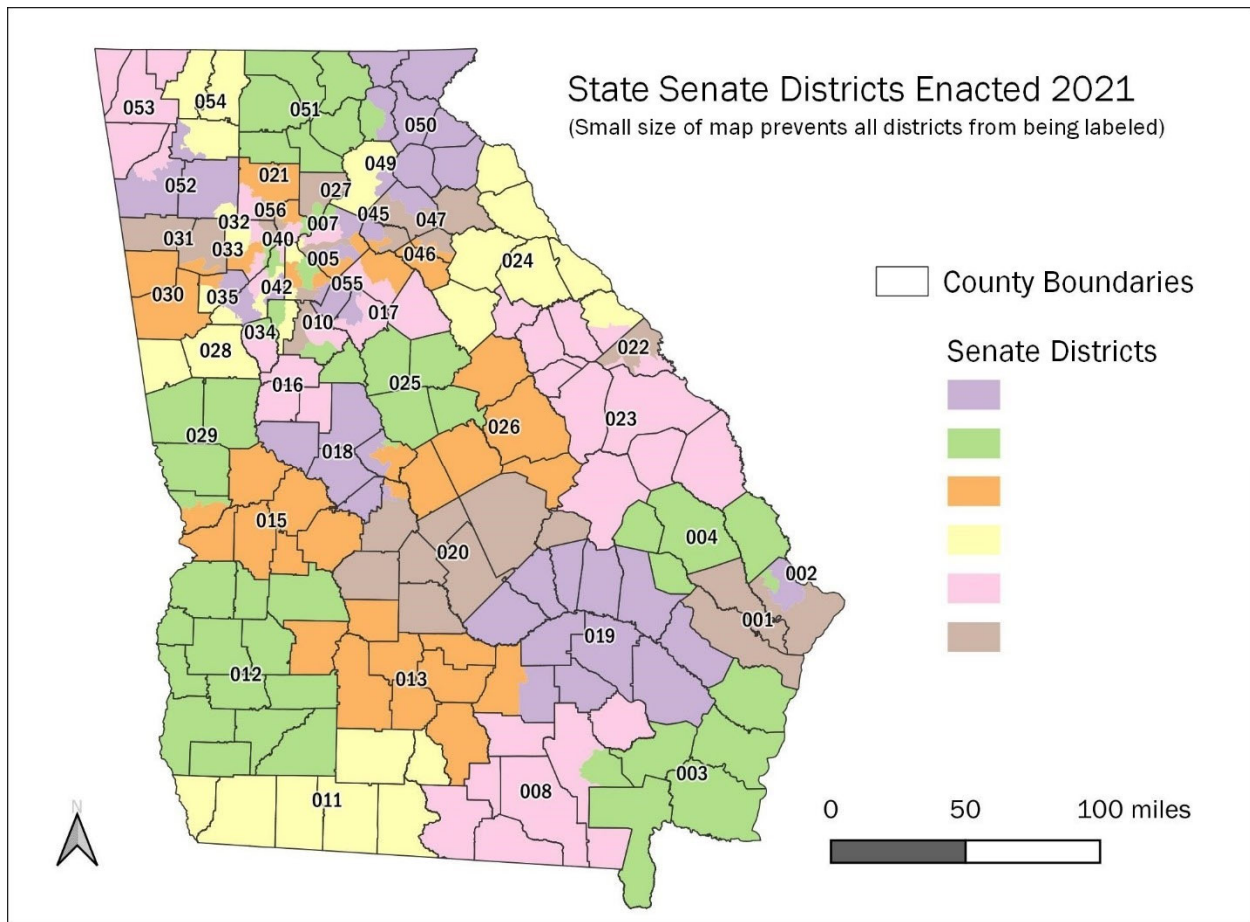
III. Georgia State Senate redistricting plan

A. Review of enacted State Senate plan

21. On December 30th, 2021, Georgia Governor Brian Kemp signed new State Senate districts into law. With districts for 56 senators in this enacted plan, each district

is designed to have a population near 191,284, or one-fifty-sixth of Georgia's total population. See Figure 2.

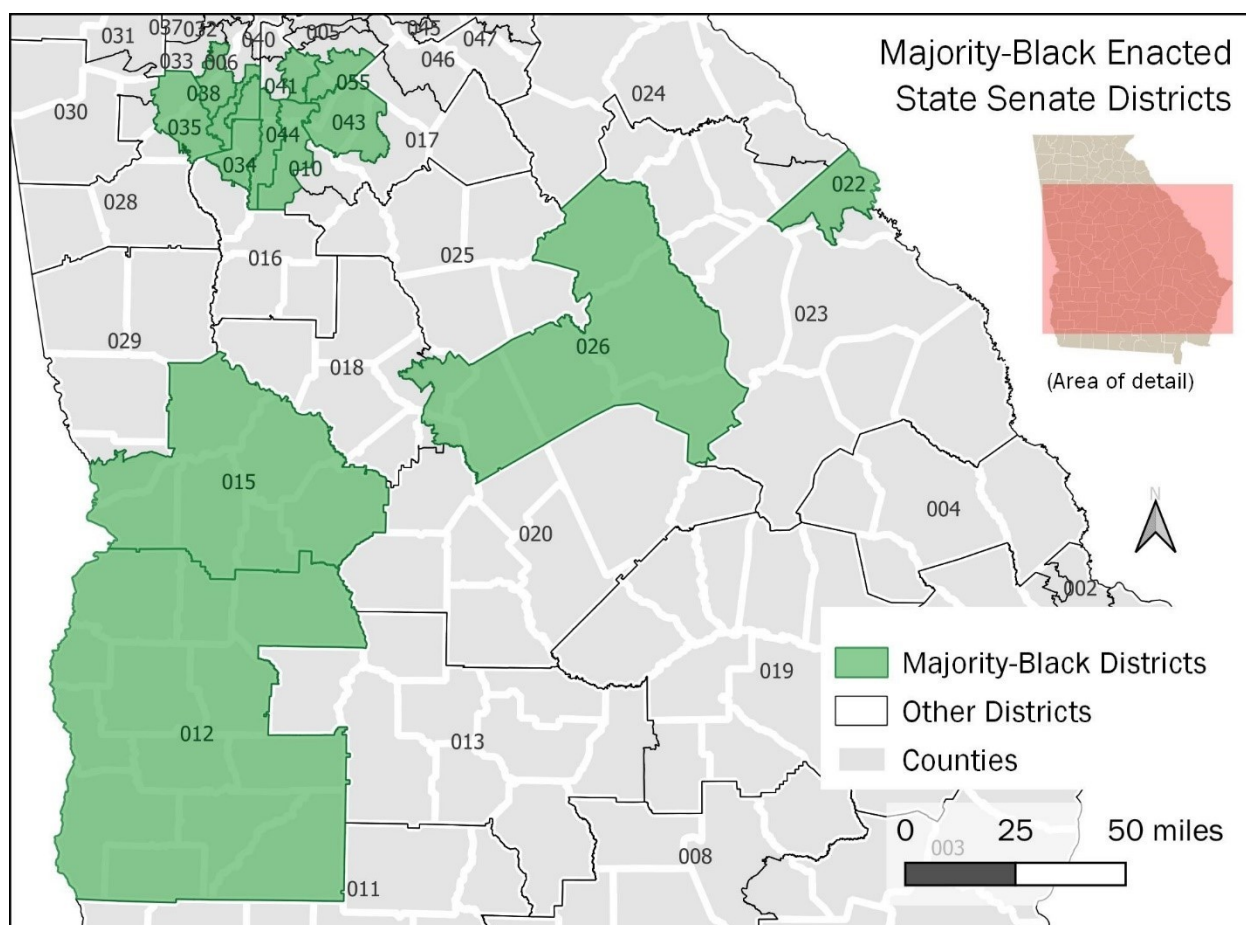
Figure 2: Map of all districts in enacted State Senate plan.



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22. Of the 56 districts in the enacted plan, 14 are majority-Black.⁶ Ten of those are in the Metro Atlanta area and four are in the Black Belt. These districts are highlighted in Figure 3 below.

Figure 3: Map indicating majority-Black districts in enacted State Senate plan.



23. For more maps and statistics related to the enacted State Senate districts, please see **Attachment D**.

⁶ Per convention in Section 2 cases, “majority-Black” is taken to indicate that the district’s *voting age* population that identifies as Black (alone or in combination) constitutes more than 50% of the district’s voting age population.

B. Illustrative State Senate plan

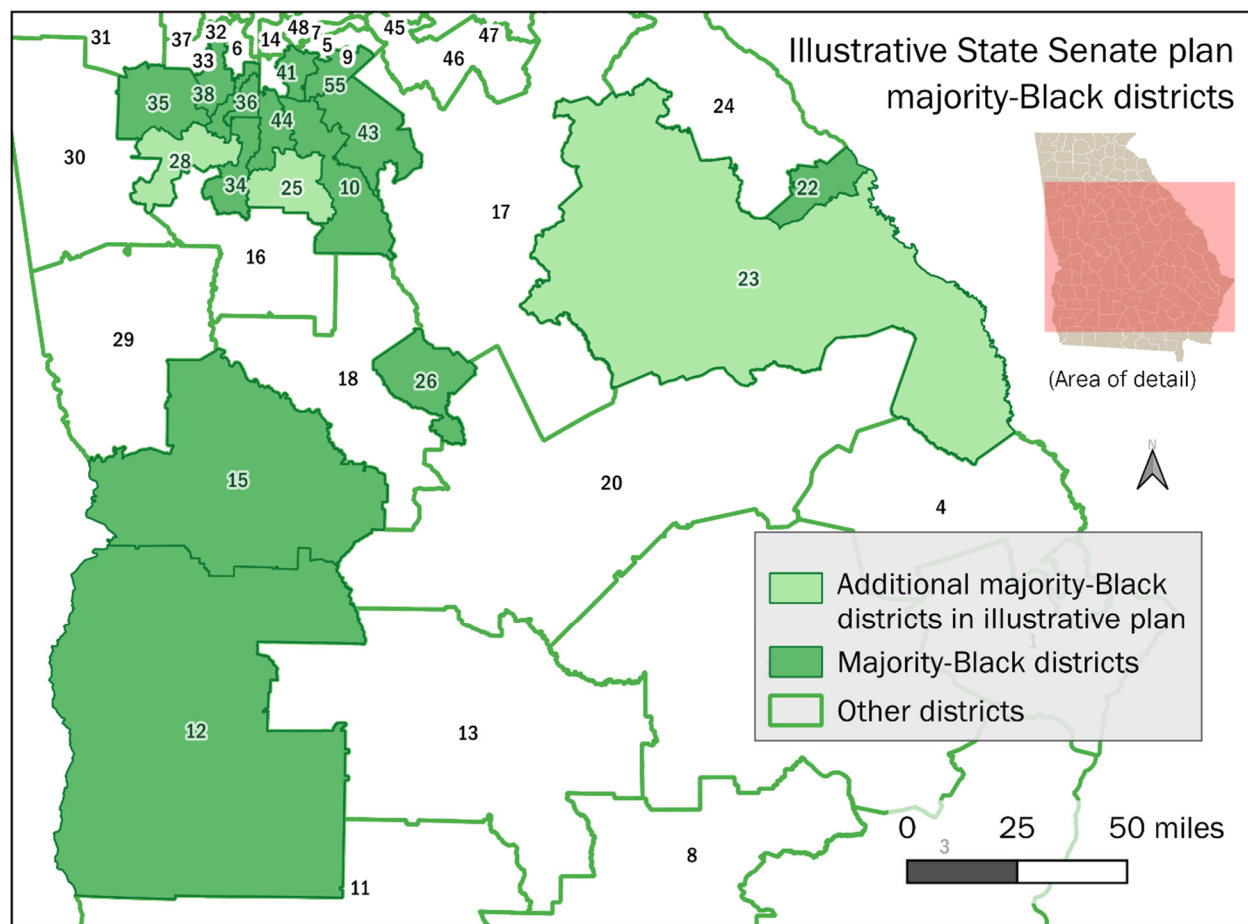
24. The illustrative State Senate plan, like the enacted plan, has 56 districts, all designed to have populations near 191,284.

25. The illustrative plans for the State Senate and House discussed in this report have both been modified slightly from the versions provided as part of the PI proceedings. With the availability of additional data (e.g., incumbent addresses) and information gleaned during the PI proceedings, I sought to improve the plans' performance on multiple criteria. During both the earlier process of creating the PI illustrative plans and the process of revising those plans to create the plans described in this report, I was constantly balancing a number of considerations, and there was no one dominant factor or metric. More details about differences between the newer versions of the illustrative plans and the PI versions are provided in the "Comparative characteristics" sections below.

26. One of the guiding principles in the creation of both the State Senate and House illustrative plans was to minimize changes to the enacted plan while adhering to other neutral criteria. Modifying one district necessarily requires changes to districts adjacent to the original modification, and harmonizing those changes with traditional redistricting criteria (such as population equality and intactness of counties) often inescapably results in cascading changes to other surrounding districts. Notably, most of the enacted plans' districts remain intact in my illustrative plans. In the illustrative State Senate plan, just 22 of the districts were modified, leaving the other 34 unchanged.

27. The illustrative plan includes three additional majority-Black State Senate districts compared to the enacted plan, for a total of 17. Specifically, Senate Districts 23, 25, and 28 are not majority-Black in the enacted plan but are majority-Black in the illustrative plan. See Figure 4 and Table 1.

Figure 4: Map of majority-Black districts in the illustrative State Senate plan.



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Table 1: Illustrative Senate plan majority-Black districts with BVAP percentages.

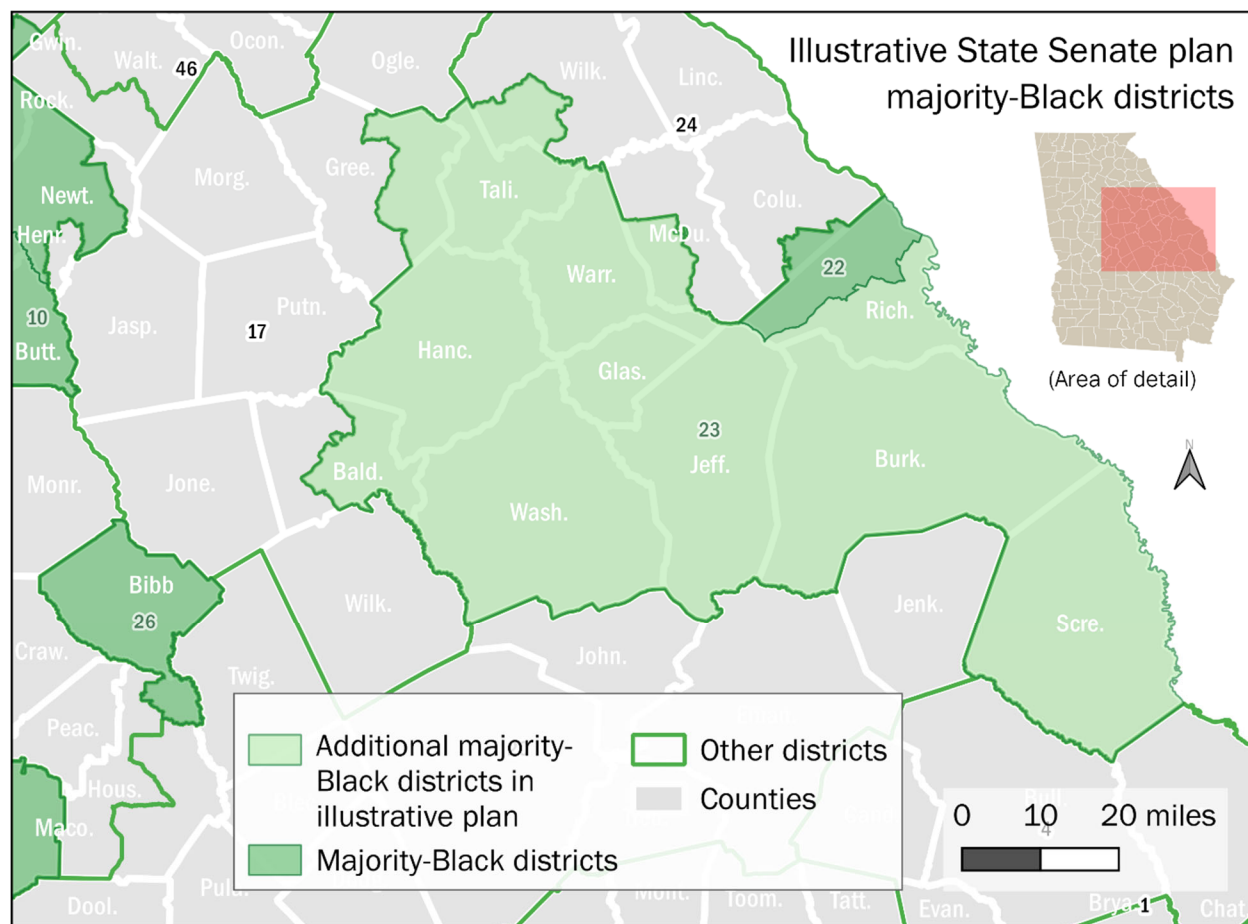
District	BVAP%	District	BVAP%	District	BVAP%
10	61.10%	26	52.84%	39	60.21%
12	57.97%	28	57.28%	41	62.61%
15	54.00%	34	58.97%	43	58.52%
22	50.84%	35	54.05%	44	71.52%
23	51.06%	36	51.34%	55	65.97%
25	58.93%	38	66.36%		

28. The enacted plans have fewer majority-Black districts than the illustrative plans because, in part, more Black voters were heavily concentrated into certain Metro Atlanta districts in the enacted plans.

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29. The additional majority-Black State Senate district in the eastern Black Belt area (District 23) includes all of Burke, Glascock, Hancock, Jefferson, Screven, Taliaferro, Warren, and Washington Counties and parts of Baldwin, Greene, McDuffie, Augusta-Richmond, and Wilkes Counties. See Figure 5.⁷

Figure 5: Map of eastern Black Belt region of illustrative plan with majority-Black State Senate districts indicated.

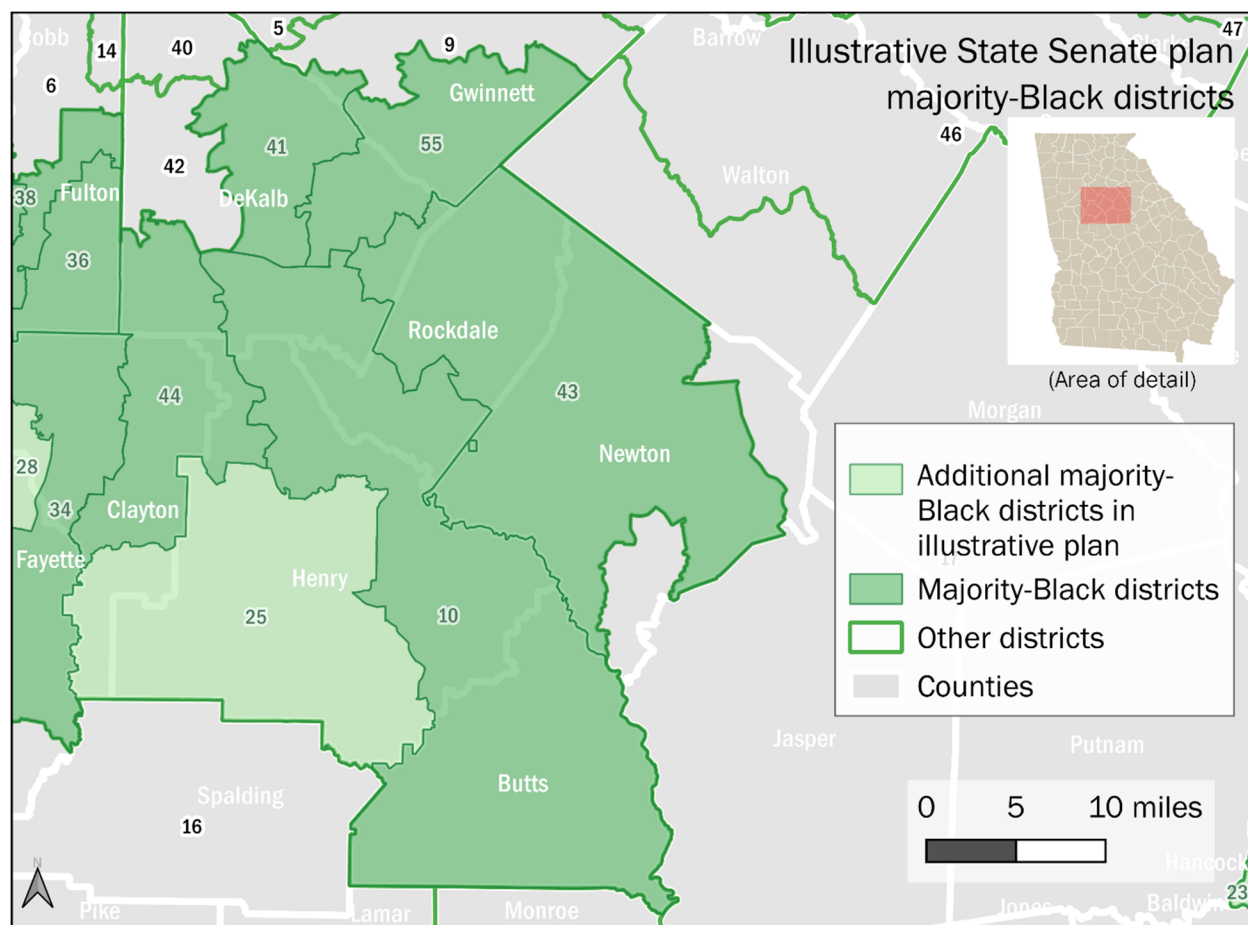


⁷ Additionally, in the illustrative plan, Macon-Bibb County is no longer divided; the majority-Black District 26 includes all of Macon-Bibb County in a single district (as well as a part of Houston County). The intactness of Macon-Bibb County is in keeping with recommendations made during public comment at the hearing held in Macon, Georgia on July 29th, 2021. Two witnesses at the hearing—including Cathy Cox, the former Georgia Secretary of State and then Dean of Mercer University School of Law—spoke about Macon-Bibb County as a community that should be considered as a unit and kept whole. See <https://www.youtube.com/watch?v=lykQpSFVerY> (video at 1:36:52 and 1:37:46). Written statements submitted online also supported keeping Macon-Bibb County intact. See, e.g., comments of S. Doonan (July 26th, 2021), C. Hargrove (July 30th, 2021), and A. Bailey (December 1st, 2021) at <https://www.legis.ga.gov/joint-office/reapportionment/public-comments>.

30. The additional majority-Black State Senate district in the southeastern Metro Atlanta area (District 25) is composed of portions of Clayton and Henry Counties.

See Figure 6.

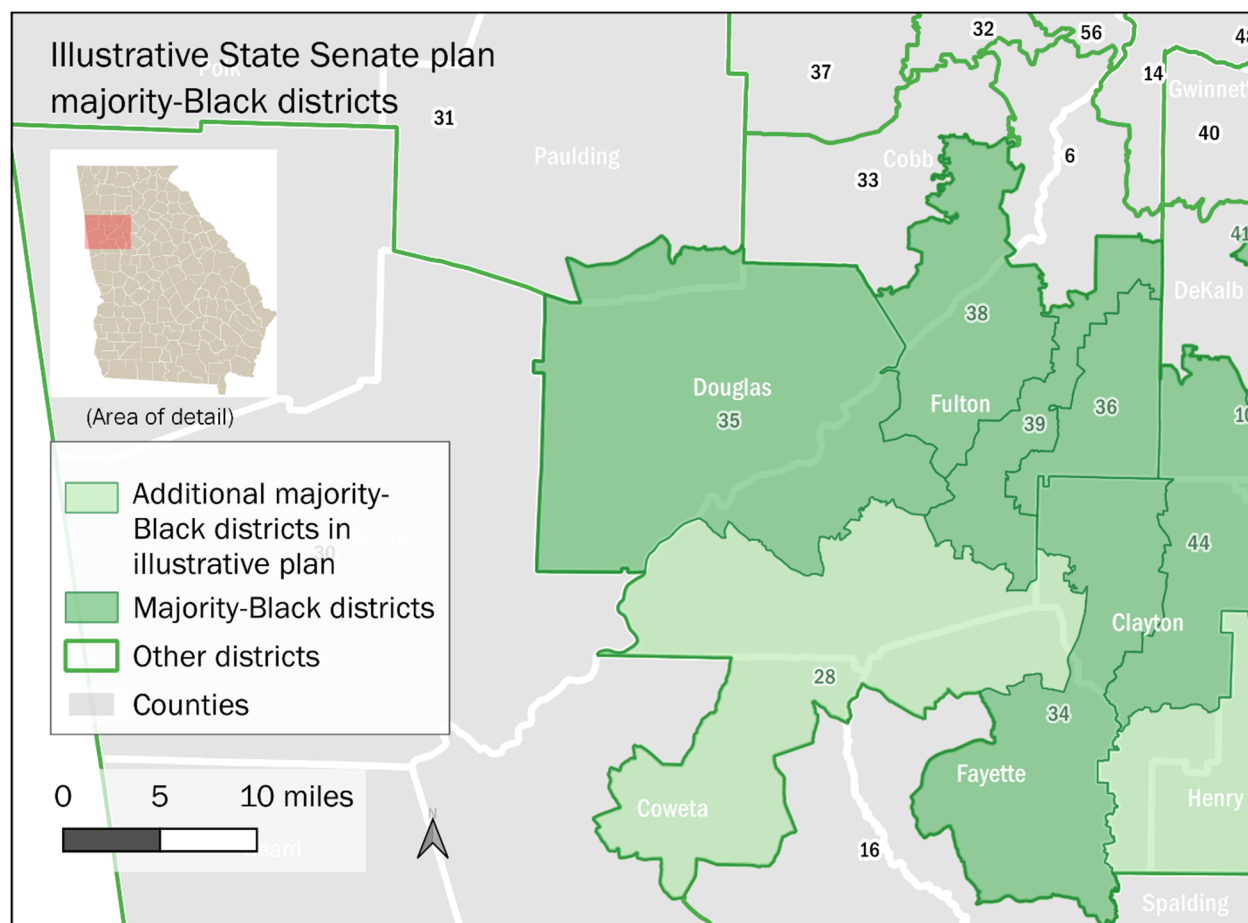
Figure 6: Map of eastern Metro Atlanta area of illustrative plan with majority-Black State Senate districts indicated.



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31. The additional majority-Black State Senate district in the southwestern Metro Atlanta area (District 28) is composed of portions of Clayton, Coweta, Fayette, and Fulton Counties. See Figure 7.⁸

Figure 7: Map of western Metro Atlanta area of illustrative plan with majority-Black State Senate districts indicated.



32. For more demographic statistics related to the illustrative State Senate districts, please see **Attachment E**.

⁸ Incidentally, the illustrative map also includes all of Douglas County in one majority-Black State Senate district, rather than dividing it between two districts as it is in the enacted plan.

C. Comparative characteristics

33. In undertaking the creation of a new redistricting plan for the State Senate, the Senate Reapportionment Committee adopted the “2021-2022 Senate Reapportionment Committee Guidelines,” a full copy of which is appended to this report as **Attachment F**. Within this document is a section called “GENERAL PRINCIPLES FOR DRAFTING PLANS,” which contains a list of principles. The illustrative plan was drawn to comply with and balance these principles.

34. The guidelines provide that “[e]ach legislative district of the General Assembly should be drawn to achieve a total population that is substantially equal as practicable, considering the principles listed below.” Noting that adherence to other principles can be in tension with population equality, both the enacted plan and the illustrative plan get substantially closer to population equality than the permissible threshold of $\pm 5\%$. In both plans, most district populations are within $\pm 1\%$ of the ideal, and a small minority are within between ± 1 and 2% . None has a deviation of more than 2% . For the enacted plan, the relative average deviation is 0.53% , and for the illustrative plan the relative average deviation is 0.67% .

35. The guidelines additionally provide that “[d]istricts shall be composed of contiguous geography.” The illustrative plan districts meet this contiguity requirement in the same manner as the enacted plan.

36. The guidelines further provide that “[c]ompactness” “should [be] consider[ed].” Numerous measures exist for quantifying compactness of districts, and a selection of some of the most commonly used measures in redistricting are shown in

Table 2 below—both for the enacted plan and the illustrative plan. One can see that the average compactness measures for the plans are almost identical. An explanation of the five compactness metrics is provided as **Attachment G**.⁹

Table 2: Compactness measures for enacted and illustrative State Senate plans.

	Reock (average)	Schwartzberg (average)	Polsby- Popper (average)	Area/Convex Hull (average)	Number of Cut Edges
Enacted	0.42	1.75	0.29	0.76	11,005
Illustrative	0.41	1.76	0.28	0.75	11,003

37. Figure 8 below shows how the three additional majority-Black districts in the illustrative State Senate plan all fall within the range of compactness scores of districts in the enacted plan. The gray lines represent the compactness scores of each of the enacted districts, in sorted order. The purple, orange, and green lines represent the scores of illustrative Districts 23, 25, and 28, respectively. The heights of the lines represent the score (marked on the axis on the left), and the location of the line indicates the position within the sorted order between maximum compactness (left side) and minimum compactness (right side). For all four measures, the scores of the three additional majority-Black districts in the illustrative plan are comparable to those of enacted districts and indicate greater compactness than the least compact districts in the enacted plan. See Table 3 for the specific related numeric scores.

⁹ A simplified summary of how to interpret the measures follows: the Reock, Polsby-Popper, and Area/Convex Hull measures all provide scores between zero and one, with scores closer to one (i.e., *higher* values) indicating more compactness; the Schwartzberg measure provides scores greater than or equal to one, and scores closer to one (i.e., *lower* values) indicate more compactness; and for the Number of Cut Edges, which is only meaningful for comparing entire plans—not individual districts—a lower score indicates more compactness.

Figure 8: Sorted compactness measures for all enacted plan districts and additional majority-Black districts in the illustrative State Senate plan.

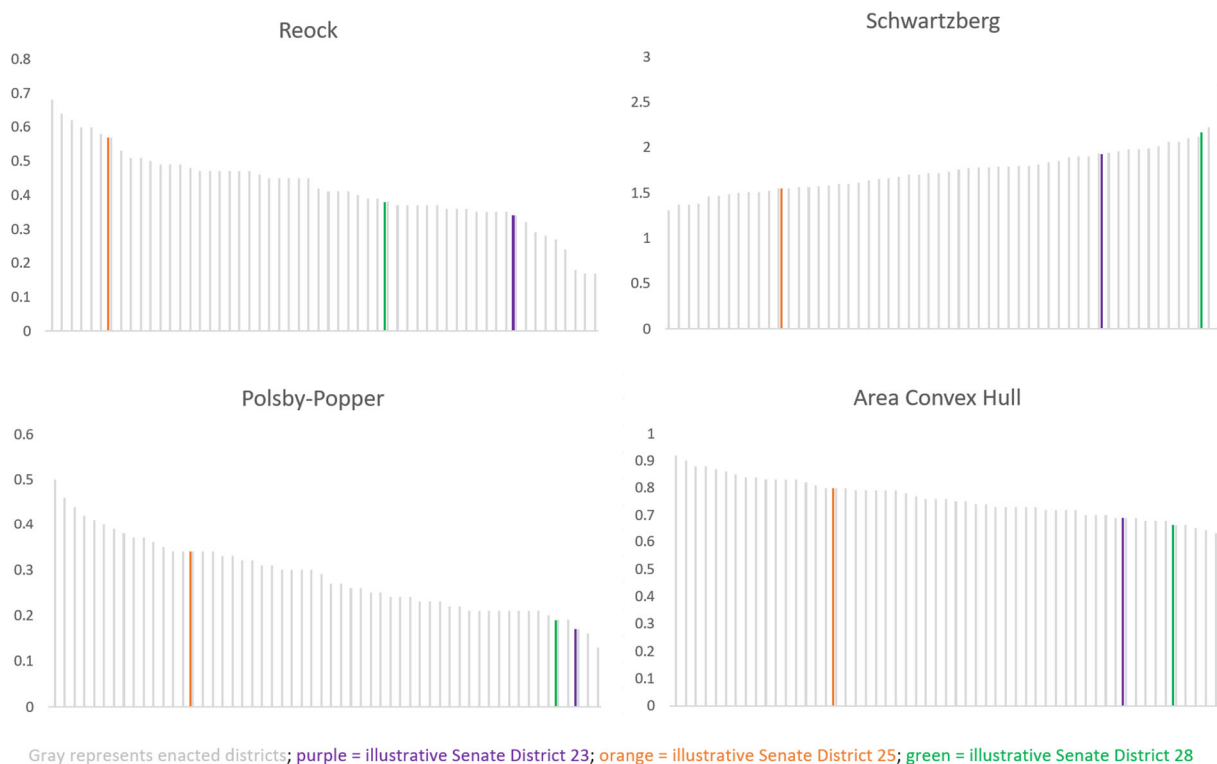


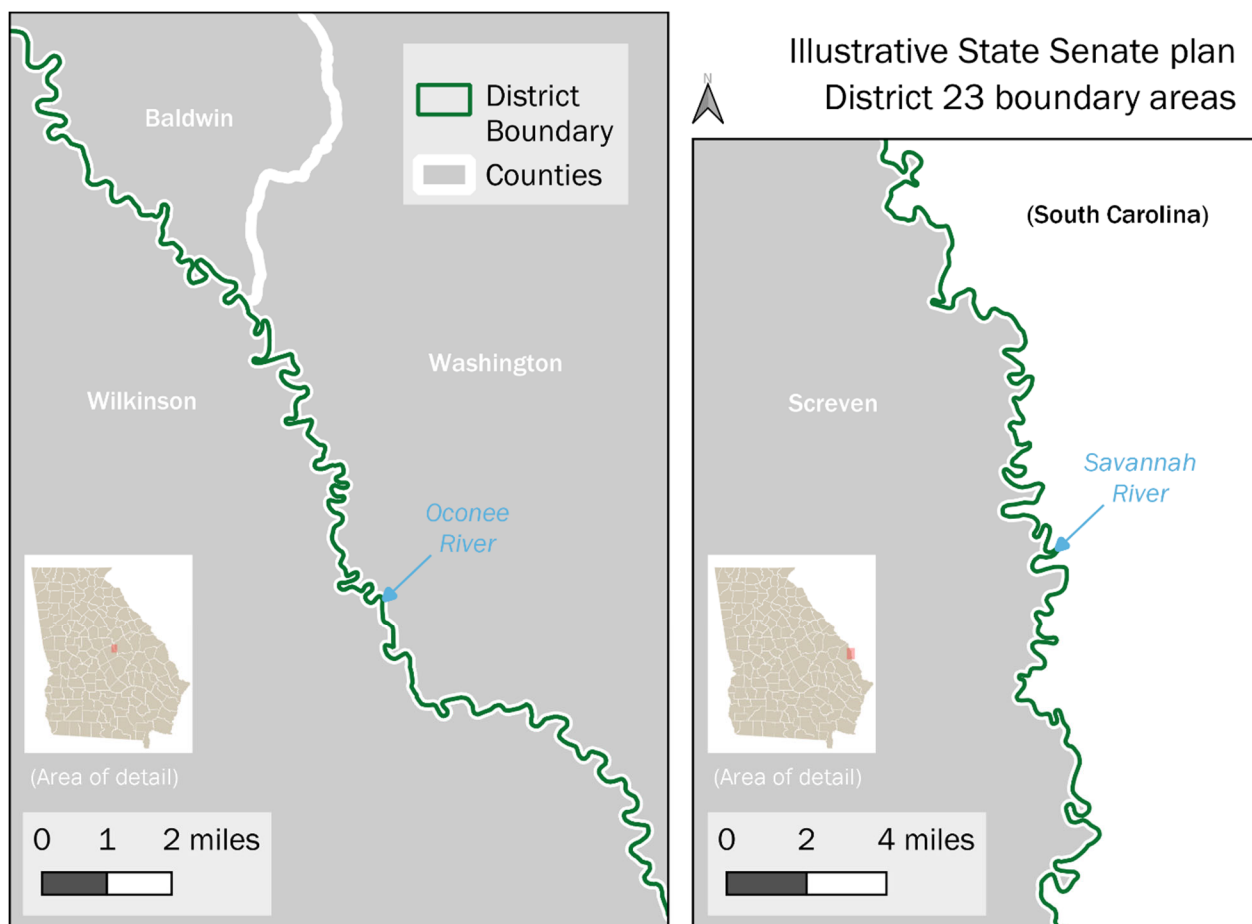
Table 3: Summary compactness scores for enacted State Senate districts and compactness scores for illustrative State Senate districts.

	Measures of Compactness			
	Reock	Schwartzberg	Polsby-Popper	Area/ Convex Hull
Enacted plan least compact score	0.17	2.67	0.13	0.50
Enacted plan median score	0.415	1.725	0.28	0.755
Illustrative District 23 score	0.34	1.93	0.17	0.69
Illustrative District 25 score	0.57	1.55	0.34	0.80
Illustrative District 28 score	0.38	2.17	0.19	0.66

38. Illustrative State Senate District 23 offers an interesting example of how different compactness measures weight boundary features in different ways. In Figure 8 above, one can see that illustrative State Senate District 23 scores very close to the

“bottom” (i.e., least compact) value in the range for the Polsby-Popper measure, but not for the other three measures. The Polsby-Popper measure, which considers a district’s perimeter in its formula, heavily penalizes a district if it has a wiggly border, even if the district’s overall shape isn’t stringy or convoluted. Figure 9 below shows two sections of illustrative District 23’s outline where it is simply following county boundaries, and those county boundaries happen to be serpentine in shape. As is often the case, the county boundaries follow significant rivers (the Oconee and Savannah), which are widely considered to be intuitive features to use as the division between districts or other administrative areas.

Figure 9: Detail of selected Illustrative State Senate District 23 boundaries.



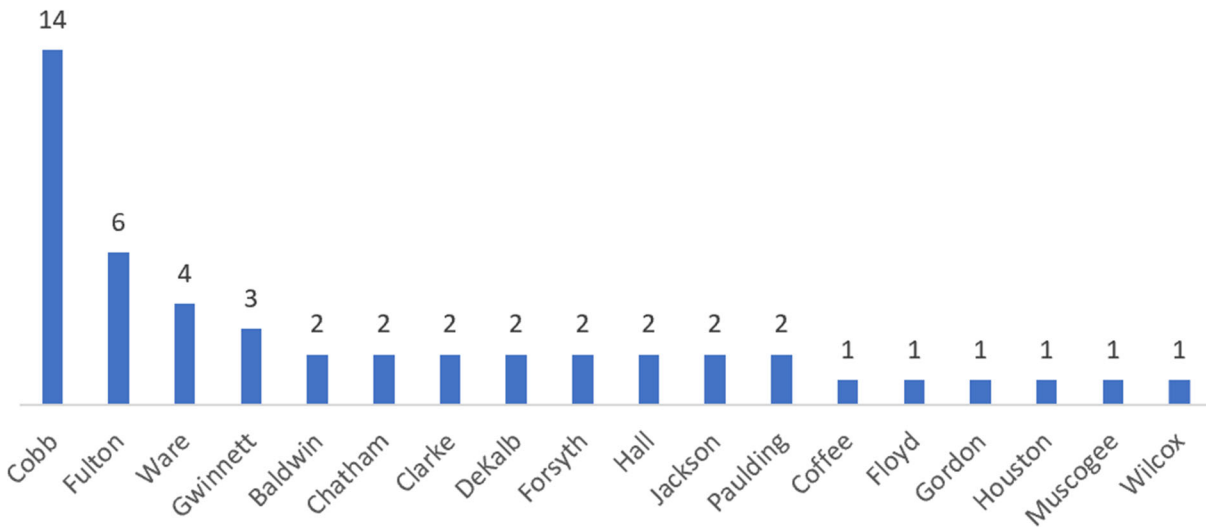
39. The guidelines also provide that “[t]he boundaries of counties and precincts” “should [be] consider[ed].” In redistricting in the United States, consideration of such boundaries is generally taken to mean that counties and precincts should be kept intact to the extent possible (i.e., not split among multiple districts). While the Reapportionment Committee’s language regarding this guideline is not explicit, Table 4: below provides numbers of counties and VTDs (the Census “Voting District” used by redistricting software as a proxy for precincts) split in both the enacted and illustrative State Senate plans.

Table 4: Political subdivision splits for enacted and illustrative State Senate plans.

	Intact Counties	Split Counties	Split VTDs
Enacted	130	29	47
Illustrative	125	34	49

40. While the creation of three additional majority-Black State Senate districts involved the division of additional counties and VTDs, the differences are marginal.¹⁰ Figure 10 below shows which counties those VTD splits are in in the illustrative State Senate plan. All of the VTDs split in the illustrative State Senate plan are confined to just 18 of the State’s 159 counties.

¹⁰ The number of county splits in the State Senate illustrative plan (34) is lower than the number of such splits in the State Senate plan adopted in 2014 (38), which was used in elections from 2014 through 2020. See https://www.legis.ga.gov/api/document/docs/default-source/reapportionment-document-library/senate14-county.pdf?sfvrsn=e8061e5c_2 and https://www.legis.ga.gov/api/document/docs/default-source/reapportionment-document-library/counties-by-house-districts.pdf?sfvrsn=b7c39a42_2.

Figure 10: VTD splits in illustrative State Senate plan by county.

41. The guidelines further call for consideration of “[c]ommunities of interest.” Communities of interest can be larger than a county or smaller than a college campus, and individuals may have different opinions about their exact geographic extents. In identifying such communities, I generally referred to recognizable entities visible in the *Maptitude for Redistricting* software interface, such as municipalities and landmark areas, as well as areas and communities I’ve heard described by Georgians, either in personal conversations or in statements made in public hearings. When making changes to districts for my PI illustrative plan, I did strive to keep communities of interest intact as much as possible while also honoring the other guidelines. In that plan, however, I inadvertently divided the two campuses of Georgia College (they are both in Milledgeville, but about a mile apart). The revised district lines for the illustrative plan submitted with this report not only keep both campuses in the same State Senate district, but they also do a better job of keeping central Milledgeville in a single district.

42. The final specified guideline is that “[e]fforts should be made to avoid the unnecessary pairing of incumbents.” Based on my analysis of the residential addresses of the recently elected State Senators (provided by counsel), the illustrative plan would not pair any incumbent Senators in the same district. The avoidance of any incumbent pairing represents an improvement over the PI illustrative plan, which paired two incumbents according to a declaration from John Morgan provided as part of the PI proceedings.¹¹

43. For more detailed statistics and reports on the above characteristics, please see **Attachment H**.

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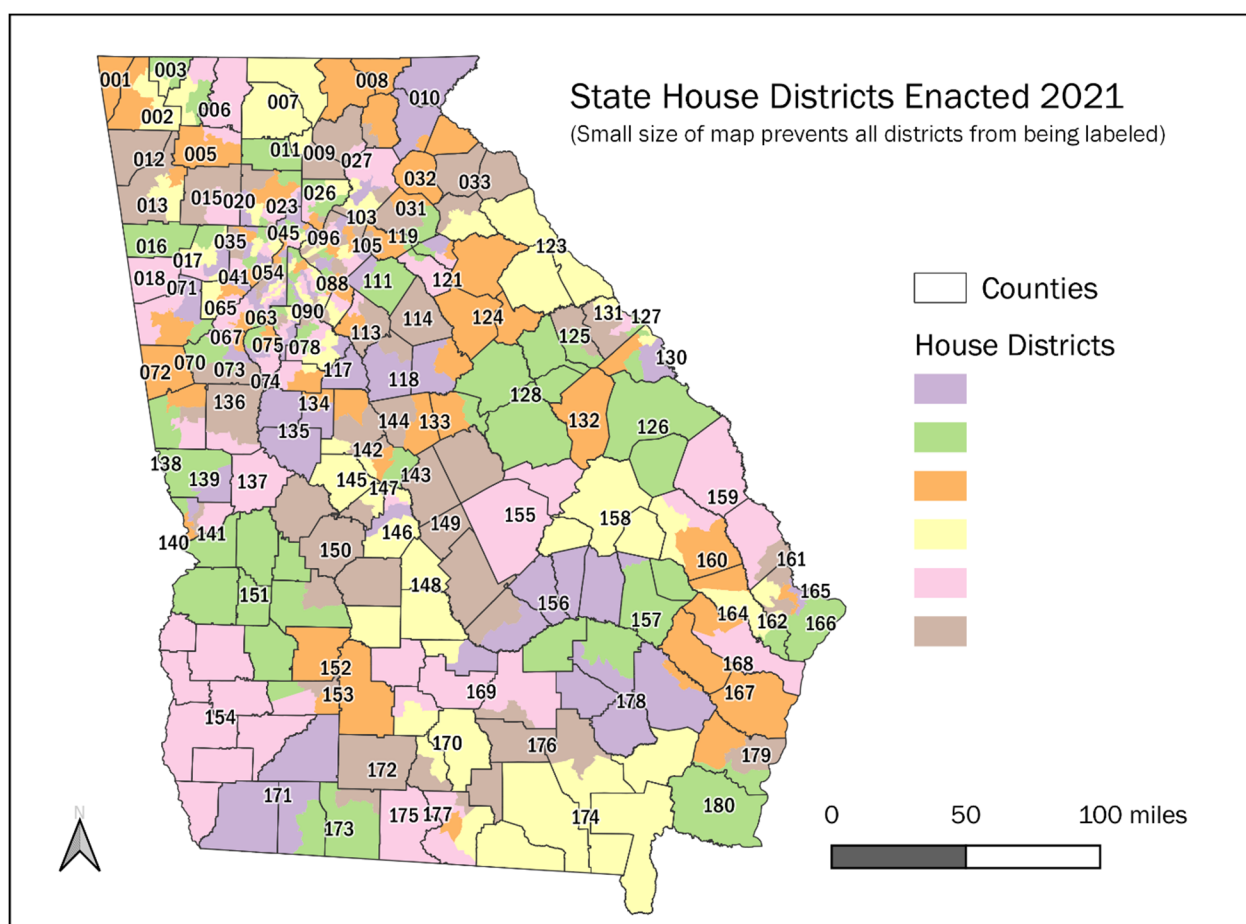
¹¹ See Declaration of John B. Morgan, January 18, 2022, p. 8.

IV. Georgia House redistricting plan

A. Review of enacted House plan

44. On December 30th, 2021, Governor Kemp signed new House of Representatives districts into law. With districts for 180 Representatives in this enacted plan, each district is designed to have a population near 59,511, or one-one-hundred-eightieth of Georgia’s total population. See Figure 11.

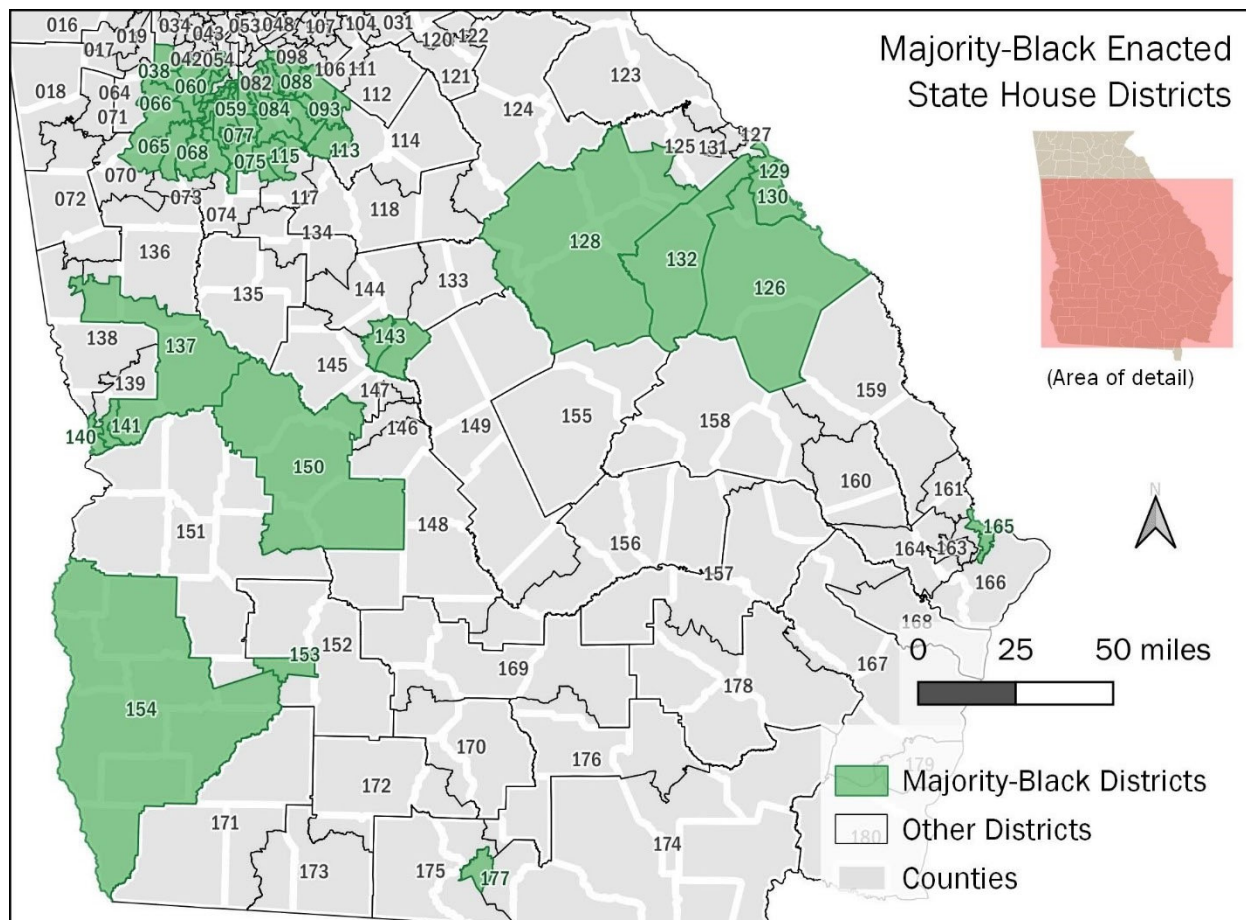
Figure 11: Map of all districts in enacted House plan.



45. Of the 180 districts in the enacted plan, 49 are majority-Black. Thirty-four of those are in the Metro Atlanta area, 13 are in the Black Belt, and two small districts are

within Chatham (anchored in Savannah) and Lowndes Counties (anchored in Valdosta) in the southeastern part of the state. These districts are highlighted in Figure 12 below.

Figure 12: Map indicating majority-Black districts in enacted House plan.



46. For more maps and statistics related to the enacted House districts, please see **Attachment I**.

B. Illustrative House plan

47. The illustrative House plan, like the enacted plan, has 180 districts, all with populations near 59,511. As with the illustrative State Senate plan, one of the guiding principles was to minimize changes to the enacted plan while adhering to the range of

other neutral criteria. In fact, just 25 of the districts were modified, leaving the other 155 unchanged. The PI version of the illustrative plan, by contrast, modified 26 districts.

48. The illustrative plan includes five additional majority-Black House districts compared to the enacted plan, for a total of 54. Specifically, House Districts 64, 74, 117, 145, and 149 are not majority-Black in the enacted plan but are majority-Black in the illustrative plan. See Figure 13 and Table 5.

Figure 13: Map of majority-Black districts in the illustrative House plan.

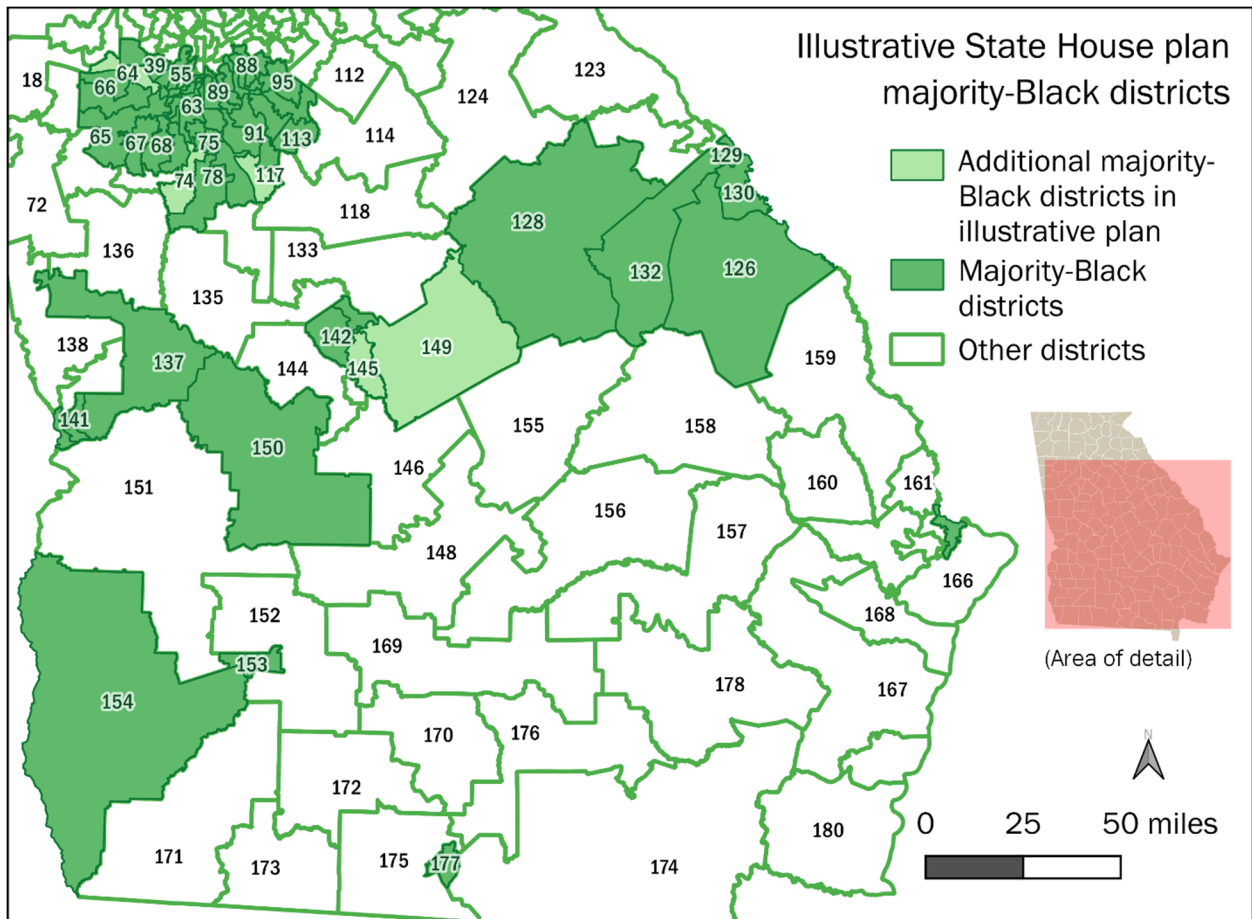


Table 5: Illustrative House plan majority-Black districts with BVAP percentages.

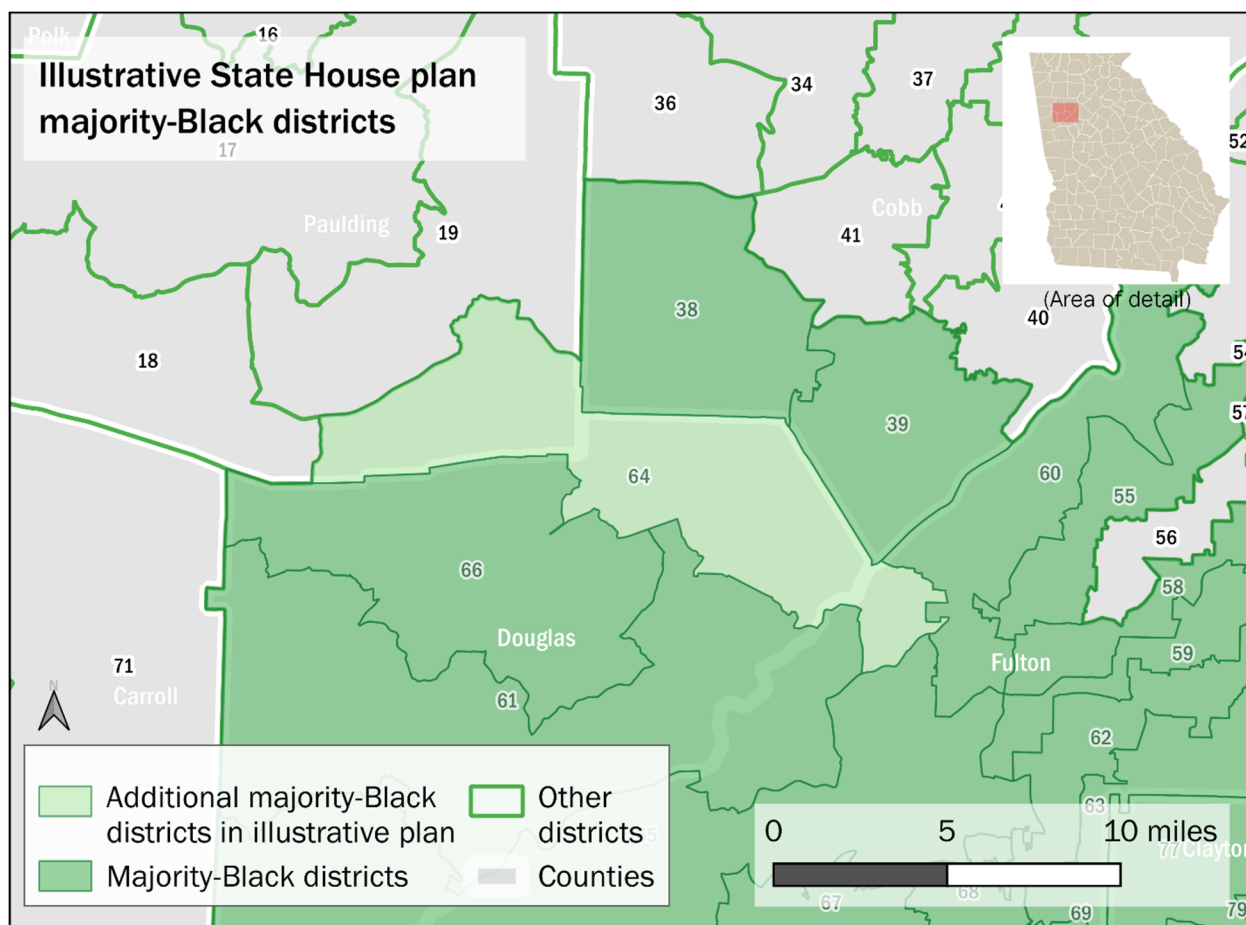
District	BVAP%	District	BVAP%	District	BVAP%	District	BVAP%
38	54.23%	69	62.73%	91	60.01%	137	52.13%
39	55.29%	74	53.94%	92	68.79%	140	57.63%
55	55.38%	75	66.89%	93	65.36%	141	57.46%
58	63.04%	76	67.23%	94	69.04%	142	50.14%
59	70.09%	77	76.13%	95	67.15%	143	50.64%
60	63.88%	78	51.03%	113	59.53%	145	50.38%
61	53.49%	79	71.59%	115	53.77%	149	51.53%
62	72.26%	84	73.66%	116	51.95%	150	53.56%
63	69.33%	85	62.71%	117	51.56%	153	67.95%
64	50.24%	86	75.05%	126	54.47%	154	54.82%
65	63.34%	87	73.08%	128	50.41%	165	50.33%
66	53.88%	88	63.35%	129	54.87%	177	53.88%
67	58.92%	89	62.54%	130	59.91%		
68	55.75%	90	58.49%	132	52.34%		

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49. The additional majority-Black House district in the western Metro Atlanta area (District 64) is composed of portions of Douglas, Fulton, and Paulding Counties.

See Figure 14.

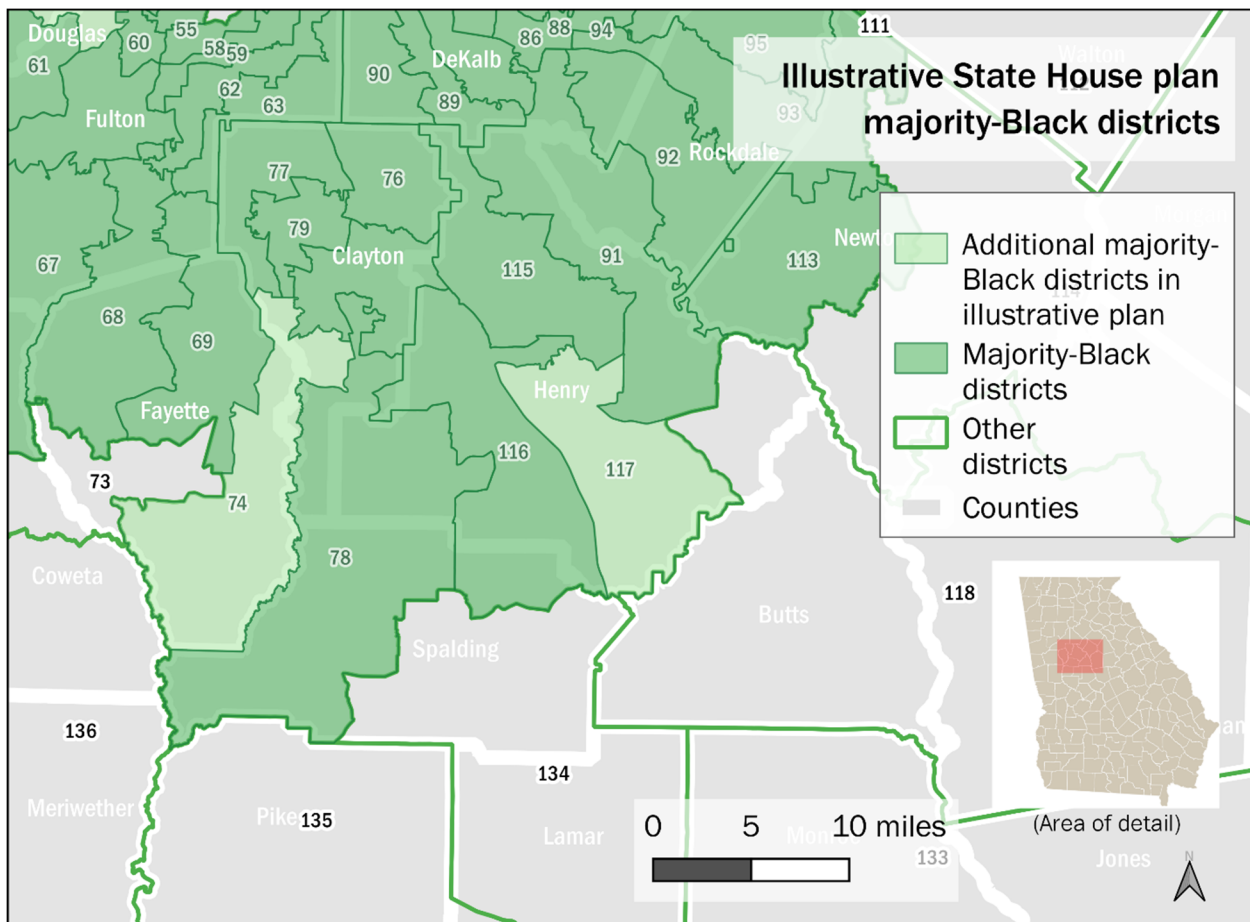
Figure 14: Map of western Metro Atlanta area of illustrative plan with majority-Black House districts indicated.



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50. The additional majority-Black House districts in the southern Metro Atlanta area (Districts 74 and 117) are built from portions of Clayton, Fayette, and Henry Counties. See Figure 15.

Figure 15: Map of southern Metro Atlanta area of illustrative plan with majority-Black House districts indicated.



51. The two additional majority-Black House districts in the central Black Belt area (Districts 145 and 149) are built from portions of Baldwin, Macon-Bibb, and Houston Counties, as well as all of Twiggs and Wilkinson Counties. The adjacent Twiggs and Wilkinson Counties, included in their entirety in District 149, have been identified

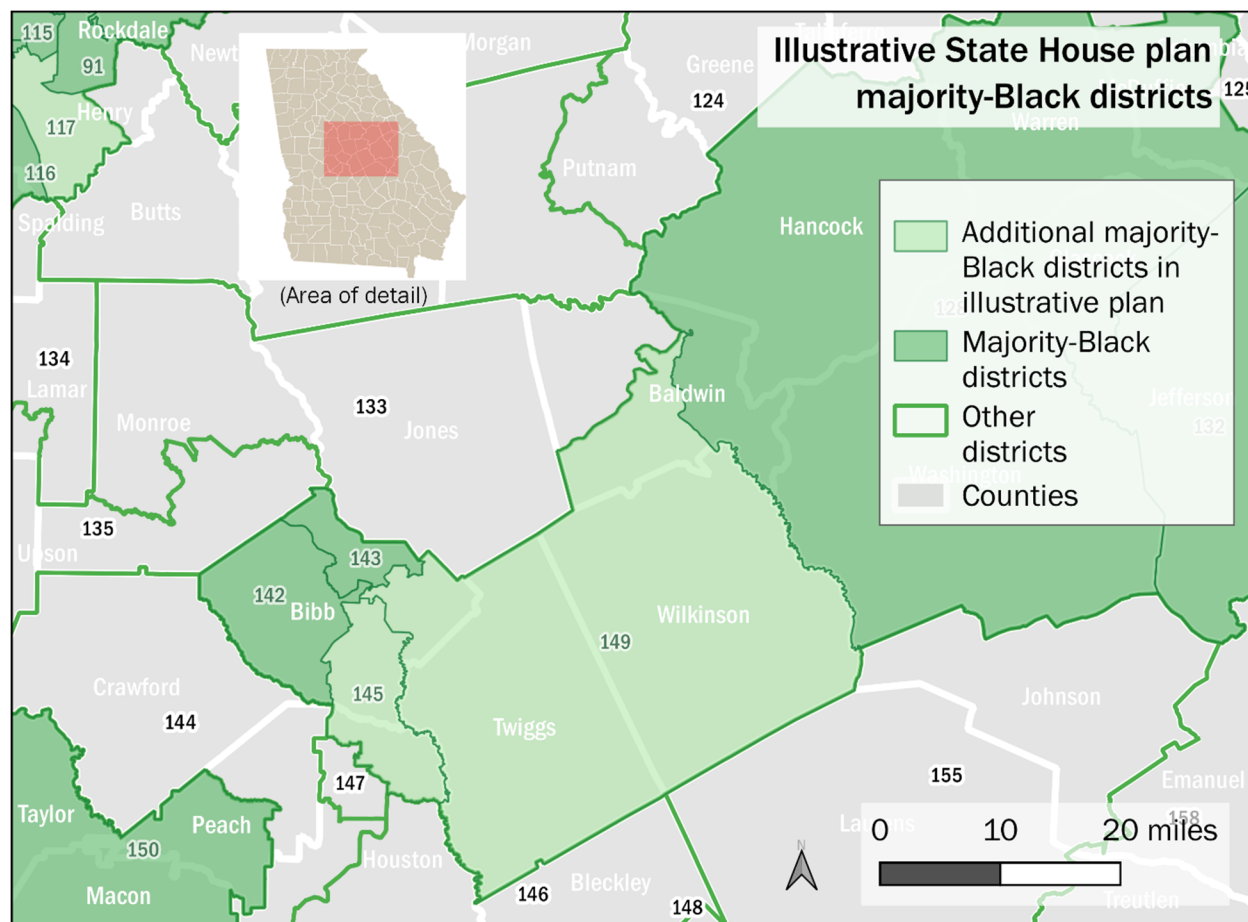
by General Assembly staff as “constitut[ing] a single community of interest.”¹² The illustrative plan, like the enacted plan, divides Macon-Bibb County into four districts, two of which (Districts 142 and 143) are wholly contained in Macon-Bibb County, and two of which (Districts 145 and 149 in the illustrative plan) extend outside the county as well. The orientation of Districts 142 and 143 also ensures that the northern portions of Macon-Bibb County stay in a Macon-Bibb County district with portions of Macon, rather than being put in a district with a more rural neighboring county like Monroe; this type of arrangement was specifically recommended during public comment at a Joint Reapportionment Committee hearing.¹³ See Figure 16.

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¹² Specifically, Gina Wright, Executive Director of the General Assembly's Legislative and Congressional Reapportionment Office, included this statement in her declaration filed before the Court's PI hearing. See Declaration of Gina Wright, February 4th, 2022, p. 9.

¹³ See, e.g., comment at Georgia General Assembly Joint Reapportionment Committee hearing held in Macon, Georgia on July 29th, 2021, <https://www.youtube.com/watch?v=IYkQpSFVerY> (video at 33:42).

Figure 16: Map of central Black Belt region of illustrative plan with majority-Black House districts indicated.



52. District 149 generally follows the orientation of the Georgia Fall Line geological feature, which brings with it shared economic, historic, and ecological similarities.¹⁴ Macon and Milledgeville, parts of which are in illustrative House District 149, are both characterized as “Fall Line Cities,”¹⁵ and were identified in public comment

¹⁴ See, e.g., <https://www.georgiaencyclopedia.org/articles/geography-environment/fall-line/> and <http://southres.com/uptowncolumbusdams/thefallline.php>.

¹⁵ See “Fall Line Cities” map at <https://www.gpb.org/blogs/education-matters/2017/02/06/new-virtual-field-trip-physical-features-of-georgia> and the southres.com article in the preceding footnote.

before the General Assembly's Joint Reapportionment Committee as two cities that should be kept in the same district.¹⁶

53. For more demographic statistics related to the illustrative House districts, please see **Attachment J**.

C. Comparative characteristics

54. In undertaking the creation of a new redistricting plan for the House, the House Reapportionment Committee adopted the "2021-2022 House Reapportionment Committee Guidelines," a full copy of which is appended to this report as **Attachment K**. Within this document is a section called "GENERAL PRINCIPLES FOR DRAFTING PLANS," which contains a list of principles. The illustrative plan was drawn to comply with and balance these principles. As with the Senate Committee's principles discussed above, five of the principles can be quantitatively analyzed to help illustrate adherence.

55. The guidelines provide that "[e]ach legislative district of the General Assembly should be drawn to achieve a total population that is substantially equal as practicable, considering the principles listed below." As with the Senate plan, both the enacted plan and the illustrative plan get substantially closer to population equality than the permissible threshold of $\pm 5\%$. In both plans, most district populations are within $\pm 1\%$ of the ideal, and a small minority are within between ± 1 and 2% . None has a deviation of more than 2% . For the enacted plan, the relative average deviation is 0.61% , and for the illustrative plan the relative average deviation is 0.64% .

¹⁶ See, e.g., comment from Georgia General Assembly Joint Reapportionment Committee hearing on June 15th, 2021 at <https://www.youtube.com/watch?v=sewqUNTIUxA> (video at 49:15).

56. The guidelines additionally provide that “[d]istricts shall be composed of contiguous geography.” The illustrative plan districts meet this contiguity requirement in the same manner as the enacted plan.

57. The guidelines further provide that “[c]ompactness” “should [be] consider[ed].” A selection of some of the most commonly used measures of compactness are shown in Table 6 below—both for the enacted plan and the illustrative plan. One can see that the average compactness measures for the plans are almost identical, if not identical.

Table 6: Compactness measures for enacted and illustrative House plans.

	Reock (average)	Schwartzberg (average)	Polsby- Popper (average)	Area/Convex Hull (average)	Number of Cut Edges
Enacted	0.39	1.80	0.28	0.72	22,020
Illustrative	0.39	1.81	0.28	0.72	22,359

58. Figure 17 below shows how the five additional majority-Black districts in the illustrative House plan all fall within the range of compactness scores of districts in the enacted plan. The gray lines represent the compactness scores of each of the enacted districts, in sorted order. The purple, orange, green, pink, and blue lines represent the scores of illustrative House Districts 64, 74, 117, 145, and 149, respectively. The heights of the lines represent the score (marked on the axis on the left), and the location of the line indicates the position within the sorted order between maximum compactness (left side) and minimum compactness (right side). For all four measures, the scores of the five additional majority-Black districts in the illustrative plan are comparable to those of

enacted districts and indicate greater compactness than the least compact district in the enacted plan. See Table 7 for the specific related numeric scores.

Figure 17: Sorted compactness measures for all enacted plan districts and additional majority-Black districts in the illustrative House plan.

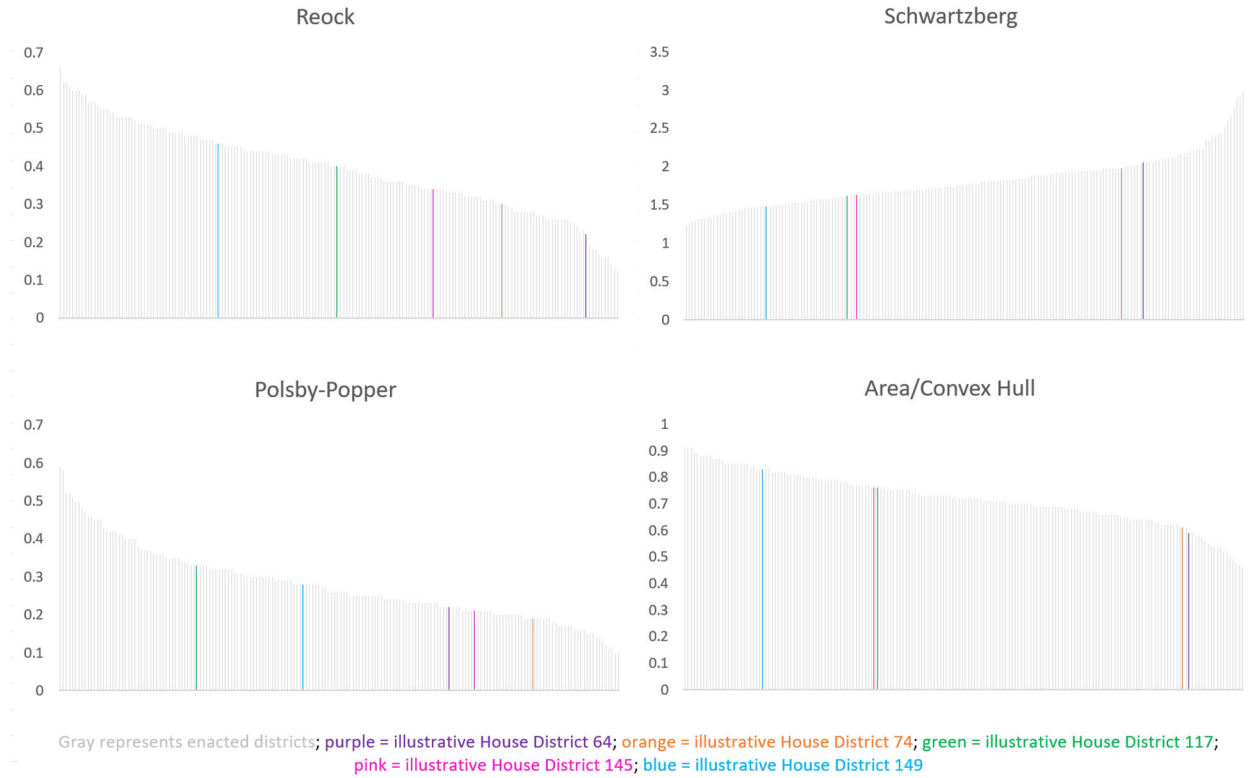


Table 7: Summary compactness scores for enacted House districts and compactness scores for illustrative House districts.

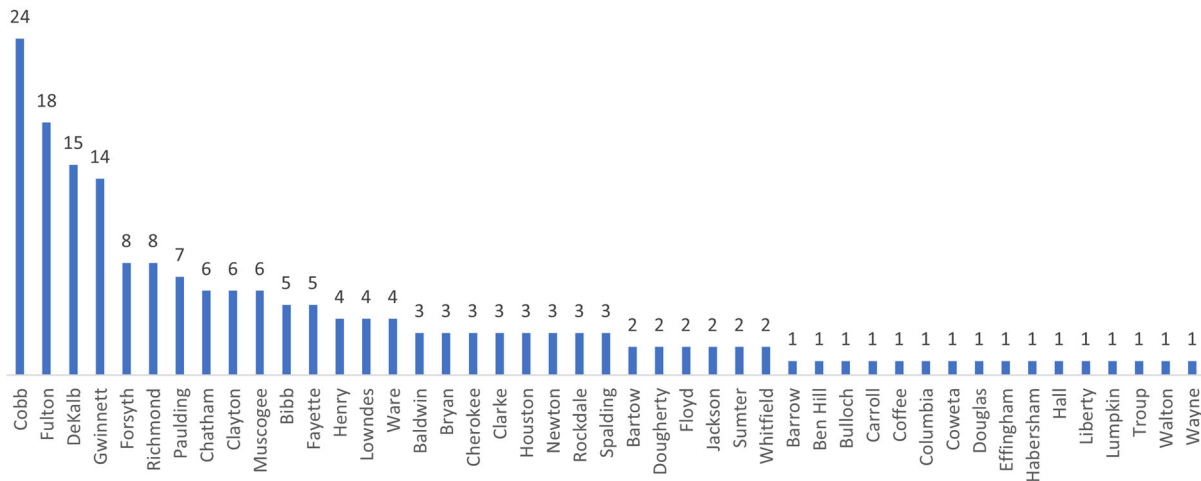
	Measures of Compactness			
	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Enacted plan least compact score	0.12	2.98	0.10	0.46
Enacted plan median score	0.40	1.765	0.26	0.72
Illustrative District 64 score	0.22	2.05	0.22	0.59
Illustrative District 74 score	0.30	1.98	0.19	0.61
Illustrative District 117 score	0.40	1.62	0.33	0.76
Illustrative District 145 score	0.34	1.63	0.21	0.76
Illustrative District 149 score	0.46	1.48	0.28	0.83

59. The guidelines further provide that “[t]he boundaries of counties and precincts” “should [be] consider[ed].” Table 8 below shows that the numbers of counties and VTDs (akin to precincts) split in the enacted and illustrative House plans are nearly equal. This version of the illustrative House plan splits six fewer VTDs than the PI version. Figure 18 below shows which counties those VTD splits are in. Just 45 of the State’s 159 counties account for all of the splits.

Table 8: Political subdivision splits for enacted and illustrative House plans.

	Intact Counties	Split Counties	Split VTDs
Enacted	90	69	185
Illustrative	89	70	186

Figure 18: VTD splits in illustrative State House plan by county.



60. The guidelines next call for consideration of “[c]ommunities of interest.” My approach to preserving the intactness of communities of interest in the illustrative House map was similar to the one described in the State Senate “Comparative characteristics” section above. As with the comparable State Senate illustrative map, I

had inadvertently divided the two campuses of Georgia College in the initial illustrative House plan provided during the PI proceeding. The newer House illustrative plan rectifies that community split, and also keeps the central community of Milledgeville more intact. Additionally, as mentioned in the previous section, the district boundaries keep together communities in the Macon-Bibb County area as well as in the central Black Belt region.

61. The final specified guideline is that “[e]fforts should be made to avoid the unnecessary pairing of incumbents.” Based on analysis of the residential addresses of the recently elected State Representatives (provided by counsel), the illustrative plan would evidently pair a total of eight incumbents in the same districts.¹⁷ This is the same number of incumbent pairings reported for the enacted plan in the declaration from John Morgan, provided as part of the PI proceedings.¹⁸ Further it represents a significant improvement over the PI illustrative plan (created without knowledge of incumbent addresses), which paired 16 incumbents, according to the same declaration.¹⁹

62. For more detailed statistics and reports on the above characteristics, please see **Attachment L**.

V. Conclusion

63. This report has demonstrated that it is possible to create three additional majority-Black districts in the Georgia State Senate plan and five additional majority-

¹⁷ Namely Mike Glanton and Kimberly R. New in District 61, El-Mahdi Holly and Regina Lewis-Ward in District 115, Miriam Paris and Dale Washburn in District 142, and Shaw Blackmon and Robert Dickey in District 144.

¹⁸ See Declaration of John B. Morgan, January 18th, 2022, p. 9.

¹⁹ Id.

Black districts in the Georgia House of Representatives plan in accordance with traditional redistricting principles.

64. I reserve the right to supplement this report in consideration of additional facts, testimony, or materials that may come to light.

Executed on December 5th, 2022.

A handwritten signature in black ink, appearing to read "Blakeman B. Esselstyn", written over a horizontal line.

Blakeman B. Esselstyn

Esselstyn Report: Attachment A

December 2022

Blakeman (“Blake”) B. Esselstyn

United States: 49 North Street · Asheville, NC 28801-1141

The Netherlands: Schovenlaan 110 · 6225JS Maastricht

blake@mapfigure.com · +1 828-338-8528

EDUCATION

- University of Pennsylvania, School of Engineering and Applied Science, Master of Computer and Information Technology, 2003; GPA 4.0
- Yale University, Geology & Geophysics and International Studies, Bachelor of Arts, 1996

PROFESSIONAL CERTIFICATIONS

- Geographic Information Systems Professional (GISP), #6946, 2009
- American Institute of Certified Planners (AICP), #026364, 2013

EMPLOYMENT (Teaching positions listed separately)

- Redistricting Consultant, dba Mapfigure Consulting (and as Blake Esselstyn), Asheville, NC, 2016-present (and in the Netherlands starting late 2022)
- Principal Consultant, FrontWater, LLC, Asheville, NC, 2015-present
- Urban Planner III – GIS Specialist, City of Asheville Department of Planning and Urban Design, Asheville, NC, 2008-2015
- Urban Planner II, City of Asheville Planning Department, Asheville, NC, 2004-2008
- Independent GIS Consultant, Freelance, Asheville, NC, 2003-2004
- GIS Programmer, Azavea, Inc., Philadelphia, PA, 2002
- Web Support Fellow, University of Pennsylvania, Philadelphia, PA, 2002
- GIS Analyst, Applied Geographics, Inc., Boston, MA, 2001
- GIS Intern, Community and Environmental Spatial Analysis Center, Seattle, WA, 2000
- GIS Analyst, Applied Geographics, Inc., Boston, MA, 2000
- Mapping Technician, Schlosser Geographic Systems, Seattle, WA, 1997
- Digital Mapping Resources Consultant, Social Science Statistical Laboratory at Yale University, New Haven, CT, 1997
- Special Assistant to the CityRoom Coordinator, Neighborhood Partnerships Network, New Haven, CT, 1996-1997

- Lab Monitor, Center for Earth Observation at Yale University, New Haven, CT, 1995

TEACHING EMPLOYMENT

- Adjunct Faculty, Lenoir-Rhyne University, Asheville, NC, 2019
Taught full-semester graduate-level Geographic Information Systems (GIS) course
- Adjunct Faculty, Western Carolina University, Asheville, NC, 2017
Taught full-semester graduate-level GIS course
- GIS Course Assistant, University of Pennsylvania, Philadelphia, PA, 2002-2003
Served as teaching assistant for two undergraduate GIS semester courses
- Teacher, Equity American School, Guatemala City, Guatemala, 1998-1999
Led mathematics department for grades 7-12; taught one technology course
- Teacher, International School of Panama, Panama City, Republic of Panama, 1997-1998
Taught computer programming and mathematics to secondary school students

LITIGATION EXPERIENCE (As GIS and/or redistricting expert)

- Testifying expert for plaintiffs, in *Grant v. Raffensperger*, U.S District Court for the Northern District of Georgia, 2022
- Consulting expert for plaintiffs, in *League of United Latin American Citizens v. Abbott*, U.S District Court for the Western District of Texas, 2022
- Consulting expert for plaintiffs, in *Rivera v. Schwab*, Wyandotte County (KS) District Court, 2022
- Consulting expert for plaintiffs, in *Harper v. Lewis*, Wake County (NC) Superior Court, 2019
- Consulting expert for plaintiffs, in *Common Cause v. Lewis*, Wake County (NC) Superior Court, 2019
- Preparation of redistricting map exhibits used in *Vesilind v. Virginia State Board of Elections*, Richmond (VA) Circuit Court, 2017
- Expert witness analysis, deposition, and testimony for City of Asheville, in *Jensen v. City of Asheville*, Buncombe County (NC) Superior Court, 2009-2010
- Expert witness analysis and testimony for City of Asheville, in *Hall v. City of Asheville*, Buncombe County (NC) Superior Court, 2007
- Expert witness analysis and testimony for City of Asheville, in *Arnold v. City of Asheville*, Buncombe County (NC) Superior Court, 2005

PUBLIC REDISTRICTING PROJECT EXPERIENCE

- Design and completion of adopted electoral redistricting plans for Wake County (NC) Board of Education, 2021-2022
- Design and completion of adopted electoral redistricting plans for Mecklenburg County (NC) Board of Commissioners, 2021
- Design and completion of adopted electoral redistricting plans for Craven County (NC) Board of Commissioners, 2021
- Design and completion of adopted electoral redistricting plans for City of Fayetteville (NC) City Council, 2021
- Design and completion of adopted electoral redistricting plans for City of Greenville (NC) City Council, 2021
- Design and completion of adopted electoral redistricting plans for Town of Cary (NC) Town Council, 2021
- Design and completion of adopted electoral redistricting plans for City of Hickory (NC) City Council, 2021
- Design and completion of adopted electoral redistricting plans for Town of Mooresville (NC) Board of Commissioners, 2021
- Design and completion of adopted electoral redistricting plans for City of Clinton (NC) City Council, 2021
- Design and completion of adopted electoral redistricting plans for Siler City (NC) Board of Commissioners, 2021
- Design and completion of adopted electoral redistricting plans for Town of Tarboro (NC) Town Council, 2021
- Design and completion of adopted electoral redistricting plans for Durham Public Schools (NC) Board of Education, 2021
- Design and completion of adopted electoral redistricting plans for Pitt County (NC) Board of Education, 2021
- Design and completion of adopted electoral redistricting plans for Union County (NC) Board of Education, 2021
- Design and completion of adopted electoral redistricting plans for Edgecombe County (NC) Board of Education, 2021
- Design and completion of adopted electoral redistricting plans (in advance of Census data delivery) for Town of Cary (NC) Town Council, 2021
- Lead presenter, Lenoir-Rhyne University Hands-on Redistricting Workshop, Virtual, 2021
- Software operator and presenter, National Conference of State Legislatures Redistricting Seminar: Redistricting Simulation, Columbus, OH, 2019

- Software operator and presenter, National Conference of State Legislatures Redistricting Seminar: Redistricting Simulation, Providence, RI, 2019
- Hands-on GIS software workshop session leader, Metric Geometry of Gerrymandering Group (MGGG) Conference at the University of Texas, Austin, TX, 2018
- Co-leader of redistricting hackathon, Metric Geometry of Gerrymandering Group (MGGG) Conference at Duke University, Durham, NC, 2017
- Preparation of simulated redistricting plans for Democracy North Carolina's Districting Voter Education Forum, Asheville, NC, 2017
- Hands-on GIS software workshop session assistant, Metric Geometry of Gerrymandering Group (MGGG) Conference at Tufts University, Medford, MA, 2017
- Redistricting software operator (converting retired jurists' instructions into maps), Duke University and Common Cause NC independent redistricting commission simulation, Raleigh, NC *and* Winston-Salem, NC, 2016

SPEAKER OR PANELIST

- "Political Reapportionment: Drawing Boundaries with QGIS," FOSS4G (Free and Open Source Software for Geospatial) Conference, Florence, Italy, 2022
- "Just Maps: How Gerrymandering Imperils the Right to Vote," Osher Lifelong Learning Institute at the University of North Carolina Asheville, virtual, 2022
- "How to Be a Redistricting Watchdog," Duke University's Redistricting and American Democracy Conference, Durham, NC, 2021
- "North Carolina Redistricting with Geographers: Local Knowledge & Community Considerations," American Association of Geographers (AAG) Redistricting Panel Series, Virtual, 2021
- "The Basics of Redistricting for Local Governments," NC Council of School Attorneys Summer Law Conference, Virtual, 2021
- "Census Timing and Redistricting," UNC School of Government: Municipal Attorneys' Winter Conference, Virtual, 2021
- "Census Delays and Redistricting," North Carolina League of Municipalities Online Meeting, Virtual, 2021
- "Redistricting: Ten Big Changes that GIS People Should Know About for 2021," North Carolina GIS Conference, Virtual, 2021
- "Demographics, the Census, and a Bit about Redistricting," UNC School of Government: County Attorneys Conference, Virtual, 2021
- "NC Redistricting Updates for the GIS Community," Mountain Region GIS Alliance, Virtual, 2021

- “The Census and Demographics,” UNC School of Government: Redistricting for Local Governments Conference, Virtual, 2021
- “The Mechanics of Redistricting,” UNC School of Government: Redistricting for Local Governments Conference, Virtual, 2021
- “Ask the Experts Panel,” National Conference of State Legislatures (NCSL) Redistricting Seminar, Virtual, 2021
- “GIS and the Data Handoff,” National Conference of State Legislatures (NCSL) Redistricting Seminar, Virtual, 2021
- “Electoral Redistricting for School Boards after the 2020 Census,” North Carolina School Boards Association 2020 Annual Conference, Virtual, 2020
- “Redistricting Software 2021: The Next Generation of Tools Could Open New Doors,” Urban and Regional Information Systems Association (URISA) GIS-Pro Conference, Virtual, 2020
- “Changing Demographics, Drawing Districts, and County Impacts,” North Carolina Association of County Commissioners 113th Annual Conference, Virtual, 2020
- “QGIS and democracy: Redistricting and reapportionment with QGIS,” QGIS North America Conference, Virtual, 2020
- “Does Your Vote Count?: The Impact of Gerrymandering,” virtual panel hosted by League of Women Voters Asheville Buncombe, NC, 2020
- [Scheduled, but cancelled due to COVID-19] “Redistricting with QGIS,” Free and Open Source Software for Geospatial Conference, Calgary, Alberta, Canada, 2020
- [Scheduled, but cancelled due to COVID-19] Teaching Faculty (session title to be determined), National Conference of State Legislatures Redistricting Seminar, Las Vegas, NV, 2020
- [Scheduled, but cancelled due to COVID-19] “Census Geography, Precision, & Privacy,” Census Symposium, University of North Carolina Asheville, NC, 2020
- “The State of Redistricting Software and Data Resources for 2020,” Quantitative Investigations of Gerrymandering and Redistricting Conference, Duke University, Durham, NC, 2020
- “School Board Elections,” 53rd School Attorneys’ Conference, UNC School of Government, Chapel Hill, NC, 2020
- “Methods and Techniques in Redistricting,” Harvard Geography of Redistricting Conference, Cambridge, MA, 2019
- “Redistricting Software: A new generation of geospatial tools,” North Carolina GIS Conference, Winston-Salem, NC, 2019
- “The Latest Mapping Technology,” Reason, Reform & Redistricting Conference, Duke University, Durham, NC, 2019

- “Redistricting—What Happens Now?” Voter Education Panel hosted by League of Women Voters (and others), Hendersonville, NC, 2019
- “What are all These Districts? How did We Get Here, and Redistricting Reform,” Grassroots Democracy: A Nonpartisan Voter Education Series, Leicester, NC, 2019
- “Re-GIS-tracting? A new generation of redistricting geo-tools,” Mountain Region GIS Alliance, Asheville, NC, 2019
- “Representing (mis)representation,” Tapestry Data Storytelling Conference, University of Miami, Miami, FL, 2018
- “A Redistricting Tour,” Democracy in our Hands Conference, Asheville, NC, 2018
- “Dis-tricks: GIS and Public Understanding of Redistricting,” NC ArcGIS Users Group, Asheville, NC, 2018
- “Visual Explanations of Gerrymandering,” Highlands Indivisible, Highlands, NC, 2018
- “Dave’s Redistricting App,” Metric Geometry of Gerrymandering Workshop, University of Texas, Austin, TX, 2018
- “Districting Voter Education Forum,” Democracy North Carolina, Asheville, NC, 2017
- “When GIS leads planners astray,” American Planning Association National Conference, New York, NY, 2017
- “Conveying Uncertainty with GIS,” Azavea, Philadelphia, PA, 2017
- “GISkepticism,” Appalachian State University, Boone, NC, 2017
- “When GIS leads planners astray,” North Carolina Planning Conference, American Planning Association North Carolina Chapter, Asheville, NC, 2016
- “What if the ‘S’ in GIS stood for Skepticism?” Mountain Region GIS Alliance, Asheville, NC, 2015
- “Open Data? Show Me the Money!” North Carolina GIS Conference, Raleigh, NC, 2015

TEACHING AS SINGLE-CLASS GUEST SPEAKER (On redistricting and/or GIS)

- Lenoir-Rhyne University, Public Policy Course (speaking on redistricting and representation), 2021
- Lenoir-Rhyne University, Geographic Information Systems Course (speaking on GIS), 2021
- University of North Carolina Asheville, Mathematics: Voting Theory Course (speaking on redistricting), 2020
- Metric Geometry and Gerrymandering Group Redistricting Lab (Tufts University + MIT), Geodata Bootcamp Mapmaking Session (speaking on redistricting software), 2020

- [Scheduled, but cancelled due to COVID-19] Duke University, Law School: Election Law Course (leading hands-on redistricting simulation exercise), April 2020
- Duke University, Data Science Capstone Seminar (speaking on data science professional/career advice), 2020
- University of North Carolina Asheville, Political Science: Census Course (speaking on redistricting), 2020
- Lenoir-Rhyne University, Public Policy Course (speaking on redistricting), 2019
- Western Carolina University, Geographic Information Systems Course (speaking on GIS), 2019
- Duke University, Democracy Lab Seminar (speaking on redistricting software tools), 2018
- University of North Carolina Asheville, Political Science: US Elections Course (speaking on redistricting), 2018
- University of North Carolina Asheville, Mathematics: Voting Theory Course (speaking on redistricting), 2018
- Lenoir-Rhyne University, Sustainability Management & Decision-Making Course (speaking on GIS/location intelligence), 2018
- Yale University, School of Organization and Management: Business Information Course (speaking on Maptitude—one class + multiple labs), 1997

MEDIA APPEARANCES, OP-EDS, AND CITATIONS

- “Gerrymandered or no? How will courts judge new North Carolina political maps?” *Raleigh News & Observer*, February 8, 2022
- “Monster: Math, maps and power in North Carolina,” special podcast series from *Raleigh News & Observer*, September 24, 2021
- “Census data has arrived. What comes next?” *Chatham News + Record*, September 1, 2021
- “An Explainer for Redistricting Criteria, Part 1: Political Boundaries,” *John Locke Foundation*, August 23, 2021
- “Special report: Demystifying the redistricting process,” *NC Policy Watch*, August 20, 2021
- “Raleigh, Cary and other NC cities may have to push back their 2021 elections,” *Raleigh News & Observer*, February 24, 2021
- “Triad Cities Awaiting Census Data May Delay Elections,” WFDD Radio, February 17, 2021
- Live interview, WPTF Radio Afternoon News, February 15, 2021
- “Census Delays Could Delay Charlotte City Council, CMS Fall Elections,” WFAE Radio, January 28, 2021

- “What do Buncombe's new district lines mean for 2020 commissioner elections?” (map citation), *Asheville Citizen-Times*, November 21, 2019
- “Confused about new legislative districts? This ‘map geek’ can help,” *NC Policy Watch*, November 21, 2019
- “Which district are you in? After gerrymandering fight, Asheville, Buncombe get final state districts,” *Asheville Citizen-Times*, November 4, 2019
- “Suggestions for a fair redistricting process,” *Princeton Election Consortium*, September 16, 2019
- “How will Asheville, Buncombe County be affected by gerrymandering decision?” *Asheville Citizen-Times*, September 6, 2019
- “2019 Districting,” JMPRO TV's *The Weekly Update*, September 1, 2019
- “As redistricting battle continues in NC, League of Women Voters holds panel,” *WLOS-TV*, August 11, 2019
- “With No Supreme Court End to Gerrymandering, Will States Make It More Extreme?” (citation/link of blog article), *New York Times*, June 28, 2019
- “The Supreme Court takes on gerrymandering. A cottage industry wants to prove it's gone too far,” *USA Today*, March 26, 2019
- “Gerrymandering: 'Packing' and 'Cracking,' the meat and potatoes of partisan redistricting,” *USA Today*, March 25, 2019
- “NC gerrymandering: Turner, McGrady lead reform effort on redistricting,” *Asheville Citizen-Times*, February 14, 2019
- “Looking for a Way Forward on Redistricting Reform,” *Duke Today*, January 28, 2019
- “Will Asheville try to stop the state from splitting it into districts?” (map citation), *Asheville Citizen-Times*, January 23, 2019
- “Some takeaways from NC's elections,” *WRAL.com*, Nov 7, 2018
- “New Asheville districts are racial gerrymandering, black council members say” *Asheville Citizen-Times*, July 2, 2018
- “Legislature sets up districts for Asheville council, eliminates primaries” (map citation), *Asheville Citizen-Times*, June 27, 2018
- “Van Duyn to back Asheville council districts bill if Senate shifts election dates” (map citation), *Asheville Citizen-Times*, June 21, 2018
- “I Ran the Worst 5K of My Life So I Could Explain Gerrymandering to You,” *POLITICO Magazine*, November 15, 2017
- “Event to cover Nov. vote on City Council districts,” *Asheville Citizen-Times*, October 17, 2017

- “Republicans silent in wake of court order to draw new maps in one month,” *NC Policy Watch*, August 2, 2017
- “Who makes the grade? This week’s editorial report card,” *Asheville Citizen-Times*, June 2, 2017
- “Asheville grows; Charlotte, Raleigh and their suburbs grow faster,” *Asheville Citizen-Times*, May 29, 2017
- “Boundary issues: Where does Asheville end?” (op-ed), *Mountain Xpress*, April 29, 2016
- “For better or worse, Asheville growth inevitable,” *Asheville Citizen-Times*, November 21, 2015
- “St. Lawrence Green no litmus test for voters” (op-ed), *Mountain Xpress*, October 29, 2015

PUBLISHED WORK

- “Redistricting Software Applications, Data, and Related Tools,” supplement to *Redistricting: A Guide for the GIS Community*, Urban and Regional Information Systems Association, 2021
- (Co-authored with Mark Salling, PhD, GISP) “GIS Software Functionality for Redistricting,” *The GIS Professional*, Issue 301, Urban and Regional Information Systems Association, May/June 2021
- (Co-authored with Joan Gardner, Suzanne Rotwein, and Tong Zhang) “Integrating GIS and Social Marketing at HCFA,” *ESRI Map Book*, Volume 16, ESRI Press, 2001

SELF-PUBLISHED PUBLIC-FACING EXPLANATORY WRITING & MAPS

- (Co-authored with Christopher Cooper, Gregory Herschlag, Jonathan Mattingly, Rebecca Tippet) “NC General Assembly County Clusterings from the 2020 Census,” *Quantifying Gerrymandering Blog*, August 17, 2021
- (Co-authored with Christopher Cooper, Gregory Herschlag, Jonathan Mattingly, Rebecca Tippet) “Legislative County Clustering in North Carolina—Looking towards the 2020 Census,” *Quantifying Gerrymandering Blog*, July 16, 2021
- Created the blogs at districks.com (2017) and mapfigure.com (2020) — the story maps “A ‘Stephenson’ explainer” and “Could COVID repercussions delay NC elections in 2021 & 2022?” have each been viewed more than 2,000 times.

REDISTRICTING AND GIS SOFTWARE EXPERIENCE

- MapInfo (first used 1996)
- Maptitude (first used 1997)
- Esri ArcGIS/ArcInfo/ArcView (first used 2000)

- QGIS (first used 2015)
- Maptitude for Redistricting (first used 2016)
- Dave's Redistricting App (first used 2016)
- DistrictBuilder (first used 2017)
- Esri Redistricting (first used 2018)
- Districtr (first used 2019)
- Statto Software Redistricter (first used 2019)
- ArcBridge DISTRICTSolv (first used 2020)

SELECTED AWARDS (As team member)

- G. Herbert Stout Award for Visionary use of GIS by Local Government, 2009
- International Economic Development Council, Excellence in New Media Initiatives, 2008
- Marvin Collins Outstanding Planning Award for Innovations in Planning Services, Education, and Public Involvement, 2007

SERVICE AS ELECTION OFFICIAL

- Poll worker for multiple elections in Buncombe County, North Carolina (2012, 2020, 2022) and King County, Washington (2000), including as Chief Precinct Judge in 2020 general election and 2022 primary election

SERVICE ON BOARDS AND COMMISSIONS

- Asheville City Council Appointee to Comprehensive Plan Advisory Committee, 2016-2018

ADDITIONAL TRAINING

- Introduction to GIS for Equity and Social Justice, Urban and Regional Information Systems Association Certified Workshop, Virtual, 2020
- Public Data, Public Access, Privacy, and Security: U.S. Law and Policy, Urban and Regional Information Systems Association Certified Workshop, Raleigh, NC, 2015
- An Overview of Open Source GIS Software, Urban and Regional Information Systems Association Certified Workshop, Portland, OR, 2012

- An Introduction to Public Participation GIS: Using GIS to Support Community Decision Making, Urban and Regional Information Systems Association Certified Workshop, Orlando, FL, 2010
- 3-D Geospatial Best Practices and Project Implementation Methods, Urban and Regional Information Systems Association Certified Workshop, Vancouver, BC (Canada), 2006

MEMBERSHIPS

- Urban and Regional Information Systems Association (URISA)
- Mountain Region GIS Alliance (MRGAC)
- American Planning Association (APA)

Esselstyn Report: Attachment B

Data sources, software, and methodology

1. I arrived at the findings in the expert report using data from the United States Census Bureau’s website (<https://www.census.gov>). This federal agency produces a) geographic files—e.g., county boundaries and block boundaries, b) tables of the block-level demographic information yielded specifically for redistricting (sometimes referred to as the PL 94-171 data) from the decennial census counts, c) “block assignment files,” which are important for linking geography data to other data, and d) other interactive web-based resources. Representative links for these four categories of data are provided below:

- a) <https://www.census.gov/geographies/mapping-files/time-series/geo/tiger-line-file.2020.html>
- b) <https://data.census.gov/cedsci/all?q=&y=2020&d=DEC%20Redistricting%20Data%20%28PL%2094-171%29>
- c) <https://www.census.gov/geographies/reference-files/time-series/geo/block-assignment-files.html>
- d) <https://www.census.gov/library/stories/state-by-state/georgia-population-change-between-census-decade.html>

2. Another key source of information for the analysis was the Georgia General Assembly’s Legislative and Congressional Reapportionment Office webpage, available at <https://www.legis.ga.gov/joint-office/reapportionment>. This webpage provided links to representations of the enacted State Senate and State House plans, as well as statistical summaries for the plans and copies of the Reapportionment Committee Guidelines for each chamber.

3. The list of residential addresses of elected Georgia General Assembly legislators was provided to me by counsel. To associate those addresses with coordinates on a map, I used the *Google Maps Platform's Geocoding API*.

4. The primary software application I used in the analysis of maps and the creation of the illustrative plans is *Maptitude for Redistricting*, produced by the Caliper Corporation. This specialized geographic information system (GIS) software allows for the importing, interconnecting, and synthesis of the multiple Census Bureau data files listed above. It allows for an existing plan to be imported (like the enacted plans from the Georgia General Assembly), then modified, or plans can be created starting from a blank template. The application generates not only the aggregated statistics for each of the created districts, but also can supply reports on overall characteristics of the plan like average district compactness and population deviation. *Maptitude for Redistricting* is widely used by state and local governments for redistricting and is in fact used by the Georgia General Assembly.

5. For the production of the visual figures in the report, I used two other pieces of software. For the maps, I used a separate open-source GIS software tool called *QGIS*. *QGIS* enabled me to take geographic files exported from *Maptitude for Redistricting* and create high-resolution graphics for insertion into the document with myriad options for customization of visual elements. For the graphs and charts, I used *Microsoft Excel*.

Esselstyn Report: Attachment C

County	Total population	% single race				% single race			% Black alone		% Hispanic or Latino
		% single race White	% single race Black	American Indian and Alaska Native	% single race Asian	% single race Pacific Islander	% other single race	% two or more races	or in combination		
Appling	18,444	70.9%	18.4%	0.5%	0.7%	0.0%	5.7%	3.8%	19.8%	9.9%	
Atkinson	8,286	63.7%	14.6%	0.8%	0.2%	0.0%	12.5%	8.1%	15.5%	24.7%	
Bacon	11,140	74.1%	15.8%	0.1%	0.4%	0.0%	5.1%	4.5%	17.7%	7.9%	
Baker	2,876	53.4%	39.3%	0.0%	0.6%	0.0%	2.5%	4.1%	41.0%	5.0%	
Baldwin	43,799	51.7%	42.0%	0.2%	1.4%	0.1%	1.5%	3.1%	43.3%	2.6%	
Banks	18,035	87.8%	2.2%	0.6%	1.1%	0.1%	2.8%	5.4%	3.3%	6.5%	
Barrow	83,505	69.0%	12.4%	0.5%	3.9%	0.0%	6.0%	8.1%	14.3%	12.6%	
Bartow	108,901	75.7%	10.6%	0.4%	1.1%	0.0%	4.9%	7.3%	12.3%	9.9%	
Ben Hill	17,194	54.9%	36.4%	0.4%	0.7%	0.0%	3.2%	4.4%	38.0%	6.1%	
Berrien	18,160	80.6%	10.8%	0.2%	0.4%	0.1%	2.6%	5.3%	12.1%	5.8%	
Bibb	157,346	36.7%	54.6%	0.2%	2.1%	0.0%	2.4%	4.0%	56.5%	4.3%	
Bleckley	12,583	71.7%	22.4%	0.2%	1.2%	0.1%	1.6%	2.9%	23.5%	3.7%	
Brantley	18,021	91.2%	3.2%	0.3%	0.2%	0.0%	0.7%	4.4%	4.1%	1.8%	
Brooks	16,301	57.1%	35.1%	0.3%	0.4%	0.0%	2.8%	4.3%	36.5%	5.9%	
Bryan	44,738	72.0%	14.5%	0.3%	2.4%	0.1%	2.2%	8.5%	16.7%	7.3%	
Bulloch	81,099	62.5%	28.4%	0.3%	1.6%	0.1%	2.3%	4.8%	30.1%	5.2%	
Burke	24,596	49.5%	44.8%	0.2%	0.4%	0.1%	1.3%	3.7%	46.5%	3.2%	
Butts	25,434	66.1%	26.9%	0.2%	0.4%	0.0%	1.7%	4.7%	28.4%	3.2%	
Calhoun	5,573	32.0%	64.3%	0.1%	0.3%	0.0%	1.8%	1.4%	65.1%	2.7%	
Camden	54,768	70.1%	17.7%	0.5%	1.6%	0.1%	2.1%	7.9%	20.2%	6.7%	
Candler	10,981	61.6%	24.5%	0.3%	0.6%	0.0%	7.4%	5.5%	25.6%	12.5%	
Carroll	119,148	69.3%	18.6%	0.4%	0.9%	0.0%	4.2%	6.6%	20.7%	8.0%	
Catoosa	67,872	88.3%	2.7%	0.4%	1.5%	0.1%	1.3%	5.7%	3.9%	3.4%	
Charlton	12,518	69.9%	21.0%	0.4%	0.9%	0.0%	4.3%	3.6%	22.4%	16.3%	
Chatham	295,291	48.7%	37.0%	0.4%	3.6%	0.2%	3.9%	6.2%	39.1%	8.1%	
Chattahoochee	9,565	62.4%	15.8%	0.5%	3.2%	1.2%	6.1%	10.9%	19.1%	16.8%	
Chattooga	24,965	81.3%	9.6%	0.4%	0.4%	0.0%	3.4%	4.8%	11.5%	5.2%	
Cherokee	266,620	76.8%	6.7%	0.5%	2.1%	0.0%	4.7%	9.2%	8.1%	12.0%	
Clarke	128,671	58.2%	24.6%	0.5%	3.9%	0.1%	6.1%	6.7%	26.2%	11.1%	
Clay	2,848	40.4%	56.1%	0.0%	0.2%	0.0%	0.3%	3.0%	57.4%	1.4%	
Clayton	297,595	10.3%	69.9%	0.7%	4.6%	0.1%	8.8%	5.7%	72.7%	14.3%	
Clinch	6,749	63.8%	29.1%	0.4%	0.3%	0.2%	2.1%	3.9%	31.1%	3.7%	
Cobb	766,149	50.6%	26.6%	0.6%	5.6%	0.1%	7.1%	9.5%	29.1%	14.5%	
Coffee	43,092	59.0%	27.8%	0.5%	0.7%	0.1%	6.9%	5.0%	29.2%	12.6%	
Colquitt	45,898	59.4%	21.9%	0.9%	0.8%	0.0%	10.5%	6.5%	23.2%	19.0%	
Columbia	156,010	65.4%	18.1%	0.3%	4.6%	0.2%	2.5%	8.8%	20.8%	7.6%	
Cook	17,229	63.7%	27.7%	0.4%	0.6%	0.1%	3.1%	4.4%	29.1%	6.6%	
Coweta	146,158	69.6%	17.7%	0.4%	2.3%	0.0%	3.2%	6.8%	19.4%	7.6%	
Crawford	12,130	74.3%	18.7%	0.5%	0.3%	0.0%	1.3%	5.0%	20.2%	3.4%	
Crisp	20,128	49.7%	44.1%	0.2%	0.9%	0.0%	1.9%	3.2%	45.7%	3.1%	
Dade	16,251	91.7%	0.9%	0.5%	0.8%	0.0%	0.8%	5.3%	1.4%	2.2%	
Dawson	26,798	89.0%	0.8%	0.3%	0.9%	0.1%	2.5%	6.4%	1.5%	6.0%	
Decatur	29,367	49.6%	41.7%	0.4%	0.6%	0.1%	4.1%	3.6%	42.8%	6.5%	
DeKalb	764,382	29.5%	50.9%	0.6%	6.6%	0.0%	5.9%	6.5%	53.3%	10.7%	
Dodge	19,925	65.3%	29.5%	0.1%	0.5%	0.1%	1.4%	3.1%	30.9%	3.1%	
Dooly	11,208	41.9%	49.6%	0.2%	0.5%	0.0%	5.0%	2.8%	50.4%	7.1%	
Dougherty	85,790	24.5%	69.9%	0.2%	0.8%	0.0%	1.6%	3.0%	71.6%	2.8%	
Douglas	144,237	36.2%	48.4%	0.5%	1.6%	0.1%	5.8%	7.3%	51.5%	11.1%	
Early	10,854	44.8%	51.2%	0.3%	0.4%	0.0%	0.6%	2.6%	52.4%	1.7%	
Echols	3,697	68.5%	4.2%	1.8%	0.3%	0.0%	14.7%	10.4%	5.2%	29.5%	
Effingham	64,769	75.9%	13.7%	0.4%	1.1%	0.1%	2.1%	6.9%	15.5%	5.4%	
Elbert	19,637	65.3%	26.9%	0.3%	0.9%	0.0%	2.6%	3.9%	28.1%	5.1%	
Emanuel	22,768	61.6%	31.9%	0.3%	0.6%	0.0%	2.5%	3.1%	33.2%	4.4%	
Evans	10,774	57.9%	28.9%	0.3%	0.8%	0.1%	6.4%	5.6%	30.4%	11.5%	
Fannin	25,319	93.0%	0.3%	0.4%	0.4%	0.0%	1.3%	4.5%	0.8%	3.0%	
Fayette	119,194	58.5%	24.8%	0.3%	5.4%	0.0%	3.3%	7.6%	26.9%	8.0%	
Floyd	98,584	70.5%	14.3%	0.7%	1.3%	0.0%	5.9%	7.3%	15.8%	11.6%	
Forsyth	251,283	65.1%	4.3%	0.4%	18.0%	0.0%	4.1%	8.1%	5.3%	10.0%	
Franklin	23,424	83.0%	8.1%	0.2%	1.1%	0.0%	2.8%	4.7%	9.4%	4.8%	
Fulton	1,066,710	39.3%	42.5%	0.3%	7.6%	0.0%	3.6%	6.6%	44.8%	8.1%	
Gilmer	31,353	86.0%	0.5%	0.8%	0.5%	0.0%	6.5%	5.7%	0.9%	11.5%	
Glascock	2,884	89.8%	6.8%	0.0%	0.2%	0.1%	0.1%	2.9%	7.8%	1.8%	
Glynn	84,499	64.2%	24.5%	0.4%	1.4%	0.1%	3.7%	5.7%	26.2%	7.5%	

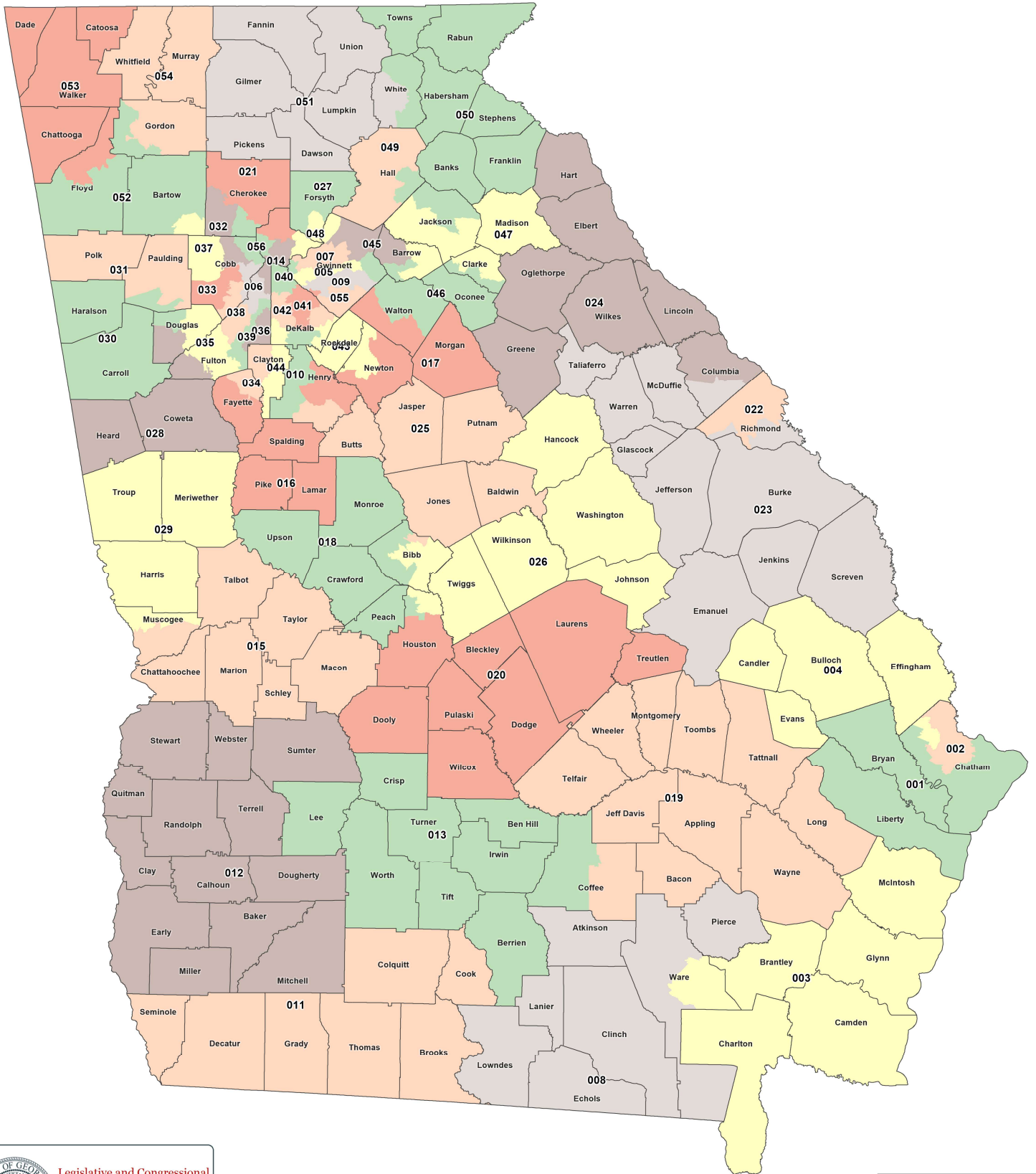
County	Total population	% single race				% single race			% Black alone		% Hispanic or Latino
		% single race White	% single race Black	American Indian and Alaska Native	% single race Asian	% single race Pacific Islander	% other single race	% two or more races	or in combination		
Gordon	57,544	78.4%	3.7%	0.6%	1.3%	0.0%	8.0%	8.0%	5.1%	15.6%	
Grady	26,236	57.4%	28.0%	1.0%	0.5%	0.0%	8.0%	5.1%	29.3%	12.5%	
Greene	18,915	59.7%	30.7%	0.2%	0.9%	0.0%	3.7%	4.7%	31.9%	6.8%	
Gwinnett	957,062	35.5%	27.4%	0.8%	13.3%	0.1%	12.1%	10.7%	30.1%	23.0%	
Habersham	46,031	78.7%	3.8%	0.5%	2.2%	0.1%	6.6%	8.1%	4.7%	14.9%	
Hall	203,136	64.4%	7.2%	0.9%	2.1%	0.1%	14.4%	11.0%	8.4%	28.1%	
Hancock	8,735	27.7%	69.0%	0.3%	0.4%	0.0%	0.3%	2.3%	70.2%	0.7%	
Haralson	29,919	90.3%	4.2%	0.2%	0.6%	0.0%	0.7%	3.9%	5.2%	1.7%	
Harris	34,668	76.0%	15.1%	0.4%	1.1%	0.1%	1.4%	5.9%	16.6%	4.1%	
Hart	25,828	75.3%	16.8%	0.2%	1.3%	0.0%	1.8%	4.6%	18.3%	3.6%	
Heard	11,412	84.8%	8.3%	0.3%	0.5%	0.1%	0.9%	5.3%	10.0%	2.2%	
Henry	240,712	37.1%	49.1%	0.3%	3.4%	0.1%	3.6%	6.5%	52.0%	7.7%	
Houston	163,633	54.1%	32.2%	0.4%	3.0%	0.1%	3.0%	7.3%	34.5%	7.2%	
Irwin	9,666	67.1%	23.1%	0.2%	1.2%	0.0%	5.2%	3.2%	24.1%	6.9%	
Jackson	75,907	79.7%	6.9%	0.3%	2.3%	0.1%	4.1%	6.6%	8.1%	8.8%	
Jasper	14,588	74.8%	16.9%	0.3%	0.2%	0.1%	2.5%	5.3%	18.3%	4.7%	
Jeff Davis	14,779	70.1%	15.6%	0.6%	0.4%	0.0%	8.5%	4.9%	16.9%	13.9%	
Jefferson	15,709	44.2%	50.8%	0.3%	0.4%	0.0%	1.7%	2.6%	52.3%	2.9%	
Jenkins	8,674	53.9%	40.9%	0.4%	0.1%	0.1%	2.1%	2.4%	41.9%	3.5%	
Johnson	9,189	63.4%	33.0%	0.3%	0.3%	0.2%	0.5%	2.4%	34.0%	1.3%	
Jones	28,347	71.3%	23.9%	0.2%	0.5%	0.0%	0.7%	3.5%	25.1%	1.7%	
Lamar	18,500	67.4%	26.6%	0.1%	0.6%	0.0%	1.1%	4.2%	28.2%	2.6%	
Lanier	9,877	68.8%	22.0%	0.4%	0.8%	0.2%	1.9%	5.8%	24.0%	5.8%	
Laurens	49,570	56.8%	37.0%	0.2%	1.0%	0.0%	1.6%	3.4%	38.6%	2.9%	
Lee	33,163	69.3%	22.2%	0.2%	2.6%	0.0%	1.1%	4.5%	23.4%	2.9%	
Liberty	65,256	39.8%	43.1%	0.5%	2.1%	0.7%	4.1%	9.7%	47.7%	11.9%	
Lincoln	7,690	68.1%	27.6%	0.2%	0.3%	0.0%	0.3%	3.4%	28.8%	1.2%	
Long	16,168	56.9%	25.5%	0.8%	1.1%	0.6%	5.6%	9.5%	29.3%	12.2%	
Lowndes	118,251	51.7%	37.6%	0.4%	1.7%	0.1%	2.7%	5.8%	39.5%	6.7%	
Lumpkin	33,488	88.8%	1.3%	0.6%	0.8%	0.1%	2.1%	6.4%	2.0%	5.3%	
Macon	12,082	34.4%	59.3%	0.3%	1.3%	0.1%	2.7%	2.0%	60.4%	3.9%	
Madison	30,120	79.6%	9.2%	0.3%	1.8%	0.0%	3.4%	5.8%	10.6%	6.5%	
Marion	7,498	60.7%	28.7%	0.3%	0.7%	0.2%	4.6%	4.7%	29.6%	7.5%	
McDuffie	21,632	53.5%	40.1%	0.2%	0.4%	0.1%	1.6%	4.0%	41.8%	3.7%	
McIntosh	10,975	65.1%	29.1%	0.3%	0.4%	0.0%	0.6%	4.4%	31.0%	2.1%	
Meriwether	20,613	59.3%	35.3%	0.3%	0.4%	0.0%	1.0%	3.6%	36.6%	2.3%	
Miller	6,000	66.4%	29.2%	0.2%	0.5%	0.1%	0.9%	2.7%	30.5%	2.3%	
Mitchell	21,755	47.2%	46.5%	0.2%	0.5%	0.0%	2.8%	2.7%	47.8%	4.4%	
Monroe	27,957	72.0%	21.9%	0.2%	0.9%	0.0%	1.1%	4.0%	23.0%	2.6%	
Montgomery	8,610	67.2%	24.8%	0.3%	0.5%	0.0%	3.8%	3.5%	25.8%	6.6%	
Morgan	20,097	72.7%	20.5%	0.2%	0.6%	0.0%	1.9%	4.0%	21.6%	3.5%	
Murray	39,973	83.4%	0.7%	1.5%	0.3%	0.0%	7.0%	7.0%	1.4%	14.8%	
Muscogee	206,922	39.9%	46.5%	0.4%	2.7%	0.3%	3.2%	7.1%	49.4%	8.0%	
Newton	112,483	42.7%	46.9%	0.3%	0.9%	0.1%	3.3%	5.7%	49.7%	6.4%	
Oconee	41,799	82.4%	4.6%	0.2%	5.0%	0.0%	2.1%	5.7%	5.5%	5.6%	
Oglethorpe	14,825	74.7%	15.2%	0.4%	0.9%	0.0%	2.8%	6.0%	16.6%	5.9%	
Paulding	168,661	65.9%	22.1%	0.4%	1.2%	0.1%	3.0%	7.3%	24.5%	7.4%	
Peach	27,981	44.7%	43.7%	0.4%	0.7%	0.0%	5.3%	5.2%	45.2%	9.1%	
Pickens	33,216	91.5%	0.9%	0.4%	0.6%	0.0%	1.4%	5.1%	1.5%	3.6%	
Pierce	19,716	84.5%	8.1%	0.4%	0.4%	0.0%	2.8%	3.7%	9.1%	5.1%	
Pike	18,889	87.0%	7.7%	0.2%	0.4%	0.0%	0.7%	4.0%	8.5%	1.8%	
Polk	42,853	72.9%	12.2%	0.8%	0.6%	0.1%	7.8%	5.7%	13.6%	13.0%	
Pulaski	9,855	61.9%	32.2%	0.1%	0.9%	0.0%	2.0%	2.8%	33.0%	3.3%	
Putnam	22,047	66.5%	24.6%	0.4%	0.5%	0.0%	2.8%	5.2%	25.9%	7.1%	
Quitman	2,235	53.2%	41.1%	0.6%	0.5%	0.0%	0.4%	4.1%	43.2%	1.4%	
Rabun	16,883	89.0%	0.7%	0.4%	0.4%	0.0%	3.1%	6.4%	1.2%	8.6%	
Randolph	6,425	35.1%	60.3%	0.2%	0.3%	0.0%	1.4%	2.6%	61.4%	2.2%	
Richmond	206,607	34.4%	55.3%	0.3%	1.9%	0.2%	2.3%	5.6%	58.1%	5.5%	
Rockdale	93,570	27.4%	58.1%	0.3%	1.6%	0.1%	5.7%	6.6%	61.1%	10.2%	
Schley	4,547	75.3%	19.3%	0.1%	0.4%	0.0%	1.1%	3.7%	20.5%	3.8%	
Screven	14,067	57.5%	37.7%	0.4%	0.4%	0.1%	0.8%	3.2%	39.3%	2.0%	
Seminole	9,147	61.9%	32.7%	0.1%	0.7%	0.0%	1.4%	3.2%	33.8%	2.5%	
Spalding	67,306	56.2%	34.6%	0.4%	1.0%	0.0%	2.5%	5.3%	36.4%	5.4%	

Georgia county demographic statistics from 2020 census data, generated by Blake Esselstyn

County	Total population	% single race		% single race			% single race		% Black alone		% Hispanic or Latino
		White	Black	American Indian and Alaska Native	Asian	Pacific Islander	% other single race	% two or more races	or in combination		
Stephens	26,784	80.6%	11.1%	0.4%	0.9%	0.0%	1.1%	5.9%	13.2%	3.2%	
Stewart	5,314	25.4%	46.4%	0.2%	3.2%	0.1%	22.1%	2.5%	47.8%	22.9%	
Sumter	29,616	39.8%	51.1%	0.3%	1.7%	0.0%	4.1%	3.1%	52.5%	6.0%	
Talbot	5,733	42.9%	53.7%	0.1%	0.3%	0.0%	0.2%	2.8%	54.9%	2.0%	
Taliaferro	1,559	38.9%	53.4%	0.3%	0.4%	0.0%	1.8%	5.3%	56.2%	4.4%	
Tattnall	22,842	62.5%	26.3%	0.4%	0.6%	0.0%	5.6%	4.6%	27.7%	10.1%	
Taylor	7,816	59.4%	36.2%	0.3%	0.5%	0.1%	0.8%	2.8%	37.7%	2.1%	
Telfair	12,477	58.3%	37.1%	0.3%	0.3%	0.0%	1.7%	2.4%	38.1%	15.5%	
Terrell	9,185	35.2%	60.6%	0.1%	0.7%	0.0%	0.6%	2.6%	62.1%	1.9%	
Thomas	45,798	57.6%	35.7%	0.4%	0.9%	0.0%	1.6%	3.8%	37.1%	3.4%	
Tift	41,344	56.2%	29.3%	0.3%	1.6%	0.0%	6.7%	5.8%	30.8%	12.6%	
Toombs	27,030	61.3%	26.0%	0.4%	0.8%	0.0%	6.5%	5.1%	27.4%	11.3%	
Towns	12,493	92.8%	1.0%	0.2%	0.6%	0.0%	1.5%	3.8%	1.3%	3.3%	
Treutlen	6,406	64.1%	31.6%	0.3%	0.1%	0.0%	1.0%	2.8%	33.0%	2.7%	
Troup	69,426	55.7%	35.0%	0.3%	2.3%	0.1%	2.5%	4.2%	36.7%	4.3%	
Turner	9,006	53.4%	40.7%	0.1%	0.6%	0.0%	1.9%	3.3%	42.3%	4.1%	
Twiggs	8,022	56.4%	38.9%	0.3%	0.5%	0.0%	0.5%	3.5%	40.2%	1.5%	
Union	24,632	92.7%	0.5%	0.4%	0.4%	0.0%	1.1%	4.9%	0.9%	3.3%	
Upton	27,700	65.5%	28.5%	0.3%	0.5%	0.0%	1.3%	3.8%	30.1%	2.3%	
Walker	67,654	88.9%	4.2%	0.3%	0.4%	0.1%	1.1%	5.0%	5.4%	2.5%	
Walton	96,673	72.0%	17.9%	0.3%	1.5%	0.1%	2.6%	5.6%	19.5%	5.4%	
Ware	36,251	62.4%	29.7%	0.3%	0.9%	0.0%	2.4%	4.3%	31.5%	4.4%	
Warren	5,215	38.2%	58.5%	0.3%	0.3%	0.1%	0.3%	2.3%	60.0%	1.0%	
Washington	19,988	42.4%	53.7%	0.2%	0.4%	0.0%	0.8%	2.5%	54.9%	1.7%	
Wayne	30,144	72.5%	19.8%	0.3%	0.6%	0.0%	2.5%	4.2%	21.2%	5.7%	
Webster	2,348	48.8%	45.3%	0.1%	0.5%	0.3%	0.9%	4.2%	47.1%	2.5%	
Wheeler	7,471	56.6%	38.6%	0.4%	0.2%	0.0%	2.0%	2.2%	39.5%	3.6%	
White	28,003	90.2%	1.7%	0.5%	0.6%	0.0%	1.2%	5.8%	2.6%	3.3%	
Whitfield	102,864	63.3%	3.7%	2.0%	1.4%	0.0%	17.7%	11.9%	4.8%	35.9%	
Wilcox	8,766	59.9%	35.4%	0.0%	0.6%	0.0%	1.5%	2.6%	36.1%	3.1%	
Wilkes	9,565	52.8%	40.2%	0.4%	0.6%	0.0%	1.9%	4.1%	41.7%	4.2%	
Wilkinson	8,877	58.2%	35.8%	0.3%	0.3%	0.1%	1.3%	4.0%	37.5%	2.7%	
Worth	20,784	69.9%	25.4%	0.3%	0.4%	0.0%	0.8%	3.1%	26.5%	1.8%	

Esselstyn Report: Attachment D


Proposed Georgia Senate Districts




Legislative and Congressional Reapportionment Office
Georgia General Assembly
Suite 407 Coverdell Legislative Office Bldg.

Map layers

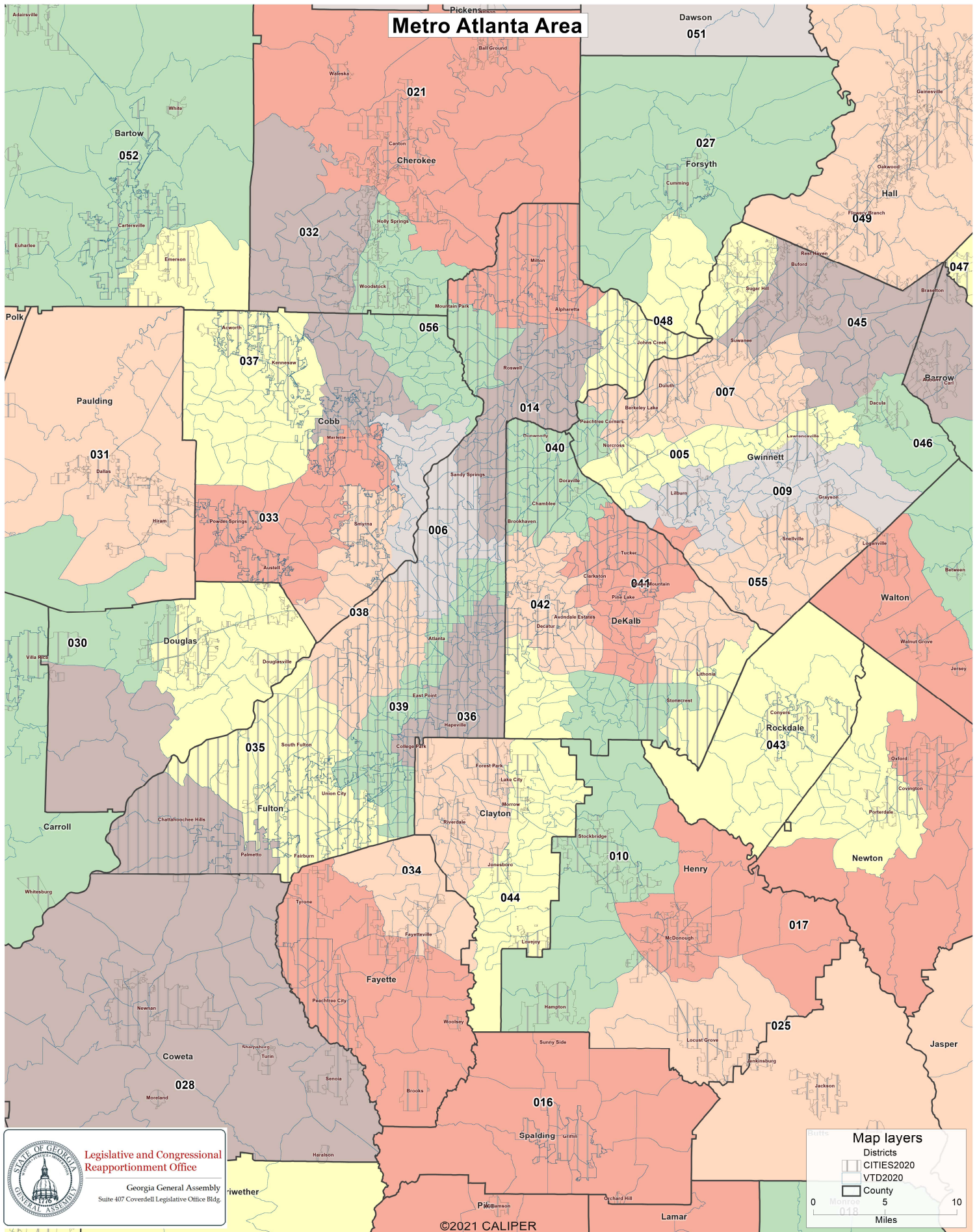
- Districts
- County



Miles

Proposed Georgia Senate Districts

Client: S018
Plan: Senate-prop1-2021
Type: Senate



Metro Atlanta Area

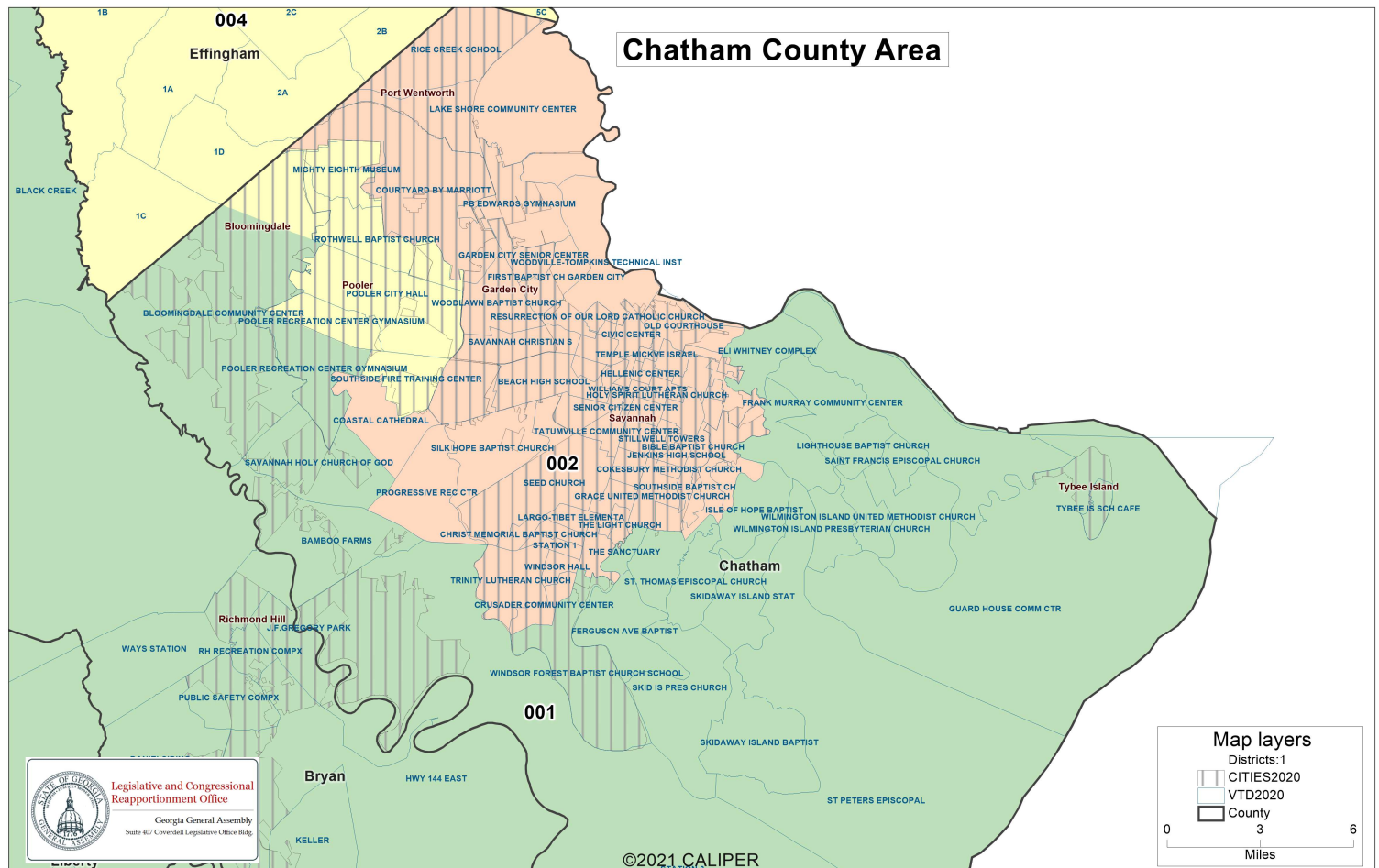
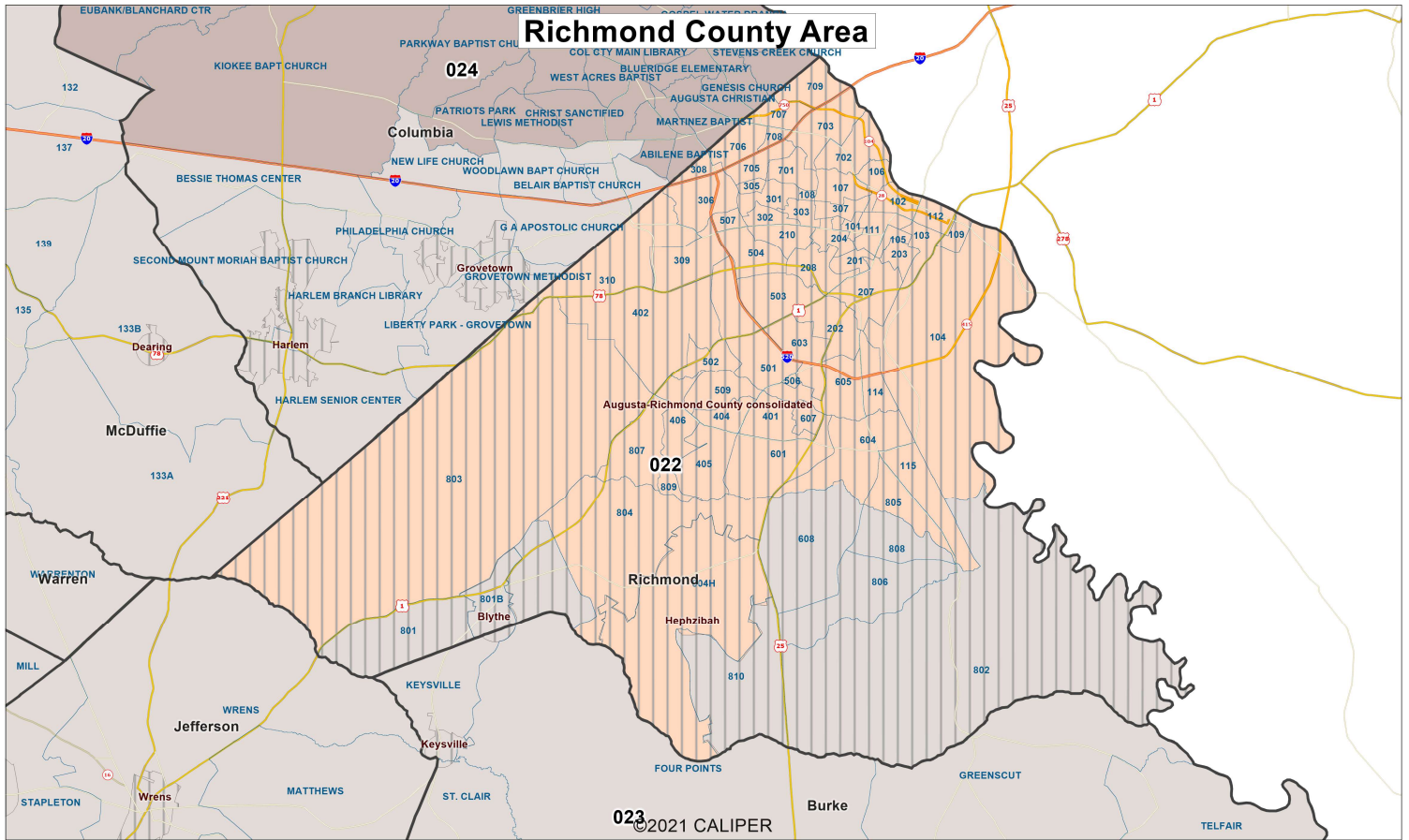
**Legislative and Congressional Reapportionment Office**
Georgia General Assembly
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Map layers
Districts
CITIES2020
VTD2020
County

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Proposed Georgia Senate Districts

Client: S018
 Plan: Senate-prop1-2021
 Type: Senate

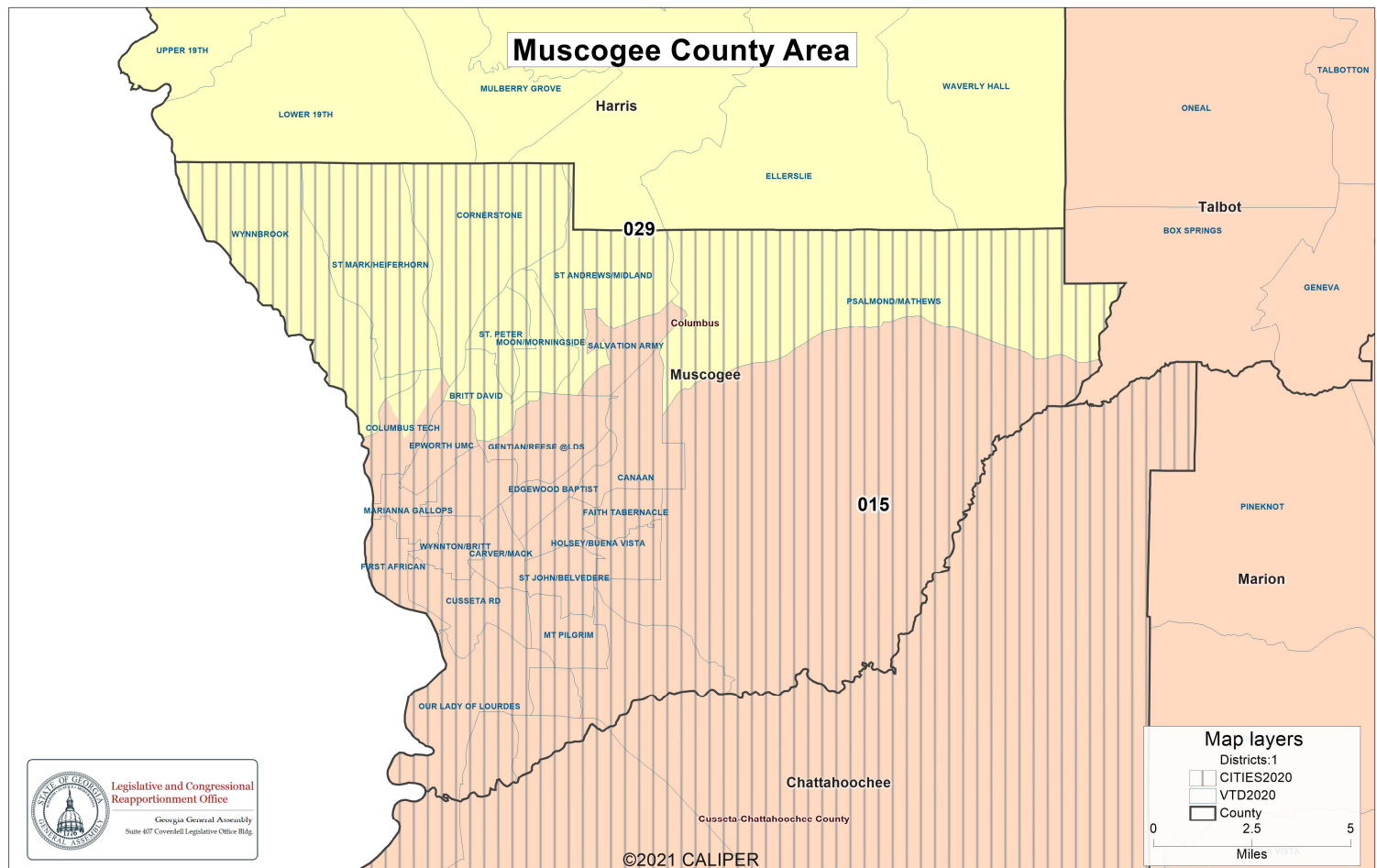
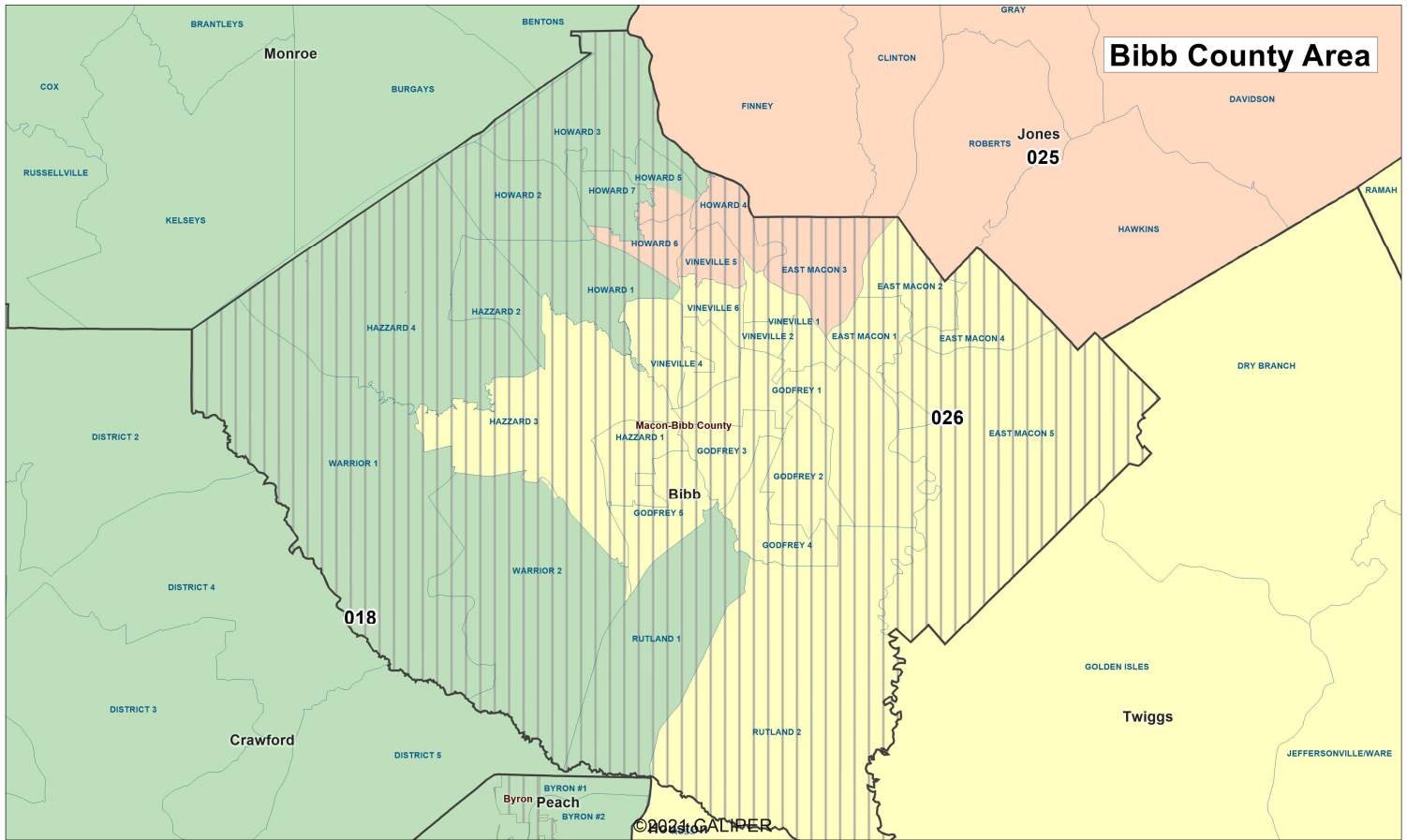


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Proposed Georgia Senate Districts

Client: S018
Plan: Senate-prop1-2021
Type: Senate



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Map layers

- Districts: 1
- CITIES2020
- VTD2020
- County

0 2.5 5
Miles

User: S018

Plan Name: Senate-prop1-2021

Plan Type: Senate

Population Summary

Summary Statistics:

Population Range:	189,320 to 193,163
Ratio Range:	0.02
Absolute Range:	-1,964 to 1,879
Absolute Overall Range:	3,843
Relative Range:	-1.03% to 0.98%
Relative Overall Range:	2.01%
Absolute Mean Deviation:	1,012.61
Relative Mean Deviation:	0.53%
Standard Deviation:	1,154.96

District	Population	Deviation	% Devn.	[18+ _Pop]	[% 18+ _Pop]	[% NH_Wht]	[% NH_Blkl]	[% Hispanic Origin]	[% NH_Asn]	[% NH_Ind]	[% NH_Hwn]	[% NH_Oth]	[% NH_2+ Races]
001	191,402	118	0.06%	145,428	75.98%	58.9%	23.66%	8.78%	2.64%	0.25%	0.3%	0.48%	4.99%
002	190,408	-876	-0.46%	150,843	79.22%	36.4%	47.51%	8.36%	3.4%	0.21%	0.15%	0.46%	3.49%
003	191,212	-72	-0.04%	148,915	77.88%	66.23%	20.92%	6.82%	1.22%	0.26%	0.09%	0.42%	4.04%
004	191,098	-186	-0.10%	146,443	76.63%	64.48%	22.6%	6.49%	1.86%	0.23%	0.07%	0.38%	3.9%
005	191,921	637	0.33%	139,394	72.63%	13.35%	26.84%	45.47%	10.98%	0.15%	0.04%	0.64%	2.52%
006	191,401	117	0.06%	155,781	81.39%	56.41%	21.47%	9.18%	7.21%	0.16%	0.03%	1.11%	4.42%
007	189,709	-1,575	-0.82%	147,425	77.71%	35.09%	20.08%	18.57%	21.67%	0.16%	0.04%	0.66%	3.72%
008	192,396	1,112	0.58%	145,144	75.44%	57.39%	30.03%	7.28%	1.21%	0.28%	0.07%	0.35%	3.4%
009	192,915	1,631	0.85%	142,054	73.64%	32.04%	28.46%	21.09%	13.98%	0.18%	0.03%	0.72%	3.48%
010	192,898	1,614	0.84%	147,884	76.66%	17.71%	68.95%	6.03%	3.1%	0.18%	0.03%	0.66%	3.34%
011	189,976	-1,308	-0.68%	144,597	76.11%	55.75%	31.13%	9.36%	0.69%	0.23%	0.03%	0.26%	2.54%
012	190,819	-465	-0.24%	149,154	78.17%	33.83%	58.82%	3.89%	0.86%	0.16%	0.02%	0.21%	2.2%
013	189,326	-1,958	-1.02%	144,141	76.13%	61.25%	27.08%	7.2%	1.2%	0.17%	0.02%	0.26%	2.81%
014	192,533	1,249	0.65%	155,340	80.68%	54.63%	16.79%	13.97%	9.46%	0.13%	0.04%	0.79%	4.19%
015	189,446	-1,838	-0.96%	144,506	76.28%	34.07%	52.31%	7.57%	1.31%	0.23%	0.27%	0.44%	3.79%
016	191,829	545	0.28%	147,133	76.7%	64.19%	22.31%	5.95%	3.04%	0.17%	0.03%	0.51%	3.79%
017	192,510	1,226	0.64%	144,472	75.05%	56.69%	31.21%	6.08%	1.41%	0.16%	0.05%	0.59%	3.81%
018	191,825	541	0.28%	150,196	78.3%	58.41%	30.01%	5.18%	2.42%	0.22%	0.03%	0.4%	3.33%
019	192,316	1,032	0.54%	146,131	75.98%	61.67%	24.76%	9.72%	0.58%	0.17%	0.06%	0.27%	2.77%
020	192,588	1,304	0.68%	147,033	76.35%	59.74%	30.65%	4.21%	1.73%	0.15%	0.05%	0.31%	3.16%
021	192,572	1,288	0.67%	145,120	75.36%	71.13%	6.52%	10.13%	7.38%	0.19%	0.04%	0.53%	4.08%
022	193,163	1,879	0.98%	150,450	77.89%	31.1%	56.58%	5.63%	1.97%	0.24%	0.18%	0.44%	3.86%
023	190,344	-940	-0.49%	144,113	75.71%	54.27%	34.66%	5.46%	1.16%	0.24%	0.1%	0.34%	3.78%
024	192,674	1,390	0.73%	148,602	77.13%	67.45%	18.98%	5.4%	3.31%	0.18%	0.09%	0.43%	4.15%
025	191,161	-123	-0.06%	148,917	77.9%	57.45%	33.4%	4.27%	1.08%	0.16%	0.05%	0.43%	3.16%
026	189,945	-1,339	-0.70%	145,744	76.73%	33.26%	57.37%	4.85%	0.83%	0.21%	0.04%	0.31%	3.14%
027	190,676	-608	-0.32%	139,196	73%	68%	4.31%	11.61%	11.41%	0.18%	0.04%	0.52%	3.94%
028	190,422	-862	-0.45%	144,973	76.13%	67.06%	18.79%	7.4%	1.96%	0.22%	0.04%	0.48%	4.06%
029	189,424	-1,860	-0.97%	145,674	76.9%	60.71%	26.22%	5.34%	3.02%	0.23%	0.1%	0.42%	3.97%

Population Summary

Senate-prop1-2021

District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH_Wht]	[% NH_Blk]	[% Hispanic Origin]	[% NH_Asn]	[% NH_Ind]	[% NH_Hwn]	[% NH_Oth]	[% NH_2+ Races]
030	191,475	191	0.10%	145,077	75.77%	66.97%	19.83%	7.27%	0.95%	0.23%	0.03%	0.49%	4.24%
031	192,560	1,276	0.67%	142,251	73.87%	65.2%	19.83%	8.85%	1.07%	0.23%	0.06%	0.58%	4.19%
032	192,448	1,164	0.61%	149,879	77.88%	63.13%	13.22%	12.09%	5.49%	0.2%	0.04%	0.91%	4.91%
033	192,694	1,410	0.74%	146,415	75.98%	26%	40.48%	26.72%	2.13%	0.19%	0.05%	0.86%	3.56%
034	190,668	-616	-0.32%	141,840	74.39%	11.11%	66.6%	14.82%	3.9%	0.23%	0.04%	0.6%	2.7%
035	192,839	1,555	0.81%	144,675	75.02%	16.46%	69.77%	8.68%	1.13%	0.17%	0.06%	0.64%	3.08%
036	192,282	998	0.52%	161,385	83.93%	33.1%	51.35%	7.56%	3.58%	0.17%	0.04%	0.53%	3.68%
037	192,671	1,387	0.73%	147,779	76.7%	62.38%	18.04%	9.99%	3.85%	0.16%	0.03%	0.78%	4.76%
038	193,155	1,871	0.98%	148,367	76.81%	20.03%	62.74%	9.72%	3.42%	0.18%	0.04%	0.58%	3.29%
039	191,500	216	0.11%	156,022	81.47%	25.32%	60.33%	6.1%	4.25%	0.16%	0.04%	0.57%	3.22%
040	190,544	-740	-0.39%	147,000	77.15%	43.69%	16.42%	24.81%	10.84%	0.12%	0.04%	0.65%	3.43%
041	191,023	-261	-0.14%	145,278	76.05%	18.86%	60.28%	7.32%	9.19%	0.22%	0.02%	0.64%	3.48%
042	190,940	-344	-0.18%	153,952	80.63%	49.91%	28.14%	10.13%	6.81%	0.13%	0.03%	0.61%	4.24%
043	192,729	1,445	0.76%	145,741	75.62%	23.45%	62.77%	8.13%	1.24%	0.17%	0.09%	0.67%	3.49%
044	190,036	-1,248	-0.65%	145,224	76.42%	13.02%	69.13%	9.96%	4.15%	0.16%	0.04%	0.62%	2.91%
045	190,692	-592	-0.31%	140,706	73.79%	52.74%	17.12%	14.66%	10.69%	0.13%	0.03%	0.62%	4.01%
046	190,312	-972	-0.51%	146,713	77.09%	67.24%	16.64%	7.99%	3.77%	0.2%	0.03%	0.58%	3.56%
047	190,607	-677	-0.35%	146,599	76.91%	64.67%	16.96%	11.22%	2.66%	0.16%	0.04%	0.58%	3.71%
048	190,123	-1,161	-0.61%	136,995	72.06%	49.01%	8.35%	7.58%	30.59%	0.13%	0.04%	0.55%	3.75%
049	189,355	-1,929	-1.01%	144,123	76.11%	60.85%	7.13%	26.24%	2.15%	0.15%	0.04%	0.35%	3.08%
050	189,320	-1,964	-1.03%	148,799	78.6%	78.61%	5.05%	11.08%	1.22%	0.22%	0.04%	0.26%	3.52%
051	190,167	-1,117	-0.58%	155,571	81.81%	88.75%	0.84%	5.43%	0.59%	0.31%	0.02%	0.3%	3.77%
052	190,799	-485	-0.25%	146,620	76.85%	71.8%	12.39%	10.11%	1.08%	0.21%	0.03%	0.35%	4.02%
053	190,236	-1,048	-0.55%	148,201	77.9%	85.78%	4.46%	3.98%	1%	0.24%	0.06%	0.3%	4.18%
054	192,443	1,159	0.61%	143,843	74.75%	65.71%	2.97%	26.66%	1.14%	0.19%	0.02%	0.25%	3.07%
055	190,155	-1,129	-0.59%	141,968	74.66%	18.09%	62.96%	10.14%	4.19%	0.17%	0.04%	0.73%	3.67%
056	191,226	-58	-0.03%	144,448	75.54%	73.9%	6.36%	8.63%	5.67%	0.11%	0.03%	0.75%	4.56%

Total: 10,711,908
Ideal District: 191,284

User: S018

Plan Name: Senate-prop1-2021

Plan Type: Senate

Population Summary

Summary Statistics:

Population Range:	189,320 to 193,163
Ratio Range:	0.02
Absolute Range:	-1,964 to 1,879
Absolute Overall Range:	3,843
Relative Range:	-1.03% to 0.98%
Relative Overall Range:	2.01%
Absolute Mean Deviation:	1,012.61
Relative Mean Deviation:	0.53%
Standard Deviation:	1,154.96

District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH18+_Wht]	[% NH18+_Blk]	[% H18+_Pop]	[% NH18+_Asn]	[% NH18+_Ind]	[% NH18+_Hwn]	[% NH18+_Oth]	[% NH18+_2+ Races]
001	191,402	118	0.06%	145,428	75.98%	61.99%	22.8%	7.55%	2.81%	0.28%	0.27%	0.4%	3.9%
002	190,408	-876	-0.46%	150,843	79.22%	40.21%	44.81%	7.48%	3.77%	0.22%	0.15%	0.42%	2.95%
003	191,212	-72	-0.04%	148,915	77.88%	68.88%	19.81%	6.17%	1.27%	0.27%	0.08%	0.34%	3.19%
004	191,098	-186	-0.10%	146,443	76.63%	66.78%	21.98%	5.52%	1.9%	0.24%	0.07%	0.33%	3.17%
005	191,921	637	0.33%	139,394	72.63%	15.69%	27.21%	41.67%	12.41%	0.14%	0.04%	0.55%	2.28%
006	191,401	117	0.06%	155,781	81.39%	57.79%	21.79%	8.24%	7.14%	0.16%	0.03%	1.05%	3.8%
007	189,709	-1,575	-0.82%	147,425	77.71%	37.84%	19.33%	16.56%	22.58%	0.16%	0.05%	0.55%	2.93%
008	192,396	1,112	0.58%	145,144	75.44%	60.1%	29.02%	6.21%	1.27%	0.29%	0.08%	0.27%	2.75%
009	192,915	1,631	0.85%	142,054	73.64%	35.81%	27.23%	18.77%	14.59%	0.18%	0.04%	0.59%	2.8%
010	192,898	1,614	0.84%	147,884	76.66%	19.64%	68.31%	5.18%	3.15%	0.18%	0.04%	0.61%	2.89%
011	189,976	-1,308	-0.68%	144,597	76.11%	58.97%	30.08%	7.6%	0.72%	0.26%	0.02%	0.22%	2.13%
012	190,819	-465	-0.24%	149,154	78.17%	36.71%	56.63%	3.48%	0.92%	0.18%	0.02%	0.18%	1.88%
013	189,326	-1,958	-1.02%	144,141	76.13%	64.1%	26.01%	6.01%	1.21%	0.17%	0.02%	0.21%	2.26%
014	192,533	1,249	0.65%	155,340	80.68%	57.1%	16.83%	12.13%	9.43%	0.12%	0.05%	0.74%	3.61%
015	189,446	-1,838	-0.96%	144,506	76.28%	36.52%	51.56%	6.59%	1.45%	0.23%	0.25%	0.36%	3.04%
016	191,829	545	0.28%	147,133	76.7%	66.91%	21.49%	5.03%	2.92%	0.18%	0.03%	0.42%	3.01%
017	192,510	1,226	0.64%	144,472	75.05%	59.42%	30.21%	5.13%	1.41%	0.17%	0.03%	0.49%	3.14%
018	191,825	541	0.28%	150,196	78.3%	60.69%	29.2%	4.51%	2.46%	0.22%	0.03%	0.29%	2.6%
019	192,316	1,032	0.54%	146,131	75.98%	63.99%	24.52%	8.38%	0.62%	0.18%	0.06%	0.2%	2.06%
020	192,588	1,304	0.68%	147,033	76.35%	61.71%	30.17%	3.49%	1.76%	0.16%	0.05%	0.25%	2.41%
021	192,572	1,288	0.67%	145,120	75.36%	73.87%	6.37%	8.77%	6.98%	0.18%	0.04%	0.48%	3.32%
022	193,163	1,879	0.98%	150,450	77.89%	34.38%	53.94%	5.35%	2.3%	0.24%	0.18%	0.38%	3.24%
023	190,344	-940	-0.49%	144,113	75.71%	56.89%	33.91%	4.52%	1.24%	0.25%	0.09%	0.27%	2.84%
024	192,674	1,390	0.73%	148,602	77.13%	69.81%	18.69%	4.4%	3.27%	0.2%	0.07%	0.35%	3.2%
025	191,161	-123	-0.06%	148,917	77.9%	59.94%	32.23%	3.66%	1.09%	0.18%	0.04%	0.39%	2.48%
026	189,945	-1,339	-0.70%	145,744	76.73%	36.6%	55.18%	4.24%	0.92%	0.22%	0.03%	0.24%	2.56%
027	190,676	-608	-0.32%	139,196	73%	71.5%	4.16%	10.2%	10.27%	0.15%	0.04%	0.45%	3.22%
028	190,422	-862	-0.45%	144,973	76.13%	69.44%	18.18%	6.44%	1.99%	0.23%	0.04%	0.38%	3.29%

Population Summary

Senate-prop1-2021

District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH18+_Wht]	[% NH18+_Blk]	[% H18+_Pop]	[% NH18+_Asn]	[% NH18+_Ind]	[% NH18+_Hwn]	[% NH18+_Oth]	[% NH18+_2+ Races]
029	189,424	-1,860	-0.97%	145,674	76.9%	63.22%	25.52%	4.45%	3%	0.23%	0.11%	0.33%	3.13%
030	191,475	191	0.10%	145,077	75.77%	69.41%	19.44%	6.1%	0.97%	0.24%	0.03%	0.41%	3.4%
031	192,560	1,276	0.67%	142,251	73.87%	68.26%	19.13%	7.42%	1.12%	0.22%	0.06%	0.46%	3.33%
032	192,448	1,164	0.61%	149,879	77.88%	65.78%	13.13%	10.55%	5.42%	0.2%	0.04%	0.83%	4.05%
033	192,694	1,410	0.74%	146,415	75.98%	30.25%	40.26%	22.93%	2.35%	0.22%	0.05%	0.81%	3.14%
034	190,668	-616	-0.32%	141,840	74.39%	13.36%	66.5%	12.75%	4.26%	0.22%	0.04%	0.56%	2.31%
035	192,839	1,555	0.81%	144,675	75.02%	18.82%	68.87%	7.51%	1.26%	0.18%	0.06%	0.59%	2.7%
036	192,282	998	0.52%	161,385	83.93%	36.18%	48.68%	7.06%	4.01%	0.17%	0.04%	0.51%	3.34%
037	192,671	1,387	0.73%	147,779	76.7%	65.37%	17.41%	8.69%	3.94%	0.17%	0.04%	0.67%	3.73%
038	193,155	1,871	0.98%	148,367	76.81%	21.87%	62.45%	8.44%	3.55%	0.18%	0.04%	0.56%	2.92%
039	191,500	216	0.11%	156,022	81.47%	27.87%	57.97%	5.65%	4.83%	0.15%	0.04%	0.5%	2.98%
040	190,544	-740	-0.39%	147,000	77.15%	46.34%	17.32%	21.62%	11.15%	0.11%	0.04%	0.59%	2.84%
041	191,023	-261	-0.14%	145,278	76.05%	21.39%	59.67%	6.68%	8.42%	0.22%	0.02%	0.6%	3.01%
042	190,940	-344	-0.18%	153,952	80.63%	51.39%	28.73%	8.64%	7.16%	0.12%	0.03%	0.53%	3.4%
043	192,729	1,445	0.76%	145,741	75.62%	26.53%	61.35%	6.89%	1.34%	0.17%	0.08%	0.6%	3.05%
044	190,036	-1,248	-0.65%	145,224	76.42%	15.29%	68.39%	8.6%	4.37%	0.17%	0.04%	0.56%	2.58%
045	190,692	-592	-0.31%	140,706	73.79%	55.47%	16.86%	13.05%	10.89%	0.13%	0.03%	0.5%	3.07%
046	190,312	-972	-0.51%	146,713	77.09%	69.9%	15.64%	6.99%	3.85%	0.22%	0.02%	0.5%	2.89%
047	190,607	-677	-0.35%	146,599	76.91%	67.46%	16.34%	9.57%	2.79%	0.17%	0.04%	0.5%	3.13%
048	190,123	-1,161	-0.61%	136,995	72.06%	52.25%	8.26%	7%	29.05%	0.11%	0.04%	0.47%	2.83%
049	189,355	-1,929	-1.01%	144,123	76.11%	65.64%	7.12%	21.9%	2.22%	0.16%	0.04%	0.29%	2.63%
050	189,320	-1,964	-1.03%	148,799	78.6%	81.54%	5.03%	8.78%	1.24%	0.24%	0.03%	0.24%	2.91%
051	190,167	-1,117	-0.58%	155,571	81.81%	90.24%	0.84%	4.34%	0.61%	0.33%	0.02%	0.27%	3.34%
052	190,799	-485	-0.25%	146,620	76.85%	74.74%	12.08%	8.24%	1.13%	0.22%	0.02%	0.29%	3.27%
053	190,236	-1,048	-0.55%	148,201	77.9%	87.31%	4.49%	3.23%	0.99%	0.26%	0.06%	0.22%	3.44%
054	192,443	1,159	0.61%	143,843	74.75%	69.98%	3.07%	22.64%	1.15%	0.22%	0.02%	0.21%	2.71%
055	190,155	-1,129	-0.59%	141,968	74.66%	20.56%	62.42%	8.71%	4.24%	0.18%	0.04%	0.67%	3.18%
056	191,226	-58	-0.03%	144,448	75.54%	76.17%	6.37%	7.66%	5.51%	0.12%	0.03%	0.63%	3.51%

Total: 10,711,908

Ideal District: 191,284

The preceding report, published by the Georgia General Assembly, does not include statistics for the percentage of the voting age population that is “Black or African American alone or in combination,” also known as the “any part Black voting age population” percentage or “APBVAP%.” As these percentages are relevant for determining which State Senate districts can be considered majority-Black under the conventions used in the expert report, I have provided them below after having exported a listing from the *Maptitude for Redistricting* software.

District	APBVAP%	District	APBVAP%	District	APBVAP%	District	APBVAP%
1	25.08%	15	54.00%	29	26.88%	43	64.33%
2	46.86%	16	22.70%	30	20.92%	44	71.34%
3	21.18%	17	32.01%	31	20.70%	45	18.58%
4	23.37%	18	30.40%	32	14.86%	46	16.90%
5	29.94%	19	25.72%	33	42.96%	47	17.42%
6	23.90%	20	31.28%	34	69.54%	48	9.47%
7	21.44%	21	7.46%	35	71.90%	49	7.96%
8	30.38%	22	56.50%	36	51.34%	50	5.61%
9	29.53%	23	35.48%	37	19.27%	51	1.21%
10	71.46%	24	19.85%	38	65.30%	52	13.04%
11	31.04%	25	33.48%	39	60.70%	53	5.10%
12	57.97%	26	56.99%	40	19.24%	54	3.79%
13	26.97%	27	5.00%	41	62.61%	55	65.97%
14	18.97%	28	19.51%	42	30.78%	56	7.57%

Esselstyn Report: Attachment E

District	Population	Deviation	% Deviation	% single-race American Indian			% single-race Native Hawaiian			% multi-racial (total pop)	% Hispanic or Latino (total pop)	% Black alone or in combination (voting age pop)	
				% single-race White (total pop)	% single-race Black (total pop)	% single-race Alaska Native (total pop)	% single-race Asian (total pop)	% single-race Pacific Islander (total pop)	% single-race Other (total pop)				
1	191,402	118	0.06%	61.01%	24.27%	0.38%	2.69%	0.33%	3.22%	8.11%	8.78%	27.05%	25.08%
2	190,408	-876	-0.46%	37.90%	48.03%	0.36%	3.44%	0.17%	4.31%	5.79%	8.36%	50.27%	46.86%
3	191,212	-72	-0.04%	68.28%	21.28%	0.42%	1.25%	0.11%	2.73%	5.93%	6.82%	23.14%	21.18%
4	191,098	-186	-0.10%	65.93%	22.86%	0.34%	1.88%	0.08%	2.94%	5.97%	6.49%	24.63%	23.37%
5	191,921	637	0.33%	18.45%	27.57%	1.64%	11.06%	0.07%	27.36%	13.84%	45.48%	30.07%	29.94%
6	191,834	550	0.29%	57.94%	21.00%	0.37%	7.36%	0.04%	4.82%	8.47%	9.84%	23.20%	22.95%
7	189,709	-1,575	-0.82%	37.68%	20.56%	0.59%	21.74%	0.07%	9.04%	10.32%	18.57%	22.96%	21.44%
8	192,396	1,112	0.58%	59.12%	30.35%	0.43%	1.24%	0.08%	3.29%	5.49%	7.28%	32.11%	30.38%
9	192,915	1,631	0.85%	34.88%	29.00%	0.84%	14.04%	0.05%	10.88%	10.31%	21.09%	31.62%	29.53%
10	192,601	1,317	0.69%	32.32%	59.43%	0.23%	1.03%	0.02%	2.00%	4.96%	4.20%	62.00%	61.10%
11	189,976	-1,308	-0.68%	57.47%	31.30%	0.57%	0.71%	0.03%	5.24%	4.67%	9.36%	32.62%	31.04%
12	190,819	-465	-0.24%	34.34%	59.08%	0.21%	0.88%	0.03%	2.56%	2.90%	3.89%	60.59%	57.97%
13	194,905	3,621	1.89%	62.81%	27.41%	0.29%	1.19%	0.03%	3.72%	4.55%	7.10%	28.75%	27.24%
14	192,533	1,249	0.65%	56.63%	17.15%	0.39%	9.49%	0.05%	6.50%	9.81%	13.97%	19.43%	18.97%
15	189,446	-1,838	-0.96%	35.64%	52.99%	0.37%	1.35%	0.29%	3.34%	6.01%	7.57%	55.72%	54.00%
16	190,077	-1,207	-0.63%	69.67%	19.46%	0.29%	2.53%	0.03%	2.09%	5.93%	5.29%	20.93%	19.72%
17	193,838	2,554	1.34%	70.00%	21.64%	0.26%	0.94%	0.04%	2.25%	4.88%	4.73%	22.98%	21.77%
18	192,680	1,396	0.73%	59.61%	29.57%	0.30%	2.27%	0.06%	2.50%	5.69%	5.47%	31.37%	30.04%
19	192,316	1,032	0.54%	64.20%	25.16%	0.41%	0.60%	0.07%	4.94%	4.62%	9.72%	26.72%	25.72%
20	194,919	3,635	1.90%	60.69%	32.35%	0.23%	1.01%	0.06%	1.82%	3.84%	3.81%	33.78%	32.45%
21	192,572	1,288	0.67%	73.26%	6.66%	0.50%	7.41%	0.04%	3.93%	8.19%	10.13%	8.04%	7.46%
22	188,930	-2,354	-1.23%	36.87%	50.98%	0.35%	2.31%	0.19%	2.78%	6.52%	6.88%	54.05%	50.84%
23	188,095	-3,189	-1.67%	42.46%	51.48%	0.29%	0.61%	0.10%	1.42%	3.64%	3.04%	53.25%	51.06%
24	194,277	2,993	1.56%	69.67%	17.49%	0.29%	3.58%	0.13%	1.95%	6.88%	5.61%	19.48%	18.38%
25	192,708	1,424	0.74%	27.57%	58.22%	0.34%	3.61%	0.06%	3.89%	6.30%	8.14%	61.38%	58.93%
26	190,535	-749	-0.39%	36.13%	54.05%	0.30%	1.92%	0.04%	2.93%	4.64%	5.41%	56.18%	52.84%
27	190,676	-608	-0.32%	69.94%	4.43%	0.45%	11.44%	0.04%	4.92%	8.78%	11.61%	5.51%	5.00%
28	189,696	-1,588	-0.83%	30.66%	56.20%	0.36%	2.24%	0.04%	4.70%	5.79%	8.95%	58.59%	57.28%
29	189,424	-1,860	-0.97%	61.96%	26.49%	0.34%	3.05%	0.11%	2.15%	5.90%	5.34%	28.39%	26.88%
30	191,939	655	0.34%	74.89%	14.88%	0.37%	0.83%	0.03%	3.07%	5.92%	6.15%	16.66%	15.77%
31	192,755	1,471	0.77%	68.30%	19.22%	0.44%	1.07%	0.07%	4.02%	6.88%	8.60%	21.30%	19.61%
32	192,448	1,164	0.61%	65.58%	13.56%	0.45%	5.53%	0.05%	5.09%	9.73%	12.09%	15.61%	14.86%
33	192,694	1,410	0.74%	30.10%	41.18%	1.03%	2.16%	0.07%	14.18%	11.27%	26.72%	44.04%	42.96%
34	192,023	739	0.39%	22.60%	57.52%	0.67%	4.16%	0.06%	8.70%	6.30%	14.36%	60.15%	58.97%
35	193,194	1,910	1.00%	33.51%	52.94%	0.43%	1.33%	0.07%	4.93%	6.79%	9.56%	55.95%	54.05%

District	Population	Deviation	% Deviation	% single-race White (total pop)	% single-race Black (total pop)	% single-race American Indian		% single-race Native Hawaiian		% multi-racial (total pop)	% Hispanic or Latino (total pop)	% Black alone or in combination (total pop)	% Black alone or in combination (voting age pop)
						Alaska Native (total pop)	% single-race Asian (total pop)	Pacific Islander (total pop)	% single-race Other (total pop)				
36	192,282	998	0.52%	34.70%	51.92%	0.35%	3.62%	0.05%	3.23%	6.14%	7.56%	54.36%	51.34%
37	192,671	1,387	0.73%	64.32%	18.38%	0.38%	3.89%	0.04%	3.92%	9.08%	9.99%	20.86%	19.27%
38	190,605	-679	-0.36%	20.91%	64.48%	0.43%	3.34%	0.05%	4.86%	5.94%	9.12%	67.17%	66.36%
39	190,184	-1,100	-0.58%	26.93%	60.38%	0.30%	4.33%	0.05%	2.86%	5.16%	6.09%	62.78%	60.21%
40	190,544	-740	-0.39%	46.44%	16.84%	1.29%	10.90%	0.06%	14.32%	10.16%	24.81%	18.75%	19.24%
41	191,023	-261	-0.14%	19.86%	60.99%	0.44%	9.23%	0.02%	3.93%	5.54%	7.32%	63.74%	62.61%
42	190,153	-1,131	-0.59%	52.87%	26.90%	0.45%	6.95%	0.03%	4.97%	7.83%	10.21%	28.96%	29.09%
43	191,784	500	0.26%	30.42%	57.48%	0.33%	1.16%	0.11%	4.56%	5.95%	8.28%	60.40%	58.52%
44	188,256	-3,028	-1.58%	14.26%	69.94%	0.50%	4.23%	0.05%	5.60%	5.40%	9.71%	72.72%	71.52%
45	190,692	-592	-0.31%	55.41%	17.52%	0.47%	10.75%	0.04%	6.32%	9.49%	14.66%	19.69%	18.58%
46	190,312	-972	-0.51%	68.86%	16.88%	0.35%	3.81%	0.04%	3.65%	6.40%	7.99%	18.49%	16.90%
47	190,607	-677	-0.35%	66.86%	17.14%	0.41%	2.70%	0.05%	5.81%	7.04%	11.22%	18.64%	17.42%
48	190,123	-1,161	-0.61%	50.35%	8.51%	0.26%	30.63%	0.04%	2.69%	7.52%	7.58%	9.93%	9.47%
49	189,355	-1,929	-1.01%	65.60%	7.32%	0.80%	2.17%	0.05%	13.52%	10.54%	26.24%	8.50%	7.96%
50	189,320	-1,964	-1.03%	80.96%	5.13%	0.49%	1.23%	0.05%	5.21%	6.93%	11.08%	6.19%	5.61%
51	190,167	-1,117	-0.58%	89.94%	0.88%	0.51%	0.60%	0.03%	2.50%	5.55%	5.43%	1.49%	1.21%
52	190,799	-485	-0.25%	73.61%	12.56%	0.54%	1.09%	0.03%	5.02%	7.14%	10.11%	14.20%	13.04%
53	190,236	-1,048	-0.55%	86.66%	4.52%	0.38%	1.01%	0.07%	1.96%	5.40%	3.98%	5.74%	5.10%
54	192,443	1,159	0.61%	71.00%	3.13%	1.54%	1.16%	0.03%	13.21%	9.94%	26.66%	4.22%	3.79%
55	190,155	-1,129	-0.59%	19.41%	63.85%	0.45%	4.23%	0.06%	4.93%	7.08%	10.14%	67.34%	65.97%
56	191,226	-58	-0.03%	75.62%	6.50%	0.26%	5.69%	0.04%	2.88%	9.02%	8.63%	8.08%	7.57%

Esselstyn Report: Attachment F

2021 Committee Guidelines

I. HEARINGS AND MEETINGS

A. PUBLIC HEARINGS

1. A series of public hearings were held to actively seek public participation and input concerning the General Assembly's redrawing of congressional and legislative districts.
2. Video recordings of all hearings are and shall remain available on the legislative website, www.legis.ga.gov

B. COMMITTEE MEETINGS

1. All formal meetings of the full committee will be open to the public.
2. When the General Assembly is not in session, notices of all such meetings will be posted at the Offices of the Clerk of the House or Secretary of the Senate and other appropriate places at least 24 hours in advance of any meeting. Individual notices may be transmitted by email to any citizen or organization requesting the same without charge. Persons or organizations needing this information should contact the Senate Press Office or House Communications Office or the Secretary of the Senate or Clerk of the House to be placed on the notification list.
3. Minutes of all such meetings shall be kept and maintained in accordance with the rules of the House and Senate. Copies of the minutes should be made available in a timely manner at a reasonable cost in accordance with these same rules.

II. PUBLIC ACCESS TO REDISTRICTING DATA AND MATERIALS

- A. Census information databases on any medium created at public expense and held by the Committee or by the Legislative and Congressional Reapportionment Office for use in the redistricting process are included as public records and copies can be made available to the public in accordance with the rules of the General Assembly and subject to reasonable charges for search, retrieval, reproduction and other reasonable, related costs.
- B. Copies of the public records described above may be obtained at the cost of reproduction by members of the public on electronic media if the material exists on an appropriate electronic medium. Cost of reproduction may include not only the medium on which the copies made, but also the labor cost for the search, retrieval, and reproduction of the records and other reasonable, related costs.

- C. These guidelines regarding public access to redistricting data and materials do not apply to plans or other related materials prepared by or on behalf of an individual Member of the General Assembly using the Legislative and Congressional Reapportionment Office, where those plans and materials have not been made public through presentation to the Committee.

III. REDISTRICTING PLANS

A. GENERAL PRINCIPLES FOR DRAFTING PLANS

1. Each congressional district should be drawn with a total population of plus or minus one person from the ideal district size.
2. Each legislative district of the General Assembly should be drawn to achieve a total population that is substantially equal as practicable, considering the principles listed below.
3. All plans adopted by the Committee will comply with Section 2 of the Voting Rights Act of 1965, as amended.
4. All plans adopted by the Committee will comply with the United States and Georgia Constitutions.
5. Districts shall be composed of contiguous geography. Districts that connect on a single point are not contiguous.
6. No multi-member districts shall be drawn on any legislative redistricting plan.
7. The Committee should consider:
 - a. The boundaries of counties and precincts;
 - b. Compactness; and
 - c. Communities of interest.
8. Efforts should be made to avoid the unnecessary pairing of incumbents.
9. The identifying of these criteria is not intended to limit the consideration of any other principles or factors that the Committee deems appropriate.

B. PLANS PRODUCED THROUGH THE LEGISLATIVE AND CONGRESSIONAL REAPPORTIONMENT OFFICE

1. Staff of the Legislative and Congressional Reapportionment Office will be available to all members of the General Assembly requesting assistance in accordance with the policy of that office.
2. Census data and redistricting work maps will be available to all members of the General Assembly upon request, provided that (a) the map was created by the requesting member, (b) the map is publicly available, or (c) the Legislative and Congressional Reapportionment Office has been granted permission by the author of the map to share a copy with the requesting member.
3. As noted above, redistricting plans and other records related to the provision of staff services to individual members of the General Assembly will not be subject to public disclosure. Only the author of a particular map may waive the confidentiality of his or her own work product. This confidentiality provision will not apply with respect to records related to the provision of staff services to any committee or subcommittee as a whole or to any records which are or have been previously disclosed by or pursuant to the direction of an individual member of the General Assembly.

C. PLANS PRODUCED OUTSIDE OF THE LEGISLATIVE AND CONGRESSIONAL REAPPORTIONMENT OFFICE

1. All plans submitted to the Committee will be made part of the public record and made available in the same manner as other committee public records.
2. All plans prepared outside the Legislative and Congressional Reapportionment Office must be submitted to that office prior to presentation to the Committee by a Member of the General Assembly for technical verification and presentation and bill preparation. All pieces of census geography must be accounted for in some district.
3. The electronic submission of material for technical verification must be made in accordance with the following requirements or in a manner specifically approved and accepted by the Legislative and Congressional Reapportionment Office.
 - a. The submission shall be in electronic format with accompanying documentation that shows the submitting sponsor of the proposed plan and contact person for the proposed plan, including email address and telephone number.

- b. An electronic map image that clearly depicts defined boundaries, utilizing the 2020 United States Census geographic boundaries, and a block equivalency file containing two columns. The first column shall list the 15-digit census block identification numbers, and the second column shall list the three-digit district identification number. Both block and district numbers shall be zero-filled text files. Such files shall be submitted in .xis, .xlsx, .dbf, .txt, or .csv file formats. The following is a sample:

```
BlockID, DISTRICT
"13001950100101","008"
"13001950100102","008"
"13001950100103","008"
"13001950100104","008"
"13001950100105","008"
"13001950100106","008"
```

4. If submission of the plan cannot be done electronically, the following requirements must be followed:
 - a. All drafts, amendments, or revisions should be on clearly-depicted maps that follow the 2020 Census geographic boundaries and should be accompanied by a statistical sheet listing the Census geography including the total population for each district.
 - b. All plans submitted should either be a complete statewide plan or fit back into the plan that they modified, so that the proposal can be evaluated in the context of a statewide plan. All pieces of Census geography must be accounted for in some district.

D. GENERAL GUIDELINES FOR PRESENTATION OF ALL PLANS

1. A redistricting plan may be presented for consideration by the Committee only through the sponsorship of one or more Member(s) of the General Assembly. All such drafts of and amendments or revisions to plans presented at any committee meeting must be on clearly-depicted maps which follow the 2020 Census geographic boundaries and accompanied by a statistical sheet listing the Census geography, including the total population and minority populations for each proposed district.
2. No plan may be presented to the Committee unless that plan makes accommodations for and fits back into a specific, identified statewide map for the particular legislative body involved.

3. All plans presented at committee meetings will be made available for inspection by the public either electronically or by hard copy available at the Office of Legislative and Congressional Reapportionment.
- E. These guidelines may be reconsidered or amended by the Committee.

Esselstyn Report: Attachment G

Explanation of compactness measures

The following explanations of the five measures of compactness considered in the report are taken from the documentation that accompanies *Maptitude for Redistricting*, the software that was used to generate the compactness scores.

The **Reock** test is an area-based measure that compares each district to a circle, which is considered to be the most compact shape possible. For each district, the Reock test computes the ratio of the area of the district to the area of the minimum enclosing circle for the district. The measure is always between 0 and 1, with 1 being the most compact.

The **Schwartzberg** test is a perimeter-based measure that compares a simplified version of each district to a circle, which is considered to be the most compact shape possible. [...] For each district, the Schwartzberg test computes the ratio of the perimeter of the simplified version of the district to the perimeter of a circle with the same area as the original district. [...] This measure is usually greater than or equal to 1, with 1 being the most compact.

The **Polsby-Popper** test computes the ratio of the district area to the area of a circle with the same perimeter: $4\pi\text{Area}/(\text{Perimeter}^2)$. The measure is always between 0 and 1, with 1 being the most compact.

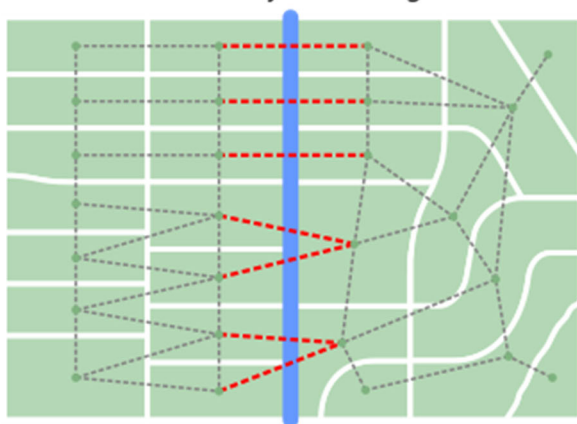
The **Area/Convex Hull** test computes the ratio the district area to the area of the convex hull of the district (minimum convex polygon which completely contains the district). The measure is always between 0 and 1, with 1 being the most compact.

The **Cut Edges** test counts the number of edges removed (“cut”) from the adjacency (dual) graph of the base layer to define the districting plan. The adjacency

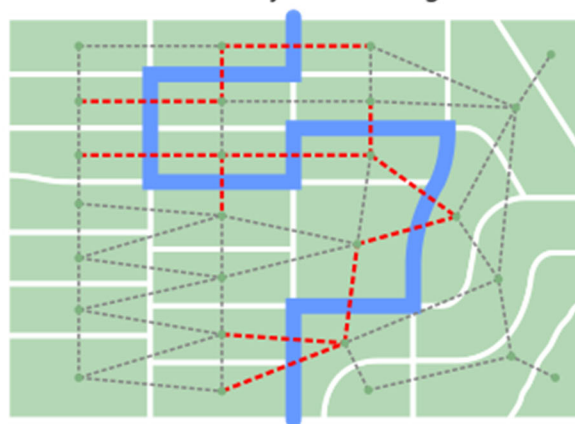
graph is defined by creating a node for each base layer area. An edge is added between two nodes if the two corresponding base layer areas are adjacent: i.e., share a common linear boundary. If such a boundary forms part of the district boundary then its corresponding edge is cut by the plan. The measure is a single number for the plan. A smaller number implies a more compact plan.

Explanatory graphic for the Cut Edges test (from same source):

This district boundary cuts 7 edges:



This district boundary cuts 12 edges:



Esselstyn Report: Attachment H

More detailed tables for comparative characteristics of State Senate plans

Population Deviation:

The deviation statistics for each individual district in the respective plans can be found in **Attachment D** and **Attachment E**. Below are the summary statistics generated by the *Maptitude for Redistricting* software.

Enacted plan:

Population Range:	189,320 to 193,163
Ratio Range:	0.02
Absolute Range:	
Absolute Overall Range:	
Relative Range:	-1,964 to 1,879
Relative Overall Range:	3,843
Absolute Mean Deviation:	-1.03% to 0.98%
Relative Mean Deviation:	2.01%
Standard Deviation:	1,012.61
	0.53%

Illustrative plan:

Population Range:	
Ratio Range:	
Absolute Range:	188,095 to 194,919
Absolute Overall Range:	0.04
Relative Range:	-3,189 to 3,635
Relative Overall Range:	6,824
Absolute Mean Deviation:	-1.67% to 1.90%
Relative Mean Deviation:	3.57%
Standard Deviation:	1,283.86
	0.67%
	1,529.53

Compactness:

Below is the compactness report for the Senate enacted plan.

User:

Plan Name: GA Sen 000

Plan Type: Reference

Measures of Compactness Report

Thursday, January 13, 2022

1:11 PM

Number of cut edges: 11,005

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.17	1.31	0.13	0.50
Max	0.68	2.67	0.50	0.92
Mean	0.42	1.75	0.29	0.76
Std. Dev.	0.11	0.25	0.08	0.08

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
1	0.49	1.60	0.31	0.79
2	0.47	1.80	0.22	0.73
3	0.39	1.70	0.21	0.70
4	0.47	1.64	0.27	0.75
5	0.17	2.10	0.21	0.65
6	0.41	1.94	0.24	0.70
7	0.35	1.66	0.34	0.79
8	0.45	1.77	0.23	0.73
9	0.24	2.06	0.21	0.69
10	0.28	1.98	0.23	0.69
11	0.36	1.57	0.33	0.79

Measures of Compactness Report

Number of cut edges: 11,005

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.17	1.31	0.13	0.50
Max	0.68	2.67	0.50	0.92
Mean	0.42	1.75	0.29	0.76
Std. Dev.	0.11	0.25	0.08	0.08

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
12	0.62	1.46	0.39	0.86
13	0.45	1.72	0.26	0.73
14	0.27	1.90	0.24	0.66
15	0.57	1.52	0.32	0.83
16	0.37	1.55	0.31	0.77
17	0.35	2.22	0.17	0.63
18	0.47	1.85	0.21	0.76
19	0.53	1.47	0.37	0.84
20	0.41	1.50	0.36	0.80
21	0.42	1.56	0.33	0.83
22	0.41	1.68	0.29	0.75
23	0.37	1.93	0.16	0.70
24	0.37	1.89	0.21	0.68
25	0.39	1.81	0.24	0.73

Measures of Compactness Report

Number of cut edges: 11,005

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.17	1.31	0.13	0.50
Max	0.68	2.67	0.50	0.92
Mean	0.42	1.75	0.29	0.76
Std. Dev.	0.11	0.25	0.08	0.08

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
26	0.47	1.90	0.20	0.68
27	0.50	1.37	0.46	0.88
28	0.45	1.79	0.25	0.69
29	0.58	1.37	0.42	0.88
30	0.60	1.51	0.41	0.87
31	0.37	1.58	0.38	0.84
32	0.29	1.98	0.21	0.64
33	0.40	1.96	0.22	0.72
34	0.45	1.60	0.34	0.74
35	0.47	1.78	0.26	0.83
36	0.32	1.76	0.30	0.76
37	0.49	1.51	0.37	0.80
38	0.36	2.01	0.21	0.76
39	0.17	2.67	0.13	0.50

Measures of Compactness Report

Number of cut edges: 11,005

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.17	1.31	0.13	0.50
Max	0.68	2.67	0.50	0.92
Mean	0.42	1.75	0.29	0.76
Std. Dev.	0.11	0.25	0.08	0.08

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
40	0.51	1.65	0.34	0.78
41	0.51	1.78	0.30	0.74
42	0.48	1.73	0.32	0.82
43	0.64	1.56	0.35	0.85
44	0.18	2.12	0.19	0.68
45	0.35	1.72	0.30	0.73
46	0.37	1.99	0.21	0.72
47	0.36	2.06	0.19	0.66
48	0.35	1.61	0.34	0.79
49	0.46	1.55	0.34	0.79
50	0.45	1.79	0.23	0.72
51	0.68	1.31	0.50	0.92
52	0.47	1.80	0.25	0.72
53	0.49	1.48	0.40	0.90

Measures of Compactness Report

Number of cut edges: 11,005

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.17	1.31	0.13	0.50
Max	0.68	2.67	0.50	0.92
Mean	0.42	1.75	0.29	0.76
Std. Dev.	0.11	0.25	0.08	0.08

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
54	0.60	1.38	0.44	0.83
55	0.34	1.84	0.27	0.81
56	0.38	1.70	0.30	0.80

Measures of Compactness Report

Measures of Compactness Summary

Reock	The measure is always between 0 and 1, with 1 being the most compact.
Schwartzberg	The measure is usually greater than or equal to 1, with 1 being the most compact.
Polsby-Popper	The measure is always between 0 and 1, with 1 being the most compact.
Area / Convex Hull	The measure is always between 0 and 1, with 1 being the most compact.
Cut Edges	A smaller number implies a more compact plan. The measure should only be used to compare plans defined on the same base layer.

Below is the compactness report for the Senate illustrative plan.

User:

Plan Name: GA Senate Illustrative

Plan Type: Reference

Measures of Compactness Report

Saturday, December 3, 2022

2:09 PM

Number of cut edges: 11,003

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.17	1.31	0.13	0.52
Max	0.68	2.67	0.50	0.92
Mean	0.41	1.76	0.28	0.75
Std. Dev.	0.11	0.26	0.09	0.08

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
1	0.49	1.60	0.31	0.79
2	0.47	1.80	0.22	0.73
3	0.39	1.70	0.21	0.70
4	0.47	1.64	0.27	0.75
5	0.17	2.10	0.21	0.65
6	0.42	1.95	0.23	0.71
7	0.35	1.66	0.34	0.79
8	0.45	1.77	0.23	0.73
9	0.24	2.06	0.21	0.69
10	0.25	2.08	0.19	0.68
11	0.36	1.57	0.33	0.79

Measures of Compactness Report

GA Senate Illustrative

Number of cut edges: 11,003

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.17	1.31	0.13	0.52
Max	0.68	2.67	0.50	0.92
Mean	0.41	1.76	0.28	0.75
Std. Dev.	0.11	0.26	0.09	0.08

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
12	0.62	1.46	0.39	0.86
13	0.48	1.70	0.25	0.76
14	0.27	1.90	0.24	0.66
15	0.57	1.52	0.32	0.83
16	0.39	1.76	0.27	0.71
17	0.35	2.21	0.16	0.60
18	0.38	1.91	0.20	0.66
19	0.53	1.47	0.37	0.84
20	0.28	1.83	0.24	0.71
21	0.42	1.56	0.33	0.83
22	0.33	1.70	0.32	0.74
23	0.34	1.93	0.17	0.69
24	0.27	1.87	0.23	0.72
25	0.57	1.55	0.34	0.80

Measures of Compactness Report

GA Senate Illustrative

Number of cut edges: 11,003

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.17	1.31	0.13	0.52
Max	0.68	2.67	0.50	0.92
Mean	0.41	1.76	0.28	0.75
Std. Dev.	0.11	0.26	0.09	0.08

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
26	0.44	1.56	0.25	0.77
27	0.50	1.37	0.46	0.88
28	0.38	2.17	0.19	0.66
29	0.58	1.37	0.42	0.88
30	0.41	1.55	0.38	0.84
31	0.40	1.43	0.46	0.86
32	0.29	1.98	0.21	0.64
33	0.40	1.96	0.22	0.72
34	0.31	1.98	0.21	0.66
35	0.59	1.48	0.42	0.86
36	0.32	1.76	0.30	0.76
37	0.49	1.51	0.37	0.80
38	0.37	2.05	0.20	0.75
39	0.18	2.67	0.13	0.52

Measures of Compactness Report

GA Senate Illustrative

Number of cut edges: 11,003

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.17	1.31	0.13	0.52
Max	0.68	2.67	0.50	0.92
Mean	0.41	1.76	0.28	0.75
Std. Dev.	0.11	0.26	0.09	0.08

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
40	0.51	1.65	0.34	0.78
41	0.51	1.78	0.30	0.74
42	0.47	1.96	0.25	0.78
43	0.49	1.82	0.25	0.79
44	0.33	1.95	0.24	0.72
45	0.35	1.72	0.30	0.73
46	0.37	1.99	0.21	0.72
47	0.36	2.06	0.19	0.66
48	0.35	1.61	0.34	0.79
49	0.46	1.55	0.34	0.79
50	0.45	1.79	0.23	0.72
51	0.68	1.31	0.50	0.92
52	0.47	1.80	0.25	0.72
53	0.49	1.48	0.40	0.90

Measures of Compactness Report

GA Senate Illustrative

Number of cut edges: 11,003

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.17	1.31	0.13	0.52
Max	0.68	2.67	0.50	0.92
Mean	0.41	1.76	0.28	0.75
Std. Dev.	0.11	0.26	0.09	0.08

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
54	0.60	1.38	0.44	0.83
55	0.34	1.84	0.27	0.81
56	0.38	1.70	0.30	0.80

Measures of Compactness Report

GA Senate Illustrative

Measures of Compactness Summary

Reock	The measure is always between 0 and 1, with 1 being the most compact.
Schwartzberg	The measure is usually greater than or equal to 1, with 1 being the most compact.
Polsby-Popper	The measure is always between 0 and 1, with 1 being the most compact.
Area / Convex Hull	The measure is always between 0 and 1, with 1 being the most compact.
Cut Edges	A smaller number implies a more compact plan. The measure should only be used to compare plans defined on the same base layer.

Divisions of counties and precincts (VTDs):

Below is the political subdivisions splits report for the Senate enacted plan.

User:

Plan Name: **GA Senate Enacted**Plan Type: **Reference**

Political Subdivision Splits Between Districts

Saturday, December 3, 2022

3:21 PM

Number of subdivisions not split:

County	130
Voting District	2,651

Number of subdivisions split into more than one district:

County	29
Voting District	47

Number of splits involving no population:

County	0
Voting District	8

Split Counts

County

Cases where an area is split among 2 Districts: 18
 Cases where an area is split among 3 Districts: 7
 Cases where an area is split among 6 Districts: 1
 Cases where an area is split among 7 Districts: 1
 Cases where an area is split among 9 Districts: 1
 Cases where an area is split among 10 Districts: 1

Voting District

Cases where an area is split among 2 Districts: 46
 Cases where an area is split among 3 Districts: 1

County	Voting District	District	Population
<i>Split Counties:</i>			
Barrow GA		45	39,217
Barrow GA		46	17,116
Barrow GA		47	27,172
Bartow GA		37	11,130
Bartow GA		52	97,771
Bibb GA		18	53,182
Bibb GA		25	15,513
Bibb GA		26	88,651
Chatham GA		1	81,408
Chatham GA		2	190,408
Chatham GA		4	23,475
Cherokee GA		21	109,034
Cherokee GA		32	90,981
Cherokee GA		56	66,605
Clarke GA		46	52,016
Clarke GA		47	76,655
Clayton GA		34	158,608
Clayton GA		44	138,987
Cobb GA		6	92,249

Political Subdivision Splits Between Districts

GA Senate Enacted

County	Voting District	District	Population
Cobb GA		32	101,467
Cobb GA		33	192,694
Cobb GA		37	181,541
Cobb GA		38	108,305
Cobb GA		56	89,893
Coffee GA		13	19,881
Coffee GA		19	23,211
Columbia GA		23	59,796
Columbia GA		24	96,214
DeKalb GA		10	75,906
DeKalb GA		40	164,997
DeKalb GA		41	183,560
DeKalb GA		42	190,940
DeKalb GA		43	32,212
DeKalb GA		44	51,049
DeKalb GA		55	65,718
Douglas GA		28	25,889
Douglas GA		30	23,454
Douglas GA		35	94,894
Fayette GA		16	87,134
Fayette GA		34	32,060
Floyd GA		52	85,090
Floyd GA		53	13,494
Forsyth GA		27	190,676
Forsyth GA		48	60,607
Fulton GA		6	99,152
Fulton GA		14	192,533
Fulton GA		21	83,538
Fulton GA		28	6,963
Fulton GA		35	97,945
Fulton GA		36	192,282
Fulton GA		38	84,850
Fulton GA		39	191,500
Fulton GA		48	83,219
Fulton GA		56	34,728
Gordon GA		52	7,938
Gordon GA		54	49,606
Gwinnett GA		5	191,921
Gwinnett GA		7	189,709
Gwinnett GA		9	192,915
Gwinnett GA		40	25,547
Gwinnett GA		41	7,463
Gwinnett GA		45	151,475
Gwinnett GA		46	27,298
Gwinnett GA		48	46,297
Gwinnett GA		55	124,437
Hall GA		49	189,355

Political Subdivision Splits Between Districts

GA Senate Enacted

County	Voting District	District	Population
Hall GA		50	13,781
Henry GA		10	116,992
Henry GA		17	82,287
Henry GA		25	41,433
Houston GA		18	42,875
Houston GA		20	74,275
Houston GA		26	46,483
Jackson GA		47	56,660
Jackson GA		50	19,247
Muscogee GA		15	142,205
Muscogee GA		29	64,717
Newton GA		17	45,536
Newton GA		43	66,947
Paulding GA		30	18,954
Paulding GA		31	149,707
Richmond GA		22	193,163
Richmond GA		23	13,444
Walton GA		17	44,590
Walton GA		46	52,083
Ware GA		3	10,431
Ware GA		8	25,820
White GA		50	12,642
White GA		51	15,361
<i>Split VTDs:</i>			
Bibb GA	HOWARD 1	18	5,912
Bibb GA	HOWARD 1	25	31
Bibb GA	HOWARD 2	18	5,445
Bibb GA	HOWARD 2	25	0
Bibb GA	HOWARD 3	18	12,640
Bibb GA	HOWARD 3	25	14
Bibb GA	HOWARD 5	18	267
Bibb GA	HOWARD 5	25	2,103
Chatham GA	BLOOMINGDALE COMMUNITY CENTER	1	4,099
Chatham GA	BLOOMINGDALE COMMUNITY CENTER	4	755
Chatham GA	POOLER CHRURCH	1	5,330
Chatham GA	POOLER CHRURCH	4	4,407
Clarke GA	3B	46	5,752
Clarke GA	3B	47	4,194
Clarke GA	6C	46	2,971
Clarke GA	6C	47	2,036
Cobb GA	Dobbins 01	6	6,586
Cobb GA	Dobbins 01	33	6,310
Cobb GA	Dobbins 01	38	505
Cobb GA	Elizabeth 01	32	3,771
Cobb GA	Elizabeth 01	37	2,099

Political Subdivision Splits Between Districts

GA Senate Enacted

County	Voting District	District	Population
Cobb GA	Kennesaw 1A	32	1,471
Cobb GA	Kennesaw 1A	37	2,972
Cobb GA	Marietta 3A	32	3,439
Cobb GA	Marietta 3A	33	5,460
Cobb GA	Marietta 5A	6	0
Cobb GA	Marietta 5A	33	4,334
Cobb GA	Marietta 6A	6	3,022
Cobb GA	Marietta 6A	32	1,532
Cobb GA	Marietta 7A	6	993
Cobb GA	Marietta 7A	33	5,918
Cobb GA	Nickajack 01	6	2,398
Cobb GA	Nickajack 01	38	3,728
Cobb GA	Norton Park 01	33	7,049
Cobb GA	Norton Park 01	38	752
Cobb GA	Oregon 03	33	12,988
Cobb GA	Oregon 03	37	0
Cobb GA	Powers Ferry 01	6	4,963
Cobb GA	Powers Ferry 01	33	464
Cobb GA	Sewell Mill 03	6	5,051
Cobb GA	Sewell Mill 03	33	1,886
Cobb GA	Vinings 02	6	4,624
Cobb GA	Vinings 02	38	5,019
Coffee GA	DOUGLAS	13	12,595
Coffee GA	DOUGLAS	19	15,976
Floyd GA	GARDEN LAKES	52	1,024
Floyd GA	GARDEN LAKES	53	7,817
Forsyth GA	BIG CREEK	27	15,216
Forsyth GA	BIG CREEK	48	10,302
Forsyth GA	POLO	27	24,894
Forsyth GA	POLO	48	964
Fulton GA	RW09	21	2,971
Fulton GA	RW09	56	4,750
Fulton GA	RW12	21	4,274
Fulton GA	RW12	56	3,958
Fulton GA	SC08B	35	223
Fulton GA	SC08B	39	5,124
Fulton GA	SC18C	35	1,852
Fulton GA	SC18C	39	521
Gordon GA	LILY POND	52	1,641
Gordon GA	LILY POND	54	996
Gwinnett GA	DACULA	45	2,699
Gwinnett GA	DACULA	46	4,613
Gwinnett GA	LAWRENCEVILLE E	5	2,075
Gwinnett GA	LAWRENCEVILLE E	9	1,386
Gwinnett GA	PINCKNEYVILLE W	5	5,605
Gwinnett GA	PINCKNEYVILLE W	7	2,701
Hall GA	GLADE	49	5,135

Political Subdivision Splits Between Districts

GA Senate Enacted

County	Voting District	District	Population
Hall GA	GLADE	50	1,735
Hall GA	TADMORE	49	4,129
Hall GA	TADMORE	50	10,220
Houston GA	FMMS	18	5,178
Houston GA	FMMS	20	8,151
Houston GA	MCMS	18	3,625
Houston GA	MCMS	20	9,869
Houston GA	RECR	20	0
Houston GA	RECR	26	17,798
Jackson GA	Central Jackson	47	24,383
Jackson GA	Central Jackson	50	0
Jackson GA	North Jackson	47	0
Jackson GA	North Jackson	50	19,247
Muscogee GA	COLUMBUS TECH	15	6,919
Muscogee GA	COLUMBUS TECH	29	2,228
Paulding GA	CARL SCOGGINS MID SC	30	7,586
Paulding GA	CARL SCOGGINS MID SC	31	2,162
Paulding GA	TAYLOR FARM PARK	30	475
Paulding GA	TAYLOR FARM PARK	31	12,958
Ware GA	100	3	2,672
Ware GA	100	8	3,692
Ware GA	200A	3	0
Ware GA	200A	8	4,133
Ware GA	304	3	0
Ware GA	304	8	2,107
Ware GA	400	3	4,626
Ware GA	400	8	406

Below is the political subdivisions splits report for the Senate illustrative plan.

User:

Plan Name: **GA Senate Illustrative**Plan Type: **Reference**

Political Subdivision Splits Between Districts

Saturday, December 3, 2022

3:10 PM

Number of subdivisions not split:

County	125
Voting District	2,649

Number of subdivisions split into more than one district:

County	34
Voting District	49

Number of splits involving no population:

County	0
Voting District	7

Split Counts

County

Cases where an area is split among 2 Districts: 22

Cases where an area is split among 3 Districts: 7

Cases where an area is split among 4 Districts: 1

Cases where an area is split among 6 Districts: 1

Cases where an area is split among 7 Districts: 1

Cases where an area is split among 9 Districts: 1

Cases where an area is split among 10 Districts: 1

Voting District

Cases where an area is split among 2 Districts: 48

Cases where an area is split among 3 Districts: 1

County	Voting District	District	Population
<i>Split Counties:</i>			
Baldwin GA		17	16,966
Baldwin GA		23	26,833
Barrow GA		45	39,217
Barrow GA		46	17,116
Barrow GA		47	27,172
Bartow GA		37	11,130
Bartow GA		52	97,771
Chatham GA		1	81,408
Chatham GA		2	190,408
Chatham GA		4	23,475
Cherokee GA		21	109,034
Cherokee GA		32	90,981
Cherokee GA		56	66,605
Clarke GA		46	52,016
Clarke GA		47	76,655
Clayton GA		25	37,295
Clayton GA		28	19,071
Clayton GA		34	135,995

Political Subdivision Splits Between Districts

GA Senate Illustrative

County	Voting District	District	Population
Clayton GA		44	105,234
Cobb GA		6	97,590
Cobb GA		32	101,467
Cobb GA		33	192,694
Cobb GA		37	181,541
Cobb GA		38	102,964
Cobb GA		56	89,893
Coffee GA		13	19,881
Coffee GA		19	23,211
Columbia GA		22	30,174
Columbia GA		24	125,836
Coweta GA		16	39,894
Coweta GA		28	74,804
Coweta GA		30	31,460
DeKalb GA		10	82,066
DeKalb GA		40	164,997
DeKalb GA		41	183,560
DeKalb GA		42	190,153
DeKalb GA		43	17,660
DeKalb GA		44	60,228
DeKalb GA		55	65,718
Fayette GA		16	45,488
Fayette GA		28	17,678
Fayette GA		34	56,028
Floyd GA		52	85,090
Floyd GA		53	13,494
Forsyth GA		27	190,676
Forsyth GA		48	60,607
Fulton GA		6	94,244
Fulton GA		14	192,533
Fulton GA		21	83,538
Fulton GA		28	78,143
Fulton GA		35	30,198
Fulton GA		36	192,282
Fulton GA		38	87,641
Fulton GA		39	190,184
Fulton GA		48	83,219
Fulton GA		56	34,728
Gordon GA		52	7,938
Gordon GA		54	49,606
Greene GA		17	14,168
Greene GA		23	4,747
Gwinnett GA		5	191,921
Gwinnett GA		7	189,709
Gwinnett GA		9	192,915
Gwinnett GA		40	25,547
Gwinnett GA		41	7,463

Political Subdivision Splits Between Districts

GA Senate Illustrative

County	Voting District	District	Population
Gwinnett GA		45	151,475
Gwinnett GA		46	27,298
Gwinnett GA		48	46,297
Gwinnett GA		55	124,437
Hall GA		49	189,355
Hall GA		50	13,781
Henry GA		10	62,505
Henry GA		25	155,413
Henry GA		44	22,794
Houston GA		18	96,912
Houston GA		20	33,532
Houston GA		26	33,189
Jackson GA		47	56,660
Jackson GA		50	19,247
McDuffie GA		23	12,164
McDuffie GA		24	9,468
Muscogee GA		15	142,205
Muscogee GA		29	64,717
Newton GA		17	9,333
Newton GA		43	103,150
Paulding GA		31	149,902
Paulding GA		35	18,759
Richmond GA		22	158,756
Richmond GA		23	47,851
Rockdale GA		10	22,596
Rockdale GA		43	70,974
Walton GA		17	44,590
Walton GA		46	52,083
Ware GA		3	10,431
Ware GA		8	25,820
White GA		50	12,642
White GA		51	15,361
Wilcox GA		13	5,579
Wilcox GA		20	3,187
Wilkes GA		23	3,747
Wilkes GA		24	5,818
<i>Split VTDs:</i>			
Baldwin GA	NORTH MILLEDGEVILLE	17	2,373
Baldwin GA	NORTH MILLEDGEVILLE	23	991
Baldwin GA	SOUTH MILLEDGEVILLE	17	1,215
Baldwin GA	SOUTH MILLEDGEVILLE	23	2,491
Chatham GA	BLOOMINGDALE COMMUNITY CENTER	1	4,099
Chatham GA	BLOOMINGDALE COMMUNITY CENTER	4	755
Chatham GA	POOLER CHRURCH	1	5,330
Chatham GA	POOLER CHRURCH	4	4,407

Political Subdivision Splits Between Districts

GA Senate Illustrative

County	Voting District	District	Population
Clarke GA	3B	46	5,752
Clarke GA	3B	47	4,194
Clarke GA	6C	46	2,971
Clarke GA	6C	47	2,036
Cobb GA	Dobbins 01	6	6,586
Cobb GA	Dobbins 01	33	6,310
Cobb GA	Dobbins 01	38	505
Cobb GA	Elizabeth 01	32	3,771
Cobb GA	Elizabeth 01	37	2,099
Cobb GA	Kennesaw 1A	32	1,471
Cobb GA	Kennesaw 1A	37	2,972
Cobb GA	Marietta 3A	32	3,439
Cobb GA	Marietta 3A	33	5,460
Cobb GA	Marietta 5A	6	0
Cobb GA	Marietta 5A	33	4,334
Cobb GA	Marietta 6A	6	3,022
Cobb GA	Marietta 6A	32	1,532
Cobb GA	Marietta 7A	6	993
Cobb GA	Marietta 7A	33	5,918
Cobb GA	Nickajack 01	6	2,398
Cobb GA	Nickajack 01	38	3,728
Cobb GA	Norton Park 01	33	7,049
Cobb GA	Norton Park 01	38	752
Cobb GA	Oregon 03	33	12,988
Cobb GA	Oregon 03	37	0
Cobb GA	Powers Ferry 01	6	4,963
Cobb GA	Powers Ferry 01	33	464
Cobb GA	Sewell Mill 03	6	5,051
Cobb GA	Sewell Mill 03	33	1,886
Cobb GA	Smyrna 1A	6	5,341
Cobb GA	Smyrna 1A	38	1,292
Cobb GA	Vinings 02	6	4,624
Cobb GA	Vinings 02	38	5,019
Coffee GA	DOUGLAS	13	12,595
Coffee GA	DOUGLAS	19	15,976
DeKalb GA	Flakes Mill Fire Station	10	2,263
DeKalb GA	Flakes Mill Fire Station	44	396
DeKalb GA	Harris - Narvie J. Harris Elem	10	3,339
DeKalb GA	Harris - Narvie J. Harris Elem	44	1,682
Floyd GA	GARDEN LAKES	52	1,024
Floyd GA	GARDEN LAKES	53	7,817
Forsyth GA	BIG CREEK	27	15,216
Forsyth GA	BIG CREEK	48	10,302
Forsyth GA	POLO	27	24,894
Forsyth GA	POLO	48	964

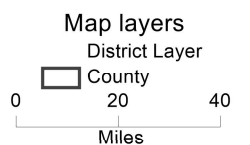
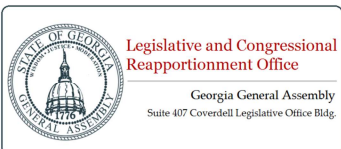
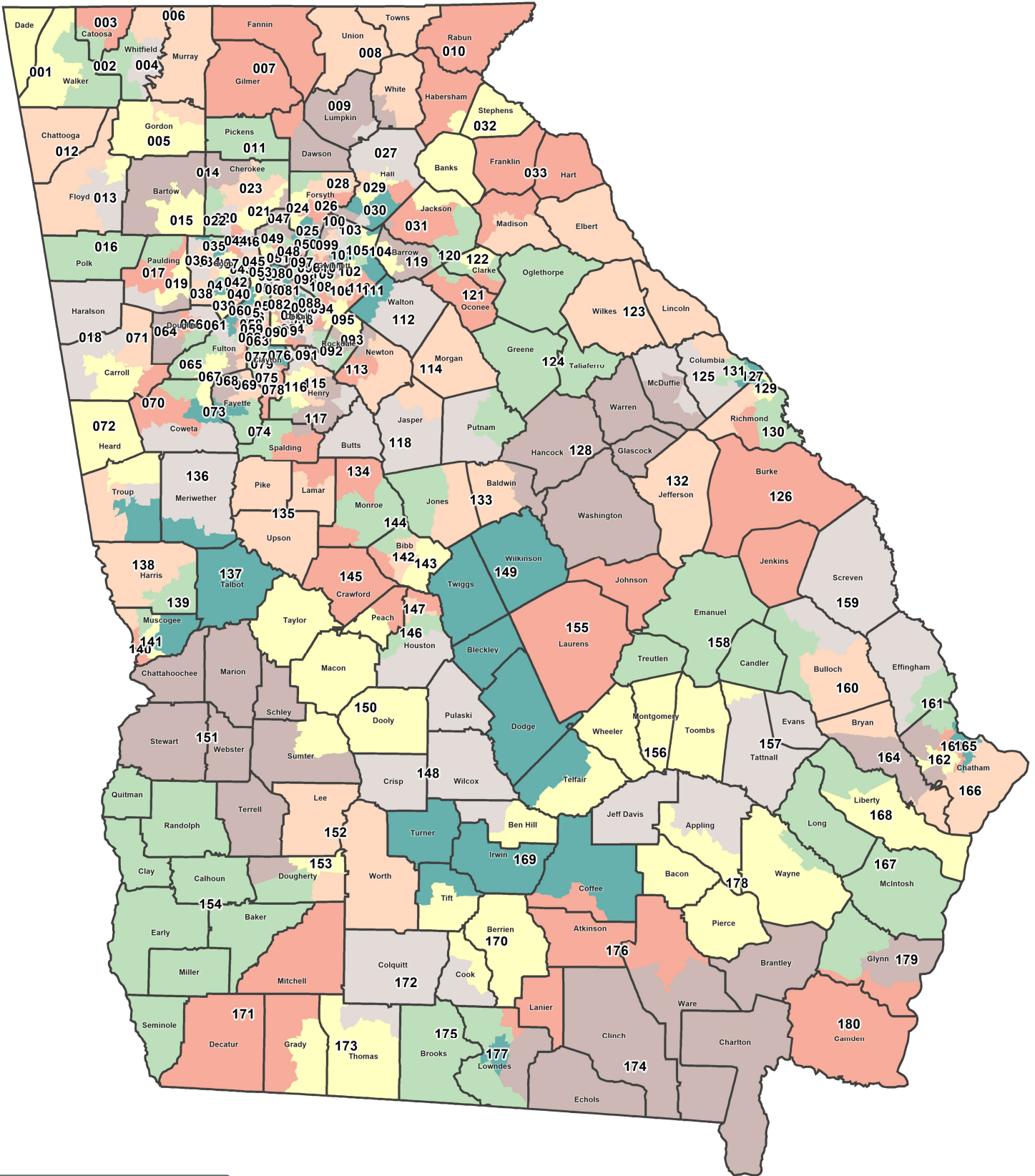
Political Subdivision Splits Between Districts

GA Senate Illustrative

County	Voting District	District	Population
Fulton GA	RW09	21	2,971
Fulton GA	RW09	56	4,750
Fulton GA	RW12	21	4,274
Fulton GA	RW12	56	3,958
Fulton GA	SC05A	28	681
Fulton GA	SC05A	35	317
Fulton GA	SC08B	28	223
Fulton GA	SC08B	39	5,124
Fulton GA	SC13	28	15
Fulton GA	SC13	35	4,019
Fulton GA	SC18C	35	1,852
Fulton GA	SC18C	39	521
Gordon GA	LILY POND	52	1,641
Gordon GA	LILY POND	54	996
Gwinnett GA	DACULA	45	2,699
Gwinnett GA	DACULA	46	4,613
Gwinnett GA	LAWRENCEVILLE E	5	2,075
Gwinnett GA	LAWRENCEVILLE E	9	1,386
Gwinnett GA	PINCKNEYVILLE W	5	5,605
Gwinnett GA	PINCKNEYVILLE W	7	2,701
Hall GA	GLADE	49	5,135
Hall GA	GLADE	50	1,735
Hall GA	TADMORE	49	4,129
Hall GA	TADMORE	50	10,220
Houston GA	RECR	20	0
Houston GA	RECR	26	17,798
Jackson GA	Central Jackson	47	24,383
Jackson GA	Central Jackson	50	0
Jackson GA	North Jackson	47	0
Jackson GA	North Jackson	50	19,247
Muscogee GA	COLUMBUS TECH	15	6,919
Muscogee GA	COLUMBUS TECH	29	2,228
Paulding GA	AUSTIN MIDDLE SCHOOL	31	971
Paulding GA	AUSTIN MIDDLE SCHOOL	35	9,922
Paulding GA	TAYLOR FARM PARK	31	4,596
Paulding GA	TAYLOR FARM PARK	35	8,837
Ware GA	100	3	2,672
Ware GA	100	8	3,692
Ware GA	200A	3	0
Ware GA	200A	8	4,133
Ware GA	304	3	0
Ware GA	304	8	2,107
Ware GA	400	3	4,626
Ware GA	400	8	406
Wilcox GA	ROCHELLE SOUTH	13	786
Wilcox GA	ROCHELLE SOUTH	20	794

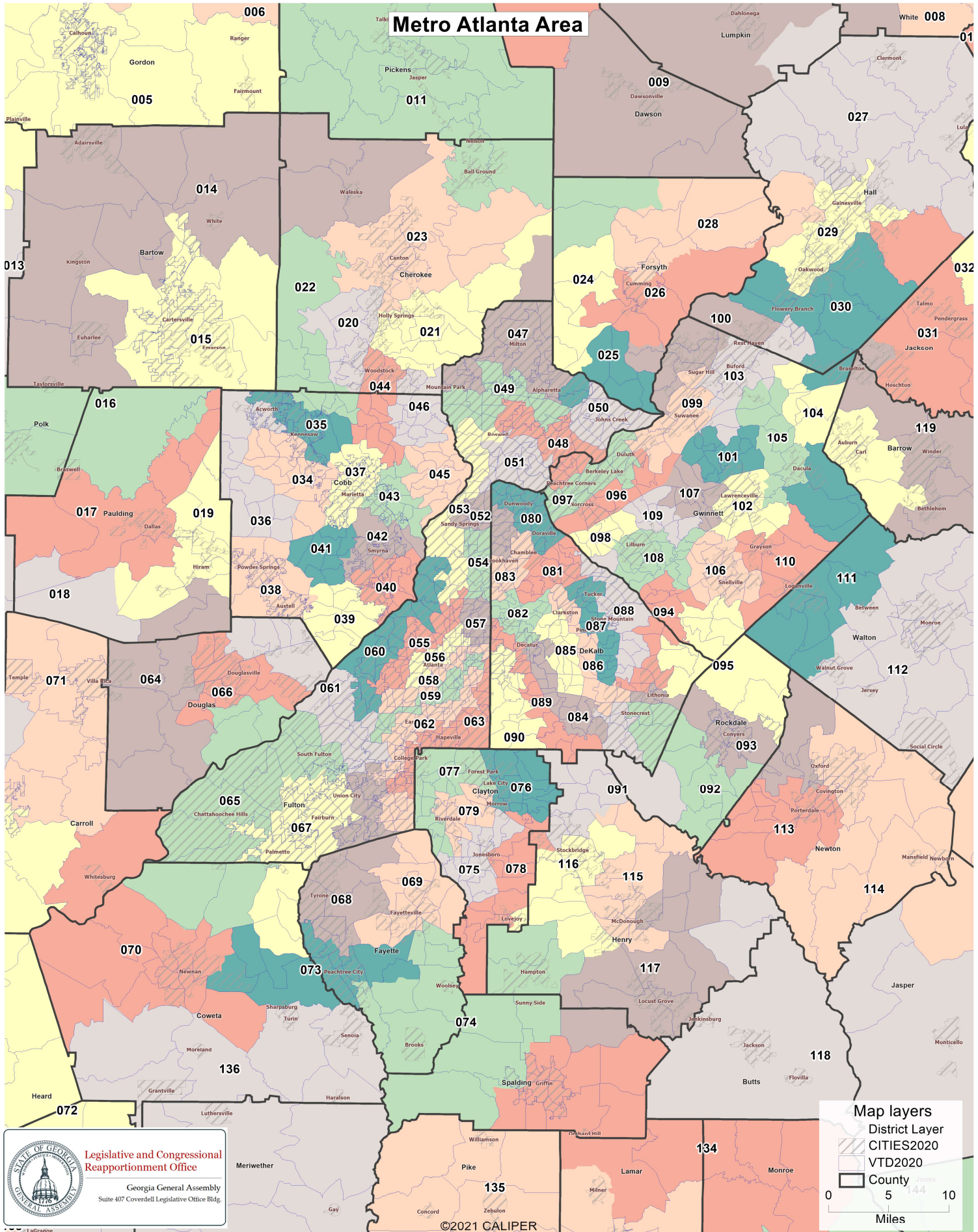
Esselstyn Report: Attachment I

Proposed Georgia House Districts



Proposed Georgia House Districts

Client: H097
Plan: House-prop1-2021
Type: House

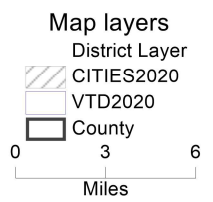
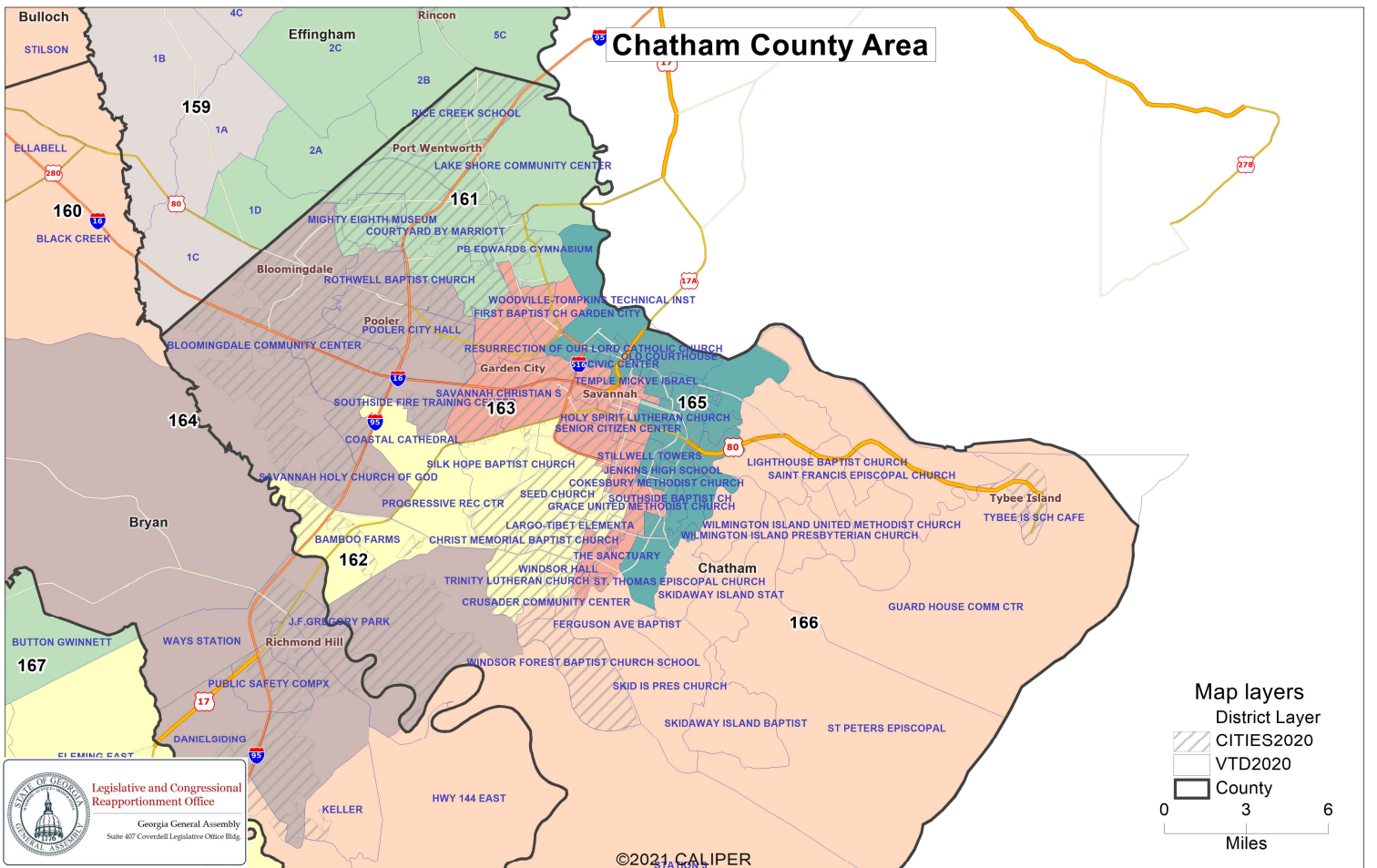
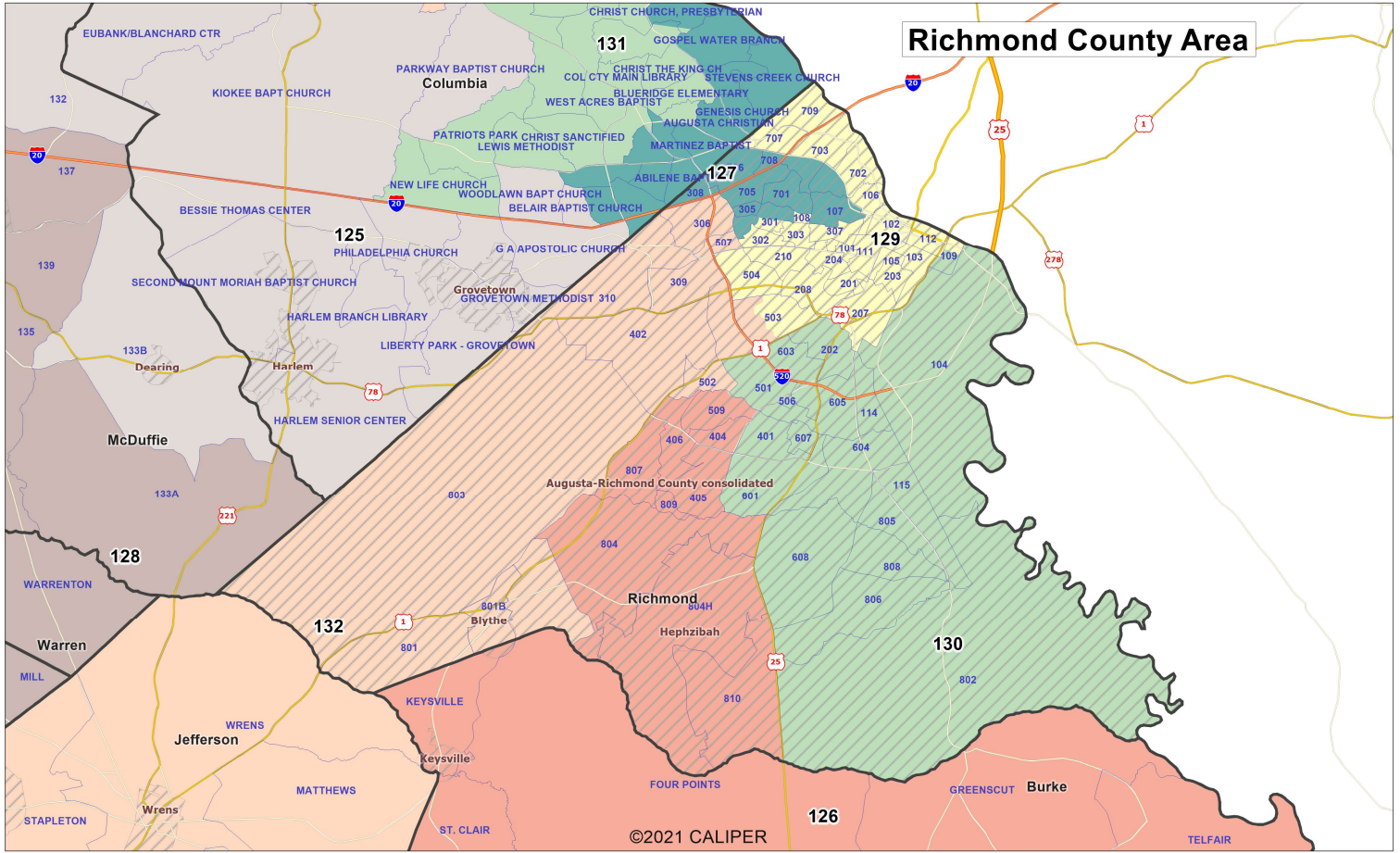


Legislative and Congressional Reapportionment Office

Georgia General Assembly
Suite 407 Coverdell Legislative Office Bldg.

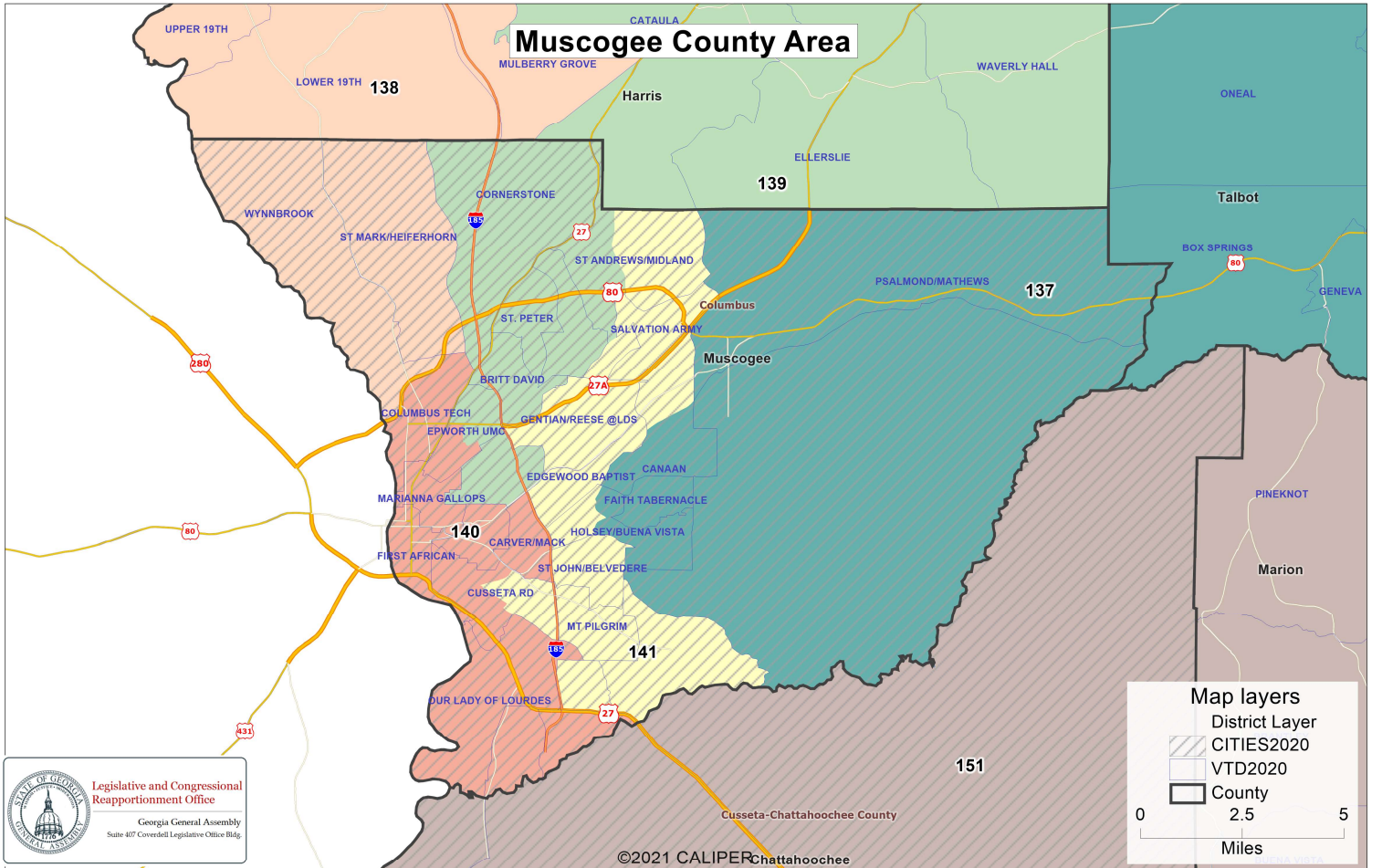
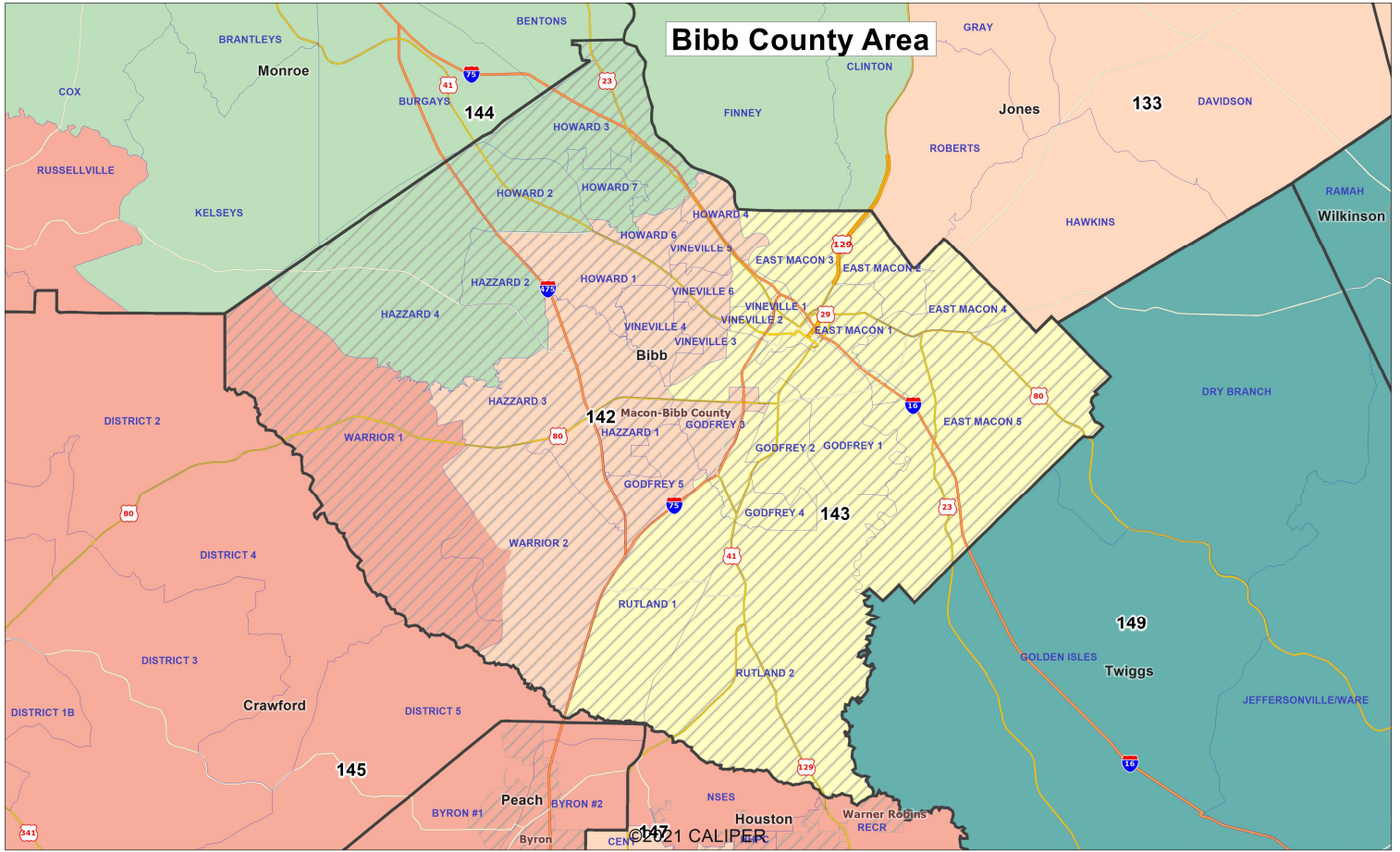
Proposed Georgia House Districts

Client: H097
Plan: House-prop1-2021
Type: House



Proposed Georgia House Districts

Client: H097
Plan: House-prop1-2021
Type: House



Legislative and Congressional Reapportionment Office
Georgia General Assembly
Suite 407 Covered Legislative Office Bldg.
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Map layers

- District Layer
- CITIES2020
- VTD2020
- County

0 2.5 5
Miles

User: H097

Plan Name: House-prop1-2021

Plan Type: House

Population Summary

Summary Statistics:

Population Range:	58,678 to 60,308
Ratio Range:	0.03
Absolute Range:	-833 to 797
Absolute Overall Range:	1,630
Relative Range:	-1.40% to 1.34%
Relative Overall Range:	2.74%
Absolute Mean Deviation:	363.71
Relative Mean Deviation:	0.61%
Standard Deviation:	417.67

District	Population	Deviation	% Devn.	[18+ Pop]	[% 18+ Pop]	[% NH_Wht]	[% NH_Blkl]	[% Hispanic Origin]	[% NH_Asn]	[% NH_Ind]	[% NH_Hwn]	[% NH_Oth]	[% NH_2+ Races]
001	59,666	155	0.26%	46,801	78.44%	87.88%	3.9%	2.59%	0.53%	0.31%	0.04%	0.3%	4.45%
002	59,773	262	0.44%	46,159	77.22%	83.24%	2.56%	9.09%	1.1%	0.18%	0.02%	0.26%	3.55%
003	60,199	688	1.16%	46,716	77.6%	86.9%	2.82%	3.6%	1.63%	0.27%	0.14%	0.18%	4.46%
004	59,070	-441	-0.74%	42,798	72.45%	42.01%	4.17%	50.07%	1.23%	0.17%	0.02%	0.28%	2.05%
005	58,837	-674	-1.13%	44,623	75.84%	75.46%	3.76%	15.29%	1.24%	0.2%	0.02%	0.22%	3.81%
006	59,712	201	0.34%	45,152	75.62%	80.15%	1.01%	14.51%	0.51%	0.2%	0.01%	0.2%	3.4%
007	59,081	-430	-0.72%	48,771	82.55%	87.97%	0.37%	7.43%	0.45%	0.26%	0.01%	0.24%	3.27%
008	59,244	-267	-0.45%	49,612	83.74%	90.8%	1.13%	3.21%	0.54%	0.3%	0.01%	0.34%	3.67%
009	59,474	-37	-0.06%	48,273	81.17%	87.78%	1.01%	5.49%	0.79%	0.37%	0.06%	0.36%	4.15%
010	59,519	8	0.01%	47,164	79.24%	78.61%	2.97%	13.11%	1.51%	0.17%	0.06%	0.24%	3.33%
011	58,792	-719	-1.21%	45,396	77.21%	87.43%	1.55%	5.33%	1.15%	0.22%	0.02%	0.3%	4%
012	59,300	-211	-0.35%	46,487	78.39%	78.45%	8.61%	7.68%	1.01%	0.16%	0.01%	0.42%	3.68%
013	59,150	-361	-0.61%	45,176	76.38%	62.24%	18.71%	13.52%	1.29%	0.22%	0.03%	0.33%	3.65%
014	59,135	-376	-0.63%	45,511	76.96%	81.38%	5.86%	7.04%	0.77%	0.21%	0.03%	0.34%	4.36%
015	59,213	-298	-0.50%	45,791	77.33%	68.38%	13.61%	11.74%	1.3%	0.25%	0.04%	0.49%	4.19%
016	59,402	-109	-0.18%	44,009	74.09%	72.9%	11.15%	10.95%	0.76%	0.22%	0.05%	0.43%	3.54%
017	59,120	-391	-0.66%	42,761	72.33%	63.28%	22.06%	7.9%	1.33%	0.23%	0.07%	0.64%	4.49%
018	59,335	-176	-0.30%	45,159	76.11%	84.78%	7.11%	2.93%	0.59%	0.23%	0.04%	0.35%	3.97%
019	58,955	-556	-0.93%	44,299	75.14%	62.06%	23.47%	7.87%	1.14%	0.25%	0.08%	0.64%	4.49%
020	60,107	596	1.00%	45,725	76.07%	73.93%	8.13%	10.6%	1.97%	0.16%	0.04%	0.63%	4.54%
021	59,529	18	0.03%	44,931	75.48%	80.04%	4.29%	8.54%	1.84%	0.19%	0.04%	0.66%	4.4%
022	59,460	-51	-0.09%	45,815	77.05%	62.53%	13.94%	13.26%	3.86%	0.2%	0.03%	0.81%	5.37%
023	59,048	-463	-0.78%	44,254	74.95%	71.47%	5.64%	17.19%	1.06%	0.22%	0.04%	0.36%	4.01%
024	59,011	-500	-0.84%	41,814	70.86%	60.13%	6%	11.36%	17.65%	0.21%	0.04%	0.62%	3.98%
025	59,414	-97	-0.16%	42,520	71.57%	51.99%	5%	5.42%	33.55%	0.15%	0.03%	0.51%	3.36%
026	59,248	-263	-0.44%	44,081	74.4%	63.48%	3.29%	12.07%	16.8%	0.18%	0.04%	0.5%	3.64%
027	58,795	-716	-1.20%	46,004	78.24%	79.69%	3.22%	11.82%	0.82%	0.19%	0.04%	0.3%	3.91%
028	58,972	-539	-0.91%	44,444	75.36%	76.5%	3.39%	13.59%	2.06%	0.16%	0.03%	0.4%	3.86%
029	59,200	-311	-0.52%	43,131	72.86%	36.05%	12.13%	46.28%	2.72%	0.12%	0.06%	0.41%	2.23%

Population Summary

House-prop1-2021

District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH_Wht]	[% NH_Blkl]	[% Hispanic Origin]	[% NH_Asn]	[% NH_Ind]	[% NH_Hwn]	[% NH_Oth]	[% NH_2+ Races]
030	59,266	-245	-0.41%	45,414	76.63%	67.03%	7.37%	18.78%	3.04%	0.15%	0.03%	0.34%	3.26%
031	59,901	390	0.66%	43,120	71.99%	65.57%	6.64%	21.63%	2.27%	0.19%	0.02%	0.37%	3.31%
032	59,145	-366	-0.62%	45,942	77.68%	80.8%	7.24%	6.03%	1.26%	0.29%	0.05%	0.25%	4.09%
033	59,187	-324	-0.54%	46,498	78.56%	79.94%	10.97%	4.08%	1.2%	0.15%	0.01%	0.36%	3.29%
034	59,875	364	0.61%	45,758	76.42%	66.59%	14.46%	9.06%	4.41%	0.11%	0.04%	0.68%	4.65%
035	59,889	378	0.64%	48,312	80.67%	50.12%	26.55%	12.7%	4.43%	0.21%	0.04%	0.9%	5.04%
036	59,994	483	0.81%	44,911	74.86%	68.01%	16.01%	7.46%	3.07%	0.14%	0.03%	0.73%	4.55%
037	59,176	-335	-0.56%	46,223	78.11%	42.2%	26%	21.96%	4.5%	0.21%	0.03%	1%	4.11%
038	59,317	-194	-0.33%	44,839	75.59%	25.93%	52.72%	14.72%	1.77%	0.22%	0.07%	0.7%	3.88%
039	59,381	-130	-0.22%	44,436	74.83%	20.6%	52.08%	21.79%	1.5%	0.14%	0.03%	0.65%	3.2%
040	59,044	-467	-0.78%	47,976	81.25%	48.94%	30.78%	6.43%	8.54%	0.17%	0.02%	0.7%	4.43%
041	60,122	611	1.03%	45,271	75.3%	23.42%	36.44%	33.22%	2.81%	0.18%	0.05%	0.86%	3.02%
042	59,620	109	0.18%	48,525	81.39%	35.47%	31.18%	20.49%	7.11%	0.19%	0.03%	1.15%	4.37%
043	59,464	-47	-0.08%	47,033	79.09%	43.32%	24.35%	15.85%	7.83%	0.21%	0.09%	2.4%	5.96%
044	60,002	491	0.83%	46,773	77.95%	64.71%	77.95%	10.98%	11.99%	5.71%	0.02%	1.17%	5.24%
045	59,738	227	0.38%	44,023	73.69%	72.29%	4.14%	5.5%	12.94%	0.07%	0.02%	0.67%	4.38%
046	59,108	-403	-0.68%	44,132	74.66%	72.43%	6.76%	8.24%	6.93%	0.12%	0.04%	0.82%	4.66%
047	59,126	-385	-0.65%	43,932	74.3%	61.71%	9.44%	7.83%	15.91%	0.2%	0.03%	0.7%	4.17%
048	59,003	-508	-0.85%	44,779	75.89%	59.05%	10.16%	14.1%	11.77%	0.08%	0.05%	0.64%	4.16%
049	59,153	-358	-0.60%	45,263	76.52%	68.94%	7.2%	7.56%	11.41%	0.1%	0.02%	0.68%	4.09%
050	59,523	12	0.02%	43,940	73.82%	41.55%	11.04%	7.06%	35.46%	0.09%	0.04%	0.66%	4.1%
051	58,952	-559	-0.94%	47,262	80.17%	51.02%	21.93%	15.47%	5.83%	0.17%	0.04%	1.03%	4.51%
052	59,811	300	0.50%	48,525	81.13%	53.81%	13.71%	7.98%	19.72%	0.14%	0.06%	0.72%	3.86%
053	59,953	442	0.74%	46,944	78.3%	70.3%	12.31%	8.2%	4.46%	0.1%	0.02%	0.63%	3.98%
054	60,083	572	0.96%	50,338	83.78%	61.03%	12.98%	15.17%	6.51%	0.14%	0.03%	0.57%	3.56%
055	59,971	460	0.77%	49,255	82.13%	33.78%	54.54%	5.14%	2.85%	0.18%	0.03%	0.4%	3.09%
056	58,929	-582	-0.98%	52,757	89.53%	34.03%	46.33%	5.81%	9.32%	0.18%	0.07%	0.45%	3.8%
057	59,969	458	0.77%	52,097	86.87%	62.89%	15.57%	8.83%	7.58%	0.11%	0.02%	0.65%	4.36%
058	59,057	-454	-0.76%	50,514	85.53%	24.98%	63.09%	5.03%	2.76%	0.14%	0.03%	0.51%	3.45%
059	59,434	-77	-0.13%	49,179	82.75%	19.37%	69.55%	4.45%	2.52%	0.16%	0.02%	0.56%	3.36%
060	59,709	198	0.33%	45,490	76.19%	26.72%	61.76%	5.87%	2.04%	0.17%	0.05%	0.44%	2.96%
061	59,302	-209	-0.35%	45,447	76.64%	14.79%	71.51%	9.1%	0.87%	0.15%	0.06%	0.54%	2.98%
062	59,450	-61	-0.10%	46,426	78.09%	17.17%	70.09%	7.61%	1.13%	0.21%	0.04%	0.53%	3.22%
063	59,381	-130	-0.22%	45,043	75.85%	16.74%	68%	10.42%	1.32%	0.21%	0.03%	0.51%	2.78%
064	58,986	-525	-0.88%	44,189	74.91%	54.76%	29.35%	8.84%	1.37%	0.27%	0.03%	0.78%	4.6%
065	59,464	-47	-0.08%	44,386	74.64%	29.55%	60.08%	5.23%	1.08%	0.18%	0.06%	0.57%	3.27%
066	59,047	-464	-0.78%	44,278	74.99%	29.98%	52.03%	11.05%	1.72%	0.24%	0.07%	0.79%	4.11%
067	59,135	-376	-0.63%	44,299	74.91%	29.09%	57.14%	8.71%	1.29%	0.18%	0.03%	0.5%	3.06%
068	59,477	-34	-0.06%	44,835	75.38%	31.15%	54.67%	7.3%	2.79%	0.16%	0.04%	0.7%	3.19%
069	58,682	-829	-1.39%	45,548	77.62%	24.1%	61.87%	6.47%	3.04%	0.17%	0.04%	0.89%	3.41%
070	59,121	-390	-0.66%	45,249	76.54%	56.51%	27.61%	9.08%	2.17%	0.2%	0.05%	0.47%	3.9%
071	59,538	27	0.05%	44,582	74.88%	67.15%	18.89%	7.44%	0.96%	0.25%	0.02%	0.51%	4.78%
072	59,660	149	0.25%	46,229	77.49%	67.26%	19.34%	8.16%	0.96%	0.2%	0.02%	0.3%	3.75%
073	60,036	525	0.88%	45,736	76.18%	69.92%	11.27%	7.96%	5.88%	0.15%	0.03%	0.52%	4.26%

Population Summary

House-prop1-2021

District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH_Wht]	[% NH_Blk]	[% Hispanic Origin]	[% NH_Asn]	[% NH_Ind]	[% NH_Hwn]	[% NH_Oth]	[% NH_2+ Races]
074	58,956	-555	-0.93%	44,696	75.81%	61.32%	25.24%	6.67%	2.05%	0.2%	0.02%	0.52%	3.98%
075	59,743	232	0.39%	43,850	73.4%	9.24%	71.27%	12.97%	2.66%	0.19%	0.06%	0.71%	2.9%
076	59,759	248	0.42%	44,371	74.25%	8.61%	64.24%	15.61%	8.11%	0.19%	0.04%	0.57%	2.63%
077	59,242	-269	-0.45%	44,207	74.62%	6.22%	72.49%	14.22%	4.03%	0.22%	0.06%	0.5%	2.27%
078	59,044	-467	-0.78%	44,572	75.49%	12.69%	69.39%	9.94%	4.03%	0.19%	0.03%	0.65%	3.08%
079	59,500	-11	-0.02%	43,223	72.64%	5.69%	68.19%	18.11%	4.87%	0.21%	0.01%	0.57%	2.34%
080	59,461	-50	-0.08%	44,784	75.32%	45.02%	11.65%	26.17%	13.02%	0.08%	0.04%	0.63%	3.39%
081	59,007	-504	-0.85%	46,259	78.4%	44.28%	18.64%	24.58%	8.14%	0.14%	0.02%	0.55%	3.65%
082	59,724	213	0.36%	50,238	84.12%	61.86%	14.34%	7.52%	11.03%	0.11%	0.03%	0.65%	4.46%
083	59,416	-95	-0.16%	46,581	78.4%	44.13%	12.06%	33.75%	6.29%	0.1%	0.02%	0.61%	3.03%
084	59,862	351	0.59%	47,350	79.1%	21.11%	69.74%	3.4%	1.4%	0.16%	0.03%	0.59%	3.58%
085	59,373	-138	-0.23%	46,308	78%	17.08%	60.18%	5.99%	12.29%	0.25%	0.02%	0.68%	3.5%
086	59,205	-306	-0.51%	44,614	75.36%	10.6%	71.76%	4.64%	9.02%	0.15%	0.02%	0.67%	3.14%
087	59,709	198	0.33%	45,615	76.4%	11.48%	70.08%	7.73%	6.46%	0.21%	0.02%	0.7%	3.33%
088	59,689	178	0.30%	46,073	77.19%	15.98%	60.71%	11.46%	7.49%	0.23%	0.06%	0.68%	3.39%
089	59,866	355	0.60%	46,198	77.17%	30.38%	59.77%	3.8%	1.78%	0.15%	0.03%	0.48%	3.6%
090	59,812	301	0.51%	48,015	80.28%	32.08%	57.15%	4.65%	1.58%	0.12%	0.03%	0.62%	3.76%
091	60,050	539	0.91%	46,173	76.89%	19.7%	67.92%	7%	1.39%	0.17%	0.04%	0.54%	3.25%
092	60,273	762	1.28%	46,551	77.23%	20.98%	67.63%	5.49%	1.58%	0.16%	0.04%	0.74%	3.39%
093	60,118	607	1.02%	44,734	74.41%	19.94%	63.27%	11.24%	1.34%	0.16%	0.1%	0.69%	3.26%
094	59,211	-300	-0.50%	44,809	75.68%	16.38%	65.88%	8.72%	4.85%	0.19%	0.02%	0.58%	3.37%
095	60,030	519	0.87%	44,948	74.88%	18.79%	64.99%	9.32%	2.29%	0.19%	0.05%	0.73%	3.63%
096	59,515	4	0.01%	44,671	75.06%	17.47%	20.71%	40.49%	17.64%	0.15%	0.06%	0.72%	2.76%
097	59,072	-439	-0.74%	46,339	78.44%	33.19%	25.12%	21.86%	15%	0.19%	0.05%	0.68%	3.92%
098	59,998	487	0.82%	42,734	71.23%	9.69%	19.56%	57.42%	10.69%	0.13%	0.05%	0.6%	1.86%
099	59,850	339	0.57%	45,004	75.19%	39.77%	13.49%	9.52%	32.49%	0.15%	0.04%	0.56%	3.98%
100	60,030	519	0.87%	42,669	71.08%	55.88%	9.01%	10.85%	19.49%	0.18%	0.05%	0.53%	4.01%
101	59,938	427	0.72%	46,584	77.72%	37.36%	22.37%	20.17%	15.23%	0.16%	0.05%	0.7%	3.96%
102	58,959	-552	-0.93%	42,968	72.88%	26.79%	36.41%	23.45%	8.97%	0.22%	0.03%	0.69%	3.44%
103	60,197	686	1.15%	44,399	73.76%	49.51%	15.16%	19.06%	11.68%	0.13%	0.04%	0.61%	3.81%
104	59,362	-149	-0.25%	43,306	72.95%	60.44%	15.61%	12.64%	6.32%	0.16%	0.04%	0.6%	4.2%
105	59,344	-167	-0.28%	43,474	73.26%	38.89%	27.8%	18.1%	10.56%	0.1%	0.03%	0.65%	3.88%
106	59,112	-399	-0.67%	43,890	74.25%	36.66%	35.66%	12.66%	9.78%	0.17%	0.03%	0.81%	4.23%
107	59,702	191	0.32%	44,509	74.55%	19.03%	27.46%	34.49%	15.45%	0.16%	0.03%	0.64%	2.73%
108	59,577	66	0.11%	44,308	74.37%	38.96%	17.34%	20.98%	18.06%	0.17%	0.03%	0.67%	3.78%
109	59,630	119	0.20%	44,140	74.02%	13.5%	29.44%	39.32%	14.39%	0.14%	0.05%	0.63%	2.54%
110	59,951	440	0.74%	43,226	72.1%	32.7%	45.9%	11.87%	4.49%	0.18%	0.04%	0.84%	3.97%
111	60,009	498	0.84%	44,096	73.48%	60.53%	21.74%	10.37%	2.5%	0.18%	0.04%	0.73%	3.91%
112	59,349	-162	-0.27%	45,120	76.02%	71.55%	18.88%	4%	1.27%	0.2%	0.04%	0.47%	3.59%
113	60,053	542	0.91%	44,538	74.16%	28.82%	57.75%	7.78%	0.79%	0.14%	0.12%	0.62%	3.98%
114	59,867	356	0.60%	45,872	76.62%	66.9%	23.89%	4.53%	0.7%	0.18%	0.03%	0.45%	3.33%
115	60,174	663	1.11%	44,807	74.46%	33.12%	51.3%	7.88%	2.67%	0.17%	0.04%	0.81%	4%
116	59,913	402	0.68%	45,791	76.43%	23.87%	56.71%	8.14%	6.39%	0.18%	0.08%	0.83%	3.81%
117	60,130	619	1.04%	44,973	74.79%	51.61%	35.88%	6.28%	1.53%	0.17%	0.04%	0.59%	3.9%

Population Summary

House-prop1-2021

District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH_Wht]	[% NH_Blkl]	[% Hispanic Origin]	[% NH_Asn]	[% NH_Ind]	[% NH_Hwn]	[% NH_Oth]	[% NH_2+ Races]
118	59,987	476	0.80%	46,342	77.25%	68.26%	22.55%	4.5%	0.43%	0.18%	0.02%	0.47%	3.59%
119	58,947	-564	-0.95%	44,005	74.65%	66.88%	12.47%	12.17%	3.83%	0.16%	0.02%	0.58%	3.89%
120	58,982	-529	-0.89%	46,767	79.29%	69.85%	13.48%	8.42%	4.05%	0.15%	0.05%	0.5%	3.49%
121	59,127	-384	-0.65%	46,598	78.81%	75.06%	8.66%	6.27%	5.64%	0.11%	0%	0.53%	3.73%
122	59,632	121	0.20%	48,840	81.9%	49.13%	30.63%	13.78%	2.13%	0.28%	0.06%	0.86%	3.13%
123	59,282	-229	-0.38%	46,572	78.56%	65.88%	23.82%	5.33%	1.14%	0.17%	0.02%	0.26%	3.39%
124	59,221	-290	-0.49%	47,638	80.44%	61.53%	26.06%	7.57%	1.14%	0.19%	0.02%	0.37%	3.12%
125	60,137	626	1.05%	43,812	72.85%	60%	21.67%	8.93%	2.4%	0.29%	0.19%	0.52%	5.99%
126	59,260	-251	-0.42%	45,497	76.78%	37.81%	53.88%	3.63%	0.76%	0.27%	0.15%	0.37%	3.13%
127	58,678	-833	-1.40%	45,889	78.2%	65.92%	17.12%	5.58%	5.63%	0.18%	0.18%	0.51%	4.88%
128	58,864	-647	-1.09%	46,488	78.98%	44.14%	51%	1.91%	0.36%	0.19%	0.03%	0.17%	2.22%
129	58,829	-682	-1.15%	46,873	79.68%	33.83%	54.95%	4.74%	2.1%	0.21%	0.14%	0.43%	3.6%
130	59,203	-308	-0.52%	44,019	74.35%	30.19%	60.27%	4.33%	0.79%	0.24%	0.16%	0.42%	3.6%
131	58,890	-621	-1.04%	42,968	72.96%	65.57%	15.99%	7.07%	4.92%	0.19%	0.14%	0.61%	5.51%
132	59,142	-369	-0.62%	46,752	79.05%	33.1%	51.88%	7.91%	2.38%	0.26%	0.19%	0.37%	3.91%
133	59,202	-309	-0.52%	47,222	79.76%	56.35%	37.05%	2.42%	1.12%	0.15%	0.04%	0.38%	2.48%
134	59,396	-115	-0.19%	45,110	75.95%	56.72%	34.18%	4.39%	0.74%	0.22%	0.02%	0.35%	3.37%
135	60,063	552	0.93%	46,725	77.79%	70.69%	22.83%	2.21%	0.51%	0.16%	0.01%	0.33%	3.25%
136	59,298	-213	-0.36%	45,367	76.51%	62.16%	28%	4.4%	1.54%	0.24%	0.03%	0.42%	3.21%
137	59,551	40	0.07%	45,358	76.17%	38.1%	51.27%	5.17%	1.66%	0.12%	0.14%	0.37%	3.17%
138	58,912	-599	-1.01%	45,684	77.55%	70.29%	18.77%	4.1%	2.39%	0.25%	0.06%	0.36%	3.77%
139	59,010	-501	-0.84%	45,522	77.14%	63.55%	19.18%	7.24%	4.03%	0.25%	0.21%	0.59%	4.96%
140	59,294	-217	-0.36%	44,411	74.9%	28.76%	55.8%	9.04%	1.02%	0.27%	0.24%	0.53%	4.34%
141	59,019	-492	-0.83%	44,677	75.7%	29.41%	54.88%	7.93%	2.53%	0.24%	0.3%	0.45%	4.25%
142	59,608	97	0.16%	44,584	74.8%	30.78%	60.48%	4.23%	1.29%	0.16%	0.01%	0.36%	2.68%
143	59,469	-42	-0.07%	46,390	78.01%	29.08%	61.66%	4.87%	0.97%	0.19%	0.05%	0.36%	2.82%
144	59,232	-279	-0.47%	46,370	78.29%	60.82%	29.32%	2.91%	3.46%	0.14%	0.02%	0.36%	2.97%
145	59,863	352	0.59%	45,844	76.58%	51.64%	35.66%	7.02%	0.9%	0.28%	0.04%	0.41%	4.05%
146	60,203	692	1.16%	44,589	74.06%	59.32%	26.73%	5.66%	2.67%	0.17%	0.09%	0.45%	4.91%
147	59,178	-333	-0.56%	44,902	75.88%	51.94%	29.55%	8.3%	4.76%	0.23%	0.07%	0.51%	4.64%
148	59,984	473	0.79%	46,614	77.71%	58.49%	33.89%	3.66%	0.9%	0.12%	0.04%	0.28%	2.63%
149	58,893	-618	-1.04%	46,821	79.5%	60.01%	31.14%	5.61%	0.57%	0.17%	0.03%	0.2%	2.28%
150	59,276	-235	-0.39%	47,050	79.37%	36.16%	53.23%	7.23%	1.17%	0.17%	0.03%	0.17%	1.85%
151	60,059	548	0.92%	46,973	78.21%	45.21%	42.21%	7.51%	1.29%	0.18%	0.23%	0.25%	3.12%
152	60,134	623	1.05%	46,026	76.54%	66.12%	25.86%	2.84%	1.6%	0.21%	0.03%	0.3%	3.03%
153	59,299	-212	-0.36%	45,692	77.05%	24.38%	69.08%	2.93%	0.89%	0.13%	0.02%	0.24%	2.33%
154	59,994	483	0.81%	47,273	78.8%	39.54%	55.53%	2.1%	0.38%	0.16%	0.01%	0.2%	2.09%
155	58,759	-752	-1.26%	45,208	76.94%	57.32%	36.14%	2.62%	0.91%	0.18%	0.05%	0.26%	2.52%
156	59,444	-67	-0.11%	45,867	77.16%	58.49%	29.79%	8.27%	0.6%	0.17%	0.01%	0.25%	2.42%
157	59,957	446	0.75%	45,311	75.57%	61.81%	23.59%	11.19%	0.54%	0.16%	0.04%	0.21%	2.47%
158	59,440	-71	-0.12%	45,549	76.63%	59.27%	31.5%	5.6%	0.75%	0.18%	0.03%	0.25%	2.42%
159	59,895	384	0.65%	44,871	74.92%	67.46%	23.88%	3.65%	0.54%	0.28%	0.03%	0.34%	3.82%
160	59,935	424	0.71%	48,057	80.18%	66.84%	21.68%	5.5%	1.62%	0.24%	0.1%	0.28%	3.76%
161	60,097	586	0.98%	44,371	73.83%	57.53%	25.83%	7.89%	3.03%	0.24%	0.09%	0.5%	4.9%

Population Summary

District	Population	Deviation	% Devn.	[18+ _Pop]	[% 18+ _Pop]	[% NH_Wht]	[% NH_Blkl]	[% Hispanic Origin]	[% NH_Asn]	[% NH_Ind]	[% NH_Hwn]	[% NH_Oth]	[% NH_2+ Races]
162	60,308	797	1.34%	46,733	77.49%	36.7%	43.34%	10.78%	4%	0.2%	0.24%	0.54%	4.19%
163	60,123	612	1.03%	48,461	80.6%	38.48%	46.14%	8.45%	3.12%	0.19%	0.13%	0.39%	3.1%
164	60,101	590	0.99%	45,851	76.29%	57.7%	22.03%	9.95%	4.21%	0.24%	0.12%	0.68%	5.08%
165	59,978	467	0.78%	48,247	80.44%	35.1%	52.41%	5.53%	3.19%	0.22%	0.14%	0.38%	3.02%
166	60,242	731	1.23%	47,580	78.98%	82.79%	4.94%	5.19%	2.65%	0.16%	0.05%	0.4%	3.82%
167	59,493	-18	-0.03%	44,140	74.19%	62.89%	20.99%	8.81%	1.42%	0.35%	0.23%	0.5%	4.79%
168	60,147	636	1.07%	44,867	74.6%	36.24%	43.3%	11.22%	1.98%	0.31%	0.67%	0.48%	5.79%
169	59,138	-373	-0.63%	45,267	76.54%	58.36%	28.84%	9.03%	0.79%	0.15%	0.02%	0.2%	2.6%
170	60,116	605	1.02%	45,316	75.38%	60.65%	24.39%	10.43%	1.19%	0.13%	0.02%	0.28%	2.91%
171	59,237	-274	-0.46%	45,969	77.6%	51.23%	39.79%	5.73%	0.54%	0.21%	0.03%	0.21%	2.26%
172	59,961	450	0.76%	44,756	74.64%	57.24%	23.26%	16%	0.77%	0.21%	0.03%	0.23%	2.27%
173	59,743	232	0.39%	45,292	75.81%	52.67%	36.22%	6.95%	0.79%	0.33%	0.02%	0.3%	2.72%
174	59,852	341	0.57%	45,760	76.46%	70.83%	16.91%	7.88%	0.47%	0.35%	0.04%	0.22%	3.3%
175	59,993	482	0.81%	44,704	74.52%	64.08%	23.75%	6.1%	1.78%	0.26%	0.07%	0.34%	3.64%
176	59,470	-41	-0.07%	44,991	75.65%	63.56%	21.74%	9.95%	0.91%	0.24%	0.08%	0.29%	3.23%
177	59,992	481	0.81%	46,014	76.7%	33.22%	54.7%	6.69%	1.26%	0.21%	0.07%	0.42%	3.42%
178	59,877	366	0.62%	45,638	76.22%	75.62%	14.4%	6.22%	0.52%	0.18%	0.01%	0.29%	2.76%
179	59,356	-155	-0.26%	47,156	79.45%	59.03%	28.39%	7.73%	1.06%	0.17%	0.13%	0.39%	3.11%
180	59,412	-99	-0.17%	45,362	76.35%	68.71%	16.96%	6.47%	1.56%	0.32%	0.11%	0.57%	5.3%

Total: 10,711,908**Ideal District: 59,511**

User: H097

Plan Name: House-prop1-2021

Plan Type: House

Population Summary

Summary Statistics:

Population Range:	58,678 to 60,308
Ratio Range:	0.03
Absolute Range:	-833 to 797
Absolute Overall Range:	1,630
Relative Range:	-1.40% to 1.34%
Relative Overall Range:	2.74%
Absolute Mean Deviation:	363.71
Relative Mean Deviation:	0.61%
Standard Deviation:	417.67

District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH18+_Wht]	[% NH18+_Blk]	[% H18+_Pop]	[% NH18+_Asn]	[% NH18+_Ind]	[% NH18+_Hwn]	[% NH18+_Oth]	[% NH18+_2+ Races]
001	59,666	155	0.26%	46,801	78.44%	89.43%	3.65%	2.11%	0.57%	0.32%	0.05%	0.21%	3.65%
002	59,773	262	0.44%	46,159	77.22%	85.33%	2.64%	7.57%	1.07%	0.2%	0.02%	0.2%	2.97%
003	60,199	688	1.16%	46,716	77.6%	88.46%	2.71%	2.96%	1.56%	0.28%	0.14%	0.14%	3.77%
004	59,070	-441	-0.74%	42,798	72.45%	47.78%	4.53%	44.13%	1.28%	0.19%	0.02%	0.21%	1.86%
005	58,837	-674	-1.13%	44,623	75.84%	78.55%	3.81%	12.62%	1.26%	0.22%	0.03%	0.19%	3.31%
006	59,712	201	0.34%	45,152	75.62%	83%	1%	11.96%	0.51%	0.25%	0.02%	0.17%	3.09%
007	59,081	-430	-0.72%	48,771	82.55%	90.15%	0.34%	5.53%	0.46%	0.27%	0.01%	0.21%	3.02%
008	59,244	-267	-0.45%	49,612	83.74%	91.87%	1.12%	2.74%	0.54%	0.3%	0%	0.29%	3.13%
009	59,474	-37	-0.06%	48,273	81.17%	88.93%	1.06%	4.74%	0.83%	0.41%	0.06%	0.33%	3.64%
010	59,519	8	0.01%	47,164	79.24%	81.82%	3.19%	10.04%	1.58%	0.18%	0.03%	0.21%	2.95%
011	58,792	-719	-1.21%	45,396	77.21%	89.31%	1.43%	4.23%	1.06%	0.23%	0.03%	0.27%	3.44%
012	59,300	-211	-0.35%	46,487	78.39%	80.42%	8.94%	6.15%	1.01%	0.18%	0%	0.33%	2.97%
013	59,150	-361	-0.61%	45,176	76.38%	66.3%	18.03%	10.84%	1.36%	0.22%	0.02%	0.26%	2.97%
014	59,135	-376	-0.63%	45,511	76.96%	83.02%	6.06%	5.88%	0.8%	0.25%	0.02%	0.31%	3.65%
015	59,213	-298	-0.50%	45,791	77.33%	71.9%	13.11%	9.67%	1.36%	0.27%	0.03%	0.36%	3.3%
016	59,402	-109	-0.18%	44,009	74.09%	76.42%	10.83%	8.61%	0.79%	0.21%	0.05%	0.32%	2.76%
017	59,120	-391	-0.66%	42,761	72.33%	66.02%	21.24%	6.94%	1.41%	0.25%	0.06%	0.54%	3.55%
018	59,335	-176	-0.30%	45,159	76.11%	86.01%	7.17%	2.39%	0.62%	0.26%	0.04%	0.26%	3.24%
019	58,955	-556	-0.93%	44,299	75.14%	65.37%	22.26%	6.8%	1.21%	0.21%	0.07%	0.48%	3.59%
020	60,107	596	1.00%	45,725	76.07%	76.4%	7.96%	9.18%	2.03%	0.14%	0.04%	0.55%	3.7%
021	59,529	18	0.03%	44,931	75.48%	82.07%	4.23%	7.44%	1.87%	0.22%	0.05%	0.61%	3.51%
022	59,460	-51	-0.09%	45,815	77.05%	65.61%	13.32%	11.57%	4.04%	0.21%	0.03%	0.76%	4.47%
023	59,048	-463	-0.78%	44,254	74.95%	75.29%	5.48%	14.23%	1.12%	0.21%	0.05%	0.32%	3.3%
024	59,011	-500	-0.84%	41,814	70.86%	63.42%	6.04%	10.32%	16.41%	0.17%	0.05%	0.56%	3.03%
025	59,414	-97	-0.16%	42,520	71.57%	56.12%	5.08%	5.09%	30.56%	0.1%	0.03%	0.45%	2.56%
026	59,248	-263	-0.44%	44,081	74.4%	68.21%	3.18%	10.76%	14.26%	0.12%	0.04%	0.44%	2.99%
027	58,795	-716	-1.20%	46,004	78.24%	82.61%	3.07%	9.6%	0.83%	0.2%	0.04%	0.24%	3.4%
028	58,972	-539	-0.91%	44,444	75.36%	79.36%	3.15%	11.44%	2.16%	0.17%	0.03%	0.36%	3.33%

Population Summary

House-prop1-2021

District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH18+_Wht]	[% NH18+_Blk]	[% H18+_Pop]	[% NH18+_Asn]	[% NH18+_Ind]	[% NH18+_Hwn]	[% NH18+_Oth]	[% NH18+_2+ Races]
029	59,200	-311	-0.52%	43,131	72.86%	42.29%	12.55%	39.71%	3.02%	0.14%	0.06%	0.33%	1.91%
030	59,266	-245	-0.41%	45,414	76.63%	70.5%	7.19%	16.13%	2.96%	0.15%	0.02%	0.28%	2.77%
031	59,901	390	0.66%	43,120	71.99%	68.65%	6.79%	18.95%	2.35%	0.21%	0.03%	0.32%	2.69%
032	59,145	-366	-0.62%	45,942	77.68%	82.98%	7.21%	4.87%	1.25%	0.32%	0.05%	0.2%	3.12%
033	59,187	-324	-0.54%	46,498	78.56%	82.25%	10.57%	3.13%	1.16%	0.15%	0.01%	0.29%	2.43%
034	59,875	364	0.61%	45,758	76.42%	69.23%	14.11%	7.85%	4.43%	0.12%	0.03%	0.65%	3.58%
035	59,889	378	0.64%	48,312	80.67%	53.63%	25.59%	11.15%	4.58%	0.19%	0.05%	0.77%	4.04%
036	59,994	483	0.81%	44,911	74.86%	70.77%	15.48%	6.51%	3.02%	0.15%	0.04%	0.6%	3.44%
037	59,176	-335	-0.56%	46,223	78.11%	46.26%	25.84%	18.64%	4.61%	0.21%	0.02%	0.91%	3.52%
038	59,317	-194	-0.33%	44,839	75.59%	30.1%	51.13%	12.62%	1.87%	0.24%	0.05%	0.63%	3.36%
039	59,381	-130	-0.22%	44,436	74.83%	23.47%	52.5%	18.66%	1.77%	0.17%	0.03%	0.6%	2.79%
040	59,044	-467	-0.78%	47,976	81.25%	51.14%	30.35%	5.92%	8.24%	0.15%	0.01%	0.63%	3.55%
041	60,122	611	1.03%	45,271	75.3%	27.62%	36.96%	28.55%	3.13%	0.22%	0.05%	0.84%	2.62%
042	59,620	109	0.18%	48,525	81.39%	39%	30.85%	17.38%	7.45%	0.2%	0.04%	1.14%	3.94%
043	59,464	-47	-0.08%	47,033	79.09%	46.31%	24.03%	14.15%	7.62%	0.21%	0.09%	2.27%	5.32%
044	60,002	491	0.83%	46,773	77.95%	67.69%	10.5%	10.53%	5.78%	0.2%	0.02%	1.06%	4.23%
045	59,738	227	0.38%	44,023	73.69%	74.94%	4.27%	4.85%	12.05%	0.05%	0.02%	0.59%	3.23%
046	59,108	-403	-0.68%	44,132	74.66%	74.81%	6.79%	7.38%	6.72%	0.13%	0.04%	0.61%	3.53%
047	59,126	-385	-0.65%	43,932	74.3%	63.89%	9.3%	7.37%	15.16%	0.17%	0.03%	0.62%	3.46%
048	59,003	-508	-0.85%	44,779	75.89%	61.77%	10.14%	12.41%	11.59%	0.08%	0.04%	0.56%	3.42%
049	59,153	-358	-0.60%	45,263	76.52%	71.48%	7.22%	6.7%	10.74%	0.1%	0.03%	0.63%	3.12%
050	59,523	12	0.02%	43,940	73.82%	44.37%	10.8%	6.36%	34.63%	0.07%	0.05%	0.58%	3.13%
051	58,952	-559	-0.94%	47,262	80.17%	54.33%	21.3%	13.31%	5.93%	0.18%	0.05%	1.01%	3.89%
052	59,811	300	0.50%	48,525	81.13%	55.14%	14.19%	7.41%	19.12%	0.14%	0.07%	0.68%	3.24%
053	59,953	442	0.74%	46,944	78.3%	71.2%	12.71%	7.44%	4.58%	0.09%	0.02%	0.54%	3.41%
054	60,083	572	0.96%	50,338	83.78%	62.98%	13.67%	12.79%	6.86%	0.13%	0.03%	0.53%	3.02%
055	59,971	460	0.77%	49,255	82.13%	35.51%	52.85%	4.97%	3.19%	0.18%	0.04%	0.37%	2.88%
056	58,929	-582	-0.98%	52,757	89.53%	36.98%	42.9%	5.84%	9.92%	0.2%	0.08%	0.41%	3.67%
057	59,969	458	0.77%	52,097	86.87%	63.64%	16.18%	7.95%	7.99%	0.1%	0.02%	0.6%	3.52%
058	59,057	-454	-0.76%	50,514	85.53%	27.56%	60.36%	5.07%	3.04%	0.12%	0.04%	0.51%	3.3%
059	59,434	-77	-0.13%	49,179	82.75%	22.04%	66.72%	4.43%	2.9%	0.17%	0.02%	0.54%	3.18%
060	59,709	198	0.33%	45,490	76.19%	28.09%	61.3%	5.11%	2.17%	0.18%	0.05%	0.43%	2.67%
061	59,302	-209	-0.35%	45,447	76.64%	16.75%	71.33%	7.61%	0.97%	0.17%	0.05%	0.51%	2.6%
062	59,450	-61	-0.10%	46,426	78.09%	19.07%	69.19%	6.83%	1.3%	0.21%	0.05%	0.47%	2.88%
063	59,381	-130	-0.22%	45,043	75.85%	19.22%	66.7%	9.26%	1.54%	0.21%	0.04%	0.47%	2.56%
064	58,986	-525	-0.88%	44,189	74.91%	57.83%	28.63%	7.44%	1.41%	0.3%	0.04%	0.7%	3.67%
065	59,464	-47	-0.08%	44,386	74.64%	31.46%	59.19%	4.53%	1.15%	0.19%	0.05%	0.51%	2.92%
066	59,047	-464	-0.78%	44,278	74.99%	33.93%	50.39%	9.49%	1.86%	0.26%	0.08%	0.63%	3.36%
067	59,135	-376	-0.63%	44,299	74.91%	30.86%	56.59%	7.75%	1.39%	0.19%	0.03%	0.49%	2.7%
068	59,477	-34	-0.06%	44,835	75.38%	33.94%	53.42%	6.33%	2.77%	0.14%	0.05%	0.63%	2.72%
069	58,682	-829	-1.39%	45,548	77.62%	26.89%	60.9%	5.42%	3.12%	0.18%	0.04%	0.78%	2.68%
070	59,121	-390	-0.66%	45,249	76.54%	59.69%	26.23%	7.96%	2.23%	0.22%	0.06%	0.4%	3.22%
071	59,538	27	0.05%	44,582	74.88%	69.8%	18.45%	6.18%	1.01%	0.24%	0.02%	0.42%	3.88%

Population Summary

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District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH18+_Wht]	[% NH18+_Blk]	[% H18+_Pop]	[% NH18+_Asn]	[% NH18+_Ind]	[% NH18+_Hwn]	[% NH18+_Oth]	[% NH18+_2+ Races]
072	59,660	149	0.25%	46,229	77.49%	69.24%	19.51%	6.94%	0.93%	0.19%	0.02%	0.23%	2.94%
073	60,036	525	0.88%	45,736	76.18%	72.58%	10.84%	7.05%	5.58%	0.14%	0.03%	0.4%	3.38%
074	58,956	-555	-0.93%	44,696	75.81%	64.44%	24%	5.55%	2.04%	0.21%	0.02%	0.47%	3.26%
075	59,743	232	0.39%	43,850	73.4%	11.27%	71.04%	11.28%	2.93%	0.18%	0.07%	0.66%	2.57%
076	59,759	248	0.42%	44,371	74.25%	10.51%	64.4%	13.23%	8.69%	0.21%	0.05%	0.51%	2.41%
077	59,242	-269	-0.45%	44,207	74.62%	7.58%	73.27%	12.2%	4.36%	0.23%	0.06%	0.41%	1.9%
078	59,044	-467	-0.78%	44,572	75.49%	15.05%	68.35%	8.89%	4.21%	0.2%	0.03%	0.63%	2.63%
079	59,500	-11	-0.02%	43,223	72.64%	7.15%	68.44%	16.03%	5.51%	0.2%	0.01%	0.56%	2.09%
080	59,461	-50	-0.08%	44,784	75.32%	47.63%	12.45%	23.12%	13.33%	0.07%	0.04%	0.56%	2.79%
081	59,007	-504	-0.85%	46,259	78.4%	47.01%	19.77%	20.92%	8.71%	0.14%	0.01%	0.46%	2.98%
082	59,724	213	0.36%	50,238	84.12%	62.46%	15.19%	6.79%	11.35%	0.11%	0.04%	0.56%	3.51%
083	59,416	-95	-0.16%	46,581	78.4%	47.9%	13.51%	28.47%	6.91%	0.1%	0.02%	0.55%	2.55%
084	59,862	351	0.59%	47,350	79.1%	21.29%	70.47%	2.96%	1.48%	0.16%	0.02%	0.55%	3.07%
085	59,373	-138	-0.23%	46,308	78%	19.48%	59.85%	5.92%	10.8%	0.21%	0.02%	0.57%	3.14%
086	59,205	-306	-0.51%	44,614	75.36%	12.08%	72.02%	4.29%	7.95%	0.15%	0.01%	0.65%	2.84%
087	59,709	198	0.33%	45,615	76.4%	13.5%	69.72%	6.69%	6.22%	0.24%	0.02%	0.64%	2.97%
088	59,689	178	0.30%	46,073	77.19%	18.3%	60.15%	9.97%	7.64%	0.22%	0.07%	0.64%	3.01%
089	59,866	355	0.60%	46,198	77.17%	31.07%	60.06%	3.42%	1.92%	0.15%	0.03%	0.41%	2.93%
090	59,812	301	0.51%	48,015	80.28%	33.98%	56.05%	4.26%	1.82%	0.12%	0.03%	0.53%	3.2%
091	60,050	539	0.91%	46,173	76.89%	22%	67.15%	5.86%	1.44%	0.15%	0.05%	0.49%	2.86%
092	60,273	762	1.28%	46,551	77.23%	24.05%	65.71%	4.68%	1.67%	0.17%	0.03%	0.61%	3.08%
093	60,118	607	1.02%	44,734	74.41%	22.91%	62.36%	9.58%	1.48%	0.17%	0.09%	0.61%	2.81%
094	59,211	-300	-0.50%	44,809	75.68%	18.42%	65.61%	7.29%	4.85%	0.19%	0.02%	0.54%	3.07%
095	60,030	519	0.87%	44,948	74.88%	21.83%	63.61%	7.94%	2.43%	0.22%	0.04%	0.67%	3.27%
096	59,515	4	0.01%	44,671	75.06%	20.32%	20.75%	36.03%	19.7%	0.11%	0.04%	0.6%	2.44%
097	59,072	-439	-0.74%	46,339	78.44%	36.44%	24.16%	19.23%	16.07%	0.19%	0.05%	0.6%	3.25%
098	59,998	487	0.82%	42,734	71.23%	11.66%	20.91%	52.77%	12.28%	0.12%	0.05%	0.51%	1.71%
099	59,850	339	0.57%	45,004	75.19%	42.1%	13.07%	8.67%	32.63%	0.13%	0.04%	0.48%	2.89%
100	60,030	519	0.87%	42,669	71.08%	59.05%	8.86%	9.98%	18.41%	0.19%	0.06%	0.43%	3.02%
101	59,938	427	0.72%	46,584	77.72%	40.14%	21.87%	18.24%	15.98%	0.16%	0.05%	0.54%	3.02%
102	58,959	-552	-0.93%	42,968	72.88%	30.65%	34.79%	21.34%	9.57%	0.2%	0.03%	0.52%	2.89%
103	60,197	686	1.15%	44,399	73.76%	52.42%	15.01%	16.89%	12.19%	0.12%	0.03%	0.5%	2.83%
104	59,362	-149	-0.25%	43,306	72.95%	62.96%	15.44%	11.14%	6.38%	0.18%	0.05%	0.51%	3.34%
105	59,344	-167	-0.28%	43,474	73.26%	41.74%	26.67%	16.76%	11.05%	0.1%	0.03%	0.54%	3.12%
106	59,112	-399	-0.67%	43,890	74.25%	41.22%	33.7%	11.14%	9.73%	0.16%	0.03%	0.74%	3.28%
107	59,702	191	0.32%	44,509	74.55%	21.96%	27.02%	31.09%	16.75%	0.18%	0.04%	0.56%	2.4%
108	59,577	66	0.11%	44,308	74.37%	43.36%	16.55%	18.16%	18.34%	0.18%	0.04%	0.53%	2.84%
109	59,630	119	0.20%	44,140	74.02%	15.44%	29.65%	36.12%	15.82%	0.12%	0.06%	0.55%	2.25%
110	59,951	440	0.74%	43,226	72.1%	36.58%	44.02%	10.49%	4.72%	0.18%	0.04%	0.72%	3.25%
111	60,009	498	0.84%	44,096	73.48%	64%	20.56%	8.84%	2.56%	0.2%	0.04%	0.64%	3.17%
112	59,349	-162	-0.27%	45,120	76.02%	73.73%	18.26%	3.28%	1.26%	0.22%	0.02%	0.41%	2.81%
113	60,053	542	0.91%	44,538	74.16%	31.8%	56.48%	6.65%	0.83%	0.15%	0.11%	0.59%	3.39%
114	59,867	356	0.60%	45,872	76.62%	68.84%	23.42%	3.73%	0.71%	0.18%	0.01%	0.35%	2.76%

Population Summary

House-prop1-2021

District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH18+_Wht]	[% NH18+_Blk]	[% H18+_Pop]	[% NH18+_Asn]	[% NH18+_Ind]	[% NH18+_Hwn]	[% NH18+_Oth]	[% NH18+_2+ Races]
115	60,174	663	1.11%	44,807	74.46%	36.95%	49.2%	6.97%	2.68%	0.2%	0.05%	0.69%	3.26%
116	59,913	402	0.68%	45,791	76.43%	27.22%	54.93%	7.29%	6.48%	0.19%	0.09%	0.74%	3.05%
117	60,130	619	1.04%	44,973	74.79%	54.5%	34.54%	5.44%	1.54%	0.19%	0.04%	0.52%	3.22%
118	59,987	476	0.80%	46,342	77.25%	69.73%	22.7%	3.68%	0.42%	0.2%	0.02%	0.39%	2.85%
119	58,947	-564	-0.95%	44,005	74.65%	69.8%	12.31%	10.44%	3.75%	0.17%	0.02%	0.43%	3.08%
120	58,982	-529	-0.89%	46,767	79.29%	71.94%	13.21%	7.09%	4.18%	0.16%	0.05%	0.44%	2.91%
121	59,127	-384	-0.65%	46,598	78.81%	76.13%	8.6%	5.57%	5.84%	0.1%	0%	0.46%	3.3%
122	59,632	121	0.20%	48,840	81.9%	54.8%	27.13%	11.7%	2.41%	0.32%	0.06%	0.79%	2.79%
123	59,282	-229	-0.38%	46,572	78.56%	68.06%	23.42%	4.31%	1.06%	0.19%	0.02%	0.2%	2.75%
124	59,221	-290	-0.49%	47,638	80.44%	65.01%	24.61%	6.17%	1.08%	0.19%	0.02%	0.31%	2.61%
125	60,137	626	1.05%	43,812	72.85%	63.03%	21.43%	7.66%	2.6%	0.31%	0.16%	0.39%	4.41%
126	59,260	-251	-0.42%	45,497	76.78%	39.97%	52.63%	3.17%	0.89%	0.29%	0.16%	0.29%	2.62%
127	58,678	-833	-1.40%	45,889	78.2%	68.13%	16.88%	68.13%	5.68%	0.19%	0.16%	0.43%	3.77%
128	58,864	-647	-1.09%	46,488	78.98%	46.49%	49.38%	1.7%	0.35%	0.19%	0.01%	0.17%	1.71%
129	58,829	-682	-1.15%	46,873	79.68%	37.16%	52.33%	4.26%	2.4%	0.19%	0.15%	0.41%	3.1%
130	59,203	-308	-0.52%	44,019	74.35%	33.74%	57.69%	3.86%	0.97%	0.26%	0.19%	0.34%	2.95%
131	58,890	-621	-1.04%	42,968	72.96%	68.16%	15.87%	5.87%	5.21%	0.21%	0.1%	0.55%	4.03%
132	59,142	-369	-0.62%	46,752	79.05%	35.63%	49.82%	7.8%	2.74%	0.27%	0.16%	0.3%	3.28%
133	59,202	-309	-0.52%	47,222	79.76%	58.39%	35.87%	2.15%	1.15%	0.15%	0.04%	0.36%	1.89%
134	59,396	-115	-0.19%	45,110	75.95%	59.9%	32.37%	3.74%	0.81%	0.23%	0.02%	0.25%	2.69%
135	60,063	552	0.93%	46,725	77.79%	71.78%	22.84%	1.82%	0.55%	0.16%	0.01%	0.25%	2.57%
136	59,298	-213	-0.36%	45,367	76.51%	63.9%	27.76%	3.64%	1.55%	0.26%	0.04%	0.29%	2.55%
137	59,551	40	0.07%	45,358	76.17%	40.82%	50.02%	4.48%	1.73%	0.12%	0.12%	0.26%	2.44%
138	58,912	-599	-1.01%	45,684	77.55%	72.34%	18.26%	3.31%	2.43%	0.26%	0.07%	0.35%	2.97%
139	59,010	-501	-0.84%	45,522	77.14%	66.19%	18.56%	6.36%	3.89%	0.25%	0.24%	0.46%	4.04%
140	59,294	-217	-0.36%	44,411	74.9%	31.7%	54.74%	8.02%	1.17%	0.24%	0.2%	0.49%	3.43%
141	59,019	-492	-0.83%	44,677	75.7%	31.77%	54.65%	6.55%	2.69%	0.27%	0.3%	0.38%	3.38%
142	59,608	97	0.16%	44,584	74.8%	34.8%	57.42%	3.7%	1.4%	0.17%	0.02%	0.28%	2.2%
143	59,469	-42	-0.07%	46,390	78.01%	32.28%	58.98%	4.67%	1.07%	0.21%	0.05%	0.3%	2.44%
144	59,232	-279	-0.47%	46,370	78.29%	62.95%	28.34%	2.55%	3.45%	0.14%	0.02%	0.26%	2.29%
145	59,863	352	0.59%	45,844	76.58%	55.12%	33.97%	5.94%	0.99%	0.33%	0.03%	0.3%	3.32%
146	60,203	692	1.16%	44,589	74.06%	61.84%	26.08%	4.73%	2.98%	0.18%	0.09%	0.39%	3.71%
147	59,178	-333	-0.56%	44,902	75.88%	55.32%	28.41%	7.17%	4.85%	0.25%	0.07%	0.41%	3.52%
148	59,984	473	0.79%	46,614	77.71%	60.45%	33.11%	3.08%	0.87%	0.14%	0.04%	0.21%	2.1%
149	58,893	-618	-1.04%	46,821	79.5%	60.99%	30.75%	5.69%	0.57%	0.19%	0.04%	0.14%	1.63%
150	59,276	-235	-0.39%	47,050	79.37%	38.31%	52.5%	6.13%	1.18%	0.16%	0.03%	0.15%	1.54%
151	60,059	548	0.92%	46,973	78.21%	47.2%	40.96%	7.28%	1.43%	0.18%	0.18%	0.19%	2.58%
152	60,134	623	1.05%	46,026	76.54%	67.94%	25.26%	2.34%	1.52%	0.24%	0.04%	0.19%	2.46%
153	59,299	-212	-0.36%	45,692	77.05%	27.66%	66.38%	2.55%	1%	0.16%	0.03%	0.23%	2.01%
154	59,994	483	0.81%	47,273	78.8%	42.24%	53.68%	1.67%	0.36%	0.19%	0%	0.16%	1.7%
155	58,759	-752	-1.26%	45,208	76.94%	59.77%	34.6%	2.22%	0.95%	0.16%	0.04%	0.21%	2.05%
156	59,444	-67	-0.11%	45,867	77.16%	60.92%	29.32%	6.88%	0.62%	0.16%	0.01%	0.15%	1.93%
157	59,957	446	0.75%	45,311	75.57%	64.48%	23.7%	8.96%	0.57%	0.17%	0.04%	0.16%	1.93%

Population Summary

House-prop1-2021

District	Population	Deviation	% Devn.	[18+_Pop]	[% 18+_Pop]	[% NH18+_Wht]	[% NH18+_Blk]	[% H18+_Pop]	[% NH18+_Asn]	[% NH18+_Ind]	[% NH18+_Hwn]	[% NH18+_Oth]	[% NH18+_2+ Races]
158	59,440	-71	-0.12%	45,549	76.63%	62.21%	30.2%	4.52%	0.71%	0.21%	0.03%	0.18%	1.93%
159	59,895	384	0.65%	44,871	74.92%	69.39%	23.44%	2.87%	0.57%	0.31%	0.04%	0.26%	3.12%
160	59,935	424	0.71%	48,057	80.18%	68.48%	21.07%	5.04%	1.64%	0.24%	0.09%	0.27%	3.17%
161	60,097	586	0.98%	44,371	73.83%	60.16%	25.26%	6.82%	3.16%	0.25%	0.09%	0.48%	3.77%
162	60,308	797	1.34%	46,733	77.49%	40.62%	41.13%	9.58%	4.16%	0.22%	0.24%	0.44%	3.61%
163	60,123	612	1.03%	48,461	80.6%	41.92%	43.78%	7.38%	3.6%	0.2%	0.1%	0.33%	2.68%
164	60,101	590	0.99%	45,851	76.29%	60.61%	21.43%	8.49%	4.37%	0.26%	0.12%	0.6%	4.12%
165	59,978	467	0.78%	48,247	80.44%	39.18%	48.49%	5.33%	3.68%	0.25%	0.14%	0.35%	2.57%
166	60,242	731	1.23%	47,580	78.98%	84.71%	4.96%	4.07%	2.69%	0.18%	0.05%	0.36%	2.97%
167	59,493	-18	-0.03%	44,140	74.19%	65.96%	20.55%	7.41%	1.48%	0.39%	0.18%	0.39%	3.66%
168	60,147	636	1.07%	44,867	74.6%	39.29%	42.28%	10.3%	2.32%	0.33%	0.65%	0.38%	4.46%
169	59,138	-373	-0.63%	45,267	76.54%	60.95%	28.12%	7.66%	0.88%	0.14%	0.03%	0.16%	2.06%
170	60,116	605	1.02%	45,316	75.38%	64.17%	23.21%	8.65%	1.19%	0.12%	0.02%	0.25%	2.38%
171	59,237	-274	-0.46%	45,969	77.6%	53.85%	38.58%	4.63%	0.56%	0.24%	0.02%	0.17%	1.95%
172	59,961	450	0.76%	44,756	74.64%	61.03%	22.46%	13.42%	0.78%	0.23%	0.03%	0.19%	1.87%
173	59,743	232	0.39%	45,292	75.81%	55.68%	35.18%	5.35%	0.84%	0.37%	0.02%	0.26%	2.31%
174	59,852	341	0.57%	45,760	76.46%	72.25%	16.08%	7.96%	0.52%	0.38%	0.03%	0.15%	2.64%
175	59,993	482	0.81%	44,704	74.52%	66.49%	23.13%	5.03%	1.85%	0.28%	0.06%	0.3%	2.86%
176	59,470	-41	-0.07%	44,991	75.65%	66.15%	21.61%	8.24%	0.96%	0.25%	0.1%	0.19%	2.49%
177	59,992	481	0.81%	46,014	76.7%	37.12%	51.68%	6.12%	1.36%	0.24%	0.08%	0.36%	3.04%
178	59,877	366	0.62%	45,638	76.22%	77.79%	13.99%	5.14%	0.54%	0.2%	0.01%	0.23%	2.09%
179	59,356	-155	-0.26%	47,156	79.45%	63.69%	25.74%	6.38%	1.07%	0.15%	0.11%	0.34%	2.51%
180	59,412	-99	-0.17%	45,362	76.35%	71.17%	16.63%	5.62%	1.67%	0.31%	0.11%	0.47%	4.02%

Total: 10,711,908
Ideal District: 59,511

The preceding report, published by the Georgia General Assembly, does not include statistics for the percentage of the voting age population that is “Black or African American alone or in combination,” also known as the “any part Black voting age population” percentage or “APBVAP%.” As these percentages are relevant for determining which House districts can be considered majority-Black under the conventions used in the expert report, I have provided them below after having exported a listing from the *Maptitude for Redistricting* software.

District	APBVAP%	District	APBVAP%	District	APBVAP%	District	APBVAP%	District	APBVAP%
1	4.20%	25	5.90%	49	8.42%	73	12.11%	97	26.77%
2	3.15%	26	4.01%	50	12.40%	74	25.52%	98	23.25%
3	3.35%	27	3.69%	51	23.68%	75	74.40%	99	14.71%
4	5.38%	28	3.93%	52	15.99%	76	67.23%	100	10.01%
5	4.60%	29	13.59%	53	14.53%	77	76.13%	101	24.19%
6	1.51%	30	8.10%	54	15.47%	78	71.58%	102	37.62%
7	0.62%	31	7.57%	55	55.38%	79	71.59%	103	16.79%
8	1.43%	32	7.96%	56	45.48%	80	14.18%	104	17.03%
9	1.57%	33	11.20%	57	18.06%	81	21.83%	105	29.05%
10	3.73%	34	15.67%	58	63.04%	82	16.83%	106	36.27%
11	1.85%	35	28.40%	59	70.09%	83	15.12%	107	29.63%
12	9.68%	36	16.98%	60	63.88%	84	73.66%	108	18.35%
13	19.18%	37	28.18%	61	74.29%	85	62.71%	109	32.51%
14	6.85%	38	54.23%	62	72.26%	86	75.05%	110	47.19%
15	14.19%	39	55.29%	63	69.33%	87	73.08%	111	22.29%
16	11.69%	40	32.98%	64	30.72%	88	63.35%	112	19.21%
17	23.02%	41	39.35%	65	61.98%	89	62.54%	113	59.53%
18	7.98%	42	33.70%	66	53.41%	90	58.49%	114	24.74%
19	24.15%	43	26.53%	67	58.92%	91	70.04%	115	52.13%
20	9.25%	44	12.05%	68	55.75%	92	68.79%	116	58.13%
21	5.06%	45	5.28%	69	63.56%	93	65.36%	117	36.61%
22	15.10%	46	8.07%	70	27.83%	94	69.04%	118	23.60%
23	6.50%	47	10.72%	71	19.92%	95	67.15%	119	13.49%
24	7.00%	48	11.79%	72	20.86%	96	23.00%	120	14.28%

(Table continues on following page.)

(Cont.)

District	APBVAP%	District	APBVAP%	District	APBVAP%	District	APBVAP%	District	APBVAP%
121	9.56%	133	36.76%	145	35.67%	157	24.67%	169	29.04%
122	28.42%	134	33.57%	146	27.61%	158	31.20%	170	24.22%
123	24.28%	135	23.75%	147	30.12%	159	24.50%	171	39.60%
124	25.58%	136	28.67%	148	34.02%	160	22.60%	172	23.32%
125	23.68%	137	52.13%	149	32.15%	161	27.14%	173	36.27%
126	54.47%	138	19.32%	150	53.56%	162	43.73%	174	17.37%
127	18.52%	139	20.27%	151	42.41%	163	45.49%	175	24.17%
128	50.41%	140	57.63%	152	26.06%	164	23.47%	176	22.68%
129	54.87%	141	57.46%	153	67.95%	165	50.33%	177	53.88%
130	59.91%	142	59.52%	154	54.82%	166	5.67%	178	14.79%
131	17.62%	143	60.79%	155	35.85%	167	22.28%	179	27.03%
132	52.34%	144	29.33%	156	30.25%	168	46.26%	180	18.21%

Esselstyn Report: Attachment J

District	Population	Deviation	% Deviation	% single-race American Indian			% single-race Native Hawaiian			% multi-racial (total pop)	% Hispanic or Latino (total pop)	% Black alone or in combination (total pop)	% Black alone or in combination (voting age pop)
				% single-race White (total pop)	% single-race Black (total pop)	Alaska Native (total pop)	% single-race Asian (total pop)	Pacific Islander (total pop)	% single-race Other (total pop)				
1	59,666	155	0.26%	88.62%	3.94%	0.41%	0.54%	0.06%	1.12%	5.32%	2.59%	5.09%	4.20%
2	59,773	262	0.44%	85.43%	2.68%	0.43%	1.12%	0.02%	3.69%	6.63%	9.09%	3.64%	3.15%
3	60,199	688	1.16%	87.87%	2.90%	0.36%	1.64%	0.14%	1.40%	5.69%	3.60%	4.09%	3.35%
4	59,070	-441	-0.74%	51.31%	4.41%	2.94%	1.27%	0.04%	25.56%	14.47%	50.07%	5.53%	5.38%
5	58,837	-674	-1.13%	78.57%	3.88%	0.60%	1.24%	0.03%	7.79%	7.90%	15.29%	5.24%	4.60%
6	59,712	201	0.34%	83.29%	1.07%	1.22%	0.53%	0.02%	6.80%	7.06%	14.51%	1.88%	1.51%
7	59,081	-430	-0.72%	89.34%	0.40%	0.61%	0.47%	0.02%	4.07%	5.09%	7.43%	0.87%	0.62%
8	59,244	-267	-0.45%	91.67%	1.16%	0.38%	0.55%	0.01%	1.22%	5.01%	3.21%	1.73%	1.43%
9	59,474	-37	-0.06%	89.17%	1.05%	0.49%	0.79%	0.06%	2.17%	6.27%	5.49%	1.79%	1.57%
10	59,519	8	0.01%	81.72%	3.03%	0.47%	1.53%	0.06%	5.51%	7.68%	13.11%	3.84%	3.73%
11	58,792	-719	-1.21%	88.57%	1.61%	0.37%	1.16%	0.03%	1.98%	6.28%	5.33%	2.35%	1.85%
12	59,300	-211	-0.35%	79.74%	8.68%	0.52%	1.01%	0.01%	4.44%	5.61%	7.68%	10.20%	9.68%
13	59,150	-361	-0.61%	64.15%	18.92%	0.81%	1.29%	0.03%	6.65%	8.15%	13.52%	20.65%	19.18%
14	59,135	-376	-0.63%	83.05%	5.98%	0.34%	0.79%	0.03%	3.25%	6.56%	7.04%	7.34%	6.85%
15	59,213	-298	-0.50%	70.65%	13.85%	0.55%	1.31%	0.05%	6.05%	7.56%	11.74%	15.79%	14.19%
16	59,402	-109	-0.18%	75.06%	11.36%	0.61%	0.77%	0.06%	6.25%	5.89%	10.95%	12.76%	11.69%
17	59,120	-391	-0.66%	65.08%	22.54%	0.36%	1.34%	0.08%	2.97%	7.63%	7.90%	25.01%	23.02%
18	59,335	-176	-0.30%	85.62%	7.19%	0.28%	0.61%	0.04%	1.30%	4.96%	2.93%	8.63%	7.98%
19	58,955	-556	-0.93%	63.74%	23.95%	0.39%	1.17%	0.09%	3.33%	7.34%	7.87%	26.38%	24.15%
20	60,107	596	1.00%	76.19%	8.34%	0.31%	2.01%	0.04%	3.95%	9.16%	10.60%	9.94%	9.25%
21	59,529	18	0.03%	81.93%	4.37%	0.38%	1.86%	0.05%	2.97%	8.44%	8.54%	5.63%	5.06%
22	59,460	-51	-0.09%	65.22%	14.31%	0.44%	3.90%	0.04%	5.20%	10.90%	13.26%	16.63%	15.10%
23	59,048	-463	-0.78%	75.17%	5.81%	1.01%	1.08%	0.05%	7.59%	9.29%	17.19%	7.20%	6.50%
24	59,011	-500	-0.84%	61.94%	6.14%	0.45%	17.71%	0.04%	4.82%	8.90%	11.36%	7.31%	7.00%
25	59,414	-97	-0.16%	53.10%	5.06%	0.19%	33.57%	0.03%	1.50%	6.55%	5.42%	6.07%	5.90%
26	59,248	-263	-0.44%	65.34%	3.41%	0.50%	16.82%	0.05%	5.34%	8.54%	12.07%	4.47%	4.01%
27	58,795	-716	-1.20%	82.10%	3.31%	0.44%	0.84%	0.04%	5.55%	7.72%	11.82%	4.40%	3.69%
28	58,972	-539	-0.91%	79.07%	3.49%	0.53%	2.09%	0.03%	5.99%	8.79%	13.59%	4.55%	3.93%
29	59,200	-311	-0.52%	43.92%	12.45%	1.40%	2.77%	0.07%	25.34%	14.04%	46.28%	13.74%	13.59%
30	59,266	-245	-0.41%	70.51%	7.56%	0.49%	3.06%	0.04%	8.72%	9.63%	18.78%	8.75%	8.10%
31	59,901	390	0.66%	69.79%	6.83%	0.61%	2.33%	0.04%	10.78%	9.61%	21.63%	7.96%	7.57%
32	59,145	-366	-0.62%	82.12%	7.33%	0.48%	1.28%	0.07%	2.88%	5.84%	6.03%	8.88%	7.96%
33	59,187	-324	-0.54%	80.79%	11.02%	0.21%	1.20%	0.02%	2.22%	4.54%	4.08%	12.37%	11.20%
34	59,875	364	0.61%	68.37%	14.73%	0.32%	4.45%	0.04%	3.38%	8.70%	9.06%	16.87%	15.67%
35	59,889	378	0.64%	52.51%	27.13%	0.48%	4.49%	0.05%	5.14%	10.20%	12.70%	30.41%	28.40%
36	59,994	483	0.81%	69.47%	16.26%	0.25%	3.10%	0.05%	2.80%	8.08%	7.46%	18.43%	16.98%

District	Population	Deviation	% Deviation	% single-race American Indian			% single-race Native Hawaiian			% multi-racial (total pop)	% Hispanic or Latino (total pop)	% Black alone or in combination (voting age pop)	
				% single-race White (total pop)	% single-race Black (total pop)	Alaska Native (total pop)	% single-race Asian (total pop)	Pacific Islander (total pop)	% single-race Other (total pop)				
37	59,176	-335	-0.56%	45.62%	26.57%	0.99%	4.53%	0.06%	11.93%	10.30%	21.96%	29.02%	28.18%
38	59,317	-194	-0.33%	27.97%	53.68%	0.59%	1.80%	0.09%	7.72%	8.15%	14.72%	56.91%	54.23%
39	59,381	-130	-0.22%	22.83%	52.84%	0.79%	1.53%	0.04%	12.96%	9.01%	21.79%	55.60%	55.29%
40	59,044	-467	-0.78%	50.09%	31.39%	0.25%	8.59%	0.03%	2.33%	7.32%	6.43%	34.18%	32.98%
41	60,122	611	1.03%	29.51%	37.00%	1.11%	2.85%	0.06%	16.74%	12.72%	33.22%	39.66%	39.35%
42	59,620	109	0.18%	38.93%	31.87%	0.61%	7.17%	0.05%	10.28%	11.09%	20.49%	34.76%	33.70%
43	59,464	-47	-0.08%	45.84%	24.83%	0.92%	7.85%	0.10%	9.01%	11.45%	15.85%	27.49%	26.53%
44	60,002	491	0.83%	66.91%	11.23%	0.41%	5.74%	0.04%	5.13%	10.53%	11.99%	13.32%	12.05%
45	59,738	227	0.38%	73.40%	4.24%	0.15%	12.96%	0.02%	1.48%	7.75%	5.50%	5.53%	5.28%
46	59,108	-403	-0.68%	74.02%	6.93%	0.26%	6.95%	0.04%	2.77%	9.03%	8.24%	8.59%	8.07%
47	59,126	-385	-0.65%	63.20%	9.59%	0.31%	15.95%	0.03%	2.72%	8.19%	7.83%	11.15%	10.72%
48	59,003	-508	-0.85%	60.96%	10.38%	0.43%	11.79%	0.06%	6.20%	10.18%	14.10%	12.23%	11.79%
49	59,153	-358	-0.60%	70.45%	7.33%	0.17%	11.43%	0.03%	2.42%	8.17%	7.56%	8.85%	8.42%
50	59,523	12	0.02%	42.70%	11.30%	0.14%	35.51%	0.04%	2.70%	7.60%	7.06%	13.04%	12.40%
51	58,952	-559	-0.94%	53.22%	22.42%	0.44%	5.86%	0.05%	7.50%	10.50%	15.47%	25.05%	23.68%
52	59,811	300	0.50%	55.20%	13.94%	0.30%	19.75%	0.06%	3.11%	7.64%	7.98%	15.82%	15.99%
53	59,953	442	0.74%	71.67%	12.59%	0.20%	4.49%	0.03%	3.08%	7.94%	8.20%	14.49%	14.53%
54	60,083	572	0.96%	62.88%	13.25%	0.42%	6.56%	0.05%	7.69%	9.16%	15.17%	15.06%	15.47%
55	59,971	460	0.77%	34.75%	55.03%	0.28%	2.88%	0.05%	2.12%	4.90%	5.14%	57.32%	55.38%
56	58,929	-582	-0.98%	35.60%	46.85%	0.24%	9.36%	0.08%	1.88%	5.99%	5.81%	49.24%	45.48%
57	59,969	458	0.77%	64.40%	15.89%	0.36%	7.63%	0.03%	3.92%	7.76%	8.83%	17.83%	18.06%
58	59,057	-454	-0.76%	26.52%	63.71%	0.23%	2.79%	0.04%	1.78%	4.93%	5.03%	66.10%	63.04%
59	59,434	-77	-0.13%	20.24%	70.27%	0.26%	2.54%	0.03%	1.60%	5.07%	4.45%	73.14%	70.09%
60	59,709	198	0.33%	27.39%	62.26%	0.35%	2.05%	0.05%	2.94%	4.95%	5.87%	64.58%	63.88%
61	58,950	-561	-0.94%	34.98%	52.47%	0.42%	1.40%	0.05%	4.25%	6.44%	8.36%	55.51%	53.49%
62	59,450	-61	-0.10%	18.14%	70.86%	0.38%	1.16%	0.06%	4.11%	5.29%	7.61%	73.56%	72.26%
63	59,381	-130	-0.22%	18.46%	68.64%	0.56%	1.36%	0.05%	5.60%	5.33%	10.42%	70.98%	69.33%
64	59,648	137	0.23%	36.92%	48.40%	0.45%	1.04%	0.09%	5.96%	7.14%	11.25%	51.05%	50.24%
65	59,240	-271	-0.46%	30.99%	61.67%	0.27%	0.81%	0.04%	1.62%	4.59%	3.70%	64.10%	63.34%
66	58,961	-550	-0.92%	31.21%	53.46%	0.47%	1.86%	0.10%	5.44%	7.46%	10.88%	56.82%	53.88%
67	59,135	-376	-0.63%	30.47%	57.71%	0.33%	1.31%	0.03%	4.63%	5.52%	8.71%	59.93%	58.92%
68	59,477	-34	-0.06%	32.13%	55.20%	0.33%	2.82%	0.05%	3.68%	5.78%	7.30%	57.48%	55.75%
69	58,358	-1,153	-1.94%	26.08%	61.75%	0.28%	2.95%	0.04%	3.29%	5.61%	6.42%	64.56%	62.73%
70	59,121	-390	-0.66%	58.14%	27.99%	0.40%	2.19%	0.05%	4.48%	6.75%	9.08%	30.02%	27.83%
71	59,538	27	0.05%	68.61%	19.16%	0.45%	0.98%	0.02%	3.53%	7.25%	7.44%	21.49%	19.92%
72	59,660	149	0.25%	68.83%	19.64%	0.38%	0.96%	0.03%	4.59%	5.58%	8.16%	21.43%	20.86%

District	Population	Deviation	% Deviation	% single-race American Indian			% single-race Native Hawaiian			% multi-racial (total pop)	% Hispanic or Latino (total pop)	% Black alone or in combination (voting age pop)	% Black alone or in combination (voting age pop)
				% single-race White (total pop)	% single-race Black (total pop)	% single-race Alaska Native (total pop)	% single-race Asian (total pop)	% single-race Pacific Islander (total pop)	% single-race Other (total pop)				
73	60,036	525	0.88%	71.55%	11.47%	0.30%	5.94%	0.04%	2.53%	8.17%	7.96%	13.10%	12.11%
74	58,418	-1,093	-1.84%	34.64%	52.32%	0.33%	2.41%	0.06%	4.25%	5.99%	8.22%	54.91%	53.94%
75	59,759	248	0.42%	14.87%	65.44%	0.59%	4.89%	0.07%	8.12%	6.03%	13.11%	68.43%	66.89%
76	59,759	248	0.42%	10.18%	64.99%	0.82%	8.16%	0.06%	9.45%	6.35%	15.61%	67.71%	67.23%
77	59,242	-269	-0.45%	7.77%	73.39%	0.59%	4.06%	0.08%	9.22%	4.89%	14.22%	75.90%	76.13%
78	59,890	379	0.64%	36.56%	51.33%	0.44%	1.69%	0.04%	3.94%	6.01%	8.29%	54.01%	51.03%
79	59,500	-11	-0.02%	7.56%	69.08%	0.94%	4.92%	0.03%	11.61%	5.87%	18.11%	71.79%	71.59%
80	59,461	-50	-0.08%	47.83%	12.00%	1.52%	13.08%	0.07%	15.40%	10.10%	26.17%	13.67%	14.18%
81	59,007	-504	-0.85%	47.01%	19.09%	1.27%	8.24%	0.03%	13.87%	10.49%	24.58%	21.16%	21.83%
82	59,724	213	0.36%	63.25%	14.66%	0.28%	11.08%	0.03%	2.93%	7.77%	7.52%	16.35%	16.83%
83	59,416	-95	-0.16%	47.55%	12.45%	1.70%	6.34%	0.03%	21.02%	10.92%	33.75%	14.01%	15.12%
84	59,862	351	0.59%	21.61%	70.46%	0.19%	1.44%	0.03%	1.26%	5.01%	3.40%	73.35%	73.66%
85	59,373	-138	-0.23%	18.61%	60.90%	0.38%	12.33%	0.03%	2.65%	5.11%	5.99%	63.41%	62.71%
86	59,205	-306	-0.51%	11.04%	72.44%	0.30%	9.07%	0.02%	2.71%	4.42%	4.64%	75.09%	75.05%
87	59,709	198	0.33%	12.16%	70.92%	0.41%	6.49%	0.02%	4.81%	5.20%	7.73%	74.02%	73.08%
88	59,689	178	0.30%	17.17%	61.41%	0.65%	7.51%	0.07%	6.54%	6.65%	11.46%	64.53%	63.35%
89	59,866	355	0.60%	31.03%	60.27%	0.22%	1.80%	0.03%	1.37%	5.29%	3.80%	62.63%	62.54%
90	59,812	301	0.51%	32.92%	57.69%	0.24%	1.62%	0.04%	1.83%	5.67%	4.65%	60.13%	58.49%
91	59,956	445	0.75%	32.76%	58.67%	0.24%	1.19%	0.03%	2.03%	5.07%	4.42%	61.23%	60.01%
92	60,273	762	1.28%	21.57%	68.31%	0.24%	1.59%	0.04%	2.99%	5.27%	5.49%	71.31%	68.79%
93	60,118	607	1.02%	21.33%	64.04%	0.36%	1.34%	0.11%	6.56%	6.26%	11.24%	66.95%	65.36%
94	59,211	-300	-0.50%	17.43%	66.81%	0.45%	4.88%	0.03%	4.41%	5.99%	8.72%	69.91%	69.04%
95	60,030	519	0.87%	19.99%	65.91%	0.39%	2.30%	0.08%	4.61%	6.72%	9.32%	69.44%	67.15%
96	59,515	4	0.01%	21.85%	21.31%	1.48%	17.72%	0.08%	25.19%	12.37%	40.49%	23.47%	23.00%
97	59,072	-439	-0.74%	35.90%	25.79%	0.68%	15.07%	0.09%	11.43%	11.04%	21.86%	28.56%	26.77%
98	59,998	487	0.82%	15.89%	20.23%	2.15%	10.77%	0.10%	36.38%	14.49%	57.42%	22.14%	23.25%
99	59,850	339	0.57%	41.47%	13.80%	0.36%	32.56%	0.05%	3.65%	8.11%	9.52%	15.90%	14.71%
100	60,030	519	0.87%	57.78%	9.19%	0.42%	19.53%	0.06%	4.06%	8.96%	10.85%	10.66%	10.01%
101	59,938	427	0.72%	40.65%	22.90%	0.69%	15.32%	0.06%	8.64%	11.74%	20.17%	25.66%	24.19%
102	58,959	-552	-0.93%	29.76%	37.16%	0.98%	9.04%	0.04%	12.08%	10.94%	23.45%	40.20%	37.62%
103	60,197	686	1.15%	52.61%	15.52%	0.60%	11.76%	0.06%	8.69%	10.76%	19.06%	17.66%	16.79%
104	59,362	-149	-0.25%	62.99%	15.96%	0.40%	6.37%	0.05%	5.27%	8.95%	12.64%	18.10%	17.03%
105	59,344	-167	-0.28%	41.69%	28.45%	0.51%	10.63%	0.04%	7.83%	10.85%	18.10%	31.08%	29.05%
106	59,112	-399	-0.67%	38.57%	36.27%	0.61%	9.86%	0.06%	5.99%	8.65%	12.66%	39.28%	36.27%
107	59,702	191	0.32%	23.31%	28.16%	1.39%	15.52%	0.05%	18.46%	13.13%	34.49%	30.77%	29.63%
108	59,577	66	0.11%	41.71%	17.71%	0.93%	18.12%	0.04%	11.15%	10.35%	20.98%	20.05%	18.35%

District	Population	Deviation	% Deviation	% single-race American Indian			% single-race Native Hawaiian			% multi-racial (total pop)	% Hispanic or Latino (total pop)	% Black alone or in combination (voting age pop)	
				% single-race White (total pop)	% single-race Black (total pop)	Alaska Native (total pop)	% single-race Asian (total pop)	Pacific Islander (total pop)	% single-race Other (total pop)				
109	59,630	119	0.20%	18.29%	30.16%	1.16%	14.48%	0.07%	22.25%	13.59%	39.32%	32.86%	32.51%
110	59,951	440	0.74%	34.57%	46.58%	0.33%	4.53%	0.06%	5.00%	8.94%	11.87%	50.11%	47.19%
111	60,009	498	0.84%	62.34%	22.08%	0.40%	2.53%	0.07%	4.84%	7.75%	10.37%	24.28%	22.29%
112	59,349	-162	-0.27%	72.57%	19.06%	0.28%	1.28%	0.06%	1.89%	4.87%	4.00%	20.49%	19.21%
113	60,053	542	0.91%	30.11%	58.29%	0.30%	0.81%	0.14%	4.15%	6.21%	7.78%	61.62%	59.53%
114	59,867	356	0.60%	67.78%	24.16%	0.28%	0.71%	0.04%	2.21%	4.83%	4.53%	25.79%	24.74%
115	59,789	278	0.47%	30.02%	53.14%	0.46%	4.80%	0.06%	4.84%	6.70%	9.30%	56.23%	53.77%
116	60,380	869	1.46%	33.11%	52.02%	0.29%	4.57%	0.08%	3.53%	6.39%	7.80%	55.04%	51.95%
117	60,142	631	1.06%	36.94%	50.92%	0.30%	1.57%	0.06%	3.70%	6.51%	7.78%	53.97%	51.56%
118	59,987	476	0.80%	69.35%	22.72%	0.26%	0.45%	0.03%	1.99%	5.21%	4.50%	24.16%	23.60%
119	58,947	-564	-0.95%	69.24%	12.73%	0.46%	3.87%	0.03%	5.81%	7.87%	12.17%	14.47%	13.49%
120	58,982	-529	-0.89%	71.79%	13.65%	0.34%	4.08%	0.06%	3.79%	6.29%	8.42%	15.04%	14.28%
121	59,127	-384	-0.65%	76.66%	8.80%	0.18%	5.66%	0.01%	2.50%	6.19%	6.27%	9.96%	9.56%
122	59,632	121	0.20%	51.35%	30.85%	0.60%	2.17%	0.08%	8.43%	6.54%	13.78%	32.33%	28.42%
123	59,282	-229	-0.38%	67.02%	23.91%	0.30%	1.16%	0.03%	2.63%	4.94%	5.33%	25.32%	24.28%
124	59,221	-290	-0.49%	62.85%	26.19%	0.32%	1.15%	0.03%	3.77%	5.71%	7.57%	27.61%	25.58%
125	60,137	626	1.05%	62.06%	22.24%	0.45%	2.48%	0.22%	3.27%	9.29%	8.93%	25.37%	23.68%
126	59,260	-251	-0.42%	38.66%	54.30%	0.34%	0.76%	0.16%	1.55%	4.22%	3.63%	56.45%	54.47%
127	58,678	-833	-1.40%	67.34%	17.46%	0.27%	5.68%	0.18%	1.94%	7.13%	5.58%	19.67%	18.52%
128	58,864	-647	-1.09%	44.54%	51.11%	0.21%	0.36%	0.04%	0.81%	2.92%	1.91%	52.50%	50.41%
129	58,829	-682	-1.15%	34.71%	55.50%	0.31%	2.12%	0.15%	2.15%	5.05%	4.74%	58.21%	54.87%
130	59,203	-308	-0.52%	30.99%	60.84%	0.33%	0.82%	0.19%	1.93%	4.90%	4.33%	63.45%	59.91%
131	58,890	-621	-1.04%	67.43%	16.38%	0.29%	4.98%	0.17%	1.99%	8.77%	7.07%	18.92%	17.62%
132	59,142	-369	-0.62%	35.30%	52.48%	0.35%	2.42%	0.19%	3.20%	6.05%	7.91%	55.26%	52.34%
133	59,768	257	0.43%	68.72%	25.32%	0.16%	1.00%	0.03%	1.00%	3.77%	2.36%	26.58%	26.11%
134	59,046	-465	-0.78%	53.95%	38.20%	0.30%	0.75%	0.03%	1.98%	4.79%	4.33%	40.04%	37.41%
135	60,013	502	0.84%	74.82%	19.45%	0.24%	0.62%	0.01%	1.02%	3.84%	2.12%	20.68%	20.35%
136	59,298	-213	-0.36%	63.16%	28.15%	0.34%	1.55%	0.03%	2.06%	4.71%	4.40%	29.56%	28.67%
137	59,551	40	0.07%	39.25%	51.92%	0.19%	1.69%	0.14%	2.07%	4.75%	5.17%	54.16%	52.13%
138	58,912	-599	-1.01%	71.33%	18.92%	0.36%	2.41%	0.06%	1.57%	5.36%	4.10%	20.49%	19.32%
139	59,010	-501	-0.84%	65.30%	19.63%	0.39%	4.09%	0.22%	2.55%	7.82%	7.24%	21.77%	20.27%
140	59,294	-217	-0.36%	30.34%	56.56%	0.53%	1.06%	0.26%	4.45%	6.81%	9.04%	59.80%	57.63%
141	59,019	-492	-0.83%	30.98%	55.60%	0.36%	2.59%	0.33%	3.04%	7.10%	7.93%	58.90%	57.46%
142	59,320	-191	-0.32%	39.78%	51.89%	0.25%	2.27%	0.02%	2.32%	3.48%	4.22%	53.52%	50.14%
143	59,122	-389	-0.65%	38.76%	52.08%	0.21%	2.55%	0.04%	1.91%	4.44%	3.76%	54.15%	50.64%
144	58,533	-978	-1.64%	64.43%	24.36%	0.33%	2.88%	0.06%	1.91%	6.03%	5.04%	26.09%	24.94%

District	Population	Deviation	% Deviation	% single-race American Indian			% single-race Native Hawaiian			% multi-racial (total pop)	% Hispanic or Latino (total pop)	% Black alone or in combination (voting age pop)	% Black alone or in combination (voting age pop)
				% single-race White (total pop)	% single-race Black (total pop)	Alaska Native (total pop)	% single-race Asian (total pop)	Pacific Islander (total pop)	% single-race Other (total pop)				
145	59,668	157	0.26%	36.17%	51.16%	0.47%	1.19%	0.07%	4.44%	6.50%	8.64%	53.76%	50.38%
146	59,197	-314	-0.53%	67.39%	23.72%	0.21%	1.65%	0.08%	1.64%	5.31%	4.55%	25.26%	24.38%
147	58,567	-944	-1.59%	54.11%	30.64%	0.32%	3.95%	0.10%	3.34%	7.54%	7.61%	33.12%	30.55%
148	59,887	376	0.63%	56.80%	37.60%	0.18%	0.61%	0.03%	1.74%	3.04%	5.86%	38.90%	37.30%
149	59,392	-119	-0.20%	41.24%	52.64%	0.22%	0.77%	0.06%	1.87%	3.21%	2.88%	54.31%	51.53%
150	59,276	-235	-0.39%	37.15%	53.50%	0.30%	1.19%	0.05%	4.73%	3.08%	7.23%	54.77%	53.56%
151	60,059	548	0.92%	46.66%	42.45%	0.27%	1.32%	0.25%	4.52%	4.53%	7.51%	44.17%	42.41%
152	60,134	623	1.05%	66.75%	25.98%	0.27%	1.61%	0.05%	1.33%	4.01%	2.84%	27.20%	26.06%
153	59,299	-212	-0.36%	24.79%	69.44%	0.17%	0.92%	0.03%	1.68%	2.97%	2.93%	71.14%	67.95%
154	59,994	483	0.81%	39.90%	55.77%	0.19%	0.39%	0.02%	1.00%	2.72%	2.10%	57.13%	54.82%
155	60,134	623	1.05%	58.50%	35.73%	0.21%	0.90%	0.05%	1.41%	3.19%	2.65%	37.24%	35.23%
156	60,647	1,136	1.91%	60.55%	29.57%	0.37%	0.61%	0.01%	4.56%	4.33%	8.19%	30.89%	29.87%
157	59,957	446	0.75%	63.89%	23.82%	0.39%	0.56%	0.04%	6.64%	4.65%	11.19%	25.21%	24.67%
158	59,440	-71	-0.12%	60.33%	31.67%	0.27%	0.77%	0.03%	3.07%	3.86%	5.60%	33.07%	31.20%
159	59,895	384	0.65%	68.50%	24.02%	0.35%	0.54%	0.05%	1.54%	5.00%	3.65%	25.56%	24.50%
160	59,935	424	0.71%	68.19%	22.04%	0.32%	1.64%	0.10%	2.38%	5.33%	5.50%	23.64%	22.60%
161	60,097	586	0.98%	59.24%	26.27%	0.34%	3.05%	0.11%	3.15%	7.84%	7.89%	28.87%	27.14%
162	60,308	797	1.34%	38.55%	43.95%	0.43%	4.04%	0.26%	5.71%	7.06%	10.78%	46.66%	43.73%
163	60,123	612	1.03%	39.74%	46.54%	0.40%	3.15%	0.16%	4.62%	5.39%	8.45%	48.40%	45.49%
164	60,101	590	0.99%	60.02%	22.55%	0.45%	4.26%	0.13%	4.01%	8.58%	9.95%	25.07%	23.47%
165	59,978	467	0.78%	36.28%	52.86%	0.30%	3.23%	0.16%	2.74%	4.44%	5.53%	54.85%	50.33%
166	60,242	731	1.23%	84.02%	5.04%	0.23%	2.67%	0.05%	1.68%	6.30%	5.19%	6.05%	5.67%
167	59,493	-18	-0.03%	64.99%	21.40%	0.62%	1.47%	0.26%	3.75%	7.52%	8.81%	23.93%	22.28%
168	60,147	636	1.07%	39.01%	44.49%	0.44%	2.06%	0.73%	3.84%	9.43%	11.22%	49.11%	46.26%
169	59,138	-373	-0.63%	60.27%	29.04%	0.33%	0.79%	0.03%	5.16%	4.37%	9.03%	30.38%	29.04%
170	60,116	605	1.02%	62.84%	24.56%	0.31%	1.19%	0.03%	5.44%	5.62%	10.43%	26.05%	24.22%
171	59,237	-274	-0.46%	52.16%	40.00%	0.33%	0.54%	0.03%	3.52%	3.41%	5.73%	41.21%	39.60%
172	59,961	450	0.76%	60.41%	23.41%	0.80%	0.77%	0.03%	8.71%	5.87%	16.00%	24.67%	23.32%
173	59,743	232	0.39%	53.63%	36.40%	0.63%	0.83%	0.02%	4.16%	4.33%	6.95%	37.84%	36.27%
174	59,852	341	0.57%	73.85%	17.42%	0.47%	0.49%	0.05%	3.09%	4.63%	7.88%	18.81%	17.37%
175	59,993	482	0.81%	65.60%	23.98%	0.37%	1.79%	0.08%	2.45%	5.73%	6.10%	25.56%	24.17%
176	59,470	-41	-0.07%	66.19%	21.96%	0.45%	0.93%	0.11%	4.65%	5.71%	9.95%	23.59%	22.68%
177	59,992	481	0.81%	34.69%	55.26%	0.37%	1.30%	0.09%	3.02%	5.27%	6.69%	57.52%	53.88%
178	59,877	366	0.62%	77.36%	14.59%	0.35%	0.52%	0.01%	3.20%	3.97%	6.22%	15.91%	14.79%
179	59,356	-155	-0.26%	60.43%	28.66%	0.39%	1.07%	0.17%	4.00%	5.27%	7.73%	30.40%	27.03%
180	59,412	-99	-0.17%	70.77%	17.31%	0.47%	1.62%	0.13%	2.05%	7.65%	6.47%	19.73%	18.21%

Esselstyn Report: Attachment K

2021-2022 GUIDELINES FOR THE HOUSE LEGISLATIVE AND CONGRESSIONAL REAPPORTIONMENT COMMITTEE

I. HEARINGS AND MEETINGS

A. PUBLIC HEARINGS

1. A series of public hearings were held to actively seek public participation and input concerning the General Assembly's redrawing of congressional and legislative districts.
2. Video recordings of all hearings are and shall remain available on the legislative website, www.legis.ga.gov

B. COMMITTEE MEETINGS

1. All formal meetings of the full committee will be open to the public.
2. When the General Assembly is not in session, notices of all such meetings will be posted at the Offices of the Clerk of the House or Secretary of the Senate and other appropriate places at least 24 hours in advance of any meeting. Individual notices may be transmitted by email to any citizen or organization requesting the same without charge. Persons or organizations needing this information should contact the Senate Press Office or House Communications Office or the Secretary of the Senate or Clerk of the House to be placed on the notification list.
3. Minutes of all such meetings shall be kept and maintained in accordance with the rules of the House and Senate. Copies of the minutes should be made available in a timely manner at a reasonable cost in accordance with these same rules.

II. PUBLIC ACCESS TO REDISTRICTING DATA AND MATERIALS

- A. Census information databases on any medium created at public expense and held by the Committee or by the Legislative and Congressional Reapportionment Office for use in the redistricting process are included as public records and copies can be made available to the public in accordance with the rules of the General Assembly and subject to reasonable charges for search, retrieval, reproduction and other reasonable, related costs.
- B. Copies of the public records described above may be obtained at the cost of reproduction by members of the public on electronic media if the material exists on an appropriate electronic medium. Cost of reproduction may include not only the medium on which the copies made, but also the labor cost for the search, retrieval, and reproduction of the records and other reasonable, related costs.

- C. These guidelines regarding public access to redistricting data and materials do not apply to plans or other related materials prepared by or on behalf of an individual Member of the General Assembly using the Legislative and Congressional Reapportionment Office, where those plans and materials have not been made public through presentation to the Committee.

III. REDISTRICTING PLANS

A. GENERAL PRINCIPLES FOR DRAFTING PLANS

1. Each congressional district should be drawn with a total population of plus or minus one person from the ideal district size.
2. Each legislative district of the General Assembly should be drawn to achieve a total population that is substantially equal as practicable, considering the principles listed below.
3. All plans adopted by the Committee will comply with Section 2 of the Voting Rights Act of 1965, as amended.
4. All plans adopted by the Committee will comply with the United States and Georgia Constitutions.
5. Districts shall be composed of contiguous geography. Districts that connect on a single point are not contiguous.
6. No multi-member districts shall be drawn on any legislative redistricting plan.
7. The Committee should consider:
 - a. The boundaries of counties and precincts;
 - b. Compactness; and
 - c. Communities of interest.
8. Efforts should be made to avoid the unnecessary pairing of incumbents.
9. The identifying of these criteria is not intended to limit the consideration of any other principles or factors that the Committee deems appropriate.

B. PLANS PRODUCED THROUGH THE LEGISLATIVE AND CONGRESSIONAL REAPPORTIONMENT OFFICE

1. Staff of the Legislative and Congressional Reapportionment Office will be available to all members of the General Assembly requesting assistance in accordance with the policy of that office.
2. Census data and redistricting work maps will be available to all members of the General Assembly upon request, provided that (a) the map was created by the requesting member, (b) the map is publicly available, or (c) the Legislative and Congressional Reapportionment Office has been granted permission by the author of the map to share a copy with the requesting member.
3. As noted above, redistricting plans and other records related to the provision of staff services to individual members of the General Assembly will not be subject to public disclosure. Only the author of a particular map may waive the confidentiality of his or her own work product. This confidentiality provision will not apply with respect to records related to the provision of staff services to any committee or subcommittee as a whole or to any records which are or have been previously disclosed by or pursuant to the direction of an individual member of the General Assembly.

C. PLANS PRODUCED OUTSIDE OF THE LEGISLATIVE AND CONGRESSIONAL REAPPORTIONMENT OFFICE

1. All plans submitted to the Committee will be made part of the public record and made available in the same manner as other committee public records.
2. All plans prepared outside the Legislative and Congressional Reapportionment Office must be submitted to that office prior to presentation to the Committee by a Member of the General Assembly for technical verification and presentation and bill preparation. All pieces of census geography must be accounted for in some district.
3. The electronic submission of material for technical verification must be made in accordance with the following requirements or in a manner specifically approved and accepted by the Legislative and Congressional Reapportionment Office.
 - a. The submission shall be in electronic format with accompanying documentation that shows the submitting sponsor of the proposed plan and contact person for the proposed plan, including email address and telephone number.
 - b. An electronic map image that clearly depicts defined boundaries, utilizing the 2020 United States Census geographic boundaries,

and a block equivalency file containing two columns. The first column shall list the 15-digit census block identification numbers, and the second column shall list the three-digit district identification number. Both block and district numbers shall be zero-filled text files. Such files shall be submitted in .xis, .xlsx, .dbf, .txt, or .csv file formats. The following is a sample:

```
BlockID, DISTRICT
"13001950100101", "008"
"13001950100102", "008"
"13001950100103", "008"
"13001950100104", "008"
"13001950100105", "008"
"13001950100106", "008"
```

4. If submission of the plan cannot be done electronically, the following requirements must be followed:
 - a. All drafts, amendments, or revisions should be on clearly-depicted maps that follow the 2020 Census geographic boundaries and should be accompanied by a statistical sheet listing the Census geography including the total population for each district.
 - b. All plans submitted should either be a complete statewide plan or fit back into the plan that they modified, so that the proposal can be evaluated in the context of a statewide plan. All pieces of Census geography must be accounted for in some district.

D. GENERAL GUIDELINES FOR PRESENTATION OF ALL PLANS

1. A redistricting plan may be presented for consideration by the Committee only through the sponsorship of one or more Member(s) of the General Assembly. All such drafts of and amendments or revisions to plans presented at any committee meeting must be on clearly-depicted maps which follow the 2020 Census geographic boundaries and accompanied by a statistical sheet listing the Census geography, including the total population and minority populations for each proposed district.
2. No plan may be presented to the Committee unless that plan makes accommodations for and fits back into a specific, identified statewide map for the particular legislative body involved.

3. All plans presented at committee meetings will be made available for inspection by the public either electronically or by hard copy available at the Office of Legislative and Congressional Reapportionment.
- E. These guidelines may be reconsidered or amended by the Committee.

Esselstyn Report: Attachment L

More detailed tables for comparative characteristics of House plans

Population Deviation:

The deviation statistics for each individual district in the respective plans can be found in **Attachment I** and **Attachment J**. Below are the summary statistics generated by the *Maptitude for Redistricting* software.

Enacted plan:

Population Range:	58,678 to 60,308
Ratio Range:	0.03
Absolute Range:	-833 to 797
Absolute Overall Range:	1,630
Relative Range:	-1.40% to 1.34%
Relative Overall Range:	2.74%
Absolute Mean Deviation:	363.71
Relative Mean Deviation:	0.61%
Standard Deviation:	417.67

Illustrative plan:

Population Range:	58,358 to 60,647
Ratio Range:	0.04
Absolute Range:	-1,153 to 1,136
Absolute Overall Range:	2,289
Relative Range:	-1.94% to 1.91%
Relative Overall Range:	3.85%
Absolute Mean Deviation:	379.46
Relative Mean Deviation:	0.64%
Standard Deviation:	442.99

Compactness:

Below is the compactness report for the House enacted plan.

User:

Plan Name: EnachSEfromGA

Plan Type:

Measures of Compactness Report

Tuesday, January 11, 2022

9:53 PM

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
001	0.53	1.45	0.45	0.85
002	0.53	1.95	0.24	0.71
003	0.50	1.49	0.41	0.83
004	0.37	1.93	0.21	0.72
005	0.43	1.67	0.25	0.73
006	0.45	1.72	0.26	0.77
007	0.62	1.31	0.50	0.89
008	0.46	1.71	0.27	0.71
009	0.47	1.63	0.30	0.78
010	0.34	1.48	0.30	0.81
011	0.31	1.72	0.26	0.71

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
012	0.47	1.66	0.31	0.85
013	0.47	2.06	0.19	0.74
014	0.32	1.95	0.23	0.73
015	0.55	1.63	0.33	0.79
016	0.31	1.57	0.35	0.88
017	0.28	1.97	0.21	0.64
018	0.41	1.88	0.25	0.76
019	0.26	1.90	0.26	0.68
020	0.46	1.40	0.45	0.81
021	0.26	1.81	0.27	0.73
022	0.28	1.80	0.22	0.69
023	0.40	1.84	0.19	0.69
024	0.35	1.77	0.30	0.79
025	0.39	1.69	0.31	0.68

Measures of Compactness Report

EnachSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
026	0.27	1.82	0.26	0.70
027	0.60	1.54	0.34	0.82
028	0.38	1.58	0.35	0.80
029	0.34	1.97	0.21	0.62
030	0.43	1.71	0.30	0.66
031	0.44	1.67	0.25	0.70
032	0.39	1.64	0.33	0.73
033	0.49	1.53	0.37	0.80
034	0.45	1.61	0.33	0.75
035	0.32	1.76	0.24	0.73
036	0.32	1.90	0.23	0.68
037	0.45	1.66	0.28	0.82
038	0.59	1.28	0.58	0.91
039	0.59	1.45	0.40	0.87

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
040	0.49	1.69	0.29	0.76
041	0.60	1.47	0.40	0.85
042	0.40	2.01	0.21	0.64
043	0.42	1.94	0.22	0.69
044	0.31	1.76	0.29	0.73
045	0.41	1.64	0.32	0.77
046	0.55	1.42	0.47	0.84
047	0.29	2.02	0.21	0.61
048	0.34	2.12	0.19	0.62
049	0.30	2.23	0.15	0.59
050	0.42	1.40	0.46	0.77
051	0.54	1.60	0.36	0.73
052	0.48	1.65	0.35	0.72
053	0.16	2.52	0.14	0.50

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
054	0.37	1.49	0.45	0.87
055	0.18	2.42	0.16	0.59
056	0.26	2.04	0.23	0.69
057	0.57	1.30	0.59	0.91
058	0.13	2.76	0.13	0.54
059	0.12	2.98	0.11	0.46
060	0.19	2.39	0.15	0.58
061	0.25	2.12	0.20	0.64
062	0.16	2.92	0.10	0.48
063	0.16	2.61	0.14	0.49
064	0.37	1.60	0.36	0.78
065	0.46	2.06	0.17	0.72
066	0.36	1.94	0.25	0.67
067	0.36	2.39	0.12	0.61

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
068	0.32	2.19	0.17	0.71
069	0.40	1.88	0.25	0.69
070	0.45	1.94	0.23	0.65
071	0.44	1.56	0.35	0.79
072	0.42	1.86	0.23	0.73
073	0.28	2.12	0.20	0.66
074	0.50	1.79	0.25	0.76
075	0.42	1.82	0.28	0.64
076	0.53	1.33	0.51	0.86
077	0.40	2.11	0.21	0.64
078	0.21	2.08	0.19	0.62
079	0.50	2.06	0.21	0.73
080	0.38	1.49	0.42	0.79
081	0.47	1.54	0.40	0.81

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
082	0.49	1.74	0.30	0.72
083	0.34	1.62	0.36	0.80
084	0.25	1.97	0.20	0.67
085	0.36	1.65	0.32	0.77
086	0.17	2.34	0.17	0.55
087	0.26	1.97	0.24	0.70
088	0.26	2.14	0.20	0.67
089	0.14	2.90	0.10	0.47
090	0.36	1.78	0.29	0.83
091	0.45	2.08	0.20	0.62
092	0.36	1.98	0.20	0.71
093	0.26	2.66	0.11	0.54
094	0.31	2.42	0.15	0.56
095	0.44	1.72	0.25	0.75

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
096	0.18	2.18	0.21	0.66
097	0.28	1.96	0.24	0.67
098	0.42	1.35	0.52	0.88
099	0.36	1.80	0.29	0.72
100	0.34	1.78	0.29	0.66
101	0.53	1.44	0.46	0.82
102	0.56	1.58	0.35	0.77
103	0.33	1.96	0.24	0.62
104	0.28	1.90	0.25	0.74
105	0.34	1.78	0.28	0.69
106	0.66	1.36	0.50	0.85
107	0.51	1.68	0.32	0.75
108	0.43	1.64	0.32	0.71
109	0.39	1.70	0.28	0.70

Measures of Compactness Report

EnachSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10
District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
110	0.36	1.68	0.33	0.74
111	0.33	1.76	0.29	0.68
112	0.62	1.26	0.52	0.91
113	0.50	1.57	0.32	0.85
114	0.51	1.70	0.28	0.71
115	0.44	1.92	0.23	0.63
116	0.41	1.81	0.28	0.63
117	0.41	1.74	0.28	0.75
118	0.35	1.92	0.22	0.68
119	0.39	1.89	0.21	0.64
120	0.44	1.83	0.25	0.72
121	0.43	1.61	0.30	0.76
122	0.48	1.48	0.43	0.85
123	0.30	1.89	0.18	0.69

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
124	0.44	1.78	0.23	0.69
125	0.41	1.89	0.17	0.72
126	0.52	1.39	0.41	0.80
127	0.35	2.17	0.20	0.58
128	0.60	1.51	0.32	0.79
129	0.48	1.94	0.25	0.66
130	0.51	1.48	0.25	0.75
131	0.38	1.74	0.28	0.70
132	0.27	1.69	0.30	0.75
133	0.55	1.36	0.42	0.83
134	0.33	1.96	0.23	0.67
135	0.57	1.32	0.42	0.88
136	0.54	1.74	0.26	0.77
137	0.33	2.22	0.16	0.57

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
138	0.33	2.00	0.20	0.70
139	0.28	1.93	0.23	0.66
140	0.29	2.06	0.19	0.65
141	0.26	2.16	0.20	0.52
142	0.35	1.82	0.23	0.70
143	0.50	1.53	0.30	0.79
144	0.51	1.56	0.32	0.84
145	0.38	1.85	0.19	0.72
146	0.26	2.00	0.19	0.62
147	0.33	1.84	0.26	0.64
148	0.44	1.81	0.24	0.69
149	0.32	1.68	0.22	0.72
150	0.44	1.67	0.28	0.78
151	0.53	1.82	0.22	0.71

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
152	0.40	1.68	0.30	0.81
153	0.30	1.73	0.30	0.70
154	0.41	1.48	0.33	0.79
155	0.49	1.33	0.48	0.89
156	0.23	1.92	0.20	0.67
157	0.32	1.95	0.19	0.72
158	0.48	1.52	0.33	0.80
159	0.34	1.62	0.22	0.73
160	0.49	1.32	0.37	0.88
161	0.51	1.51	0.31	0.81
162	0.37	1.99	0.21	0.61
163	0.27	2.34	0.18	0.54
164	0.30	2.10	0.17	0.66
165	0.23	2.23	0.16	0.52

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
166	0.43	1.43	0.36	0.82
167	0.42	1.97	0.19	0.65
168	0.24	1.67	0.26	0.69
169	0.28	1.97	0.23	0.64
170	0.53	1.49	0.34	0.82
171	0.35	1.46	0.37	0.83
172	0.44	1.59	0.32	0.77
173	0.57	1.46	0.38	0.85
174	0.41	1.70	0.24	0.75
175	0.47	1.54	0.37	0.83
176	0.34	2.23	0.16	0.54
177	0.43	1.57	0.34	0.76
178	0.48	1.83	0.22	0.75
179	0.45	1.39	0.42	0.87

Measures of Compactness Report

EnacHSEfromGA

Number of cut edges: 22,020

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.80	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10
District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
180	0.61	1.23	0.40	0.85

Measures of Compactness Report

EnacHSEfromGA

Measures of Compactness Summary

Reock	The measure is always between 0 and 1, with 1 being the most compact.
Schwartzberg	The measure is usually greater than or equal to 1, with 1 being the most compact.
Polsby-Popper	The measure is always between 0 and 1, with 1 being the most compact.
Area / Convex Hull	The measure is always between 0 and 1, with 1 being the most compact.
Cut Edges	A smaller number implies a more compact plan. The measure should only be used to compare plans defined on the same base layer.

Below is the compactness report for the House illustrative plan.

User:

Plan Name: GA House Illustrative

Plan Type:

Measures of Compactness Report

Saturday, December 3, 2022

10:02 PM

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10
District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
1	0.53	1.45	0.45	0.85
2	0.53	1.95	0.24	0.71
3	0.50	1.49	0.41	0.83
4	0.37	1.93	0.21	0.72
5	0.43	1.67	0.25	0.73
6	0.45	1.72	0.26	0.77
7	0.62	1.31	0.50	0.89
8	0.46	1.71	0.27	0.71
9	0.47	1.63	0.30	0.78
10	0.34	1.48	0.30	0.81
11	0.31	1.72	0.26	0.71

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
12	0.47	1.66	0.31	0.85
13	0.47	2.06	0.19	0.74
14	0.32	1.95	0.23	0.73
15	0.55	1.63	0.33	0.79
16	0.31	1.57	0.35	0.88
17	0.28	1.97	0.21	0.64
18	0.41	1.88	0.25	0.76
19	0.26	1.90	0.26	0.68
20	0.46	1.40	0.45	0.81
21	0.26	1.81	0.27	0.73
22	0.28	1.80	0.22	0.69
23	0.40	1.84	0.19	0.69
24	0.35	1.77	0.30	0.79
25	0.39	1.69	0.31	0.68

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
26	0.27	1.82	0.26	0.70
27	0.60	1.54	0.34	0.82
28	0.38	1.58	0.35	0.80
29	0.34	1.97	0.21	0.62
30	0.43	1.71	0.30	0.66
31	0.44	1.67	0.25	0.70
32	0.39	1.64	0.33	0.73
33	0.49	1.53	0.37	0.80
34	0.45	1.61	0.33	0.75
35	0.32	1.76	0.24	0.73
36	0.32	1.90	0.23	0.68
37	0.45	1.66	0.28	0.82
38	0.59	1.28	0.58	0.91
39	0.59	1.45	0.40	0.87

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
40	0.49	1.69	0.29	0.76
41	0.60	1.47	0.40	0.85
42	0.40	2.01	0.21	0.64
43	0.42	1.94	0.22	0.69
44	0.31	1.76	0.29	0.73
45	0.41	1.64	0.32	0.77
46	0.55	1.42	0.47	0.84
47	0.29	2.02	0.21	0.61
48	0.34	2.12	0.19	0.62
49	0.30	2.23	0.15	0.59
50	0.42	1.40	0.46	0.77
51	0.54	1.60	0.36	0.73
52	0.48	1.65	0.35	0.72
53	0.16	2.52	0.14	0.50

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
54	0.37	1.49	0.45	0.87
55	0.18	2.42	0.16	0.59
56	0.26	2.04	0.23	0.69
57	0.57	1.30	0.59	0.91
58	0.13	2.76	0.13	0.54
59	0.12	2.98	0.11	0.46
60	0.19	2.39	0.15	0.58
61	0.33	2.05	0.21	0.60
62	0.16	2.92	0.10	0.48
63	0.16	2.61	0.14	0.49
64	0.22	2.05	0.22	0.59
65	0.36	2.59	0.11	0.59
66	0.39	1.63	0.35	0.79
67	0.36	2.39	0.12	0.61

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
68	0.32	2.19	0.17	0.71
69	0.33	2.06	0.22	0.68
70	0.45	1.94	0.23	0.65
71	0.44	1.56	0.35	0.79
72	0.42	1.86	0.23	0.73
73	0.28	2.12	0.20	0.66
74	0.30	1.98	0.19	0.61
75	0.46	2.23	0.18	0.68
76	0.53	1.33	0.51	0.86
77	0.40	2.11	0.21	0.64
78	0.31	2.05	0.18	0.65
79	0.50	2.06	0.21	0.73
80	0.38	1.49	0.42	0.79
81	0.47	1.54	0.40	0.81

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
82	0.49	1.74	0.30	0.72
83	0.34	1.62	0.36	0.80
84	0.25	1.97	0.20	0.67
85	0.36	1.65	0.32	0.77
86	0.17	2.34	0.17	0.55
87	0.26	1.97	0.24	0.70
88	0.26	2.14	0.20	0.67
89	0.14	2.90	0.10	0.47
90	0.36	1.78	0.29	0.83
91	0.27	2.15	0.17	0.63
92	0.36	1.98	0.20	0.71
93	0.26	2.66	0.11	0.54
94	0.31	2.42	0.15	0.56
95	0.44	1.72	0.25	0.75

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
96	0.18	2.18	0.21	0.66
97	0.28	1.96	0.24	0.67
98	0.42	1.35	0.52	0.88
99	0.36	1.80	0.29	0.72
100	0.34	1.78	0.29	0.66
101	0.53	1.44	0.46	0.82
102	0.56	1.58	0.35	0.77
103	0.33	1.96	0.24	0.62
104	0.28	1.90	0.25	0.74
105	0.34	1.78	0.28	0.69
106	0.66	1.36	0.50	0.85
107	0.51	1.68	0.32	0.75
108	0.43	1.64	0.32	0.71
109	0.39	1.70	0.28	0.70

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
110	0.36	1.68	0.33	0.74
111	0.33	1.76	0.29	0.68
112	0.62	1.26	0.52	0.91
113	0.50	1.57	0.32	0.85
114	0.51	1.70	0.28	0.71
115	0.29	1.77	0.28	0.71
116	0.33	1.98	0.23	0.62
117	0.40	1.62	0.33	0.76
118	0.35	1.92	0.22	0.68
119	0.39	1.89	0.21	0.64
120	0.44	1.83	0.25	0.72
121	0.43	1.61	0.30	0.76
122	0.48	1.48	0.43	0.85
123	0.30	1.89	0.18	0.69

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
124	0.44	1.78	0.23	0.69
125	0.41	1.89	0.17	0.72
126	0.52	1.39	0.41	0.80
127	0.35	2.17	0.20	0.58
128	0.60	1.51	0.32	0.79
129	0.48	1.94	0.25	0.66
130	0.51	1.48	0.25	0.75
131	0.38	1.74	0.28	0.70
132	0.27	1.69	0.30	0.75
133	0.36	1.69	0.29	0.76
134	0.37	1.73	0.31	0.74
135	0.39	1.79	0.23	0.69
136	0.54	1.74	0.26	0.77
137	0.33	2.22	0.16	0.57

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
138	0.33	2.00	0.20	0.70
139	0.28	1.93	0.23	0.66
140	0.29	2.06	0.19	0.65
141	0.26	2.16	0.20	0.52
142	0.56	1.42	0.36	0.84
143	0.31	1.85	0.26	0.65
144	0.43	1.83	0.22	0.71
145	0.34	1.63	0.21	0.76
146	0.50	1.79	0.26	0.68
147	0.44	1.57	0.37	0.80
148	0.35	2.23	0.18	0.59
149	0.46	1.48	0.28	0.83
150	0.44	1.67	0.28	0.78
151	0.53	1.82	0.22	0.71

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
152	0.40	1.68	0.30	0.81
153	0.30	1.73	0.30	0.70
154	0.41	1.48	0.33	0.79
155	0.47	1.40	0.44	0.86
156	0.25	1.94	0.20	0.71
157	0.32	1.95	0.19	0.72
158	0.48	1.52	0.33	0.80
159	0.34	1.62	0.22	0.73
160	0.49	1.32	0.37	0.88
161	0.51	1.51	0.31	0.81
162	0.37	1.99	0.21	0.61
163	0.27	2.34	0.18	0.54
164	0.30	2.10	0.17	0.66
165	0.23	2.23	0.16	0.52

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
166	0.43	1.43	0.36	0.82
167	0.42	1.97	0.19	0.65
168	0.24	1.67	0.26	0.69
169	0.28	1.97	0.23	0.64
170	0.53	1.49	0.34	0.82
171	0.35	1.46	0.37	0.83
172	0.44	1.59	0.32	0.77
173	0.57	1.46	0.38	0.85
174	0.41	1.70	0.24	0.75
175	0.47	1.54	0.37	0.83
176	0.34	2.23	0.16	0.54
177	0.43	1.57	0.34	0.76
178	0.48	1.83	0.22	0.75
179	0.45	1.39	0.42	0.87

Measures of Compactness Report

GA House Illustrative

Number of cut edges: 22,359

	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
Sum	N/A	N/A	N/A	N/A
Min	0.12	1.23	0.10	0.46
Max	0.66	2.98	0.59	0.91
Mean	0.39	1.81	0.28	0.72
Std. Dev.	0.11	0.33	0.10	0.10

District	Reock	Schwartzberg	Polsby-Popper	Area/Convex Hull
180	0.61	1.23	0.40	0.85

Measures of Compactness Report

GA House Illustrative

Measures of Compactness Summary

Reock	The measure is always between 0 and 1, with 1 being the most compact.
Schwartzberg	The measure is usually greater than or equal to 1, with 1 being the most compact.
Polsby-Popper	The measure is always between 0 and 1, with 1 being the most compact.
Area / Convex Hull	The measure is always between 0 and 1, with 1 being the most compact.
Cut Edges	A smaller number implies a more compact plan. The measure should only be used to compare plans defined on the same base layer.

Divisions of counties and precincts (VTDs):

Below is the political subdivisions splits report for the House enacted plan.

Related note: The first page of the following report generated by *Maptitude for Redistricting* software reports a total number of Voting District (VTD) “subdivisions split in to more than one district,” namely 184. However, the “Split Counts” “Voting District” section of the report indicates that “[c]ases where an area is split among 2 Districts” total 175, and “[c]ases where an area is split among 3 Districts” total 10—and the total of 175 and 10 equals 185, not 184. In correspondence with Caliper Corporation (the company that produces *Maptitude for Redistricting*), I have verified that 185 is the correct total, hence that is the number provided in the summary table in section IV.C. of the expert report, not 184.

User:

Plan Name: **GA House Enacted**

Plan Type:

Political Subdivision Splits Between Districts

Saturday, December 3, 2022

10:53 PM

Number of subdivisions not split:

County	90
Voting District	2,514

Number of subdivisions split into more than one district:

County	69
Voting District	184

Number of splits involving no population:

County	0
Voting District	16

Split Counts

County

Cases where an area is split among 2 Districts: 34
 Cases where an area is split among 3 Districts: 9
 Cases where an area is split among 4 Districts: 12
 Cases where an area is split among 5 Districts: 4
 Cases where an area is split among 6 Districts: 3
 Cases where an area is split among 7 Districts: 2
 Cases where an area is split among 9 Districts: 1
 Cases where an area is split among 14 Districts: 1
 Cases where an area is split among 17 Districts: 1
 Cases where an area is split among 21 Districts: 1
 Cases where an area is split among 22 Districts: 1

Voting District

Cases where an area is split among 2 Districts: 175
 Cases where an area is split among 3 Districts: 10

County	Voting District	District	Population
<i>Split Counties:</i>			
Appling GA		157	12,825
Appling GA		178	5,619
Baldwin GA		128	5,158
Baldwin GA		133	38,641
Barrow GA		104	24,245
Barrow GA		119	54,736
Barrow GA		120	4,524
Bartow GA		14	49,688
Bartow GA		15	59,213
Ben Hill GA		148	5,115
Ben Hill GA		156	12,079
Bibb GA		142	59,608
Bibb GA		143	59,469
Bibb GA		144	33,948

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Bibb GA		145	4,321
Bryan GA		160	11,008
Bryan GA		164	21,420
Bryan GA		166	12,310
Bulloch GA		158	19,285
Bulloch GA		159	12,887
Bulloch GA		160	48,927
Carroll GA		18	18,789
Carroll GA		70	2,854
Carroll GA		71	59,538
Carroll GA		72	37,967
Catoosa GA		2	7,673
Catoosa GA		3	60,199
Chatham GA		161	28,269
Chatham GA		162	60,308
Chatham GA		163	60,123
Chatham GA		164	38,681
Chatham GA		165	59,978
Chatham GA		166	47,932
Cherokee GA		11	6,557
Cherokee GA		14	9,447
Cherokee GA		20	60,107
Cherokee GA		21	59,529
Cherokee GA		22	30,874
Cherokee GA		23	59,048
Cherokee GA		44	21,989
Cherokee GA		46	15,178
Cherokee GA		47	3,891
Clarke GA		120	30,095
Clarke GA		121	26,478
Clarke GA		122	59,632
Clarke GA		124	12,466
Clayton GA		75	59,743
Clayton GA		76	59,759
Clayton GA		77	59,242
Clayton GA		78	55,197
Clayton GA		79	59,500
Clayton GA		116	4,154
Cobb GA		22	28,586
Cobb GA		34	59,875
Cobb GA		35	59,889
Cobb GA		36	59,994
Cobb GA		37	59,176
Cobb GA		38	59,317
Cobb GA		39	59,381
Cobb GA		40	59,044
Cobb GA		41	60,122

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Cobb GA		42	59,620
Cobb GA		43	59,464
Cobb GA		44	38,013
Cobb GA		45	59,738
Cobb GA		46	43,930
Coffee GA		169	33,736
Coffee GA		176	9,356
Columbia GA		123	2,205
Columbia GA		125	55,389
Columbia GA		127	39,526
Columbia GA		131	58,890
Cook GA		170	7,342
Cook GA		172	9,887
Coweta GA		65	13,008
Coweta GA		67	17,272
Coweta GA		70	56,267
Coweta GA		73	31,608
Coweta GA		136	28,003
Dawson GA		7	2,409
Dawson GA		9	24,389
DeKalb GA		52	28,300
DeKalb GA		80	59,461
DeKalb GA		81	59,007
DeKalb GA		82	59,724
DeKalb GA		83	59,416
DeKalb GA		84	59,862
DeKalb GA		85	59,373
DeKalb GA		86	59,205
DeKalb GA		87	59,709
DeKalb GA		88	47,844
DeKalb GA		89	59,866
DeKalb GA		90	59,812
DeKalb GA		91	19,700
DeKalb GA		92	15,607
DeKalb GA		93	11,690
DeKalb GA		94	31,207
DeKalb GA		95	14,599
Dougherty GA		151	6,268
Dougherty GA		152	6,187
Dougherty GA		153	59,299
Dougherty GA		154	14,036
Douglas GA		61	30,206
Douglas GA		64	35,576
Douglas GA		65	19,408
Douglas GA		66	59,047
Effingham GA		159	32,941
Effingham GA		161	31,828

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Fayette GA		68	29,719
Fayette GA		69	37,303
Fayette GA		73	28,428
Fayette GA		74	23,744
Floyd GA		5	5,099
Floyd GA		12	34,335
Floyd GA		13	59,150
Forsyth GA		11	19,019
Forsyth GA		24	59,011
Forsyth GA		25	46,134
Forsyth GA		26	59,248
Forsyth GA		28	50,864
Forsyth GA		100	17,007
Fulton GA		25	13,280
Fulton GA		47	55,235
Fulton GA		48	43,976
Fulton GA		49	59,153
Fulton GA		50	59,523
Fulton GA		51	58,952
Fulton GA		52	31,511
Fulton GA		53	59,953
Fulton GA		54	60,083
Fulton GA		55	59,971
Fulton GA		56	58,929
Fulton GA		57	59,969
Fulton GA		58	59,057
Fulton GA		59	59,434
Fulton GA		60	59,709
Fulton GA		61	29,096
Fulton GA		62	59,450
Fulton GA		63	59,381
Fulton GA		65	27,048
Fulton GA		67	41,863
Fulton GA		68	29,758
Fulton GA		69	21,379
Glynn GA		167	20,499
Glynn GA		179	59,356
Glynn GA		180	4,644
Gordon GA		5	53,738
Gordon GA		6	3,806
Grady GA		171	8,115
Grady GA		173	18,121
Gwinnett GA		30	8,620
Gwinnett GA		48	15,027
Gwinnett GA		88	11,845
Gwinnett GA		94	28,004
Gwinnett GA		95	34,221

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Gwinnett GA		96	59,515
Gwinnett GA		97	59,072
Gwinnett GA		98	59,998
Gwinnett GA		99	59,850
Gwinnett GA		100	35,204
Gwinnett GA		101	59,938
Gwinnett GA		102	58,959
Gwinnett GA		103	51,691
Gwinnett GA		104	35,117
Gwinnett GA		105	59,344
Gwinnett GA		106	59,112
Gwinnett GA		107	59,702
Gwinnett GA		108	59,577
Gwinnett GA		109	59,630
Gwinnett GA		110	59,951
Gwinnett GA		111	22,685
Habersham GA		10	42,636
Habersham GA		32	3,395
Hall GA		27	54,508
Hall GA		28	8,108
Hall GA		29	59,200
Hall GA		30	50,646
Hall GA		31	14,349
Hall GA		100	7,819
Hall GA		103	8,506
Harris GA		138	21,634
Harris GA		139	13,034
Henry GA		74	18,397
Henry GA		78	3,847
Henry GA		91	35,569
Henry GA		115	60,174
Henry GA		116	55,759
Henry GA		117	54,737
Henry GA		118	12,229
Houston GA		145	28,132
Houston GA		146	60,203
Houston GA		147	59,178
Houston GA		148	16,120
Jackson GA		31	45,552
Jackson GA		32	10,931
Jackson GA		119	4,211
Jackson GA		120	15,213
Jasper GA		114	2,855
Jasper GA		118	11,733
Jones GA		133	20,561
Jones GA		144	7,786
Lamar GA		134	5,026

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Lamar GA		135	13,474
Liberty GA		167	5,109
Liberty GA		168	60,147
Lowndes GA		174	9,770
Lowndes GA		175	43,692
Lowndes GA		176	4,797
Lowndes GA		177	59,992
Lumpkin GA		9	29,201
Lumpkin GA		27	4,287
Madison GA		33	9,935
Madison GA		123	20,185
McDuffie GA		125	4,748
McDuffie GA		128	16,884
Meriwether GA		136	13,382
Meriwether GA		137	7,231
Monroe GA		134	9,272
Monroe GA		144	17,498
Monroe GA		145	1,187
Muscogee GA		137	30,443
Muscogee GA		138	12,190
Muscogee GA		139	45,976
Muscogee GA		140	59,294
Muscogee GA		141	59,019
Newton GA		93	15,515
Newton GA		113	60,053
Newton GA		114	36,915
Oconee GA		120	9,150
Oconee GA		121	32,649
Paulding GA		16	16,549
Paulding GA		17	59,120
Paulding GA		18	10,627
Paulding GA		19	58,955
Paulding GA		64	23,410
Peach GA		145	14,093
Peach GA		150	13,888
Putnam GA		118	10,591
Putnam GA		124	11,456
Richmond GA		126	25,990
Richmond GA		127	19,152
Richmond GA		129	58,829
Richmond GA		130	59,203
Richmond GA		132	43,433
Rockdale GA		91	4,781
Rockdale GA		92	44,666
Rockdale GA		93	32,913
Rockdale GA		95	11,210
Spalding GA		74	16,815

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Spalding GA		117	5,393
Spalding GA		134	45,098
Sumter GA		150	14,282
Sumter GA		151	15,334
Tattnall GA		156	1,263
Tattnall GA		157	21,579
Telfair GA		149	9,486
Telfair GA		156	2,991
Thomas GA		172	4,176
Thomas GA		173	41,622
Tift GA		169	6,730
Tift GA		170	34,614
Troup GA		72	10,281
Troup GA		136	17,913
Troup GA		137	16,144
Troup GA		138	25,088
Walker GA		1	43,415
Walker GA		2	24,239
Walton GA		111	37,324
Walton GA		112	59,349
Ware GA		174	9,097
Ware GA		176	27,154
Wayne GA		167	6,742
Wayne GA		178	23,402
White GA		8	22,119
White GA		9	5,884
Whitfield GA		2	27,861
Whitfield GA		4	59,070
Whitfield GA		6	15,933
<i>Split VTDs:</i>			
Barrow GA	16	104	1,708
Barrow GA	16	119	8,060
Bartow GA	CASSVILLE	14	15,558
Bartow GA	CASSVILLE	15	1,047
Bartow GA	WHITE	14	3,335
Bartow GA	WHITE	15	211
Ben Hill GA	WEST	148	5,115
Ben Hill GA	WEST	156	5,229
Bibb GA	HOWARD 1	142	2,326
Bibb GA	HOWARD 1	144	3,617
Bibb GA	HOWARD 2	142	2,369
Bibb GA	HOWARD 2	144	3,076
Bibb GA	HOWARD 3	142	0
Bibb GA	HOWARD 3	144	12,654
Bibb GA	WARRIOR 2	142	4,426
Bibb GA	WARRIOR 2	145	852
Bryan GA	DANIELSIDING	164	1,268

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Bryan GA	DANIELSIDING	166	1,741
Bryan GA	HWY 144 EAST	164	4,552
Bryan GA	HWY 144 EAST	166	4,707
Bryan GA	J.F.GREGORY PARK	164	3,489
Bryan GA	J.F.GREGORY PARK	166	144
Bulloch GA	CHURCH	158	3,764
Bulloch GA	CHURCH	159	5,869
Carroll GA	BONNER	71	410
Carroll GA	BONNER	72	5,554
Chatham GA	CRUSADER COMMUNITY CENTER	162	2,134
Chatham GA	CRUSADER COMMUNITY CENTER	166	1,493
Chatham GA	GEORGETOWN ELEMENTAR	164	5,562
Chatham GA	GEORGETOWN ELEMENTAR	166	0
Chatham GA	GRACE UNITED METHODIST CHURCH	163	2,064
Chatham GA	GRACE UNITED METHODIST CHURCH	165	397
Chatham GA	ROTHWELL BAPTIST CHURCH	161	5,335
Chatham GA	ROTHWELL BAPTIST CHURCH	164	4,987
Chatham GA	THE LIGHT CHURCH	162	1,177
Chatham GA	THE LIGHT CHURCH	163	1,109
Chatham GA	WINDSOR FOREST BAPTIST CHURCH SCHOOL	163	785
Chatham GA	WINDSOR FOREST BAPTIST CHURCH SCHOOL	166	1,890
Cherokee GA	CARMEL	20	5,626
Cherokee GA	CARMEL	22	1,222
Cherokee GA	CARMEL	44	0
Cherokee GA	FREEHOME	21	3,200
Cherokee GA	FREEHOME	47	3,891
Cherokee GA	HOLLY SPRINGS	21	2,250
Cherokee GA	HOLLY SPRINGS	23	2,578
Clarke GA	1A	122	2,758
Clarke GA	1A	124	2,286
Clarke GA	4B	121	7,082
Clarke GA	4B	122	5,589
Clarke GA	7C	120	1,922
Clarke GA	7C	121	3,184
Clayton GA	LOVEJOY 1	75	5,018
Clayton GA	LOVEJOY 1	78	601

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Clayton GA	LOVEJOY 3	78	9,099
Clayton GA	LOVEJOY 3	116	4,154
Clayton GA	MORROW 4	76	1,911
Clayton GA	MORROW 4	78	1,316
Cobb GA	Acworth 1B	35	7,322
Cobb GA	Acworth 1B	36	142
Cobb GA	Baker 01	22	5,226
Cobb GA	Baker 01	35	1,996
Cobb GA	Bells Ferry 03	22	4,918
Cobb GA	Bells Ferry 03	44	3,763
Cobb GA	Dobbins 01	42	11,055
Cobb GA	Dobbins 01	43	2,346
Cobb GA	Elizabeth 01	34	700
Cobb GA	Elizabeth 01	37	5,170
Cobb GA	Elizabeth 04	37	2,031
Cobb GA	Elizabeth 04	43	2,387
Cobb GA	Kennesaw 1A	22	599
Cobb GA	Kennesaw 1A	35	3,844
Cobb GA	Kennesaw 3A	22	0
Cobb GA	Kennesaw 3A	34	871
Cobb GA	Kennesaw 3A	35	8,631
Cobb GA	Lassiter 01	44	2,121
Cobb GA	Lassiter 01	46	2,600
Cobb GA	Lindley 01	39	5,678
Cobb GA	Lindley 01	40	582
Cobb GA	Mableton 01	38	1,589
Cobb GA	Mableton 01	39	5,513
Cobb GA	Mableton 02	38	256
Cobb GA	Mableton 02	39	5,427
Cobb GA	Marietta 1A	37	3,349
Cobb GA	Marietta 1A	43	6,645
Cobb GA	Marietta 2A	34	1,664
Cobb GA	Marietta 2A	37	811
Cobb GA	Marietta 5A	37	2,877
Cobb GA	Marietta 5A	43	1,457
Cobb GA	Marietta 6A	37	1,532
Cobb GA	Marietta 6A	43	3,022
Cobb GA	Marietta 7A	42	1,494
Cobb GA	Marietta 7A	43	5,417
Cobb GA	North Cobb 01	35	2,611
Cobb GA	North Cobb 01	36	559
Cobb GA	Norton Park 01	41	1,955
Cobb GA	Norton Park 01	42	5,846
Cobb GA	Oregon 03	37	6,683
Cobb GA	Oregon 03	41	6,305
Cobb GA	Pine Mountain 02	34	3,976
Cobb GA	Pine Mountain 02	35	0

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Cobb GA	Smyrna 1A	40	1,292
Cobb GA	Smyrna 1A	42	5,341
Cobb GA	Smyrna 4A	40	6,599
Cobb GA	Smyrna 4A	42	1,609
Cobb GA	Smyrna 7A	39	905
Cobb GA	Smyrna 7A	40	7,690
Coffee GA	DOUGLAS	169	19,642
Coffee GA	DOUGLAS	176	8,929
Columbia GA	PATRIOTS PARK	125	326
Columbia GA	PATRIOTS PARK	131	5,958
Coweta GA	JEFFERSON PARKWAY	70	12,590
Coweta GA	JEFFERSON PARKWAY	73	1,521
DeKalb GA	Cedar Grove Middle	89	2,204
DeKalb GA	Cedar Grove Middle	90	316
DeKalb GA	Clarkston	85	5,454
DeKalb GA	Clarkston	86	9,300
DeKalb GA	Dresden Elem (CHA)	81	5,398
DeKalb GA	Dresden Elem (CHA)	83	7,691
DeKalb GA	Freedom Middle	86	1,002
DeKalb GA	Freedom Middle	87	3,088
DeKalb GA	Glennwood (DEC)	82	2,059
DeKalb GA	Glennwood (DEC)	84	1,221
DeKalb GA	Glennwood Road	85	1,698
DeKalb GA	Glennwood Road	86	1,064
DeKalb GA	Memorial South	86	2,226
DeKalb GA	Memorial South	87	2,547
DeKalb GA	Panola Road	86	3,296
DeKalb GA	Panola Road	94	460
DeKalb GA	Redan Middle	87	1,419
DeKalb GA	Redan Middle	88	1,633
DeKalb GA	Rockbridge Road	94	3,736
DeKalb GA	Rockbridge Road	95	1,104
DeKalb GA	Snapfinger Road South	84	920
DeKalb GA	Snapfinger Road South	91	1,271
DeKalb GA	Stone Mill Elem	87	1,863
DeKalb GA	Stone Mill Elem	88	4,069
DeKalb GA	Stone Mountain Champion (STO)	87	1,338
DeKalb GA	Stone Mountain Champion (STO)	88	2,865
DeKalb GA	Stone Mountain Middle (TUC)	87	656
DeKalb GA	Stone Mountain Middle (TUC)	88	3,960
DeKalb GA	Tucker Library (TUC)	81	2,394
DeKalb GA	Tucker Library (TUC)	88	1,635
Dougherty GA	DARTON COLLEGE	151	4,018
Dougherty GA	DARTON COLLEGE	153	2,465

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Dougherty GA	MT ZION CENTER	153	1,245
Dougherty GA	MT ZION CENTER	154	3,972
Effingham GA	4B	159	1,960
Effingham GA	4B	161	959
Fayette GA	ABERDEEN	68	983
Fayette GA	ABERDEEN	73	1,392
Fayette GA	BRAELINN	73	605
Fayette GA	BRAELINN	74	1,646
Fayette GA	STARRSMILL	73	1,932
Fayette GA	STARRSMILL	74	2,452
Floyd GA	ALTO PARK	12	1,576
Floyd GA	ALTO PARK	13	3,847
Floyd GA	MT ALTO NORTH	12	1,080
Floyd GA	MT ALTO NORTH	13	4,509
Forsyth GA	BROWNS BRIDGE	26	10,116
Forsyth GA	BROWNS BRIDGE	28	2,801
Forsyth GA	CONCORD	11	7,687
Forsyth GA	CONCORD	28	7,982
Forsyth GA	CUMMING	26	4,666
Forsyth GA	CUMMING	28	2,410
Forsyth GA	HEARDSVILLE	11	11,332
Forsyth GA	HEARDSVILLE	24	1,335
Forsyth GA	HEARDSVILLE	28	333
Forsyth GA	OTWELL	24	3,988
Forsyth GA	OTWELL	26	6,597
Forsyth GA	OTWELL	28	7,875
Forsyth GA	POLO	24	9,868
Forsyth GA	POLO	25	0
Forsyth GA	POLO	26	15,990
Forsyth GA	SOUTH FORSYTH	25	10,064
Forsyth GA	SOUTH FORSYTH	100	11,887
Forsyth GA	WINDERMERE	26	11,718
Forsyth GA	WINDERMERE	100	5,120
Fulton GA	08C	53	1,524
Fulton GA	08C	60	335
Fulton GA	09K	55	3,033
Fulton GA	09K	60	4,105
Fulton GA	10D	55	1,756
Fulton GA	10D	60	4,311
Fulton GA	11C	55	340
Fulton GA	11C	60	3,418
Fulton GA	AP022	48	862
Fulton GA	AP022	49	2,505
Fulton GA	AP07B	47	1,250
Fulton GA	AP07B	49	1,304
Fulton GA	AP14	48	4,109
Fulton GA	AP14	49	281

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Fulton GA	EP01B	59	2,393
Fulton GA	EP01B	62	2,049
Fulton GA	JC19	48	3,608
Fulton GA	JC19	51	1,792
Fulton GA	ML012	47	501
Fulton GA	ML012	49	123
Fulton GA	ML01B	47	284
Fulton GA	ML01B	49	61
Fulton GA	RW03	51	1,292
Fulton GA	RW03	53	6,066
Fulton GA	RW09	47	2,971
Fulton GA	RW09	49	4,750
Fulton GA	SC02	60	220
Fulton GA	SC02	61	773
Fulton GA	SC05B	61	1,575
Fulton GA	SC05B	65	2,978
Fulton GA	SC07A	65	1,028
Fulton GA	SC07A	67	7,728
Fulton GA	SC08B	62	92
Fulton GA	SC08B	68	5,255
Fulton GA	SC13	65	2,858
Fulton GA	SC13	67	1,176
Fulton GA	UC02A	65	1,070
Fulton GA	UC02A	67	13,013
Gwinnett GA	BAYCREEK A	106	934
Gwinnett GA	BAYCREEK A	110	2,651
Gwinnett GA	BAYCREEK D	102	3,729
Gwinnett GA	BAYCREEK D	110	2,597
Gwinnett GA	BERKSHIRE H	98	2,475
Gwinnett GA	BERKSHIRE H	108	1,991
Gwinnett GA	CATES J	94	955
Gwinnett GA	CATES J	108	4,255
Gwinnett GA	DULUTH F	96	7,245
Gwinnett GA	DULUTH F	107	5,149
Gwinnett GA	DULUTH G	96	1,426
Gwinnett GA	DULUTH G	99	3,389
Gwinnett GA	DUNCANS D	30	8,620
Gwinnett GA	DUNCANS D	104	1,575
Gwinnett GA	LAWRENCEVILLE F	102	2,073
Gwinnett GA	LAWRENCEVILLE F	105	3,924
Gwinnett GA	LAWRENCEVILLE M	102	4,231
Gwinnett GA	LAWRENCEVILLE M	105	7,770
Gwinnett GA	MARTINS H	107	8,164
Gwinnett GA	MARTINS H	109	892
Gwinnett GA	PINCKNEYVILLE W	96	5,745
Gwinnett GA	PINCKNEYVILLE W	97	2,561
Gwinnett GA	PUCKETTS E	103	1,506

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Gwinnett GA	PUCKETTS E	105	7,421
Gwinnett GA	SUGAR HILL D	100	2,158
Gwinnett GA	SUGAR HILL D	103	6,421
Gwinnett GA	SUWANEE F	99	3,224
Gwinnett GA	SUWANEE F	103	2,836
Habersham GA	HABERSHAM SOUTH	10	8,687
Habersham GA	HABERSHAM SOUTH	32	1,972
Hall GA	WILSON	28	3,803
Hall GA	WILSON	29	4,979
Henry GA	FLIPPEN	115	0
Henry GA	FLIPPEN	116	5,686
Henry GA	HICKORY FLAT	115	7,135
Henry GA	HICKORY FLAT	116	17
Henry GA	LOWES	116	5,233
Henry GA	LOWES	117	8,688
Henry GA	RED OAK	78	3,847
Henry GA	RED OAK	116	3,999
Henry GA	STOCKBRIDGE CENTRAL	78	0
Henry GA	STOCKBRIDGE CENTRAL	91	7,453
Henry GA	SWAN LAKE	91	3,240
Henry GA	SWAN LAKE	115	1,518
Houston GA	CENT	145	69
Houston GA	CENT	147	11,815
Houston GA	FMMS	146	9,734
Houston GA	FMMS	147	3,595
Houston GA	HHPC	145	8,748
Houston GA	HHPC	147	6,643
Houston GA	MCMS	146	3,947
Houston GA	MCMS	147	9,547
Houston GA	RECR	145	15,867
Houston GA	RECR	146	0
Houston GA	RECR	147	1,931
Houston GA	ROZR	146	13,202
Houston GA	ROZR	148	7,640
Houston GA	VHS	146	5,586
Houston GA	VHS	148	4,039
Jackson GA	North Jackson	31	4,513
Jackson GA	North Jackson	32	10,931
Jackson GA	North Jackson	120	3,803
Jackson GA	West Jackson	31	16,656
Jackson GA	West Jackson	119	4,211
Jones GA	CLINTON	133	384
Jones GA	CLINTON	144	2,481
Lamar GA	MILNER	134	3,043
Lamar GA	MILNER	135	2,725
Liberty GA	BUTTON GWINNETT	167	5,109
Liberty GA	BUTTON GWINNETT	168	4,344

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Lowndes GA	NORTHSIDE	175	8,373
Lowndes GA	NORTHSIDE	177	37,217
Lowndes GA	RAINWATER	175	6,400
Lowndes GA	RAINWATER	177	8,754
Lowndes GA	S LOWNDES	174	1,951
Lowndes GA	S LOWNDES	175	3,755
Lowndes GA	TRINITY	175	9,620
Lowndes GA	TRINITY	176	4,797
Lowndes GA	TRINITY	177	6,930
Lumpkin GA	DAHLONEGA	9	29,201
Lumpkin GA	DAHLONEGA	27	4,287
Muscogee GA	CUSSETA RD	140	5,391
Muscogee GA	CUSSETA RD	141	5,010
Muscogee GA	EPWORTH UMC	139	3,363
Muscogee GA	EPWORTH UMC	140	4,560
Muscogee GA	FORT/WADDELL	137	5,599
Muscogee GA	FORT/WADDELL	141	6,645
Muscogee GA	OUR LADY OF LOURDES	140	13,744
Muscogee GA	OUR LADY OF LOURDES	141	32
Muscogee GA	ROTHSCHILD	137	8,327
Muscogee GA	ROTHSCHILD	141	3,143
Muscogee GA	ST ANDREWS/MIDLAND	139	5,899
Muscogee GA	ST ANDREWS/MIDLAND	141	5,582
Newton GA	CEDAR SHOALS	93	1,206
Newton GA	CEDAR SHOALS	113	3,687
Newton GA	FAIRVIEW	93	856
Newton GA	FAIRVIEW	113	3,443
Newton GA	TOWN	93	1,668
Newton GA	TOWN	113	5,075
Paulding GA	AUSTIN MIDDLE SCHOOL	18	916
Paulding GA	AUSTIN MIDDLE SCHOOL	64	9,977
Paulding GA	BURNT HICKORY PARK	16	8,392
Paulding GA	BURNT HICKORY PARK	17	16
Paulding GA	CARL SCOGGINS MID SC	17	517
Paulding GA	CARL SCOGGINS MID SC	18	7,991
Paulding GA	CARL SCOGGINS MID SC	19	1,240
Paulding GA	HIRAM HIGH SCHOOL	17	0
Paulding GA	HIRAM HIGH SCHOOL	19	16,110
Paulding GA	SARA RAGSDALE ELM SC	17	5,972
Paulding GA	SARA RAGSDALE ELM SC	18	1,720
Paulding GA	SHELTON ELEMENTARY SCHOOL	16	8,152
Paulding GA	SHELTON ELEMENTARY SCHOOL	17	12,810
Paulding GA	SHELTON ELEMENTARY SCHOOL	19	5,455
Paulding GA	WATSON GOVERNMENT COMPLEX	16	5

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Paulding GA	WATSON GOVERNMENT COMPLEX	17	17,525
Richmond GA	109	129	954
Richmond GA	109	130	886
Richmond GA	301	127	2,362
Richmond GA	301	129	894
Richmond GA	402	126	0
Richmond GA	402	132	9,711
Richmond GA	503	129	3,260
Richmond GA	503	132	2,535
Richmond GA	702	127	586
Richmond GA	702	129	2,007
Richmond GA	703	127	1,164
Richmond GA	703	129	6,148
Richmond GA	803	126	0
Richmond GA	803	132	2,432
Richmond GA	807	126	2,403
Richmond GA	807	132	0
Rockdale GA	MILSTEAD	93	6,444
Rockdale GA	MILSTEAD	95	0
Rockdale GA	OLD TOWNE	93	10,095
Rockdale GA	OLD TOWNE	95	872
Rockdale GA	ROCKDALE	92	6,218
Rockdale GA	ROCKDALE	93	79
Spalding GA	CARVER FIRE STATION	74	235
Spalding GA	CARVER FIRE STATION	134	2,835
Spalding GA	GARY REID FIRE STATION	74	2,075
Spalding GA	GARY REID FIRE STATION	134	4,817
Spalding GA	UGA CAMPUS	74	787
Spalding GA	UGA CAMPUS	134	5,290
Sumter GA	GSW CONF CENTER	150	4,568
Sumter GA	GSW CONF CENTER	151	1,549
Sumter GA	REES PARK	150	5,179
Sumter GA	REES PARK	151	447
Troup GA	MOUNTVILLE	136	2,068
Troup GA	MOUNTVILLE	137	497
Walton GA	BROKEN ARROW	111	2,993
Walton GA	BROKEN ARROW	112	3,003
Ware GA	100	174	2,672
Ware GA	100	176	3,692
Ware GA	200A	174	0
Ware GA	200A	176	4,133
Ware GA	304	174	0
Ware GA	304	176	2,107
Ware GA	400	174	2,506
Ware GA	400	176	2,526
Wayne GA	OGLETHORPE	167	1,928

Political Subdivision Splits Between Districts

GA House Enacted

County	Voting District	District	Population
Wayne GA	OGLETHORPE	178	637
Whitfield GA	2A	2	3,864
Whitfield GA	2A	4	1,000
Whitfield GA	PLEASANT GROVE	2	6,210
Whitfield GA	PLEASANT GROVE	6	2,122

Below is the political subdivisions splits report for the House illustrative plan.

Related note: The first page of the following report generated by *Mapitude for Redistricting* software reports a total number of Voting District (VTD) “subdivisions split in to more than one district,” namely 185. However, the “Split Counts” “Voting District” section of the report indicates that “[c]ases where an area is split among 2 Districts” total 175, and “[c]ases where an area is split among 3 Districts” total 11—and the total of 175 and 11 equals 186, not 185. Based on my correspondence with Caliper Corporation described above, I have reported 186 as the correct total in the summary table in section IV.C. of the report, not 185.

User:

Plan Name: **GA House Illustrative**

Plan Type:

Political Subdivision Splits Between Districts

Saturday, December 3, 2022

10:06 PM

Number of subdivisions not split:

County	89
Voting District	2,513

Number of subdivisions split into more than one district:

County	70
Voting District	185

Number of splits involving no population:

County	0
Voting District	13

Split Counts

County

Cases where an area is split among 2 Districts: 35
 Cases where an area is split among 3 Districts: 9
 Cases where an area is split among 4 Districts: 12
 Cases where an area is split among 5 Districts: 4
 Cases where an area is split among 6 Districts: 2
 Cases where an area is split among 7 Districts: 3
 Cases where an area is split among 9 Districts: 1
 Cases where an area is split among 14 Districts: 1
 Cases where an area is split among 17 Districts: 1
 Cases where an area is split among 21 Districts: 1
 Cases where an area is split among 23 Districts: 1

Voting District

Cases where an area is split among 2 Districts: 175
 Cases where an area is split among 3 Districts: 11

County	Voting District	District	Population
<i>Split Counties:</i>			
Appling GA		157	12,825
Appling GA		178	5,619
Baldwin GA		128	5,158
Baldwin GA		133	12,336
Baldwin GA		149	26,305
Barrow GA		104	24,245
Barrow GA		119	54,736
Barrow GA		120	4,524
Bartow GA		14	49,688
Bartow GA		15	59,213
Ben Hill GA		148	5,115
Ben Hill GA		156	12,079
Bibb GA		142	59,320
Bibb GA		143	59,122

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Bibb GA		145	22,716
Bibb GA		149	16,188
Bryan GA		160	11,008
Bryan GA		164	21,420
Bryan GA		166	12,310
Bulloch GA		158	19,285
Bulloch GA		159	12,887
Bulloch GA		160	48,927
Carroll GA		18	18,789
Carroll GA		70	2,854
Carroll GA		71	59,538
Carroll GA		72	37,967
Catoosa GA		2	7,673
Catoosa GA		3	60,199
Chatham GA		161	28,269
Chatham GA		162	60,308
Chatham GA		163	60,123
Chatham GA		164	38,681
Chatham GA		165	59,978
Chatham GA		166	47,932
Cherokee GA		11	6,557
Cherokee GA		14	9,447
Cherokee GA		20	60,107
Cherokee GA		21	59,529
Cherokee GA		22	30,874
Cherokee GA		23	59,048
Cherokee GA		44	21,989
Cherokee GA		46	15,178
Cherokee GA		47	3,891
Clarke GA		120	30,095
Clarke GA		121	26,478
Clarke GA		122	59,632
Clarke GA		124	12,466
Clayton GA		74	34,350
Clayton GA		75	55,912
Clayton GA		76	59,759
Clayton GA		77	59,242
Clayton GA		78	24,678
Clayton GA		79	59,500
Clayton GA		116	4,154
Cobb GA		22	28,586
Cobb GA		34	59,875
Cobb GA		35	59,889
Cobb GA		36	59,994
Cobb GA		37	59,176
Cobb GA		38	59,317
Cobb GA		39	59,381

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Cobb GA		40	59,044
Cobb GA		41	60,122
Cobb GA		42	59,620
Cobb GA		43	59,464
Cobb GA		44	38,013
Cobb GA		45	59,738
Cobb GA		46	43,930
Coffee GA		169	33,736
Coffee GA		176	9,356
Columbia GA		123	2,205
Columbia GA		125	55,389
Columbia GA		127	39,526
Columbia GA		131	58,890
Cook GA		170	7,342
Cook GA		172	9,887
Coweta GA		65	13,008
Coweta GA		67	17,272
Coweta GA		70	56,267
Coweta GA		73	31,608
Coweta GA		136	28,003
Dawson GA		7	2,409
Dawson GA		9	24,389
DeKalb GA		52	28,300
DeKalb GA		80	59,461
DeKalb GA		81	59,007
DeKalb GA		82	59,724
DeKalb GA		83	59,416
DeKalb GA		84	59,862
DeKalb GA		85	59,373
DeKalb GA		86	59,205
DeKalb GA		87	59,709
DeKalb GA		88	47,844
DeKalb GA		89	59,866
DeKalb GA		90	59,812
DeKalb GA		91	19,700
DeKalb GA		92	15,607
DeKalb GA		93	11,690
DeKalb GA		94	31,207
DeKalb GA		95	14,599
Dodge GA		148	18,550
Dodge GA		155	1,375
Dougherty GA		151	6,268
Dougherty GA		152	6,187
Dougherty GA		153	59,299
Dougherty GA		154	14,036
Douglas GA		61	48,764
Douglas GA		64	30,206

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Douglas GA		65	6,306
Douglas GA		66	58,961
Effingham GA		159	32,941
Effingham GA		161	31,828
Fayette GA		68	29,719
Fayette GA		69	36,979
Fayette GA		73	28,428
Fayette GA		74	24,068
Floyd GA		5	5,099
Floyd GA		12	34,335
Floyd GA		13	59,150
Forsyth GA		11	19,019
Forsyth GA		24	59,011
Forsyth GA		25	46,134
Forsyth GA		26	59,248
Forsyth GA		28	50,864
Forsyth GA		100	17,007
Fulton GA		25	13,280
Fulton GA		47	55,235
Fulton GA		48	43,976
Fulton GA		49	59,153
Fulton GA		50	59,523
Fulton GA		51	58,952
Fulton GA		52	31,511
Fulton GA		53	59,953
Fulton GA		54	60,083
Fulton GA		55	59,971
Fulton GA		56	58,929
Fulton GA		57	59,969
Fulton GA		58	59,057
Fulton GA		59	59,434
Fulton GA		60	59,709
Fulton GA		61	10,186
Fulton GA		62	59,450
Fulton GA		63	59,381
Fulton GA		64	6,032
Fulton GA		65	39,926
Fulton GA		67	41,863
Fulton GA		68	29,758
Fulton GA		69	21,379
Glynn GA		167	20,499
Glynn GA		179	59,356
Glynn GA		180	4,644
Gordon GA		5	53,738
Gordon GA		6	3,806
Grady GA		171	8,115
Grady GA		173	18,121

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Gwinnett GA		30	8,620
Gwinnett GA		48	15,027
Gwinnett GA		88	11,845
Gwinnett GA		94	28,004
Gwinnett GA		95	34,221
Gwinnett GA		96	59,515
Gwinnett GA		97	59,072
Gwinnett GA		98	59,998
Gwinnett GA		99	59,850
Gwinnett GA		100	35,204
Gwinnett GA		101	59,938
Gwinnett GA		102	58,959
Gwinnett GA		103	51,691
Gwinnett GA		104	35,117
Gwinnett GA		105	59,344
Gwinnett GA		106	59,112
Gwinnett GA		107	59,702
Gwinnett GA		108	59,577
Gwinnett GA		109	59,630
Gwinnett GA		110	59,951
Gwinnett GA		111	22,685
Habersham GA		10	42,636
Habersham GA		32	3,395
Hall GA		27	54,508
Hall GA		28	8,108
Hall GA		29	59,200
Hall GA		30	50,646
Hall GA		31	14,349
Hall GA		100	7,819
Hall GA		103	8,506
Harris GA		138	21,634
Harris GA		139	13,034
Henry GA		75	3,847
Henry GA		78	18,397
Henry GA		91	35,475
Henry GA		115	59,789
Henry GA		116	50,833
Henry GA		117	60,142
Henry GA		118	12,229
Houston GA		144	32,310
Houston GA		145	36,952
Houston GA		146	35,804
Houston GA		147	58,567
Jackson GA		31	45,552
Jackson GA		32	10,931
Jackson GA		119	4,211
Jackson GA		120	15,213

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Jasper GA		114	2,855
Jasper GA		118	11,733
Lamar GA		134	13,948
Lamar GA		135	4,552
Liberty GA		167	5,109
Liberty GA		168	60,147
Lowndes GA		174	9,770
Lowndes GA		175	43,692
Lowndes GA		176	4,797
Lowndes GA		177	59,992
Lumpkin GA		9	29,201
Lumpkin GA		27	4,287
Madison GA		33	9,935
Madison GA		123	20,185
McDuffie GA		125	4,748
McDuffie GA		128	16,884
Meriwether GA		136	13,382
Meriwether GA		137	7,231
Monroe GA		133	19,085
Monroe GA		135	8,872
Muscogee GA		137	30,443
Muscogee GA		138	12,190
Muscogee GA		139	45,976
Muscogee GA		140	59,294
Muscogee GA		141	59,019
Newton GA		93	15,515
Newton GA		113	60,053
Newton GA		114	36,915
Oconee GA		120	9,150
Oconee GA		121	32,649
Paulding GA		16	16,549
Paulding GA		17	59,120
Paulding GA		18	10,627
Paulding GA		19	58,955
Paulding GA		64	23,410
Peach GA		144	14,093
Peach GA		150	13,888
Putnam GA		118	10,591
Putnam GA		124	11,456
Richmond GA		126	25,990
Richmond GA		127	19,152
Richmond GA		129	58,829
Richmond GA		130	59,203
Richmond GA		132	43,433
Rockdale GA		91	4,781
Rockdale GA		92	44,666
Rockdale GA		93	32,913

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Rockdale GA		95	11,210
Spalding GA		78	16,815
Spalding GA		116	5,393
Spalding GA		134	45,098
Sumter GA		150	14,282
Sumter GA		151	15,334
Tattnall GA		156	1,263
Tattnall GA		157	21,579
Telfair GA		148	8,283
Telfair GA		156	4,194
Thomas GA		172	4,176
Thomas GA		173	41,622
Tift GA		169	6,730
Tift GA		170	34,614
Troup GA		72	10,281
Troup GA		136	17,913
Troup GA		137	16,144
Troup GA		138	25,088
Walker GA		1	43,415
Walker GA		2	24,239
Walton GA		111	37,324
Walton GA		112	59,349
Ware GA		174	9,097
Ware GA		176	27,154
Wayne GA		167	6,742
Wayne GA		178	23,402
White GA		8	22,119
White GA		9	5,884
Whitfield GA		2	27,861
Whitfield GA		4	59,070
Whitfield GA		6	15,933
Wilcox GA		146	955
Wilcox GA		148	7,811
<i>Split VTDs:</i>			
Baldwin GA	NORTH BALDWIN	133	4,245
Baldwin GA	NORTH BALDWIN	149	647
Baldwin GA	NORTH MILLEDGEVILLE	133	864
Baldwin GA	NORTH MILLEDGEVILLE	149	2,500
Baldwin GA	SOUTH MILLEDGEVILLE	133	932
Baldwin GA	SOUTH MILLEDGEVILLE	149	2,774
Barrow GA	16	104	1,708
Barrow GA	16	119	8,060
Bartow GA	CASSVILLE	14	15,558
Bartow GA	CASSVILLE	15	1,047
Bartow GA	WHITE	14	3,335
Bartow GA	WHITE	15	211
Ben Hill GA	WEST	148	5,115

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Ben Hill GA	WEST	156	5,229
Bibb GA	GODFREY 1	142	4,656
Bibb GA	GODFREY 1	149	6,278
Bibb GA	HOWARD 1	142	5,180
Bibb GA	HOWARD 1	143	763
Bibb GA	HOWARD 3	142	1,789
Bibb GA	HOWARD 3	143	10,865
Bibb GA	RUTLAND 1	142	1,475
Bibb GA	RUTLAND 1	145	6,465
Bibb GA	VINEVILLE 3	142	232
Bibb GA	VINEVILLE 3	143	4,182
Bryan GA	DANIELSIDING	164	1,268
Bryan GA	DANIELSIDING	166	1,741
Bryan GA	HWY 144 EAST	164	4,552
Bryan GA	HWY 144 EAST	166	4,707
Bryan GA	J.F.GREGORY PARK	164	3,489
Bryan GA	J.F.GREGORY PARK	166	144
Bulloch GA	CHURCH	158	3,764
Bulloch GA	CHURCH	159	5,869
Carroll GA	BONNER	71	410
Carroll GA	BONNER	72	5,554
Chatham GA	CRUSADER COMMUNITY CENTER	162	2,134
Chatham GA	CRUSADER COMMUNITY CENTER	166	1,493
Chatham GA	GEORGETOWN ELEMENTAR	164	5,562
Chatham GA	GEORGETOWN ELEMENTAR	166	0
Chatham GA	GRACE UNITED METHODIST CHURCH	163	2,064
Chatham GA	GRACE UNITED METHODIST CHURCH	165	397
Chatham GA	ROTHWELL BAPTIST CHURCH	161	5,335
Chatham GA	ROTHWELL BAPTIST CHURCH	164	4,987
Chatham GA	THE LIGHT CHURCH	162	1,177
Chatham GA	THE LIGHT CHURCH	163	1,109
Chatham GA	WINDSOR FOREST BAPTIST CHURCH SCHOOL	163	785
Chatham GA	WINDSOR FOREST BAPTIST CHURCH SCHOOL	166	1,890
Cherokee GA	CARMEL	20	5,626
Cherokee GA	CARMEL	22	1,222
Cherokee GA	CARMEL	44	0

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Cherokee GA	FREEHOME	21	3,200
Cherokee GA	FREEHOME	47	3,891
Cherokee GA	HOLLY SPRINGS	21	2,250
Cherokee GA	HOLLY SPRINGS	23	2,578
Clarke GA	1A	122	2,758
Clarke GA	1A	124	2,286
Clarke GA	4B	121	7,082
Clarke GA	4B	122	5,589
Clarke GA	7C	120	1,922
Clarke GA	7C	121	3,184
Clayton GA	JONESBORO 13	74	2,066
Clayton GA	JONESBORO 13	75	752
Clayton GA	JONESBORO 14	75	2,726
Clayton GA	JONESBORO 14	78	2,387
Clayton GA	JONESBORO 3	74	0
Clayton GA	JONESBORO 3	75	5,962
Clayton GA	LOVEJOY 1	74	4,484
Clayton GA	LOVEJOY 1	75	948
Clayton GA	LOVEJOY 1	78	187
Clayton GA	LOVEJOY 3	78	9,099
Clayton GA	LOVEJOY 3	116	4,154
Clayton GA	MORROW 4	75	1,316
Clayton GA	MORROW 4	76	1,911
Cobb GA	Acworth 1B	35	7,322
Cobb GA	Acworth 1B	36	142
Cobb GA	Baker 01	22	5,226
Cobb GA	Baker 01	35	1,996
Cobb GA	Bells Ferry 03	22	4,918
Cobb GA	Bells Ferry 03	44	3,763
Cobb GA	Dobbins 01	42	11,055
Cobb GA	Dobbins 01	43	2,346
Cobb GA	Elizabeth 01	34	700
Cobb GA	Elizabeth 01	37	5,170
Cobb GA	Elizabeth 04	37	2,031
Cobb GA	Elizabeth 04	43	2,387
Cobb GA	Kennesaw 1A	22	599
Cobb GA	Kennesaw 1A	35	3,844
Cobb GA	Kennesaw 3A	22	0
Cobb GA	Kennesaw 3A	34	871
Cobb GA	Kennesaw 3A	35	8,631
Cobb GA	Lassiter 01	44	2,121
Cobb GA	Lassiter 01	46	2,600
Cobb GA	Lindley 01	39	5,678
Cobb GA	Lindley 01	40	582
Cobb GA	Mableton 01	38	1,589
Cobb GA	Mableton 01	39	5,513
Cobb GA	Mableton 02	38	256

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Cobb GA	Mableton 02	39	5,427
Cobb GA	Marietta 1A	37	3,349
Cobb GA	Marietta 1A	43	6,645
Cobb GA	Marietta 2A	34	1,664
Cobb GA	Marietta 2A	37	811
Cobb GA	Marietta 5A	37	2,877
Cobb GA	Marietta 5A	43	1,457
Cobb GA	Marietta 6A	37	1,532
Cobb GA	Marietta 6A	43	3,022
Cobb GA	Marietta 7A	42	1,494
Cobb GA	Marietta 7A	43	5,417
Cobb GA	North Cobb 01	35	2,611
Cobb GA	North Cobb 01	36	559
Cobb GA	Norton Park 01	41	1,955
Cobb GA	Norton Park 01	42	5,846
Cobb GA	Oregon 03	37	6,683
Cobb GA	Oregon 03	41	6,305
Cobb GA	Pine Mountain 02	34	3,976
Cobb GA	Pine Mountain 02	35	0
Cobb GA	Smyrna 1A	40	1,292
Cobb GA	Smyrna 1A	42	5,341
Cobb GA	Smyrna 4A	40	6,599
Cobb GA	Smyrna 4A	42	1,609
Cobb GA	Smyrna 7A	39	905
Cobb GA	Smyrna 7A	40	7,690
Coffee GA	DOUGLAS	169	19,642
Coffee GA	DOUGLAS	176	8,929
Columbia GA	PATRIOTS PARK	125	326
Columbia GA	PATRIOTS PARK	131	5,958
Coweta GA	JEFFERSON PARKWAY	70	12,590
Coweta GA	JEFFERSON PARKWAY	73	1,521
DeKalb GA	Cedar Grove Middle	89	2,204
DeKalb GA	Cedar Grove Middle	90	316
DeKalb GA	Clarkston	85	5,454
DeKalb GA	Clarkston	86	9,300
DeKalb GA	Dresden Elem (CHA)	81	5,398
DeKalb GA	Dresden Elem (CHA)	83	7,691
DeKalb GA	Freedom Middle	86	1,002
DeKalb GA	Freedom Middle	87	3,088
DeKalb GA	Glennwood (DEC)	82	2,059
DeKalb GA	Glennwood (DEC)	84	1,221
DeKalb GA	Glennwood Road	85	1,698
DeKalb GA	Glennwood Road	86	1,064
DeKalb GA	Memorial South	86	2,226
DeKalb GA	Memorial South	87	2,547
DeKalb GA	Panola Road	86	3,296
DeKalb GA	Panola Road	94	460

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
DeKalb GA	Redan Middle	87	1,419
DeKalb GA	Redan Middle	88	1,633
DeKalb GA	Rockbridge Road	94	3,736
DeKalb GA	Rockbridge Road	95	1,104
DeKalb GA	Snapfinger Road South	84	920
DeKalb GA	Snapfinger Road South	91	1,271
DeKalb GA	Stone Mill Elem	87	1,863
DeKalb GA	Stone Mill Elem	88	4,069
DeKalb GA	Stone Mountain Champion (STO)	87	1,338
DeKalb GA	Stone Mountain Champion (STO)	88	2,865
DeKalb GA	Stone Mountain Middle (TUC)	87	656
DeKalb GA	Stone Mountain Middle (TUC)	88	3,960
DeKalb GA	Tucker Library (TUC)	81	2,394
DeKalb GA	Tucker Library (TUC)	88	1,635
Dougherty GA	DARTON COLLEGE	151	4,018
Dougherty GA	DARTON COLLEGE	153	2,465
Dougherty GA	MT ZION CENTER	153	1,245
Dougherty GA	MT ZION CENTER	154	3,972
Douglas GA	MIRROR LAKE ELEMENTA	61	5,093
Douglas GA	MIRROR LAKE ELEMENTA	66	3,661
Effingham GA	4B	159	1,960
Effingham GA	4B	161	959
Fayette GA	ABERDEEN	68	983
Fayette GA	ABERDEEN	73	1,392
Fayette GA	BANKS	69	1,812
Fayette GA	BANKS	74	247
Fayette GA	BRAELINN	73	605
Fayette GA	BRAELINN	74	1,646
Fayette GA	MURPHY	69	146
Fayette GA	MURPHY	74	3,848
Fayette GA	STARRSMILL	73	1,932
Fayette GA	STARRSMILL	74	2,452
Floyd GA	ALTO PARK	12	1,576
Floyd GA	ALTO PARK	13	3,847
Floyd GA	MT ALTO NORTH	12	1,080
Floyd GA	MT ALTO NORTH	13	4,509
Forsyth GA	BROWNS BRIDGE	26	10,116
Forsyth GA	BROWNS BRIDGE	28	2,801
Forsyth GA	CONCORD	11	7,687
Forsyth GA	CONCORD	28	7,982
Forsyth GA	CUMMING	26	4,666
Forsyth GA	CUMMING	28	2,410
Forsyth GA	HEARDSVILLE	11	11,332
Forsyth GA	HEARDSVILLE	24	1,335

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Forsyth GA	HEARDSVILLE	28	333
Forsyth GA	OTWELL	24	3,988
Forsyth GA	OTWELL	26	6,597
Forsyth GA	OTWELL	28	7,875
Forsyth GA	POLO	24	9,868
Forsyth GA	POLO	25	0
Forsyth GA	POLO	26	15,990
Forsyth GA	SOUTH FORSYTH	25	10,064
Forsyth GA	SOUTH FORSYTH	100	11,887
Forsyth GA	WINDERMERE	26	11,718
Forsyth GA	WINDERMERE	100	5,120
Fulton GA	08C	53	1,524
Fulton GA	08C	60	335
Fulton GA	09K	55	3,033
Fulton GA	09K	60	4,105
Fulton GA	10D	55	1,756
Fulton GA	10D	60	4,311
Fulton GA	11C	55	340
Fulton GA	11C	60	3,418
Fulton GA	AP022	48	862
Fulton GA	AP022	49	2,505
Fulton GA	AP07B	47	1,250
Fulton GA	AP07B	49	1,304
Fulton GA	AP14	48	4,109
Fulton GA	AP14	49	281
Fulton GA	EP01B	59	2,393
Fulton GA	EP01B	62	2,049
Fulton GA	JC19	48	3,608
Fulton GA	JC19	51	1,792
Fulton GA	ML012	47	501
Fulton GA	ML012	49	123
Fulton GA	ML01B	47	284
Fulton GA	ML01B	49	61
Fulton GA	RW03	51	1,292
Fulton GA	RW03	53	6,066
Fulton GA	RW09	47	2,971
Fulton GA	RW09	49	4,750
Fulton GA	SC02	60	220
Fulton GA	SC02	65	773
Fulton GA	SC07A	65	1,028
Fulton GA	SC07A	67	7,728
Fulton GA	SC08B	62	92
Fulton GA	SC08B	68	5,255
Fulton GA	SC13	61	589
Fulton GA	SC13	65	2,269
Fulton GA	SC13	67	1,176
Fulton GA	UC02A	65	1,070

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Fulton GA	UC02A	67	13,013
Gwinnett GA	BAYCREEK A	106	934
Gwinnett GA	BAYCREEK A	110	2,651
Gwinnett GA	BAYCREEK D	102	3,729
Gwinnett GA	BAYCREEK D	110	2,597
Gwinnett GA	BERKSHIRE H	98	2,475
Gwinnett GA	BERKSHIRE H	108	1,991
Gwinnett GA	CATES J	94	955
Gwinnett GA	CATES J	108	4,255
Gwinnett GA	DULUTH F	96	7,245
Gwinnett GA	DULUTH F	107	5,149
Gwinnett GA	DULUTH G	96	1,426
Gwinnett GA	DULUTH G	99	3,389
Gwinnett GA	DUNCANS D	30	8,620
Gwinnett GA	DUNCANS D	104	1,575
Gwinnett GA	LAWRENCEVILLE F	102	2,073
Gwinnett GA	LAWRENCEVILLE F	105	3,924
Gwinnett GA	LAWRENCEVILLE M	102	4,231
Gwinnett GA	LAWRENCEVILLE M	105	7,770
Gwinnett GA	MARTINS H	107	8,164
Gwinnett GA	MARTINS H	109	892
Gwinnett GA	PINCKNEYVILLE W	96	5,745
Gwinnett GA	PINCKNEYVILLE W	97	2,561
Gwinnett GA	PUCKETTS E	103	1,506
Gwinnett GA	PUCKETTS E	105	7,421
Gwinnett GA	SUGAR HILL D	100	2,158
Gwinnett GA	SUGAR HILL D	103	6,421
Gwinnett GA	SUWANEE F	99	3,224
Gwinnett GA	SUWANEE F	103	2,836
Habersham GA	HABERSHAM SOUTH	10	8,687
Habersham GA	HABERSHAM SOUTH	32	1,972
Hall GA	WILSON	28	3,803
Hall GA	WILSON	29	4,979
Henry GA	LAKE HAVEN	116	4,546
Henry GA	LAKE HAVEN	117	1,242
Henry GA	LOCUST GROVE	116	4,436
Henry GA	LOCUST GROVE	117	5,352
Henry GA	RED OAK	75	3,847
Henry GA	RED OAK	116	3,999
Henry GA	SWAN LAKE	91	1,951
Henry GA	SWAN LAKE	115	2,807
Houston GA	CENT	145	315
Houston GA	CENT	147	11,569
Houston GA	MCMS	144	11,859
Houston GA	MCMS	147	1,635
Houston GA	ROZR	144	13,202
Houston GA	ROZR	146	7,640

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Jackson GA	North Jackson	31	4,513
Jackson GA	North Jackson	32	10,931
Jackson GA	North Jackson	120	3,803
Jackson GA	West Jackson	31	16,656
Jackson GA	West Jackson	119	4,211
Liberty GA	BUTTON GWINNETT	167	5,109
Liberty GA	BUTTON GWINNETT	168	4,344
Lowndes GA	NORTHSIDE	175	8,373
Lowndes GA	NORTHSIDE	177	37,217
Lowndes GA	RAINWATER	175	6,400
Lowndes GA	RAINWATER	177	8,754
Lowndes GA	S LOWNDES	174	1,951
Lowndes GA	S LOWNDES	175	3,755
Lowndes GA	TRINITY	175	9,620
Lowndes GA	TRINITY	176	4,797
Lowndes GA	TRINITY	177	6,930
Lumpkin GA	DAHLONEGA	9	29,201
Lumpkin GA	DAHLONEGA	27	4,287
Muscogee GA	CUSSETA RD	140	5,391
Muscogee GA	CUSSETA RD	141	5,010
Muscogee GA	EPWORTH UMC	139	3,363
Muscogee GA	EPWORTH UMC	140	4,560
Muscogee GA	FORT/WADDELL	137	5,599
Muscogee GA	FORT/WADDELL	141	6,645
Muscogee GA	OUR LADY OF LOURDES	140	13,744
Muscogee GA	OUR LADY OF LOURDES	141	32
Muscogee GA	ROTHSCHILD	137	8,327
Muscogee GA	ROTHSCHILD	141	3,143
Muscogee GA	ST ANDREWS/MIDLAND	139	5,899
Muscogee GA	ST ANDREWS/MIDLAND	141	5,582
Newton GA	CEDAR SHOALS	93	1,206
Newton GA	CEDAR SHOALS	113	3,687
Newton GA	FAIRVIEW	93	856
Newton GA	FAIRVIEW	113	3,443
Newton GA	TOWN	93	1,668
Newton GA	TOWN	113	5,075
Paulding GA	AUSTIN MIDDLE SCHOOL	18	916
Paulding GA	AUSTIN MIDDLE SCHOOL	64	9,977
Paulding GA	BURNT HICKORY PARK	16	8,392
Paulding GA	BURNT HICKORY PARK	17	16
Paulding GA	CARL SCOGGINS MID SC	17	517
Paulding GA	CARL SCOGGINS MID SC	18	7,991
Paulding GA	CARL SCOGGINS MID SC	19	1,240
Paulding GA	HIRAM HIGH SCHOOL	17	0
Paulding GA	HIRAM HIGH SCHOOL	19	16,110
Paulding GA	SARA RAGSDALE ELM SC	17	5,972
Paulding GA	SARA RAGSDALE ELM SC	18	1,720

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Paulding GA	SHELTON ELEMENTARY SCHOOL	16	8,152
Paulding GA	SHELTON ELEMENTARY SCHOOL	17	12,810
Paulding GA	SHELTON ELEMENTARY SCHOOL	19	5,455
Paulding GA	WATSON GOVERNMENT COMPLEX	16	5
Paulding GA	WATSON GOVERNMENT COMPLEX	17	17,525
Richmond GA	109	129	954
Richmond GA	109	130	886
Richmond GA	301	127	2,362
Richmond GA	301	129	894
Richmond GA	402	126	0
Richmond GA	402	132	9,711
Richmond GA	503	129	3,260
Richmond GA	503	132	2,535
Richmond GA	702	127	586
Richmond GA	702	129	2,007
Richmond GA	703	127	1,164
Richmond GA	703	129	6,148
Richmond GA	803	126	0
Richmond GA	803	132	2,432
Richmond GA	807	126	2,403
Richmond GA	807	132	0
Rockdale GA	MILSTEAD	93	6,444
Rockdale GA	MILSTEAD	95	0
Rockdale GA	OLD TOWNE	93	10,095
Rockdale GA	OLD TOWNE	95	872
Rockdale GA	ROCKDALE	92	6,218
Rockdale GA	ROCKDALE	93	79
Spalding GA	CARVER FIRE STATION	78	235
Spalding GA	CARVER FIRE STATION	134	2,835
Spalding GA	GARY REID FIRE STATION	78	2,075
Spalding GA	GARY REID FIRE STATION	134	4,817
Spalding GA	UGA CAMPUS	78	787
Spalding GA	UGA CAMPUS	134	5,290
Sumter GA	GSW CONF CENTER	150	4,568
Sumter GA	GSW CONF CENTER	151	1,549
Sumter GA	REES PARK	150	5,179
Sumter GA	REES PARK	151	447
Troup GA	MOUNTVILLE	136	2,068
Troup GA	MOUNTVILLE	137	497
Walton GA	BROKEN ARROW	111	2,993
Walton GA	BROKEN ARROW	112	3,003
Ware GA	100	174	2,672
Ware GA	100	176	3,692

Political Subdivision Splits Between Districts

GA House Illustrative

County	Voting District	District	Population
Ware GA	200A	174	0
Ware GA	200A	176	4,133
Ware GA	304	174	0
Ware GA	304	176	2,107
Ware GA	400	174	2,506
Ware GA	400	176	2,526
Wayne GA	OGLETHORPE	167	1,928
Wayne GA	OGLETHORPE	178	637
Whitfield GA	2A	2	3,864
Whitfield GA	2A	4	1,000
Whitfield GA	PLEASANT GROVE	2	6,210
Whitfield GA	PLEASANT GROVE	6	2,122

EXHIBIT B

**IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION**

ANNIE LOIS GRANT, et al.,

Plaintiffs,

v.

BRAD RAFFENSPERGER, et al.,

Defendants.

CIVIL ACTION

FILE NO. 1:22-CV-00122-SCJ

**DEFENDANT STATE ELECTION BOARD MEMBERS' OBJECTIONS
AND RESPONSES TO PLAINTIFFS' FIRST SET OF
INTERROGATORIES**

Defendants William S. Duffey Jr., in his official capacity as Chair of the State Election Board; and Matthew Mashburn, Sara Tindall Ghazal, Edward Lindsey, and Janice Johnston, in their official capacity as members of the State Election Board (collectively, "Defendants"), file these objections and responses to Plaintiffs' First Set of Interrogatories. The answers provided are based on each member's personal knowledge about the subject matter of the interrogatory posed. Defendants state they have not been and are not involved or knowledgeable about the redistricting process in any upcoming election.

**SPECIFIC OBJECTIONS AND RESPONSES TO
PLAINTIFFS' FIRST SET OF INTERROGATORIES**

Interrogatory No. 1:

Identify all persons whom you know or have any reason to believe have

any knowledge about the allegations in the Amended Complaint or the allegations and affirmative defenses in the Answer, and with respect to each individual, state with specificity the substance and basis of their knowledge.

Response No. 1:

Defendants do not know the individuals who have knowledge of the allegations of the Amended Complaint and Answer because they were not involved in the mapdrawing process and do not know who provided information about the allegations of the Amended Complaint.

Interrogatory No. 2:

Identify all state interests, policies, or other justifications you contend are served by or underlie SB 1EX and HB 1EX, including but not limited to any state interests, policies, or other justifications cited by you in your motion to dismiss the Complaint, *see* ECF No. 23; your response in opposition to Plaintiffs' motion for preliminary injunction, *see* ECF No. 25; your reply in support of your motion to dismiss, *see* ECF No. 37; your proposed findings of fact and conclusions of law, *see* ECF No. 81; and the Answer.

Response No. 2:

Defendants do not have information regarding those state interests, policies, or justifications, other than those included in their prior filings, including because they were not involved in the mapdrawing process and are not aware of all state interests that may have been considered by the General

Assembly in drawing districts for any specific election.

Interrogatory No. 3:

Identify the current residential addresses of all members of the Georgia State Senate and the Georgia House of Representatives.

Response No. 3:

Defendants do not know the current residential addresses of the Georgia General Assembly members.

Interrogatory No. 4:

Identify the latest date by which you believe statewide districting plans (including state legislative and congressional maps) must be in place in advance of the 2024 primary elections, including any specific deadlines, requirements, or other reasons justifying this determination. Alternatively, if the date of the 2024 primary elections has not been finalized at the time these interrogatories are propounded, state the minimum number of days in advance of the 2024 primary elections that you believe statewide districting plans must be in place, including any specific deadlines, requirements, or other reasons justifying this determination.

Response No. 4:

Defendants object to the concluding language of the interrogatory which states “including any specific deadlines, requirements, or other reasons

justifying this determination” on the grounds this part of the interrogatory is vague and uncertain, and thus incapable of a response.

Subject to this objection, Defendants do not know the date by which districting plans must be in place for the 2024 election and do not have any belief about the minimum number of days in advance of the 2024 primary elections within which districting plans must be in place.

Interrogatory No. 5:

Identify all communications you have had with the General Assembly or Governor Brian Kemp or his staff regarding SB 1EX, HB 1EX, the allegations in the Amended Complaint, the allegations and affirmative defenses in the Answer, or this litigation.

Response No. 5:

Defendants are not and were not involved in the redistricting process and have not had any conversations with the General Assembly, Governor Brian Kemp, or his staff regarding SB 1EX, HB 1EX, the allegations in the Amended Complaint, the allegations and affirmative defenses in the Answer, or this litigation.

Interrogatory No. 6:

Identify each person participating in the preparation of responses to these interrogatories, and for each person listed, state with specificity the substance and basis of their knowledge.

Response No. 6:

Defendants state that the following individuals participated in preparation of these interrogatories:

1. William S. Duffey Jr., Chair of the State Election Board and, as the interrogatory answers state, he does not have information responsive to the interrogatories.
2. Sara Tindall Ghazal, member of the State Election Board, and, as the interrogatory answers state, she does not have information responsive to the interrogatories.
3. Janice Johnston, member of the State Election Board, and, as the interrogatory answers state, she does not have information responsive to the interrogatories.
4. Edward Lindsey, member of the State Election Board, and, as the interrogatory answers state, he does not have information responsive to the interrogatories.
5. Matthew Mashburn, member of the State Election Board, and, as the interrogatory answers state, he does not have information responsive to the interrogatories.
6. Counsel for Defendants, who formatted and helped administratively prepare these responses.

This 9th day of September, 2022.

Respectfully submitted,

Christopher M. Carr
Attorney General
Georgia Bar No. 112505
Bryan K. Webb
Deputy Attorney General
Georgia Bar No. 743580
Russell D. Willard
Senior Assistant Attorney General
Georgia Bar No. 760280
Charlene McGowan
Assistant Attorney General
Georgia Bar No. 697316
State Law Department
40 Capitol Square, S.W.
Atlanta, Georgia 30334

/s/ Bryan P. Tyson
Bryan P. Tyson
Special Assistant Attorney General
Georgia Bar No. 515411
btyson@taylorenghish.com
Frank B. Strickland
Georgia Bar No. 678600
fstrickland@taylorenghish.com
Bryan F. Jacoutot
Georgia Bar No. 668272
bjacoutot@taylorenghish.com
Loree Anne Paradise
Georgia Bar No. 382202
lparadise@taylorenghish.com
Taylor English Duma LLP
1600 Parkwood Circle
Suite 200
Atlanta, Georgia 30339
(678) 336-7249
Counsel for Defendants

CERTIFICATE OF SERVICE

I hereby certify that on September 9, 2022, I caused a copy of the foregoing to be served by electronic mail on all counsel of record.

/s/ Bryan P. Tyson

Bryan P. Tyson

Counsel for Defendants

EXHIBIT C

**IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION**

ANNIE LOIS GRANT, *et al.*,

Plaintiffs,

v.

BRAD RAFFENSPERGER, *et al.*,

Defendants.

CIVIL ACTION

FILE NO. 1:22-CV-00122-SCJ

EXPERT REPORT OF JOHN B. MORGAN

Pursuant to 28 U.S.C. § 1746, Fed. R. Civ. P. 26, and F.R.E. 702 and 703, I, JOHN B. MORGAN, make the following declaration:

1. My name is John B. Morgan. I am over the age of 21 years, and I am under no legal disability which would prevent me from giving this declaration. If called to testify, I would testify under oath to these facts.

2. I hold a B.A. in History from the University of Chicago. As detailed in my CV, attached as Exhibit 1, I have extensive experience over many years in the field of redistricting. I have worked on redistricting plans in the redistricting efforts following the 1990 Census, the 2000 Census, the 2010 Census and the 2020 Census. I have testified as an expert witness in demographics and redistricting.

3. I am being compensated at a rate of \$325 per hour for my services in this case.

4. The redistricting geographic information system (GIS) software package used for this analysis is Maptitude for Redistricting 2021 from Caliper Corporation. The redistricting software was loaded with the census PL94-171 data from the Census Bureau and the census geography for Georgia. I was also provided with election data files used by the Georgia General Assembly during the redistricting process. The full suite of census geography was available, including counties, places, voting districts, water bodies, and roads, as well as census blocks, which are the lowest level of geography for which the Census Bureau reports population counts. Census blocks are generally bounded by visible features, such as roads, streams, and railroads and they can range in size from a city block in urban and suburban areas to many square miles in rural areas.

5. I have been asked to review the House of Representatives and State Senate plans considered and adopted by the Georgia General Assembly and compare them to the proposed House and Senate plans drawn by Mr. Esselstyn and offer opinions regarding my analysis.

6. As a result of this analysis my opinion is that the Esselstyn 1205 Senate and House plans are focused on race, prioritizing race to the detriment of traditional redistricting factors.

Data utilized for analysis

7. A House and Senate plan was submitted for a preliminary injunction hearing, earlier in this case (I am designating these as PI plans). A House and Senate plan were submitted in Mr. Esselstyn's expert report in this case on December 5, 2022 (I am designating these as 1205 plans).

8. In preparing this analysis, I was given the block-equivalency files of the Esselstyn plans as well as the block-equivalency files of the 2021 adopted plans and incumbent databases used by the Georgia General Assembly during the redistricting process. The incumbent databases list the address locations and districts of the Representatives and Senators serving under the existing House (2015-enacted) and Senate (2014-enacted) plans prior to the election of 2022. I was also given information on incumbents who were not intending to run for re-election to their current offices in 2022.

9. I loaded the 2021 House and 2021 Senate plans enacted by the Georgia General Assembly into the Maptitude for Redistricting software using the block-equivalency files provided. I loaded the Esselstyn House plans and the Esselstyn

Senate plans into the Maptitude for Redistricting software using the block-equivalency files provided. I loaded the prior House (2015-enacted) and Senate (2014-enacted) plans into the Maptitude for Redistricting software using files provided with software. I loaded the associated incumbent databases provided.

10. Using the Maptitude for Redistricting software, I ran seven reports for each 1205 Esselstyn plan:

- 1- Measures of compactness report,
- 2- Districts & incumbents report,
- 3- Population summary report,
- 4- Political subdivision splits report,
- 5- Plan component report,
- 6- Core constituency report compared to PI plan,
- 7- Core constituency report compared to Enacted 2021 plan.

11. Each report is included in the appendices to this report as exhibits 2-15. I previously created these reports for the enacted plans that are included in my December 5, 2022 expert report. I also created population summary reports for the PI plans.

12. I also created a series of maps comparing the 1205 plans and the enacted plans. These maps show a theme of AP-Black % on the voting districts and overlays

of selected districts in the enacted plans and the 1205 plans for comparison. Each of these maps for the Senate is included as Exhibits 16-35 and each of these maps for the House is included as Exhibits 36-46.

State Senate Plan Analysis

13. Using the Population summary reports, I tallied the number of majority-Black districts using any-part Black voting age population (18+ AP-Black) for each Senate plan. The chart below shows the total number of majority-Black districts in the 2021 adopted Senate plan, the Esselstyn 1205 Senate plan and the Esselstyn PI Senate plan, as well as the number of districts in the percentage ranges using the any-part Black voting age population.

Chart 1: Number of Majority-Black Senate Districts.

Majority-Black Senate Districts			
% AP Black VAP	2021 Adopted Plan	Esselstyn Plan 1205	Esselstyn Plan PI
Over 75%	0	0	0
70% to 75%	3	1	1
65% to 70%	3	2	2
60% to 65%	3	3	4
55% to 60%	3	5	4
52% to 55%	1	3	3
50% to 52%	1	3	3
Total # Districts	14	17	17

14. The 2021 adopted Senate plan includes 14 majority-Black districts, the Esselstyn 1205 Senate plan includes 17 majority-Black districts, and the Esselstyn PI Senate plan has 17 majority-Black districts.

15. The plan drafted by Mr. Esselstyn (1205) differs slightly from the plan submitted previously for the preliminary injunction hearing in this case. There are changes affecting four districts: Districts 17 and 23 exchange population, and 16 and 34 exchange population.

16. Below is a chart which summarizes the changes between the two plans.

Chart 2: Changes from Esselstyn Sen PI to Esselstyn Sen 1205

District	Esselstyn Sen 1205 Population	Esselstyn Sen 1205 dev	Esselstyn Sen PI Population	Esselstyn Sen PI dev	Pop. Diff	Pop. % Diff	Esselstyn Sen 1205 % AP Black VAP	Esselstyn Sen PI % AP Black VAP
16	190077	-0.63%	193863	1.35%	-3786	-2.0%	19.7%	19.3%
34	192023	0.39%	188237	-1.59%	3786	2.0%	59.0%	60.2%
17	193838	1.34%	189212	-1.08%	4626	2.4%	21.8%	21.7%
23	188095	-1.67%	192721	0.75%	-4626	-2.5%	51.1%	50.4%

17. Senate District 16 exchanges population with Senate District 34, resulting in a deviation that moves from +1.35% to -0.63% and an 18+ AP Black % that moves from 60.2% to 59.0%.

18. District 34 exchanges population with District 16, resulting in a deviation that moves from +1.59% to +0.39% and an 18+ AP Black % that moves from 19.3% to 19.7%.

19. In another part of the state, Senate District 17 exchanges population with Senate District 23, resulting in a deviation that moves from +1.08% to +1.34% and an 18+ AP Black % that moves from 21.7% to 21.8%.

20. District 23 exchanges population with District 17, resulting in a deviation that moves from +0.75% to -1.67% and an 18+ AP Black % that moves from 50.4% to 51.1%. In this exchange, both districts 17 and 23 show an increase in 18+ AP Black %. While that might not seem possible from a logical point of view, is possible because the deviation of Senate District 23 is lowered to the make it the lowest deviation in the entire plan at -1.67%. Having a lower total population, but approximately the same AP Black population results in a higher AP Black %.

21. Looking more closely at the Esselstyn Senate 1205 plan, here is a chart that summarizes top-line statistics about the plan and compares them to the enacted plan.

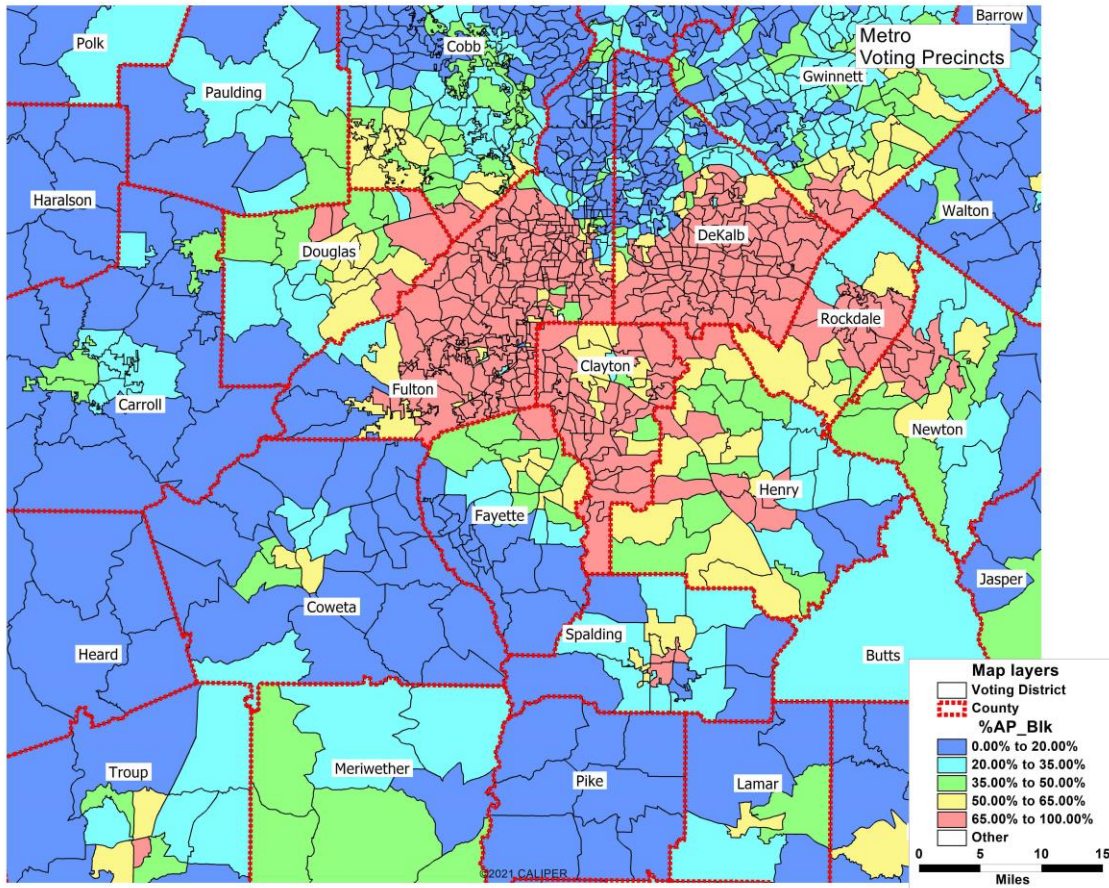
Chart 3: Esselstyn 1205 Senate and Enacted Senate Plan comparisons

Plan metrics	Esselstyn Senate 1205	Enacted Senate
County splits	34	29
Voting precinct splits	49	47
Mean compactness - Reock	0.41	0.42
Mean compactness - Polsby Popper	0.28	0.29
# Paired incumbents	6	4
# Seats majority 18+_AP_Blk%	17	14
Deviation relative range	-1.67% to +1.90%	-1.03% to +0.98%
Deviation overall range	3.57%	2.01%

22. In addition to the overall plan metrics in the chart above, the Core constituency report (Ex. 8) shows that the Esselstyn 1205 Senate plan has 34 districts that are exactly the same as the enacted Senate plan. With 34 of 56 districts exactly the same, it is not surprising that the Esselstyn 1205 Senate plan has mean compactness scores close to, but still lower than the enacted Senate plan.

23. The Esselstyn 1205 Senate plan changes 22 districts to create three new Black-majority Senate districts.

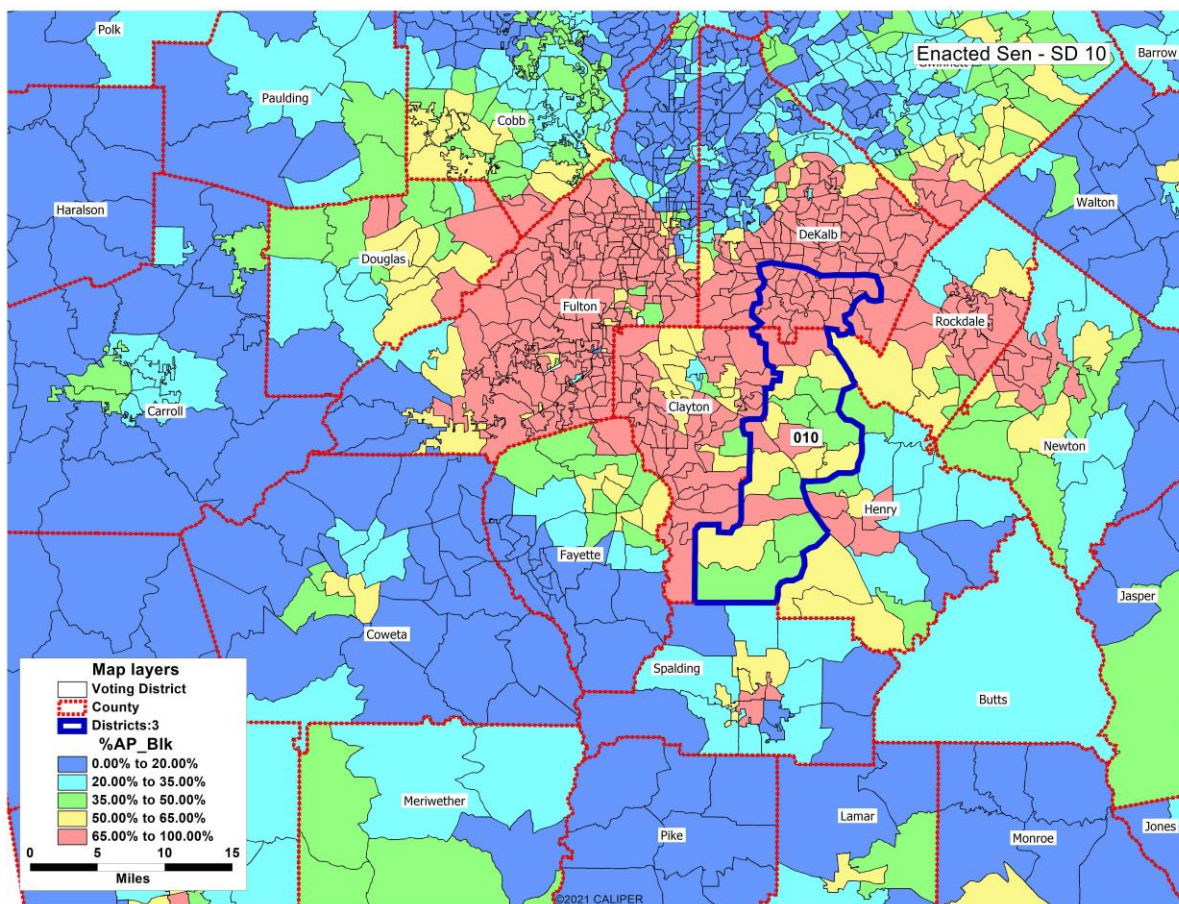
24. Below is a map showing the Metro region with a theme of AP-Black % on the voting districts, as well as maps of Senate District 10 in the Enacted Senate plan and the Esselstyn 1205 Senate plan.



25. Voting districts themed in red have an AP-Black % of greater than 65% and voting districts themed in yellow have an AP-Black % of 50% to 65%. Voting districts themed in green have an AP-Black % of 35% to 50%; light blue have an AP-Black % of 20% to 35%; and darker blue have an AP-Black % of less than 20%.

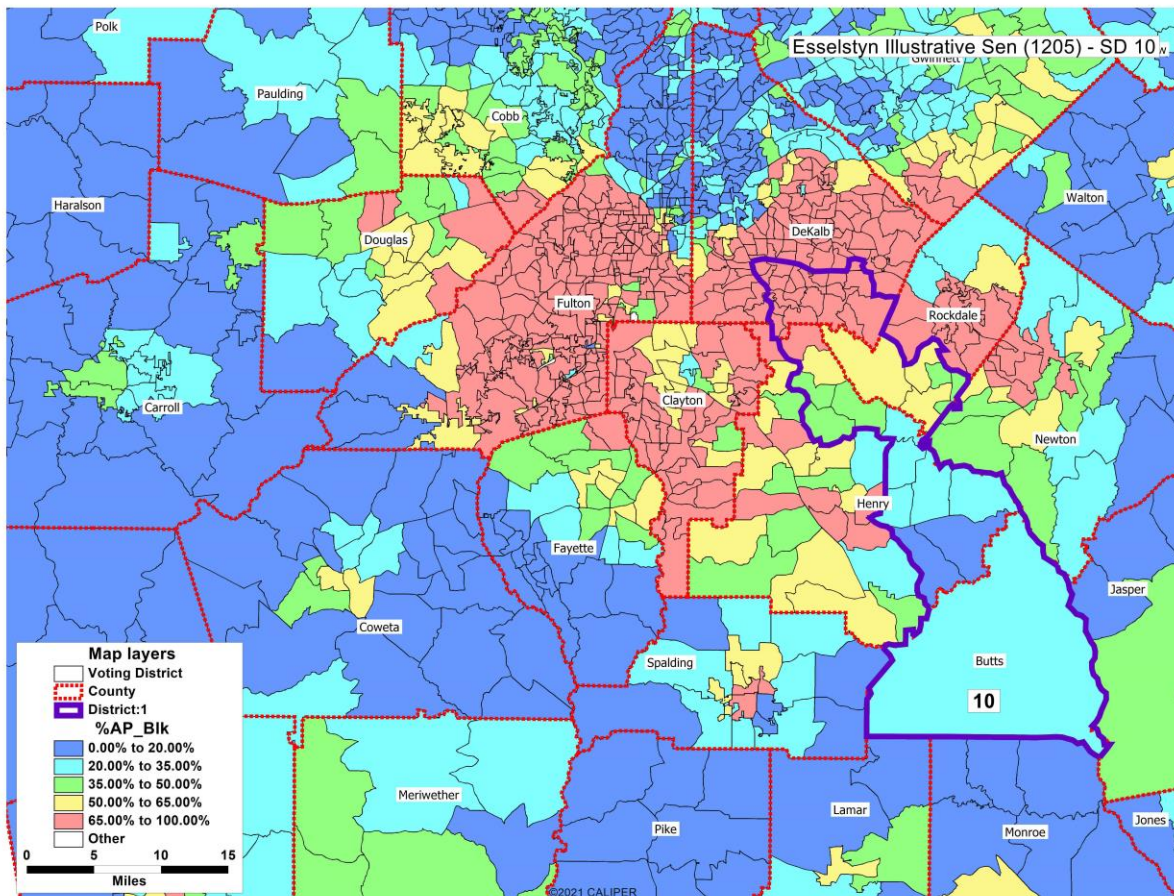
26. Senate District 10 in the enacted plan is anchored in heavily Black southern DeKalb County (Stonecrest area) and follows the western boundary of Henry County down to its southern border with Spalding County. This district has

a Reock compactness score of 0.28 and a Polsby-Popper compactness score of 0.23 and the district is 71.46% 18+AP Black. It is comprised of parts of two counties and measures 25 miles from north to south.



27. In comparison, Senate District 10 in the Esselstyn 1205 Senate plan is anchored in heavily Black southern DeKalb County (Stonecrest area) and stretches through Rockdale County and Henry County to pick up predominantly white Butts County. The construction of Senate District 10 splits a portion of Rockdale County

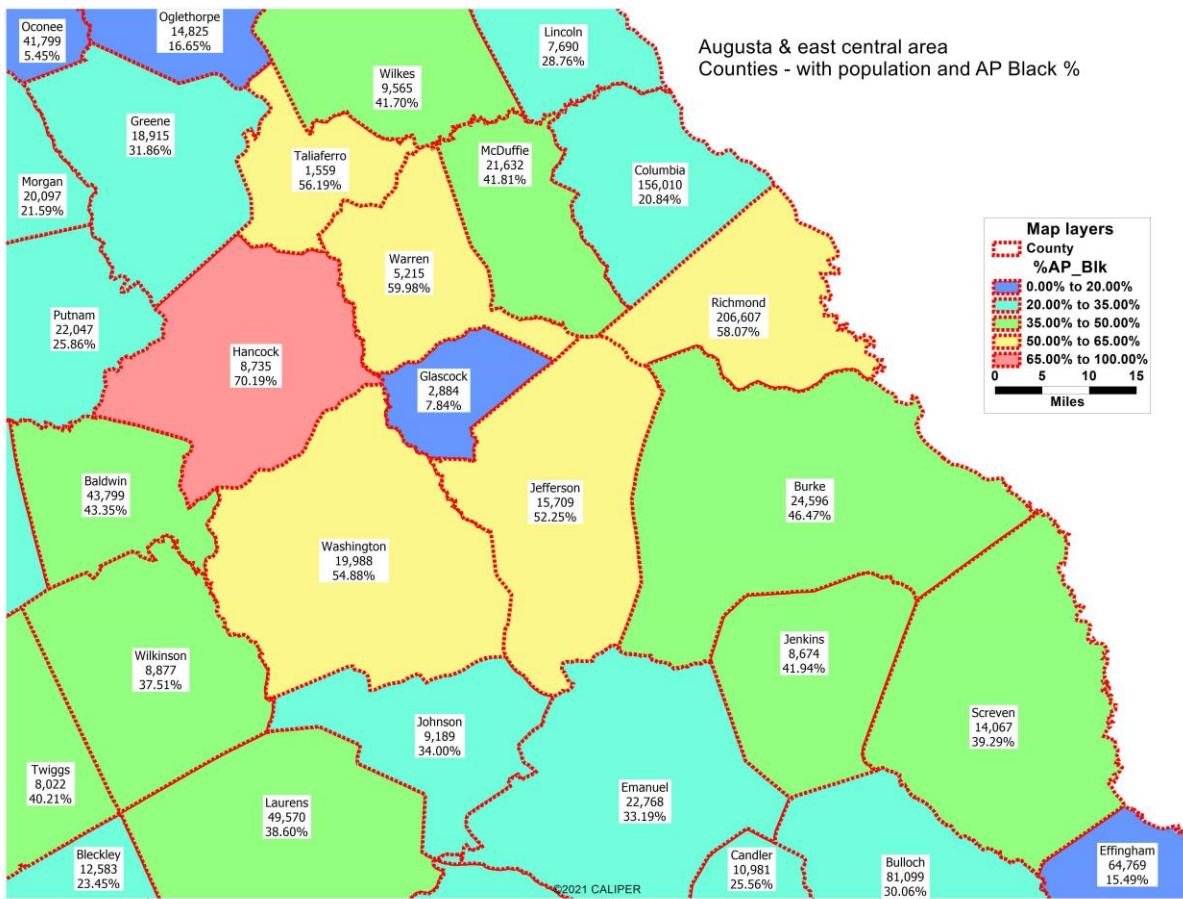
and strategically avoids much of the Black population in Henry County (the portion of Henry County in SD 10 is only 35.1% 18+ AP Black %). This district has a Reock compactness score of 0.25 and a Polsby-Popper compactness score of 0.19 and the district is 61.1% 18+AP Black. It is comprised of parts of four counties and measures 43 miles from north to south.



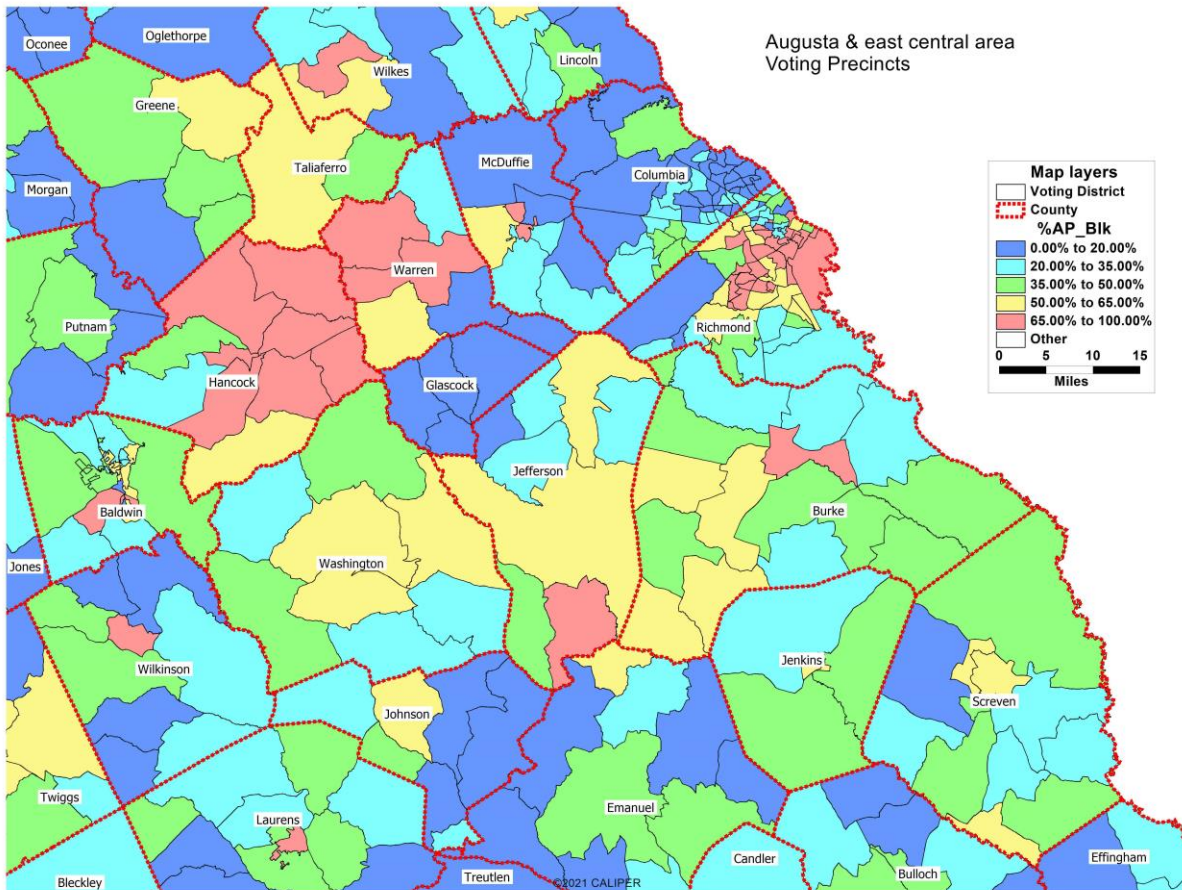
28. Looking at specific districts (as above) shows that the compactness of the districts is impacted by the efforts to create more majority Black districts. The

Black percentage is lowered only by elongating the district to include lower concentrations of Black population. This allows the Black population to be redistributed and to create other majority Black districts.

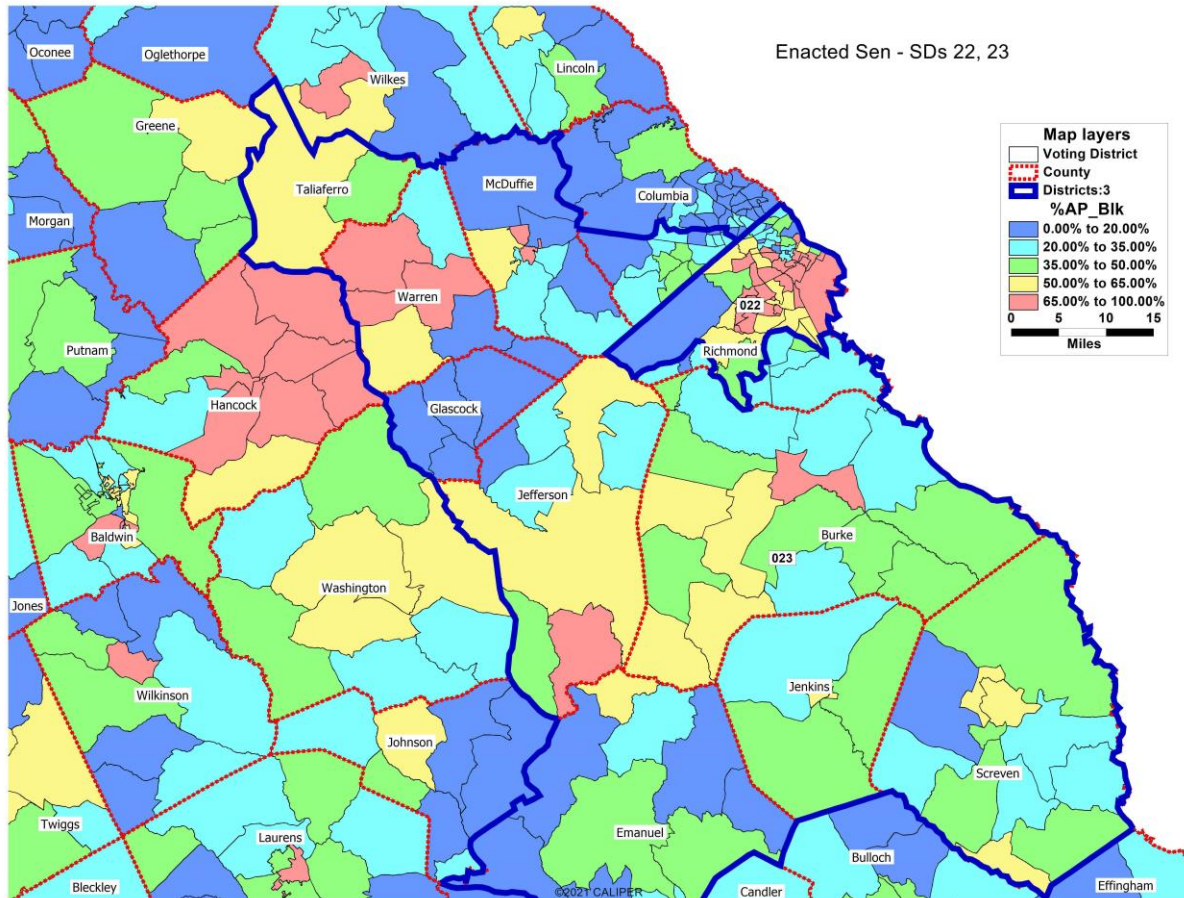
29. Below is a map showing Augusta and the East Central region with a theme of AP-Black % on the counties. The map shows that Richmond County (Augusta) has a majority of AP-Black population. At over 200,000 in population, Richmond County has more than enough population for a Senate district. The map also shows some majority AP-Black population counties, which are not very populous, to the west of Augusta – Washington, Jefferson, Hancock, Warren and Taliaferro.



30. A similarly themed map on the voting districts shows concentrations of Black population in the region.

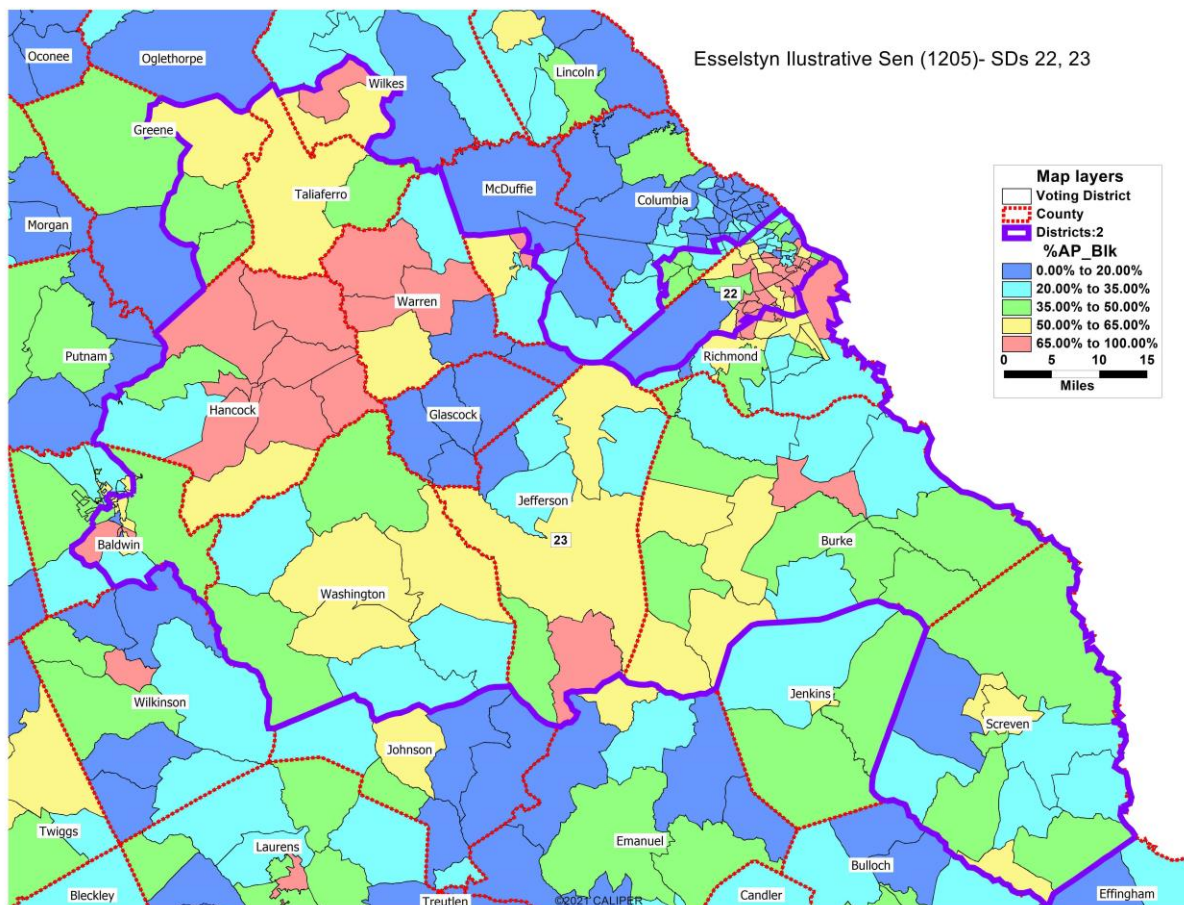


31. Senate District 22 in the enacted plan is drawn entirely within Richmond County. Enacted Senate District 22 has a Reock compactness score of 0.41 and a Polsby-Popper compactness score of 0.29 and the district is 56.5% 18+AP Black. In the enacted plan, the balance of Richmond County is placed in Senate District 23 along with a portion of Columbia County and nine whole counties. Enacted Senate District 23 has a Reock compactness score of 0.37 and a Polsby-Popper compactness score of 0.16 and the district is 35.48% 18+AP Black.



32. In order to change the racial makeup of Senate Districts 22 and 23, the Esselstyn 1205 Senate plan pushes part of SD 22 out of Richmond County into Columbia County. The Esselstyn 1205 Senate plan strategically utilizes the Black population in Columbia County, selecting the highest-concentration AP-Black population voting districts close to the county border in order to keep SD 22 above 50% 18+AP Black population. By moving SD 22 into Columbia County, stronger

concentrations of Black population in Richmond County can be transferred into Senate District 23.



33. The construction of Senate District 23 in the Cooper 1205 Senate plan splits Wilkes, Greene, McDuffie and Baldwin Counties, taking the lion's share of Black population in each of those counties into the district. The map shows that the boundary of Senate District 23 follows the contours of the underlying high concentrations of Black population within voting precincts. Senate District 23

connects many separate enclaves of Black population from these split counties, including Milledgeville in Baldwin County, which measures more than 80 miles away from the eastern part of the district in Augusta. The chart below shows that the counties are split such that the portion with higher concentrations of Black population is in SD 23 and the portion with lower concentrations of Black population is outside the district.

Chart 4: Counties split in Esselstyn Senate 1205 SD 23

Split County	Pop.	AP Black Pop.	VAP	AP Black VAP	% AP Black VAP
Baldwin (in 23)	26833	13267	22274	10300	46%
Baldwin (outside 23)	16966	5718	13458	4215	31%
Greene (in 23)	4747	2373	3666	1772	48%
Greene (outside 23)	14168	3654	11692	2698	23%
McDuffie (in 23)	12164	7350	9042	5130	57%
McDuffie (outside 23)	9468	1695	7573	1295	17%
Richmond (in 23)	47851	28212	36201	20443	56%
Richmond (outside 23)	158756	91758	124698	67487	54%
Wilkes (in 23)	3747	2465	2873	1840	64%
Wilkes (outside 23)	5818	1524	4778	1231	26%

34. As discussed earlier in this report, Esselstyn 1205 Senate district 23 has the lowest population deviation at -1.67% and this deviation has an effect on the 18+AP Black population in the district. Senate District 23 also has the most split counties of any district in the plan at five split counties.

35. The chart below compares the split counties in both the Enacted and Esselstyn 1205 Senate plans as well as some demographic data for those counties. The enacted Senate plan splits 29 counties and the Esselstyn 1205 Senate plan splits 34 counties. Both plans split the same 27 counties.

Chart 5: County splits Enacted SD vs Esselstyn 1205

County	Population	AP Blk	AP Blk %	18+ Pop	18+ AP Blk	18+ AP Blk %	Split in Enacted Senate	Split in Esselstyn Sen 1205
Barrow	83,505	11,907	14.3%	62,195	8,222	13.2%	X	X
Bartow	108,901	13,395	12.3%	83,570	9,377	11.2%	X	X
Chatham	295,291	115,458	39.1%	234,715	85,178	36.3%	X	X
Cherokee	266,620	21,687	8.1%	202,928	14,976	7.4%	X	X
Clarke	128,671	33,672	26.2%	106,830	24,776	23.2%	X	X
Clayton	297,595	216,351	72.7%	220,578	158,854	72.0%	X	X
Cobb	766,149	223,116	29.1%	591,848	166,141	28.1%	X	X
Coffee	43,092	12,575	29.2%	32,419	9,191	28.4%	X	X
Columbia	156,010	32,516	20.8%	114,823	22,273	19.4%	X	X
DeKalb	764,382	407,451	53.3%	595,276	314,230	52.8%	X	X
Fayette	119,194	32,076	26.9%	91,798	23,728	25.8%	X	X
Floyd	98,584	15,606	15.8%	76,295	11,064	14.5%	X	X
Forsyth	251,283	13,222	5.3%	181,193	8,751	4.8%	X	X
Fulton	1,066,710	477,624	44.8%	847,182	368,635	43.5%	X	X
Gordon	57,544	2,919	5.1%	43,500	1,939	4.5%	X	X
Gwinnett	957,062	287,687	30.1%	709,484	202,762	28.6%	X	X
Hall	203,136	17,006	8.4%	153,844	12,094	7.9%	X	X
Henry	240,712	125,211	52.0%	179,973	89,657	49.8%	X	X
Houston	163,633	56,520	34.5%	122,118	39,605	32.4%	X	X
Jackson	75,907	6,148	8.1%	56,451	4,268	7.6%	X	X
Muscogee	206,922	102,212	49.4%	157,052	74,301	47.3%	X	X
Newton	112,483	55,901	49.7%	84,748	40,433	47.7%	X	X
Paulding	168,661	41,296	24.5%	123,998	28,164	22.7%	X	X
Richmond	206,607	119,970	58.1%	160,899	87,930	54.6%	X	X
Walton	96,673	18,804	19.5%	73,098	13,165	18.0%	X	X
Ware	36,251	11,421	31.5%	27,788	8,226	29.6%	X	X
White	28,003	721	2.6%	22,482	484	2.2%	X	X
Bibb	157,346	88,865	56.5%	120,902	64,270	53.2%	X	
Douglas	144,237	74,260	51.5%	108,428	53,377	49.2%	X	

County	Population	AP Blk	AP Blk %	18+ Pop	18+ AP Blk	18+ AP Blk %	Split in Enacted Senate	Split in Esselstyn Sen 1205
Baldwin	43,799	18,985	43.3%	35,732	14,515	40.6%		X
Coweta	146,158	28,289	19.4%	111,155	20,196	18.2%		X
Greene	18,915	6,027	31.9%	15,358	4,470	29.1%		X
McDuffie	21,632	9,045	41.8%	16,615	6,425	38.7%		X
Rockdale	93,570	57,204	61.1%	71,503	41,935	58.6%		X
Wilcox	8,766	3,161	36.1%	7,218	2,693	37.3%		X
Wilkes	9,565	3,989	41.7%	7,651	3,071	40.1%		X
TOTAL							29	34

36. In comparison to the enacted senate plan, the Esselstyn 1205 Senate plan makes two counties whole (Bibb and Douglas counties) but introduces seven new county splits (Baldwin, Coweta, Greene, McDuffie, Rockdale, Wilcox and Wilkes counties). Four of the seven additional county splits are directly due to Senate District 23. All seven additional split counties are attributable to the effort to create new majority Black districts.

37. Based on my analysis of the Esselstyn 1205 Senate plan, the impact of engineering more majority Black districts can be seen in the overall plan metrics and the differences from the enacted plan. Further, my analysis of the traditional redistricting factors – maintaining communities and traditional boundaries, compactness, and deviation - along with the manipulation of the boundaries of the new AP-Black districts, supports my opinion that the Esselstyn 1205 Senate plan is focused on race, prioritizing race to the detriment of traditional redistricting factors.

State House Plan Analysis

38. Using the Population summary reports, I tallied the number of majority-Black districts using any-part Black voting age population for each House plan. The chart below shows the total number of majority-Black districts in the 2021 adopted House plan, the Esselstyn 1205 House plan and the Esselstyn PI House plan, as well as the number of districts in the percentage ranges using the any-part Black voting age population.

Chart 6: Number of Majority-Black House Districts

Majority-Black House Districts			
% AP Black VAP	2021 Adopted Plan	Esselstyn Plan 1205	Esselstyn Plan PI
Over 75%	2	2	2
70% to 75%	9	5	5
65% to 70%	7	8	8
60% to 65%	8	8	8
55% to 60%	11	9	10
52% to 55%	10	12	10
50% to 52%	2	10	11
Total # Districts	49	54	54

39. The 2021 adopted House plan includes 49 majority-Black districts, the Esselstyn 1205 House plan includes 54 majority-Black districts, and the Esselstyn PI House plan has 54 majority-Black districts.

40. The House plan drafted by Mr. Esselstyn (1205) differs slightly from the House plan submitted previously for the preliminary injunction hearing in this case. There are changes affecting eight districts: Districts 61, 65 and 66 exchange population; Districts 128, 133 and 149 exchange population; and Districts 144, and 147 exchange population.

Chart 7: Changes Esselstyn House 1205 from Esselstyn House PI

District	Esselstyn Hse 1205 Pop	Esselstyn Hse 1205 Dev	Esselstyn Hse PI Pop	Esselstyn Hse PI Dev	Pop. Diff	Pop. % Diff	Esselstyn Hse 1205 % AP Black VAP	Esselstyn Hse PI % AP Black VAP
61	58950	-0.94%	58928	-0.98%	22	0.0%	53.5%	64.9%
65	59240	-0.46%	59076	-0.73%	164	0.3%	63.3%	55.3%
66	58961	-0.92%	59147	-0.61%	-186	-0.3%	53.9%	50.6%
128	58864	-1.09%	58869	-1.08%	-5	0.0%	50.4%	50.4%
133	59768	0.43%	59695	0.31%	73	0.1%	26.1%	27.6%
149	59392	-0.20%	59460	-0.09%	-68	-0.1%	51.5%	50.0%
144	58533	-1.64%	58642	-1.46%	-109	-0.2%	24.9%	25.0%
147	58567	-1.59%	58458	-1.77%	109	0.2%	30.5%	30.5%

41. In the Metro Atlanta area, House District 61 exchanges population with House Districts 65 and 66, resulting in a deviation that moves from -0.98% to -0.94% and an 18+ AP Black % that moves from 64.9% to 53.5%.

42. House District 65 exchanges population with House District 61, resulting in a deviation that moves from -0.73% to -0.46% and an 18+ AP Black % that moves from 55.3% to 63.3%.

43. House District 66 exchanges population with House District 61, resulting in a deviation that moves from -0.61% to -0.92% and an 18+ AP Black % that moves from 50.6% to 53.9%.

44. In Houston County, House District 144 exchanges population with House District 147, resulting in a deviation that moves from -1.46% to -1.64% and an 18+ AP Black % that moves from 25.0% to 24.9%.

45. House District 147 exchanges population with House District 144, resulting in a deviation that moves from -1.77% to -1.59% and an 18+ AP Black % that moves from 30.5% to 30.5%.

46. In Baldwin County, House District 128 exchanges population with House District 149, resulting in a deviation that moves from -1.08% to -1.09% and an 18+ AP Black % that moves from 50.4% to 50.4%. The effect of these changes makes the Esselstyn 1205 House District 128 the same as the enacted House District 128.

47. In Baldwin County, House District 133 exchanges population with House District 149, resulting in a deviation that moves from +0.31% to +0.43% and an 18+ AP Black % that moves from 27.6% to 26.1%.

48. In Baldwin County, House District 149 exchanges population with House Districts 128 and 133, resulting in a new deviation that moves from -0.09% to -0.20% and an 18+ AP Black % that moves from 50.0% to 51.5%.

49. Looking more closely at the Esselstyn House 1205 plan, here is a chart that summarizes top-line statistics about the plan and compares them to the enacted plan.

Chart 8: Esselstyn 1205 House and Enacted House Plan comparisons

Plan metrics	Esselstyn House 1205	Enacted House
County splits	70	69
Voting precinct splits	185	184
Mean compactness - Reock	0.39	0.39
Mean compactness - Polsby Popper	0.28	0.28
# Paired incumbents	28	20
# Seats majority 18+_AP_Blk%	54	49
Deviation relative range	-1.94% to 1.91%	-1.40% to 1.34%
Deviation overall range	3.85%	2.74%

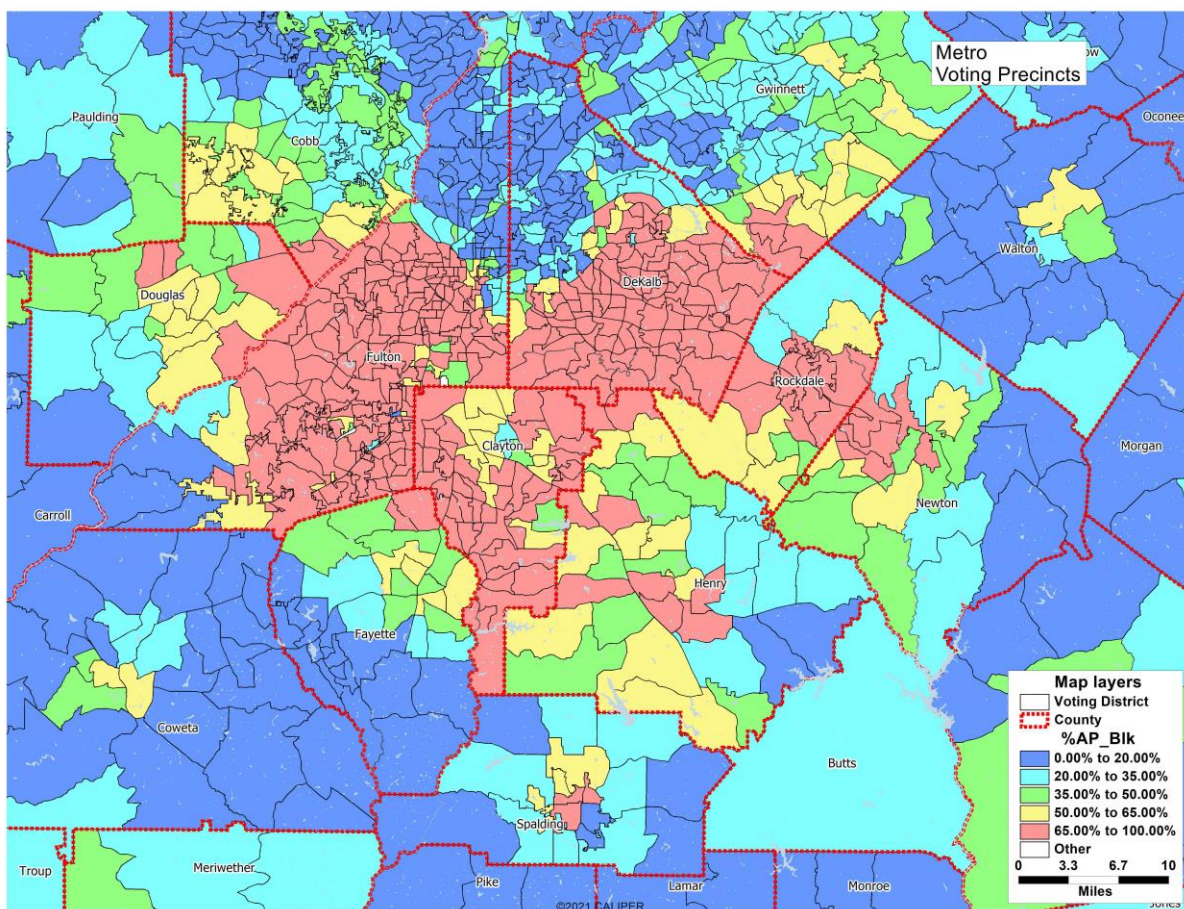
50. The Esselstyn 1205 plan uses a deviation range that is a full percentage point larger in range than the 2021 Enacted House plan. The overall compactness scores on the Esselstyn 1205 House plan and the 2021 enacted House plan are similar; however, of the 25 districts changed in the Esselstyn 1205 House plan, 15

districts are less compact on the Reock measurement, and 14 districts are less compact on the Polsby-Popper measurement. The chart below shows the compactness scores of the newly created majority-Black districts which Mr. Esselstyn identified in his report and the compactness scores of the corresponding district number in the 2021 adopted plans.

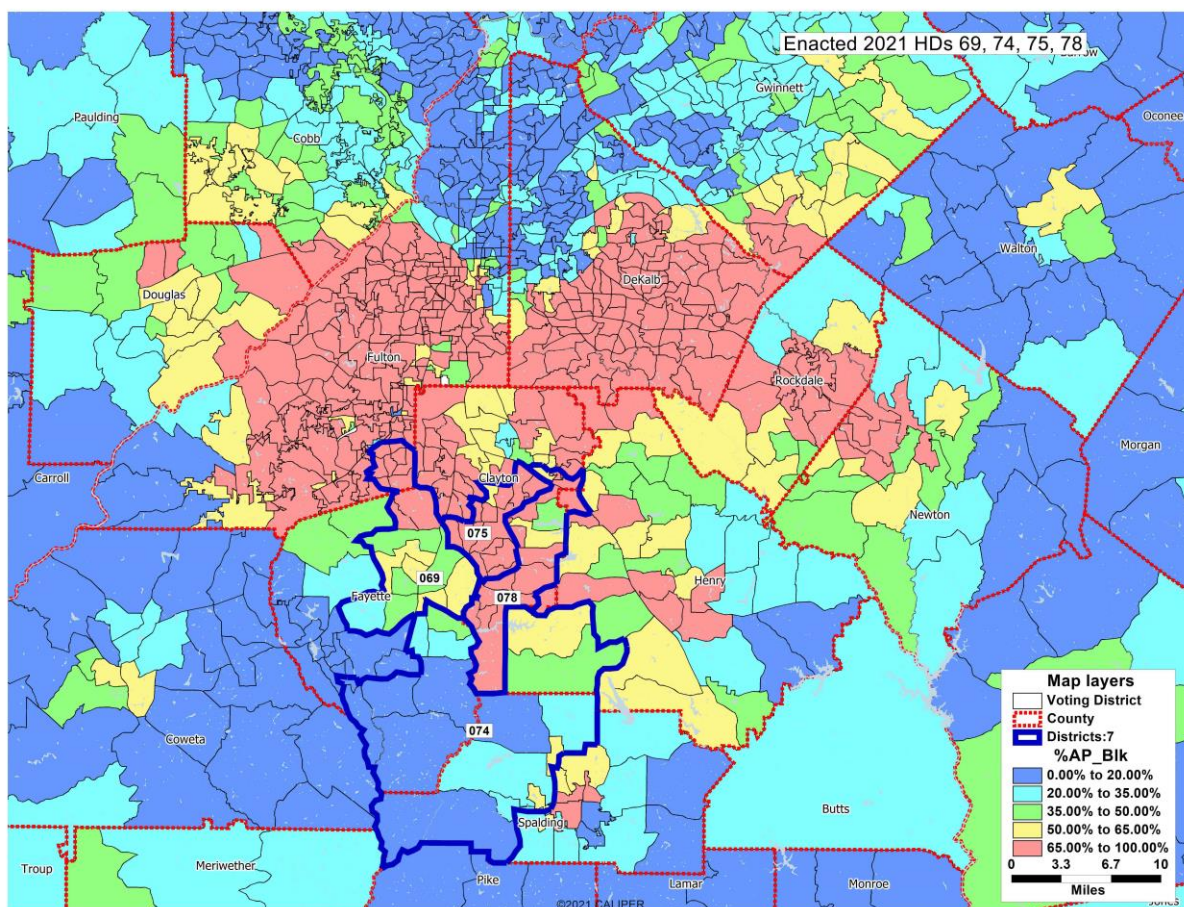
Chart 9: Compactness score summary

New Black-Majority District	Enacted Plan Reock	Esselstyn 1205 Plan Reock	Enacted Plan Polsby-Popper	Esselstyn 1205 Plan Polsby-Popper
House 64	0.37	0.22	0.36	0.22
House 74	0.50	0.30	0.25	0.19
House 117	0.41	0.40	0.28	0.33
House 145	0.38	0.34	0.19	0.21
House 149	0.32	0.46	0.22	0.28

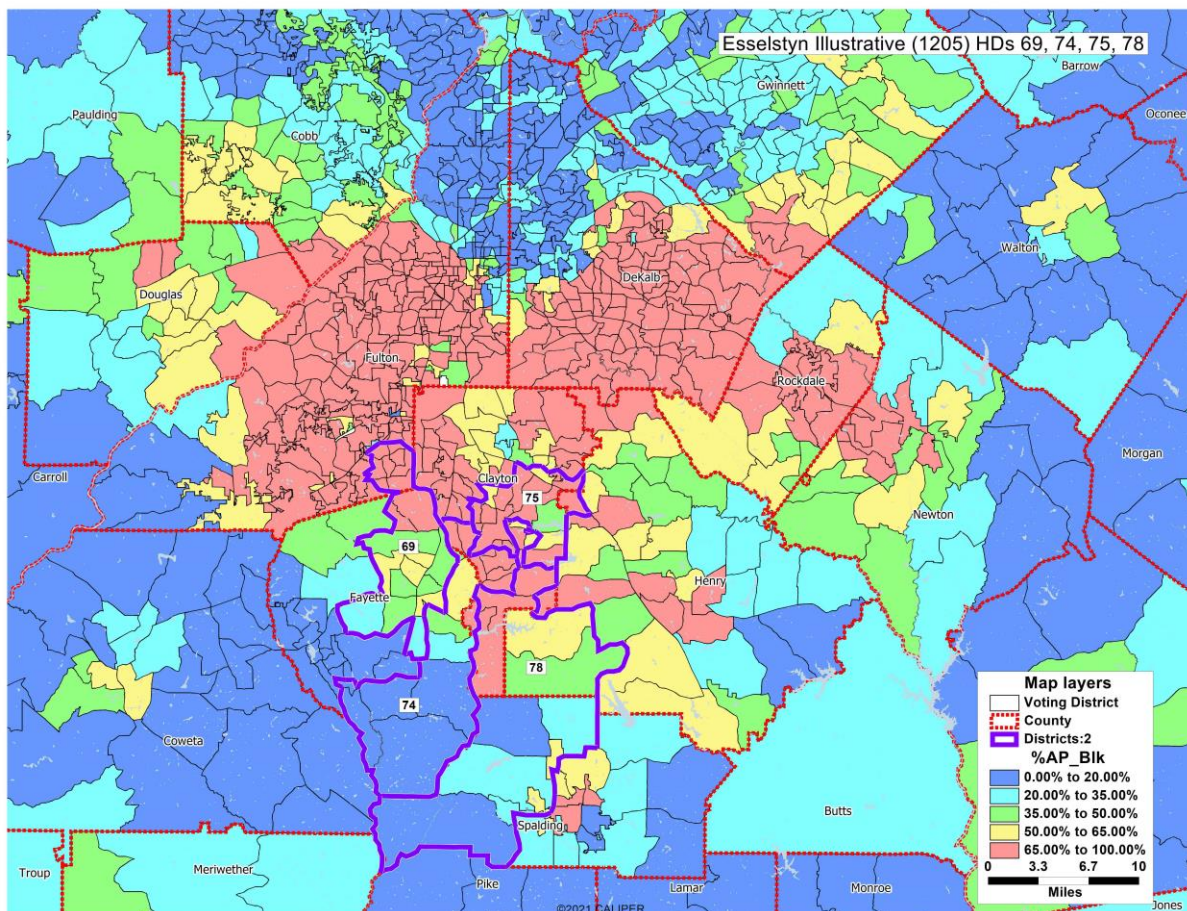
51. Below is a map showing the Metro region with a theme of AP-Black % on the voting districts, as well as maps of a group of four house districts (69, 74, 75, and 78) in the Enacted House and the Esselstyn 1205 House plan.



52. As shown in the Senate plan analysis, the voting districts themed in red have an AP-Black % of greater than 65% and voting districts themed in yellow have an AP-Black % of 50% to 65%. Voting districts themed in green have an AP-Black % of 35% to 50%; light blue have an AP-Black % of 20% to 35%; and darker blue have an AP-Black % of less than 20%.



53. In the enacted House plan, Districts 75 and 78 are primarily within Clayton County, District 69 is anchored in heavily Black southern Fulton County combined with central Fayette County, and District 74 is comprised of southern Fayette County, western Spalding County and two voting precincts of Henry County.



54. In the Esselstyn 1205 House plan, the engineering of a new majority Black district is accomplished by elongating the districts to connect to Clayton County to predominantly white areas of Fayette and Spalding Counties. District 74 takes the “tail” of southern Clayton County and goes south through Henry to western Spalding County. District 74 takes part of Jonesboro in Clayton County, punches through the blocking District 69, to go south to southern Fayette County. The data in the chart below shows that the configuration of these four districts in the Esselstyn

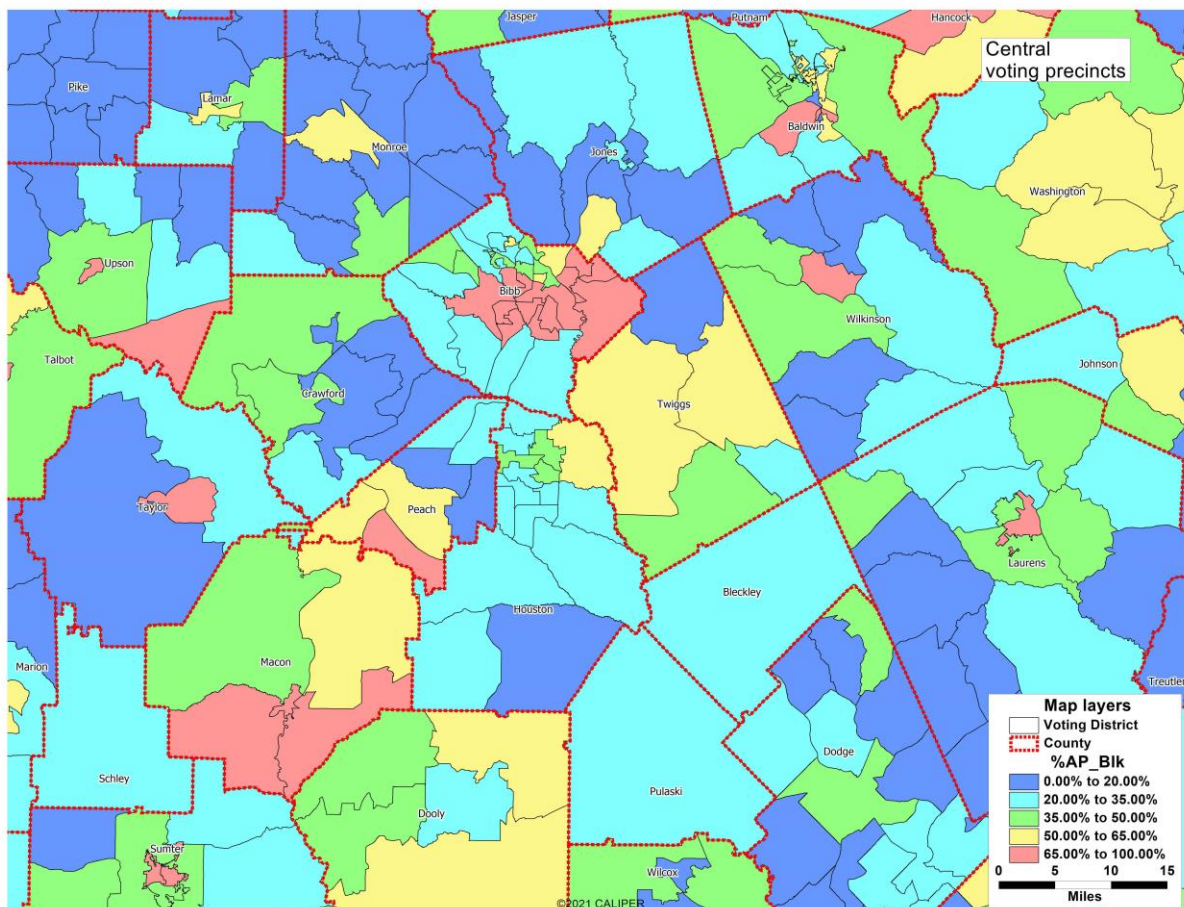
1205 House plan lowers the mean compactness score compared to the configuration of the districts in the Enacted House plan.

Chart 10: Compactness scores in four House districts

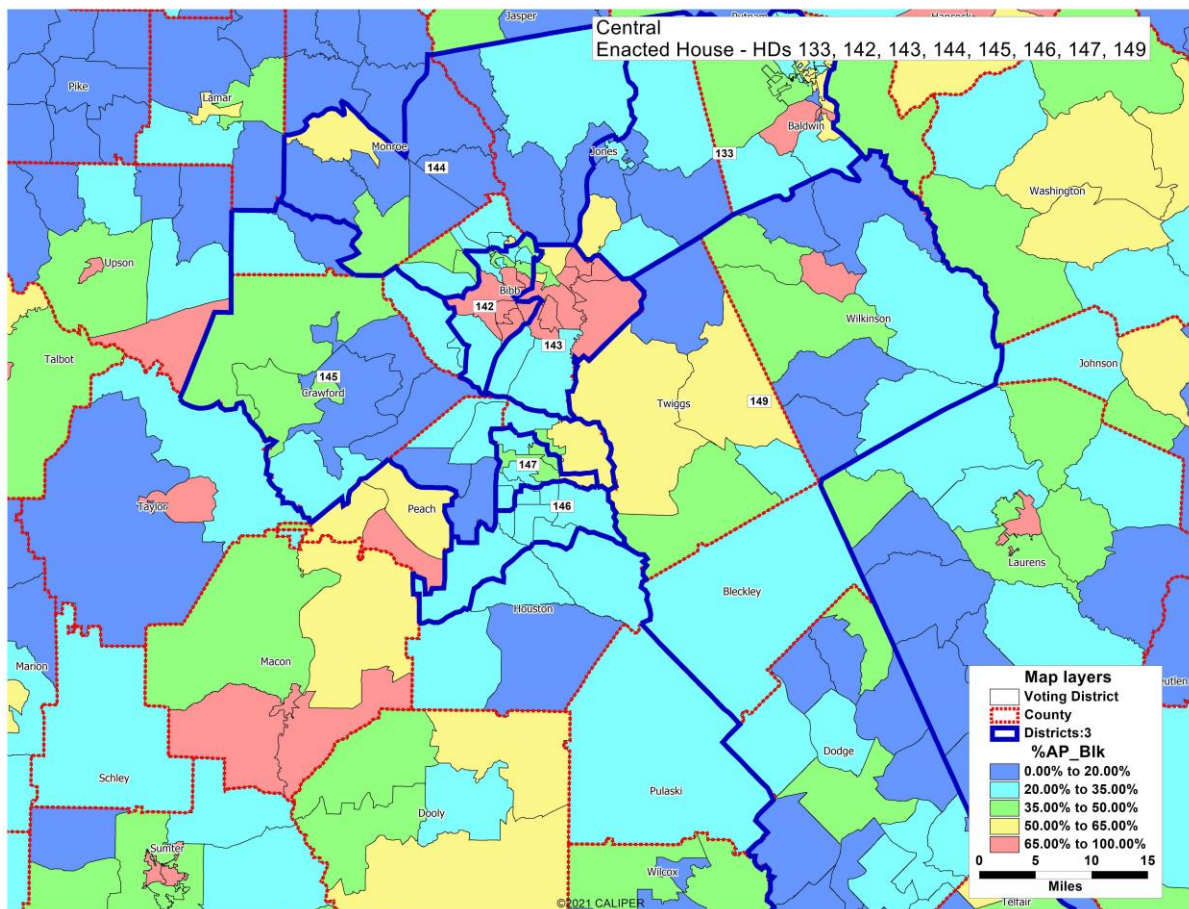
District	Enacted House				Esselstyn House 1205			
	% Devn.	Reock	Polsby-Popper	% 18+ AP Blk	% Devn.	Reock	Polsby-Popper	% 18+ AP Blk
069	-1.39	0.4	0.25	63.56%	-1.94	0.33	0.22	62.7%
074	-0.93	0.5	0.25	25.52%	-1.84	0.3	0.19	53.9%
075	0.39	0.42	0.28	74.40%	0.42	0.46	0.18	66.9%
078	-0.78	0.21	0.19	71.58%	0.64	0.31	0.18	51.0%
Mean Compactness		0.38	0.24			0.35	0.19	

55. Looking at specific districts (as above) shows that the compactness of the districts is impacted by the efforts to create more majority Black districts. The Black percentage is lowered only by elongating the district to include lower concentrations of Black population. This allows the Black population to be redistributed and to create other majority Black districts.

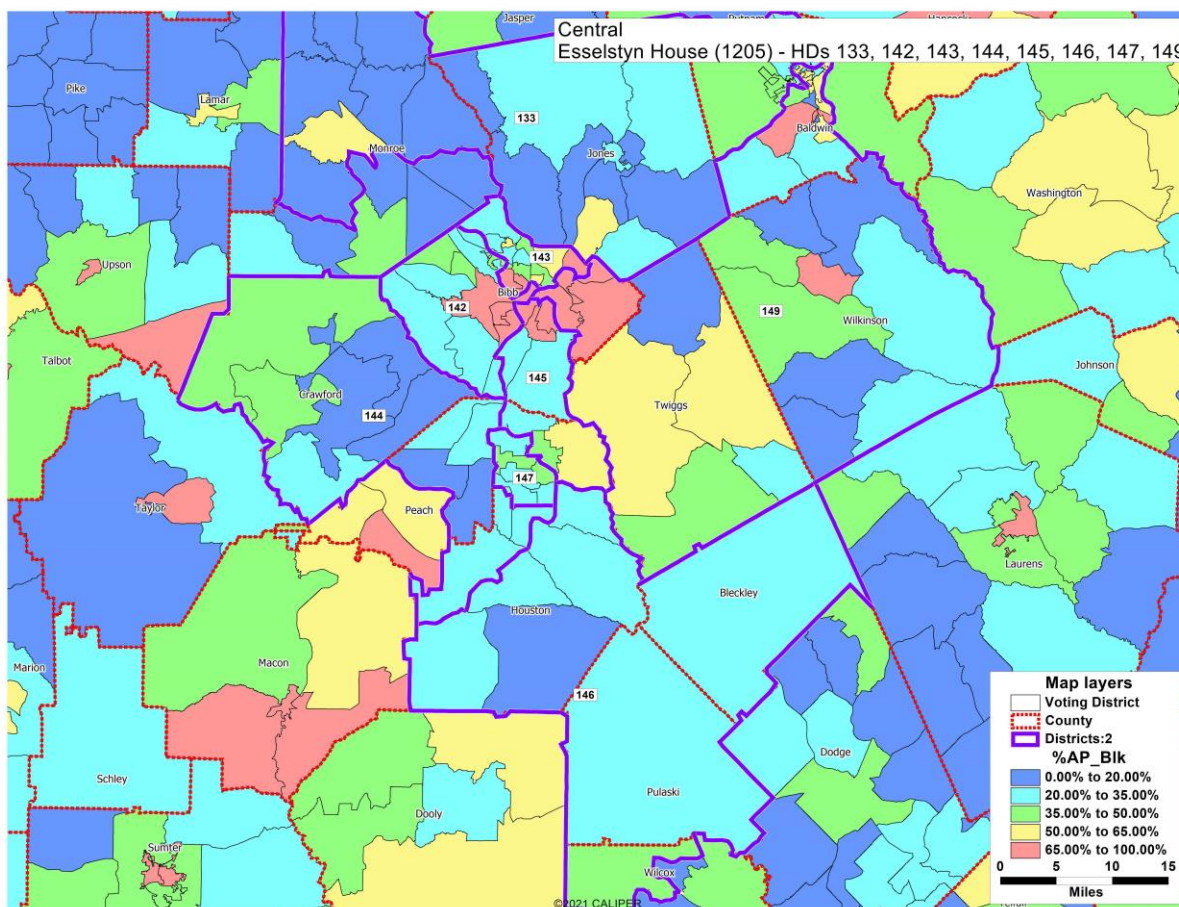
56. Below is a map showing Central Georgia around Macon with a theme of AP-Black % on the voting districts. The map shows a concentration of Black population in Bibb County (Macon) as well as enclaves of majority AP-Black population voting precincts within the center of the surrounding rural counties.



57. The enacted plan has two majority 18+AP Black districts drawn entirely within Bibb County. Enacted House District 143 is in the eastern portion of Bibb County, enacted House District 142 is in the central portion of Bibb County, leaving the western portion of Bibb County in districts to the north and west.



58. In order to create additional majority 18+AP-Black districts in the Macon area, the Esselstyn 1205 House plan moves House Districts 142 and 143 to the west and lowers their 18+AP-Black % to barely 50%. The plan strategically utilizes the remaining Black population in Bibb County, to spin one district to the south to pick-up Black population from the Robins Air Force base in Houston County and spin one district to the east to connect through two counties to Milledgeville in Baldwin County.



59. The chart below compares the split counties in both the Enacted and Esselstyn 1205 House plans as well as some demographic data for those counties. The enacted House plan splits 69 counties and the Esselstyn 1205 House plan splits 70 counties. Both plans split the same 68 counties.

Chart 11: County splits Enacted HD vs Esselstyn 1205

Name	Population	AP Blk	AP Blk %	18+ Pop	18+ AP Blk	18+ AP Blk %	Split in Enacted House	Split in Esselstyn 1205 House
Appling	18,444	3,647	19.8%	13,958	2,540	18.2%	x	x
Baldwin	43,799	18,985	43.3%	35,732	14,515	40.6%	x	x
Barrow	83,505	11,907	14.3%	62,195	8,222	13.2%	x	x
Bartow	108,901	13,395	12.3%	83,570	9,377	11.2%	x	x
Ben Hill	17,194	6,537	38.0%	13,165	4,745	36.0%	x	x
Bibb	157,346	88,865	56.5%	120,902	64,270	53.2%	x	x
Bryan	44,738	7,463	16.7%	31,828	5,025	15.8%	x	x
Bulloch	81,099	24,375	30.1%	64,494	18,220	28.3%	x	x
Carroll	119,148	24,618	20.7%	90,996	17,827	19.6%	x	x
Catoosa	67,872	2,642	3.9%	52,448	1,684	3.2%	x	x
Chatham	295,291	115,458	39.1%	234,715	85,178	36.3%	x	x
Cherokee	266,620	21,687	8.1%	202,928	14,976	7.4%	x	x
Clarke	128,671	33,672	26.2%	106,830	24,776	23.2%	x	x
Clayton	297,595	216,351	72.7%	220,578	158,854	72.0%	x	x
Cobb	766,149	223,116	29.1%	591,848	166,141	28.1%	x	x
Coffee	43,092	12,575	29.2%	32,419	9,191	28.4%	x	x
Columbia	156,010	32,516	20.8%	114,823	22,273	19.4%	x	x
Cook	17,229	5,014	29.1%	12,938	3,595	27.8%	x	x
Coweta	146,158	28,289	19.4%	111,155	20,196	18.2%	x	x
Dawson	26,798	392	1.5%	21,441	249	1.2%	x	x
DeKalb	764,382	407,451	53.3%	595,276	314,230	52.8%	x	x
Dougherty	85,790	61,457	71.6%	66,266	45,631	68.9%	x	x
Douglas	144,237	74,260	51.5%	108,428	53,377	49.2%	x	x
Effingham	64,769	10,035	15.5%	47,295	6,831	14.4%	x	x
Fayette	119,194	32,076	26.9%	91,798	23,728	25.8%	x	x
Floyd	98,584	15,606	15.8%	76,295	11,064	14.5%	x	x
Forsyth	251,283	13,222	5.3%	181,193	8,751	4.8%	x	x
Fulton	1,066,710	477,624	44.8%	847,182	368,635	43.5%	x	x
Glynn	84,499	22,098	26.2%	66,468	15,620	23.5%	x	x
Gordon	57,544	2,919	5.1%	43,500	1,939	4.5%	x	x
Grady	26,236	7,693	29.3%	19,962	5,678	28.4%	x	x
Gwinnett	957,062	287,687	30.1%	709,484	202,762	28.6%	x	x
Habersham	46,031	2,165	4.7%	35,878	1,675	4.7%	x	x
Hall	203,136	17,006	8.4%	153,844	12,094	7.9%	x	x
Harris	34,668	5,742	16.6%	26,799	4,431	16.5%	x	x
Henry	240,712	125,211	52.0%	179,973	89,657	49.8%	x	x

Name	Population	AP Blk	AP Blk %	18+ Pop	18+ AP Blk	18+ AP Blk %	Split in Enacted House	Split in Esselstyn 1205 House
Houston	163,633	56,520	34.5%	122,118	39,605	32.4%	x	x
Jackson	75,907	6,148	8.1%	56,451	4,268	7.6%	x	x
Jasper	14,588	2,676	18.3%	11,118	1,966	17.7%	x	x
Lamar	18,500	5,220	28.2%	14,541	4,017	27.6%	x	x
Liberty	65,256	31,146	47.7%	48,014	21,700	45.2%	x	x
Lowndes	118,251	46,758	39.5%	89,031	33,302	37.4%	x	x
Lumpkin	33,488	685	2.0%	27,689	507	1.8%	x	x
Madison	30,120	3,196	10.6%	23,112	2,225	9.6%	x	x
McDuffie	21,632	9,045	41.8%	16,615	6,425	38.7%	x	x
Meriwether	20,613	7,547	36.6%	16,526	5,845	35.4%	x	x
Monroe	27,957	6,444	23.0%	21,913	5,068	23.1%	x	x
Muscogee	206,922	102,212	49.4%	157,052	74,301	47.3%	x	x
Newton	112,483	55,901	49.7%	84,748	40,433	47.7%	x	x
Oconee	41,799	2,280	5.5%	30,221	1,660	5.5%	x	x
Paulding	168,661	41,296	24.5%	123,998	28,164	22.7%	x	x
Peach	27,981	12,645	45.2%	22,111	9,720	44.0%	x	x
Putnam	22,047	5,701	25.9%	17,847	4,229	23.7%	x	x
Richmond	206,607	119,970	58.1%	160,899	87,930	54.6%	x	x
Rockdale	93,570	57,204	61.1%	71,503	41,935	58.6%	x	x
Spalding	67,306	24,522	36.4%	52,123	17,511	33.6%	x	x
Sumter	29,616	15,546	52.5%	23,036	11,479	49.8%	x	x
Tattnall	22,842	6,331	27.7%	17,654	4,886	27.7%	x	x
Telfair	12,477	4,754	38.1%	10,190	3,806	37.4%	x	x
Thomas	45,798	16,975	37.1%	35,037	12,332	35.2%	x	x
Tift	41,344	12,734	30.8%	31,224	8,963	28.7%	x	x
Troup	69,426	25,473	36.7%	52,581	18,202	34.6%	x	x
Walker	67,654	3,664	5.4%	52,794	2,454	4.6%	x	x
Walton	96,673	18,804	19.5%	73,098	13,165	18.0%	x	x
Ware	36,251	11,421	31.5%	27,788	8,226	29.6%	x	x
Wayne	30,144	6,390	21.2%	23,105	4,662	20.2%	x	x
White	28,003	721	2.6%	22,482	484	2.2%	x	x
Whitfield	102,864	4,919	4.8%	76,262	3,349	4.4%	x	x
Jones	28,347	7,114	25.1%	21,575	5,341	24.8%	x	
Dodge	19,925	6,148	30.9%	15,709	4,725	30.1%		x
Wilcox	8,766	3,161	36.1%	7,218	2,693	37.3%		x
TOTAL							69	70

60. In comparison to the enacted House plan, the Esselstyn 1205 House plan makes one county whole (Jones) but introduces two new county splits (Dodge and Wilcox). Both additional split counties are attributable to the effort to create new majority Black districts.

61. Based on my analysis of the Esselstyn 1205 House plan, the impact of engineering more majority Black districts can be seen in the overall plan metrics and the differences from the enacted plan. Further, my analysis of the traditional redistricting factors – maintaining communities and traditional boundaries, compactness, and deviation – along with the manipulation of the boundaries of the new AP-Black districts, supports my opinion that the Esselstyn 1205 House plan is focused on race, prioritizing race to the detriment of traditional redistricting factors.

I declare under penalty of perjury that the foregoing is true and correct.

Executed this 23rd day of January, 2023.



JOHN B. MORGAN

EXHIBIT 1

JOHN B. MORGAN

Curriculum Vitae

Redistricting Background and Experience

- Performed redistricting work in 20 states, in the areas of map drawing, problem-solving and redistricting software operation.
- Performed demographic and election analysis work in 40 states, for both statewide and legislative candidates

2021-2022 Redistricting Cycle

- Mapping expert for Michigan Independent Citizens Redistricting Commission
- Mapping expert for Virginia Redistricting Commission
- Mapping expert for New Jersey Congressional Redistricting Commission
- Mapping expert for New Jersey Legislative Redistricting Commission
- Staff analyst for New Mexico Senate Republican caucus – Dec. 2021 special session
- Mapping consultant to Indiana State Senate Republican caucus
- Mapping consultant to redistricting commissioners in Atlantic County, New Jersey
- Drafted county commission districts for Sampson County, North Carolina
- Drafted wards for town of Brownsburg, Indiana

2011-2012 Redistricting Cycle

- Served as a consultant for:
 - Connecticut Redistricting Commission
 - Ohio Reapportionment Board
 - New Jersey Legislative Redistricting Commission
 - New Jersey Congressional Redistricting Commission
 - Pennsylvania Legislative Reapportionment Commission
- Drafted Wake County, North Carolina school board districts
- Drafted county commission districts in Sampson and Craven counties in North Carolina and Atlantic County in New Jersey
- Worked with redistricting commissions in Atlantic and Essex counties, New Jersey.
- Worked on statewide congressional, legislative, and local plans in the following states: Connecticut, Indiana, Kansas, Missouri, New Jersey, New Mexico, North Carolina, Ohio, Pennsylvania, South Carolina, and Virginia
- Plans drafted by Morgan adopted in whole or part by the following states: Connecticut, Indiana, New Jersey, New Mexico, North Carolina, South Carolina, Virginia.

2001-2002 Redistricting Cycle

- Worked on statewide congressional and legislative redistricting plans in the following states: Florida, Georgia, Indiana, Iowa, New Jersey, North Carolina, Pennsylvania, Rhode Island, and Virginia.
- Dealt with redistricting issues as a member of the Majority Leader's legislative staff in Virginia House of Delegates. Drafted alternate plans for use by the minority parties in

Rhode Island. Drafted alternate plans for use by legislative leadership in considering plans drawn by redistricting commission staff in Iowa.

1991-1992 Redistricting Cycle

- Worked on statewide congressional and legislative redistricting plans in the following states: Florida, Illinois, Indiana, Michigan, New Jersey, New York, Pennsylvania, Wisconsin.
- Focused primarily on Voting Rights Act issues with Black, Hispanic and Asian communities.
- Federal court incorporated portion of legislative plan drafted in part by Morgan for Wisconsin into final decree, finding the configuration superior to other plans in its treatment of minority voters.

Expert Experience and Trial Testimony

- Recognized as an expert in demographics and redistricting in *Egolf v. Duran*, New Mexico First Judicial District Court, Case No. D-101-CV-2011-02942, which dealt with New Mexico's legislative plans.
- In *Egolf v. Duran*, the Court adopted a House redistricting plan principally drafted by Morgan.
- Filed expert reports in *Georgia State Conference of NAACP v. Fayette County Board of Commissioners*.
- Filed expert reports and expert testimony in *Page v. Board of Elections*, Eastern District of Virginia; provided expert testimony at trial.
- Testified at trial in *Bethune Hill v. Virginia Board of Elections* and *Vesilind v. Virginia Board of Elections*.
- Filed expert report in *Georgia NAACP v. Gwinnett County*.
- Filed expert reports and expert testimony *Alpha Phi Alpha v. Raffensperger*; *Grant v. Raffensperger*; and *Pendergrass v. Raffensperger*

Education

- Bachelor of Arts degree in History from the University of Chicago
- Graduated with honors.
- Bachelor's Honors thesis on "The Net Effects of Gerrymandering 1896-1932."
- Demographic study on LaSalle, Illinois was published in *The History of the Illinois and Michigan Canal, Volume Five*.

Employment

- President of Applied Research Coordinates, a consulting firm specializing in political and demographic analysis and its application to elections and redistricting, 2007 to present
- Redistricting consultant for many legislatures and commissions: 1991, 2001, 2011, 2021
- Executive Director, GOPAC (Hon. J.C. Watts, Chairman), 2004-2007
- Vice-President of Applied Research Coordinates, 1999-2004
- National Field Director, GOPAC (Rep. John Shadegg, Chairman) 1995-1999
- Research Analyst, Applied Research Coordinates 1991-1995
- Research Analyst, Republican National Committee 1988-1989, summer

EXHIBIT 2

User:

Plan Name: Grant_Esselstyn_Sen_illus_12_05

Plan Type:

Measures of Compactness Report

Measures of Compactness Report

Grant_Esselstyn_Sen_illus_12_05

	Reock	Polsby-Popper
Sum	N/A	N/A
Min	0.17	0.13
Max	0.68	0.50
Mean	0.41	0.28
Std. Dev.	0.11	0.09

District	Reock	Polsby-Popper
1	0.49	0.31
2	0.47	0.22
3	0.39	0.21
4	0.47	0.27
5	0.17	0.21
6	0.42	0.23
7	0.35	0.34
8	0.45	0.23
9	0.24	0.21
10	0.25	0.19
11	0.36	0.33
12	0.62	0.39
13	0.48	0.25
14	0.27	0.24
15	0.57	0.32
16	0.39	0.27
17	0.35	0.16
18	0.38	0.20
19	0.53	0.37

District	Reock	Polsby-Popper
20	0.28	0.24
21	0.42	0.33
22	0.33	0.32
23	0.34	0.17
24	0.27	0.23
25	0.57	0.34
26	0.44	0.25
27	0.50	0.46
28	0.38	0.19
29	0.58	0.42
30	0.41	0.38
31	0.40	0.46
32	0.29	0.21
33	0.40	0.22
34	0.31	0.21
35	0.59	0.42
36	0.32	0.30
37	0.49	0.37
38	0.37	0.20
39	0.18	0.13
40	0.51	0.34
41	0.51	0.30
42	0.47	0.25
43	0.49	0.25
44	0.33	0.24
45	0.35	0.30
46	0.37	0.21
47	0.36	0.19
48	0.35	0.34
49	0.46	0.34
50	0.45	0.23

District	Reock	Polsby-Popper
51	0.68	0.50
52	0.47	0.25
53	0.49	0.40
54	0.60	0.44
55	0.34	0.27
56	0.38	0.30

Measures of Compactness Summary

Reock The measure is always between 0 and 1, with 1 being the most compact.
Polsby-Popper The measure is always between 0 and 1, with 1 being the most compact.

EXHIBIT 3

User:

Plan Name: Grant_Esselstyn_Sen_illus_12_05

Plan Type:

Districts & Their Incumbents

Districts & Their Incumbents

Grant_Esselstyn_Sen_illus_12_05

District	Name	Party	Previous District
1	Ben Watson	R	1
2	Lester Jackson, III	D	2
3	Sheila McNeill	R	3
4	Billy Hickman	R	4
5	Sheikh Rahman	D	5
6	Jen Jordan	D	6
7			
8	Russ Goodman	R	8
9	Nikki Merritt	D	9
10	Burt Jones	R	25
10	Emanuel Jones	D	10
11	Dean Burke	R	11
12	Freddie Powell Sims	D	12
13	Carden Summers	R	13
13	Tyler Harper	R	7
14			
15	Ed Harbison	D	15
16	Marty Harbin	R	16
17			
18	John Kennedy	R	18
19	Blake Tillery	R	19
20	Larry Walker III	R	20
21	Brandon Beach	R	21
22	Harold Jones	D	22
23	Max Burns	R	23
24	Lee Anderson	R	24
25	Brian Strickland	R	17
26	David Lucas	D	26
27	Greg Dolezal	R	27
28	Matt Brass	R	28
29	Randy Robertson	R	29
30	Mike Dugan	R	30
31	Jason Anavitarte	R	31
32	Kay Kirkpatrick	R	32
33	Michael Rhett	D	33
34	Valencia Seay	D	34
35	Donzella James	D	35
36	Nan Orrock	D	36
37	Lindsey Tippins	R	37
38	Horacena Tate	D	39

39	Sonya Halpern	D	39
40	Sally Harrell	D	40
41	Kim Jackson	D	41
42	Elena Parent	D	42
43	Tonya Anderson	D	43
44	Gail Davenport	D	44
45	Clint Dixon	R	45
46	Bill Cowser	R	46
47	Frank Ginn	R	47
48	Michelle Au	D	48
49	Butch Miller	R	49
50	Bo Hatchett	R	50
51	Steve Gooch	R	51
52	Chuck Hufstetler	R	52
52	Bruce Thompson	R	14
53	Jeff Mullis	R	53
54	Chuck Payne	R	54
55	Gloria Butler	D	55
56	John Albers	R	56




Number of Incumbents in District with more than one Incumbent:	6	
Number of Districts with No Incumbent:	3	
Number of Districts with Incumbents of more than one party:	1	
Number of Districts with Paired Democrats:	0	
Number of Districts with Paired Republicans:	2	

EXHIBIT 4

User:

Plan Name: Grant_Esselstyn_Sen_illus_12_05

Plan Type:

Population Summary

Population Summary

Grant_Esselstyn_Sen_illus_12_05

District	Population	Deviation	% Devn.	[% 18+_AP_Blk]	[% Black]
1	191,402	118	0.06%	25.08%	24.27%
2	190,408	-876	-0.46%	46.86%	48.03%
3	191,212	-72	-0.04%	21.18%	21.28%
4	191,098	-186	-0.10%	23.37%	22.86%
5	191,921	637	0.33%	29.94%	27.57%
6	191,834	550	0.29%	22.95%	21%
7	189,709	-1,575	-0.82%	21.44%	20.56%
8	192,396	1,112	0.58%	30.38%	30.35%
9	192,915	1,631	0.85%	29.53%	29%
10	192,601	1,317	0.69%	61.1%	59.43%
11	189,976	-1,308	-0.68%	31.04%	31.3%
12	190,819	-465	-0.24%	57.97%	59.08%
13	194,905	3,621	1.89%	27.24%	27.41%
14	192,533	1,249	0.65%	18.97%	17.15%
15	189,446	-1,838	-0.96%	54%	52.99%
16	190,077	-1,207	-0.63%	19.72%	19.46%
17	193,838	2,554	1.34%	21.77%	21.64%
18	192,680	1,396	0.73%	30.04%	29.57%
19	192,316	1,032	0.54%	25.72%	25.16%
20	194,919	3,635	1.90%	32.45%	32.35%
21	192,572	1,288	0.67%	7.46%	6.66%
22	188,930	-2,354	-1.23%	50.84%	50.98%
23	188,095	-3,189	-1.67%	51.06%	51.48%
24	194,277	2,993	1.56%	18.38%	17.49%
25	192,708	1,424	0.74%	58.93%	58.22%
26	190,535	-749	-0.39%	52.84%	54.05%
27	190,676	-608	-0.32%	5%	4.43%
28	189,696	-1,588	-0.83%	57.28%	56.2%
29	189,424	-1,860	-0.97%	26.88%	26.49%
30	191,939	655	0.34%	15.77%	14.88%
31	192,755	1,471	0.77%	19.61%	19.22%
32	192,448	1,164	0.61%	14.86%	13.56%
33	192,694	1,410	0.74%	42.96%	41.18%
34	192,023	739	0.39%	58.97%	57.52%
35	193,194	1,910	1.00%	54.05%	52.94%
36	192,282	998	0.52%	51.34%	51.92%
37	192,671	1,387	0.73%	19.27%	18.38%
38	190,605	-679	-0.35%	66.36%	64.48%

Population Summary

Grant_Esselstyn_Sen_illus_12_05

39	190,184	-1,100	-0.58%	60.21%	60.38%
40	190,544	-740	-0.39%	19.24%	16.84%
41	191,023	-261	-0.14%	62.61%	60.99%
42	190,153	-1,131	-0.59%	29.09%	26.9%
43	191,784	500	0.26%	58.52%	57.48%
44	188,256	-3,028	-1.58%	71.52%	69.94%
45	190,692	-592	-0.31%	18.58%	17.52%
46	190,312	-972	-0.51%	16.9%	16.88%
47	190,607	-677	-0.35%	17.42%	17.14%
48	190,123	-1,161	-0.61%	9.47%	8.51%
49	189,355	-1,929	-1.01%	7.96%	7.32%
50	189,320	-1,964	-1.03%	5.61%	5.13%
51	190,167	-1,117	-0.58%	1.21%	0.88%
52	190,799	-485	-0.25%	13.04%	12.56%
53	190,236	-1,048	-0.55%	5.1%	4.52%
54	192,443	1,159	0.61%	3.79%	3.13%
55	190,155	-1,129	-0.59%	65.97%	63.85%
56	191,226	-58	-0.03%	7.57%	6.5%

Total Population: 10,711,908

Ideal District Population: 191,284

Summary Statistics:

Population Range: 188,095 to 194,919

Ratio Range: 0.04

Absolute Range: -3,189 to 3,635

Absolute Overall Range: 6824

Relative Range: -1.67% to 1.90%

Relative Overall Range: 3.57%

Absolute Mean Deviation: 1283.86

Relative Mean Deviation: 0.67%

Standard Deviation: 1529.53

EXHIBIT 5

User:

Plan Name: Grant_Esselstyn_Sen_12_05

Plan Type:

Political Subdivision Splits Between Districts

Political Subdivision Splits Between Districts

Grant_Esselstyn_Sen_12_05

Number of subdivisions not split:

County	125
Voting District	2,649

Number of subdivisions split into more than one district:

County	34
Voting District	49

Number of splits involving no population:

County	0
Voting District	7

Split Counts

County

Cases where an area is split among 2 Districts: 22

Cases where an area is split among 3 Districts: 7

Cases where an area is split among 4 Districts: 1

Cases where an area is split among 6 Districts: 1

Cases where an area is split among 7 Districts: 1

Cases where an area is split among 9 Districts: 1

Cases where an area is split among 10 Districts: 1

Voting District

Cases where an area is split among 2 Districts: 48

Cases where an area is split among 3 Districts: 1

County	Voting District	District	Population
<i>Split Counties:</i>			
Baldwin GA		17	16,966
Baldwin GA		23	26,833
Barrow GA		45	39,217
Barrow GA		46	17,116
Barrow GA		47	27,172
Bartow GA		37	11,130
Bartow GA		52	97,771
Chatham GA		1	81,408
Chatham GA		2	190,408
Chatham GA		4	23,475
Cherokee GA		21	109,034
Cherokee GA		32	90,981
Cherokee GA		56	66,605
Clarke GA		46	52,016
Clarke GA		47	76,655
Clayton GA		25	37,295
Clayton GA		28	19,071
Clayton GA		34	135,995

Political Subdivision Splits Between Districts

Grant_Esselstyn_Sen_12_05

Clayton GA	44	105,234
Cobb GA	6	97,590
Cobb GA	32	101,467
Cobb GA	33	192,694
Cobb GA	37	181,541
Cobb GA	38	102,964
Cobb GA	56	89,893
Coffee GA	13	19,881
Coffee GA	19	23,211
Columbia GA	22	30,174
Columbia GA	24	125,836
Coweta GA	16	39,894
Coweta GA	28	74,804
Coweta GA	30	31,460
DeKalb GA	10	82,066
DeKalb GA	40	164,997
DeKalb GA	41	183,560
DeKalb GA	42	190,153
DeKalb GA	43	17,660
DeKalb GA	44	60,228
DeKalb GA	55	65,718
Fayette GA	16	45,488
Fayette GA	28	17,678
Fayette GA	34	56,028
Floyd GA	52	85,090
Floyd GA	53	13,494
Forsyth GA	27	190,676
Forsyth GA	48	60,607
Fulton GA	6	94,244
Fulton GA	14	192,533
Fulton GA	21	83,538
Fulton GA	28	78,143
Fulton GA	35	30,198
Fulton GA	36	192,282
Fulton GA	38	87,641
Fulton GA	39	190,184
Fulton GA	48	83,219
Fulton GA	56	34,728
Gordon GA	52	7,938
Gordon GA	54	49,606
Greene GA	17	14,168
Greene GA	23	4,747
Gwinnett GA	5	191,921
Gwinnett GA	7	189,709
Gwinnett GA	9	192,915
Gwinnett GA	40	25,547
Gwinnett GA	41	7,463
Gwinnett GA	45	151,475
Gwinnett GA	46	27,298
Gwinnett GA	48	46,297
Gwinnett GA	55	124,437

Political Subdivision Splits Between Districts

Grant_Esselstyn_Sen_12_05

Hall GA		49	189,355
Hall GA		50	13,781
Henry GA		10	62,505
Henry GA		25	155,413
Henry GA		44	22,794
Houston GA		18	96,912
Houston GA		20	33,532
Houston GA		26	33,189
Jackson GA		47	56,660
Jackson GA		50	19,247
McDuffie GA		23	12,164
McDuffie GA		24	9,468
Muscogee GA		15	142,205
Muscogee GA		29	64,717
Newton GA		17	9,333
Newton GA		43	103,150
Paulding GA		31	149,902
Paulding GA		35	18,759
Richmond GA		22	158,756
Richmond GA		23	47,851
Rockdale GA		10	22,596
Rockdale GA		43	70,974
Walton GA		17	44,590
Walton GA		46	52,083
Ware GA		3	10,431
Ware GA		8	25,820
White GA		50	12,642
White GA		51	15,361
Wilcox GA		13	5,579
Wilcox GA		20	3,187
Wilkes GA		23	3,747
Wilkes GA		24	5,818

Split VTDs:

Baldwin GA	NORTH MILLEDGEVILLE	17	2,373
Baldwin GA	NORTH MILLEDGEVILLE	23	991
Baldwin GA	SOUTH MILLEDGEVILLE	17	1,215
Baldwin GA	SOUTH MILLEDGEVILLE	23	2,491
Chatham GA	BLOOMINGDALE	1	4,099
Chatham GA	COMMUNITY CENTER		
Chatham GA	BLOOMINGDALE	4	755
Chatham GA	COMMUNITY CENTER		
Chatham GA	POOLER CHRURCH	1	5,330
Chatham GA	POOLER CHRURCH	4	4,407
Clarke GA	3B	46	5,752
Clarke GA	3B	47	4,194
Clarke GA	6C	46	2,971
Clarke GA	6C	47	2,036
Cobb GA	Dobbins 01	6	6,586
Cobb GA	Dobbins 01	33	6,310
Cobb GA	Dobbins 01	38	505
Cobb GA	Elizabeth 01	32	3,771

Political Subdivision Splits Between Districts

Grant_Esselstyn_Sen_12_05

Cobb GA	Elizabeth 01	37	2,099
Cobb GA	Kennesaw 1A	32	1,471
Cobb GA	Kennesaw 1A	37	2,972
Cobb GA	Marietta 3A	32	3,439
Cobb GA	Marietta 3A	33	5,460
Cobb GA	Marietta 5A	6	0
Cobb GA	Marietta 5A	33	4,334
Cobb GA	Marietta 6A	6	3,022
Cobb GA	Marietta 6A	32	1,532
Cobb GA	Marietta 7A	6	993
Cobb GA	Marietta 7A	33	5,918
Cobb GA	Nickajack 01	6	2,398
Cobb GA	Nickajack 01	38	3,728
Cobb GA	Norton Park 01	33	7,049
Cobb GA	Norton Park 01	38	752
Cobb GA	Oregon 03	33	12,988
Cobb GA	Oregon 03	37	0
Cobb GA	Powers Ferry 01	6	4,963
Cobb GA	Powers Ferry 01	33	464
Cobb GA	Sewell Mill 03	6	5,051
Cobb GA	Sewell Mill 03	33	1,886
Cobb GA	Smyrna 1A	6	5,341
Cobb GA	Smyrna 1A	38	1,292
Cobb GA	Vinings 02	6	4,624
Cobb GA	Vinings 02	38	5,019
Coffee GA	DOUGLAS	13	12,595
Coffee GA	DOUGLAS	19	15,976
DeKalb GA	Flakes Mill Fire Station	10	2,263
DeKalb GA	Flakes Mill Fire Station	44	396
DeKalb GA	Harris - Narvie J. Harris Elem	10	3,339
DeKalb GA	Harris - Narvie J. Harris Elem	44	1,682
Floyd GA	GARDEN LAKES	52	1,024
Floyd GA	GARDEN LAKES	53	7,817
Forsyth GA	BIG CREEK	27	15,216
Forsyth GA	BIG CREEK	48	10,302
Forsyth GA	POLO	27	24,894
Forsyth GA	POLO	48	964
Fulton GA	RW09	21	2,971
Fulton GA	RW09	56	4,750
Fulton GA	RW12	21	4,274
Fulton GA	RW12	56	3,958
Fulton GA	SC05A	28	681
Fulton GA	SC05A	35	317
Fulton GA	SC08B	28	223
Fulton GA	SC08B	39	5,124
Fulton GA	SC13	28	15
Fulton GA	SC13	35	4,019
Fulton GA	SC18C	35	1,852
Fulton GA	SC18C	39	521

Political Subdivision Splits Between Districts

Grant_Esselstyn_Sen_12_05

Gordon GA	LILY POND	52	1,641
Gordon GA	LILY POND	54	996
Gwinnett GA	DACULA	45	2,699
Gwinnett GA	DACULA	46	4,613
Gwinnett GA	LAWRENCEVILLE E	5	2,075
Gwinnett GA	LAWRENCEVILLE E	9	1,386
Gwinnett GA	PINCKNEYVILLE W	5	5,605
Gwinnett GA	PINCKNEYVILLE W	7	2,701
Hall GA	GLADE	49	5,135
Hall GA	GLADE	50	1,735
Hall GA	TADMORE	49	4,129
Hall GA	TADMORE	50	10,220
Houston GA	RECR	20	0
Houston GA	RECR	26	17,798
Jackson GA	Central Jackson	47	24,383
Jackson GA	Central Jackson	50	0
Jackson GA	North Jackson	47	0
Jackson GA	North Jackson	50	19,247
Muscogee GA	COLUMBUS TECH	15	6,919
Muscogee GA	COLUMBUS TECH	29	2,228
Paulding GA	AUSTIN MIDDLE SCHOOL	31	971
Paulding GA	AUSTIN MIDDLE SCHOOL	35	9,922
Paulding GA	TAYLOR FARM PARK	31	4,596
Paulding GA	TAYLOR FARM PARK	35	8,837
Ware GA	100	3	2,672
Ware GA	100	8	3,692
Ware GA	200A	3	0
Ware GA	200A	8	4,133
Ware GA	304	3	0
Ware GA	304	8	2,107
Ware GA	400	3	4,626
Ware GA	400	8	406
Wilcox GA	ROCHELLE SOUTH	13	786
Wilcox GA	ROCHELLE SOUTH	20	794

EXHIBIT 6

User:

Plan Name: Grant_Esselstyn_Sen_12_05

Plan Type:

Plan Components with Population Detail

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

	Total Population	AP_Blk
District 1		
County: Bryan GA		
Total:	44,738	7,463 16.68%
Voting Age	31,828	5,025 15.79%
County: Chatham GA		
Total:	81,408	13,170 16.18%
Voting Age	65,586	9,743 14.86%
County: Liberty GA		
Total:	65,256	31,146 47.73%
Voting Age	48,014	21,700 45.20%
District 1 Total		
Total:	191,402	51,779 27.05%
Voting Age	145,428	36,468 25.08%
District 2		
County: Chatham GA		
Total:	190,408	95,717 50.27%
Voting Age	150,843	70,688 46.86%
District 2 Total		
Total:	190,408	95,717 50.27%
Voting Age	150,843	70,688 46.86%
District 3		
County: Brantley GA		
Total:	18,021	733 4.07%
Voting Age	13,692	470 3.43%
County: Camden GA		
Total:	54,768	11,072 20.22%
Voting Age	41,808	7,828 18.72%
County: Charlton GA		

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Total:	12,518	2,798
		22.35%
Voting Age	10,135	2,147
		21.18%
County: Glynn GA		
Total:	84,499	22,098
		26.15%
Voting Age	66,468	15,620
		23.50%
County: McIntosh GA		
Total:	10,975	3,400
		30.98%
Voting Age	9,040	2,641
		29.21%
County: Ware GA		
Total:	10,431	4,137
		39.66%
Voting Age	7,772	2,839
		36.53%
District 3 Total		
Total:	191,212	44,238
		23.14%
Voting Age	148,915	31,545
		21.18%
District 4		
County: Bulloch GA		
Total:	81,099	24,375
		30.06%
Voting Age	64,494	18,220
		28.25%
County: Candler GA		
Total:	10,981	2,807
		25.56%
Voting Age	8,241	2,009
		24.38%
County: Chatham GA		
Total:	23,475	6,571
		27.99%
Voting Age	18,286	4,747
		25.96%
County: Effingham GA		
Total:	64,769	10,035
		15.49%
Voting Age	47,295	6,831
		14.44%
County: Evans GA		
Total:	10,774	3,273
		30.38%
Voting Age	8,127	2,410
		29.65%
District 4 Total		
Total:	191,098	47,061
		24.63%
Voting Age	146,443	34,217

Plan Components with Population Detail

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23.37%

District 5**County: Gwinnett GA**

Total:	191,921	57,719
		30.07%
Voting Age	139,394	41,736
		29.94%

District 5 Total

Total:	191,921	57,719
		30.07%
Voting Age	139,394	41,736
		29.94%

District 6**County: Cobb GA**

Total:	97,590	26,434
		27.09%
Voting Age	79,732	20,955
		26.28%

County: Fulton GA

Total:	94,244	18,062
		19.17%
Voting Age	76,010	14,793
		19.46%

District 6 Total

Total:	191,834	44,496
		23.20%
Voting Age	155,742	35,748
		22.95%

District 7**County: Gwinnett GA**

Total:	189,709	43,563
		22.96%
Voting Age	147,425	31,601
		21.44%

District 7 Total

Total:	189,709	43,563
		22.96%
Voting Age	147,425	31,601
		21.44%

District 8**County: Atkinson GA**

Total:	8,286	1,284
		15.50%
Voting Age	6,129	937
		15.29%

County: Clinch GA

Total:	6,749	2,096
		31.06%
Voting Age	5,034	1,406
		27.93%

County: Echols GA

Total:	3,697	193
		5.22%
Voting Age	2,709	121

Plan Components with Population Detail

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		4.47%
County: Lanier GA		
Total:	9,877	2,369 23.99%
Voting Age	7,326	1,683 22.97%
County: Lowndes GA		
Total:	118,251	46,758 39.54%
Voting Age	89,031	33,302 37.40%
County: Pierce GA		
Total:	19,716	1,801 9.13%
Voting Age	14,899	1,262 8.47%
County: Ware GA		
Total:	25,820	7,284 28.21%
Voting Age	20,016	5,387 26.91%
District 8 Total		
Total:	192,396	61,785 32.11%
Voting Age	145,144	44,098 30.38%
District 9		
County: Gwinnett GA		
Total:	192,915	61,009 31.62%
Voting Age	142,054	41,948 29.53%
District 9 Total		
Total:	192,915	61,009 31.62%
Voting Age	142,054	41,948 29.53%
District 10		
County: Butts GA		
Total:	25,434	7,212 28.36%
Voting Age	20,360	5,660 27.80%
County: DeKalb GA		
Total:	82,066	78,042 95.10%
Voting Age	63,260	60,044 94.92%
County: Henry GA		
Total:	62,505	22,655 36.25%
Voting Age	47,084	16,528 35.10%
County: Rockdale GA		

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Total:	22,596	11,509
		50.93%
Voting Age	17,865	8,544
		47.83%
District 10 Total		
Total:	192,601	119,418
		62.00%
Voting Age	148,569	90,776
		61.10%
District 11		
County: Brooks GA		
Total:	16,301	5,958
		36.55%
Voting Age	12,747	4,357
		34.18%
County: Colquitt GA		
Total:	45,898	10,648
		23.20%
Voting Age	34,193	7,461
		21.82%
County: Cook GA		
Total:	17,229	5,014
		29.10%
Voting Age	12,938	3,595
		27.79%
County: Decatur GA		
Total:	29,367	12,583
		42.85%
Voting Age	22,443	9,189
		40.94%
County: Grady GA		
Total:	26,236	7,693
		29.32%
Voting Age	19,962	5,678
		28.44%
County: Seminole GA		
Total:	9,147	3,093
		33.81%
Voting Age	7,277	2,275
		31.26%
County: Thomas GA		
Total:	45,798	16,975
		37.06%
Voting Age	35,037	12,332
		35.20%
District 11 Total		
Total:	189,976	61,964
		32.62%
Voting Age	144,597	44,887
		31.04%
District 12		
County: Baker GA		
Total:	2,876	1,178
		40.96%

Plan Components with Population Detail

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Voting Age	2,275	932 40.97%
County: Calhoun GA		
Total:	5,573	3,629 65.12%
Voting Age	4,687	2,998 63.96%
County: Clay GA		
Total:	2,848	1,634 57.37%
Voting Age	2,246	1,231 54.81%
County: Dougherty GA		
Total:	85,790	61,457 71.64%
Voting Age	66,266	45,631 68.86%
County: Early GA		
Total:	10,854	5,688 52.40%
Voting Age	8,315	4,075 49.01%
County: Miller GA		
Total:	6,000	1,831 30.52%
Voting Age	4,749	1,358 28.60%
County: Mitchell GA		
Total:	21,755	10,394 47.78%
Voting Age	17,065	7,917 46.39%
County: Quitman GA		
Total:	2,235	965 43.18%
Voting Age	1,870	765 40.91%
County: Randolph GA		
Total:	6,425	3,947 61.43%
Voting Age	4,977	2,913 58.53%
County: Stewart GA		
Total:	5,314	2,538 47.76%
Voting Age	4,617	2,048 44.36%
County: Sumter GA		
Total:	29,616	15,546 52.49%
Voting Age	23,036	11,479 49.83%
County: Terrell GA		
Total:	9,185	5,707

Plan Components with Population Detail

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		62.13%
Voting Age	7,204	4,274
		59.33%
County: Webster GA		
Total:	2,348	1,107
		47.15%
Voting Age	1,847	844
		45.70%
District 12 Total		
Total:	190,819	115,621
		60.59%
Voting Age	149,154	86,465
		57.97%
District 13		
County: Ben Hill GA		
Total:	17,194	6,537
		38.02%
Voting Age	13,165	4,745
		36.04%
County: Berrien GA		
Total:	18,160	2,198
		12.10%
Voting Age	13,690	1,499
		10.95%
County: Coffee GA		
Total:	19,881	4,080
		20.52%
Voting Age	14,865	2,978
		20.03%
County: Crisp GA		
Total:	20,128	9,194
		45.68%
Voting Age	15,570	6,603
		42.41%
County: Irwin GA		
Total:	9,666	2,333
		24.14%
Voting Age	7,547	1,720
		22.79%
County: Lee GA		
Total:	33,163	7,755
		23.38%
Voting Age	24,676	5,503
		22.30%
County: Tift GA		
Total:	41,344	12,734
		30.80%
Voting Age	31,224	8,963
		28.71%
County: Turner GA		
Total:	9,006	3,813
		42.34%
Voting Age	6,960	2,752
		39.54%

Plan Components with Population Detail

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County: Wilcox GA		
Total:	5,579	1,866 33.45%
Voting Age	4,705	1,669 35.47%
County: Worth GA		
Total:	20,784	5,517 26.54%
Voting Age	16,444	4,108 24.98%
District 13 Total		
Total:	194,905	56,027 28.75%
Voting Age	148,846	40,540 27.24%
District 14		
County: Fulton GA		
Total:	192,533	37,409 19.43%
Voting Age	155,340	29,470 18.97%
District 14 Total		
Total:	192,533	37,409 19.43%
Voting Age	155,340	29,470 18.97%
District 15		
County: Chattahoochee GA		
Total:	9,565	1,825 19.08%
Voting Age	7,199	1,287 17.88%
County: Macon GA		
Total:	12,082	7,296 60.39%
Voting Age	9,938	6,021 60.59%
County: Marion GA		
Total:	7,498	2,223 29.65%
Voting Age	5,854	1,687 28.82%
County: Muscogee GA		
Total:	142,205	87,188 61.31%
Voting Age	107,284	63,629 59.31%
County: Schley GA		
Total:	4,547	933 20.52%
Voting Age	3,328	644 19.35%
County: Talbot GA		
Total:	5,733	3,145

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

		54.86%
Voting Age	4,783	2,537
		53.04%
County: Taylor GA		
Total:	7,816	2,946
		37.69%
Voting Age	6,120	2,235
		36.52%
District 15 Total		
Total:	189,446	105,556
		55.72%
Voting Age	144,506	78,040
		54.00%
District 16		
County: Coweta GA		
Total:	39,894	3,351
		8.40%
Voting Age	30,518	2,478
		8.12%
County: Fayette GA		
Total:	45,488	5,070
		11.15%
Voting Age	34,787	3,585
		10.31%
County: Lamar GA		
Total:	18,500	5,220
		28.22%
Voting Age	14,541	4,017
		27.63%
County: Pike GA		
Total:	18,889	1,613
		8.54%
Voting Age	14,337	1,254
		8.75%
County: Spalding GA		
Total:	67,306	24,522
		36.43%
Voting Age	52,123	17,511
		33.60%
District 16 Total		
Total:	190,077	39,776
		20.93%
Voting Age	146,306	28,845
		19.72%
District 17		
County: Baldwin GA		
Total:	16,966	5,718
		33.70%
Voting Age	13,458	4,215
		31.32%
County: Greene GA		
Total:	14,168	3,654
		25.79%
Voting Age	11,692	2,698

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

		23.08%
County: Jasper GA		
Total:	14,588	2,676 18.34%
Voting Age	11,118	1,966 17.68%
County: Jones GA		
Total:	28,347	7,114 25.10%
Voting Age	21,575	5,341 24.76%
County: Morgan GA		
Total:	20,097	4,339 21.59%
Voting Age	15,574	3,280 21.06%
County: Newton GA		
Total:	9,333	1,544 16.54%
Voting Age	7,166	1,113 15.53%
County: Oglethorpe GA		
Total:	14,825	2,468 16.65%
Voting Age	11,639	1,853 15.92%
County: Putnam GA		
Total:	22,047	5,701 25.86%
Voting Age	17,847	4,229 23.70%
County: Walton GA		
Total:	44,590	7,994 17.93%
Voting Age	33,470	5,536 16.54%
County: Wilkinson GA		
Total:	8,877	3,330 37.51%
Voting Age	7,026	2,549 36.28%
District 17 Total		
Total:	193,838	44,538 22.98%
Voting Age	150,565	32,780 21.77%
District 18		
County: Crawford GA		
Total:	12,130	2,455 20.24%
Voting Age	9,606	1,938 20.17%
County: Houston GA		
Total:	96,912	30,579

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

		31.55%
Voting Age	73,167	21,685
		29.64%
County: Monroe GA		
Total:	27,957	6,444
		23.05%
Voting Age	21,913	5,068
		23.13%
County: Peach GA		
Total:	27,981	12,645
		45.19%
Voting Age	22,111	9,720
		43.96%
County: Upson GA		
Total:	27,700	8,324
		30.05%
Voting Age	21,711	6,202
		28.57%
District 18 Total		
Total:	192,680	60,447
		31.37%
Voting Age	148,508	44,613
		30.04%
District 19		
County: Appling GA		
Total:	18,444	3,647
		19.77%
Voting Age	13,958	2,540
		18.20%
County: Bacon GA		
Total:	11,140	1,970
		17.68%
Voting Age	8,310	1,245
		14.98%
County: Coffee GA		
Total:	23,211	8,495
		36.60%
Voting Age	17,554	6,213
		35.39%
County: Jeff Davis GA		
Total:	14,779	2,493
		16.87%
Voting Age	10,856	1,752
		16.14%
County: Long GA		
Total:	16,168	4,734
		29.28%
Voting Age	11,234	3,107
		27.66%
County: Montgomery GA		
Total:	8,610	2,224
		25.83%
Voting Age	6,792	1,781
		26.22%

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

County: Tattnall GA		
Total:	22,842	6,331 27.72%
Voting Age	17,654	4,886 27.68%
County: Telfair GA		
Total:	12,477	4,754 38.10%
Voting Age	10,190	3,806 37.35%
County: Toombs GA		
Total:	27,030	7,402 27.38%
Voting Age	20,261	5,036 24.86%
County: Wayne GA		
Total:	30,144	6,390 21.20%
Voting Age	23,105	4,662 20.18%
County: Wheeler GA		
Total:	7,471	2,949 39.47%
Voting Age	6,217	2,561 41.19%
District 19 Total		
Total:	192,316	51,389 26.72%
Voting Age	146,131	37,589 25.72%
District 20		
County: Bleckley GA		
Total:	12,583	2,951 23.45%
Voting Age	9,613	2,036 21.18%
County: Dodge GA		
Total:	19,925	6,148 30.86%
Voting Age	15,709	4,725 30.08%
County: Dooly GA		
Total:	11,208	5,652 50.43%
Voting Age	9,187	4,526 49.27%
County: Emanuel GA		
Total:	22,768	7,556 33.19%
Voting Age	17,320	5,404 31.20%
County: Houston GA		
Total:	33,532	7,767 23.16%

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Voting Age	24,548	5,417 22.07%
County: Jenkins GA		
Total:	8,674	3,638 41.94%
Voting Age	7,005	2,843 40.59%
County: Johnson GA		
Total:	9,189	3,124 34.00%
Voting Age	7,474	2,513 33.62%
County: Laurens GA		
Total:	49,570	19,132 38.60%
Voting Age	37,734	13,695 36.29%
County: Pulaski GA		
Total:	9,855	3,250 32.98%
Voting Age	8,012	2,564 32.00%
County: Treutlen GA		
Total:	6,406	2,114 33.00%
Voting Age	4,934	1,514 30.69%
County: Twiggs GA		
Total:	8,022	3,226 40.21%
Voting Age	6,589	2,627 39.87%
County: Wilcox GA		
Total:	3,187	1,295 40.63%
Voting Age	2,513	1,024 40.75%
District 20 Total		
Total:	194,919	65,853 33.78%
Voting Age	150,638	48,888 32.45%
District 21		
County: Cherokee GA		
Total:	109,034	6,259 5.74%
Voting Age	82,623	4,208 5.09%
County: Fulton GA		
Total:	83,538	9,233 11.05%
Voting Age	62,497	6,615 10.58%
District 21 Total		

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Total:	192,572	15,492	8.04%
Voting Age	145,120	10,823	7.46%
District 22			
County: Columbia GA			
Total:	30,174	10,351	34.30%
Voting Age	21,768	6,970	32.02%
County: Richmond GA			
Total:	158,756	91,758	57.80%
Voting Age	124,698	67,487	54.12%
District 22 Total			
Total:	188,930	102,109	54.05%
Voting Age	146,466	74,457	50.84%
District 23			
County: Baldwin GA			
Total:	26,833	13,267	49.44%
Voting Age	22,274	10,300	46.24%
County: Burke GA			
Total:	24,596	11,430	46.47%
Voting Age	18,778	8,362	44.53%
County: Glascock GA			
Total:	2,884	226	7.84%
Voting Age	2,236	167	7.47%
County: Greene GA			
Total:	4,747	2,373	49.99%
Voting Age	3,666	1,772	48.34%
County: Hancock GA			
Total:	8,735	6,131	70.19%
Voting Age	7,487	5,108	68.22%
County: Jefferson GA			
Total:	15,709	8,208	52.25%
Voting Age	12,301	6,324	51.41%
County: McDuffie GA			
Total:	12,164	7,350	60.42%

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Voting Age	9,042	5,130 56.74%
County: Richmond GA		
Total:	47,851	28,212 58.96%
Voting Age	36,201	20,443 56.47%
County: Screven GA		
Total:	14,067	5,527 39.29%
Voting Age	10,893	4,144 38.04%
County: Taliaferro GA		
Total:	1,559	876 56.19%
Voting Age	1,289	722 56.01%
County: Warren GA		
Total:	5,215	3,128 59.98%
Voting Age	4,159	2,360 56.74%
County: Washington GA		
Total:	19,988	10,969 54.88%
Voting Age	15,709	8,333 53.05%
County: Wilkes GA		
Total:	3,747	2,465 65.79%
Voting Age	2,873	1,840 64.04%
District 23 Total		
Total:	188,095	100,162 53.25%
Voting Age	146,908	75,005 51.06%
District 24		
County: Columbia GA		
Total:	125,836	22,165 17.61%
Voting Age	93,055	15,303 16.45%
County: Elbert GA		
Total:	19,637	5,520 28.11%
Voting Age	15,493	4,122 26.61%
County: Hart GA		
Total:	25,828	4,732 18.32%
Voting Age	20,436	3,447 16.87%
County: Lincoln GA		

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Total:	7,690	2,212
		28.76%
Voting Age	6,270	1,728
		27.56%
County: McDuffie GA		
Total:	9,468	1,695
		17.90%
Voting Age	7,573	1,295
		17.10%
County: Wilkes GA		
Total:	5,818	1,524
		26.19%
Voting Age	4,778	1,231
		25.76%
District 24 Total		
Total:	194,277	37,848
		19.48%
Voting Age	147,605	27,126
		18.38%
District 25		
County: Clayton GA		
Total:	37,295	29,368
		78.75%
Voting Age	27,594	21,280
		77.12%
County: Henry GA		
Total:	155,413	88,923
		57.22%
Voting Age	115,669	63,144
		54.59%
District 25 Total		
Total:	192,708	118,291
		61.38%
Voting Age	143,263	84,424
		58.93%
District 26		
County: Bibb GA		
Total:	157,346	88,865
		56.48%
Voting Age	120,902	64,270
		53.16%
County: Houston GA		
Total:	33,189	18,174
		54.76%
Voting Age	24,403	12,503
		51.24%
District 26 Total		
Total:	190,535	107,039
		56.18%
Voting Age	145,305	76,773
		52.84%
District 27		
County: Forsyth GA		
Total:	190,676	10,506

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

		5.51%
Voting Age	139,196	6,961
		5.00%
District 27 Total		
Total:	190,676	10,506
		5.51%
Voting Age	139,196	6,961
		5.00%
District 28		
County: Clayton GA		
Total:	19,071	15,696
		82.30%
Voting Age	14,534	12,068
		83.03%
County: Coweta GA		
Total:	74,804	20,264
		27.09%
Voting Age	56,582	14,367
		25.39%
County: Fayette GA		
Total:	17,678	9,748
		55.14%
Voting Age	13,709	7,429
		54.19%
County: Fulton GA		
Total:	78,143	65,444
		83.75%
Voting Age	58,266	48,095
		82.54%
District 28 Total		
Total:	189,696	111,152
		58.59%
Voting Age	143,091	81,959
		57.28%
District 29		
County: Harris GA		
Total:	34,668	5,742
		16.56%
Voting Age	26,799	4,431
		16.53%
County: Meriwether GA		
Total:	20,613	7,547
		36.61%
Voting Age	16,526	5,845
		35.37%
County: Muscogee GA		
Total:	64,717	15,024
		23.21%
Voting Age	49,768	10,672
		21.44%
County: Troup GA		
Total:	69,426	25,473
		36.69%
Voting Age	52,581	18,202

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

		34.62%
District 29 Total		
Total:	189,424	53,786 28.39%
Voting Age	145,674	39,150 26.88%
District 30		
County: Carroll GA		
Total:	119,148	24,618 20.66%
Voting Age	90,996	17,827 19.59%
County: Coweta GA		
Total:	31,460	4,674 14.86%
Voting Age	24,055	3,351 13.93%
County: Haralson GA		
Total:	29,919	1,541 5.15%
Voting Age	22,854	1,106 4.84%
County: Heard GA		
Total:	11,412	1,142 10.01%
Voting Age	8,698	832 9.57%
District 30 Total		
Total:	191,939	31,975 16.66%
Voting Age	146,603	23,116 15.77%
District 31		
County: Paulding GA		
Total:	149,902	35,238 23.51%
Voting Age	110,217	23,946 21.73%
County: Polk GA		
Total:	42,853	5,816 13.57%
Voting Age	32,238	3,991 12.38%
District 31 Total		
Total:	192,755	41,054 21.30%
Voting Age	142,455	27,937 19.61%
District 32		
County: Cherokee GA		
Total:	90,981	9,461 10.40%
Voting Age	69,190	6,571 9.50%

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

County: Cobb GA		
Total:	101,467	20,578 20.28%
Voting Age	80,689	15,703 19.46%
District 32 Total		
Total:	192,448	30,039 15.61%
Voting Age	149,879	22,274 14.86%
District 33		
County: Cobb GA		
Total:	192,694	84,864 44.04%
Voting Age	146,415	62,897 42.96%
District 33 Total		
Total:	192,694	84,864 44.04%
Voting Age	146,415	62,897 42.96%
District 34		
County: Clayton GA		
Total:	135,995	98,239 72.24%
Voting Age	98,847	71,113 71.94%
County: Fayette GA		
Total:	56,028	17,258 30.80%
Voting Age	43,302	12,714 29.36%
District 34 Total		
Total:	192,023	115,497 60.15%
Voting Age	142,149	83,827 58.97%
District 35		
County: Douglas GA		
Total:	144,237	74,260 51.48%
Voting Age	108,428	53,377 49.23%
County: Fulton GA		
Total:	30,198	27,771 91.96%
Voting Age	22,906	20,845 91.00%
County: Paulding GA		
Total:	18,759	6,058 32.29%
Voting Age	13,781	4,218 30.61%
District 35 Total		

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Total:	193,194	108,089
		55.95%
Voting Age	145,115	78,440
		54.05%
District 36		
County: Fulton GA		
Total:	192,282	104,523
		54.36%
Voting Age	161,385	82,859
		51.34%
District 36 Total		
Total:	192,282	104,523
		54.36%
Voting Age	161,385	82,859
		51.34%
District 37		
County: Bartow GA		
Total:	11,130	646
		5.80%
Voting Age	8,818	435
		4.93%
County: Cobb GA		
Total:	181,541	39,545
		21.78%
Voting Age	138,961	28,049
		20.18%
District 37 Total		
Total:	192,671	40,191
		20.86%
Voting Age	147,779	28,484
		19.27%
District 38		
County: Cobb GA		
Total:	102,964	44,999
		43.70%
Voting Age	79,498	33,840
		42.57%
County: Fulton GA		
Total:	87,641	83,029
		94.74%
Voting Age	66,587	63,096
		94.76%
District 38 Total		
Total:	190,605	128,028
		67.17%
Voting Age	146,085	96,936
		66.36%
District 39		
County: Fulton GA		
Total:	190,184	119,401
		62.78%
Voting Age	155,780	93,789
		60.21%
District 39 Total		

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Total:	190,184	119,401
		62.78%
Voting Age	155,780	93,789
		60.21%
District 40		
County: DeKalb GA		
Total:	164,997	27,095
		16.42%
Voting Age	127,423	21,898
		17.19%
County: Gwinnett GA		
Total:	25,547	8,624
		33.76%
Voting Age	19,577	6,379
		32.58%
District 40 Total		
Total:	190,544	35,719
		18.75%
Voting Age	147,000	28,277
		19.24%
District 41		
County: DeKalb GA		
Total:	183,560	120,328
		65.55%
Voting Age	139,591	90,016
		64.49%
County: Gwinnett GA		
Total:	7,463	1,434
		19.21%
Voting Age	5,687	945
		16.62%
District 41 Total		
Total:	191,023	121,762
		63.74%
Voting Age	145,278	90,961
		62.61%
District 42		
County: DeKalb GA		
Total:	190,153	55,060
		28.96%
Voting Age	153,285	44,597
		29.09%
District 42 Total		
Total:	190,153	55,060
		28.96%
Voting Age	153,285	44,597
		29.09%
District 43		
County: DeKalb GA		
Total:	17,660	15,789
		89.41%
Voting Age	13,478	11,964
		88.77%
County: Newton GA		

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Total:	103,150	54,357
		52.70%
Voting Age	77,582	39,320
		50.68%
County: Rockdale GA		
Total:	70,974	45,695
		64.38%
Voting Age	53,638	33,391
		62.25%
District 43 Total		
Total:	191,784	115,841
		60.40%
Voting Age	144,698	84,675
		58.52%
District 44		
County: Clayton GA		
Total:	105,234	73,048
		69.41%
Voting Age	79,603	54,393
		68.33%
County: DeKalb GA		
Total:	60,228	50,225
		83.39%
Voting Age	47,783	39,047
		81.72%
County: Henry GA		
Total:	22,794	13,633
		59.81%
Voting Age	17,220	9,985
		57.98%
District 44 Total		
Total:	188,256	136,906
		72.72%
Voting Age	144,606	103,425
		71.52%
District 45		
County: Barrow GA		
Total:	39,217	5,033
		12.83%
Voting Age	29,707	3,514
		11.83%
County: Gwinnett GA		
Total:	151,475	32,509
		21.46%
Voting Age	110,999	22,635
		20.39%
District 45 Total		
Total:	190,692	37,542
		19.69%
Voting Age	140,706	26,149
		18.58%
District 46		
County: Barrow GA		
Total:	17,116	3,573

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Voting Age	12,083	20.88%
		2,401
		19.87%
County: Clarke GA		
Total:	52,016	9,024
		17.35%
Voting Age	45,312	6,731
		14.85%
County: Gwinnett GA		
Total:	27,298	9,493
		34.78%
Voting Age	19,469	6,372
		32.73%
County: Oconee GA		
Total:	41,799	2,280
		5.45%
Voting Age	30,221	1,660
		5.49%
County: Walton GA		
Total:	52,083	10,810
		20.76%
Voting Age	39,628	7,629
		19.25%
District 46 Total		
Total:	190,312	35,180
		18.49%
Voting Age	146,713	24,793
		16.90%
District 47		
County: Barrow GA		
Total:	27,172	3,301
		12.15%
Voting Age	20,405	2,307
		11.31%
County: Clarke GA		
Total:	76,655	24,648
		32.15%
Voting Age	61,518	18,045
		29.33%
County: Jackson GA		
Total:	56,660	4,393
		7.75%
Voting Age	41,564	2,966
		7.14%
County: Madison GA		
Total:	30,120	3,196
		10.61%
Voting Age	23,112	2,225
		9.63%
District 47 Total		
Total:	190,607	35,538
		18.64%
Voting Age	146,599	25,543
		17.42%

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

District 48		
County: Forsyth GA		
Total:	60,607	2,716 4.48%
Voting Age	41,997	1,790 4.26%
County: Fulton GA		
Total:	83,219	9,960 11.97%
Voting Age	61,631	7,027 11.40%
County: Gwinnett GA		
Total:	46,297	6,203 13.40%
Voting Age	33,367	4,151 12.44%
District 48 Total		
Total:	190,123	18,879 9.93%
Voting Age	136,995	12,968 9.47%
District 49		
County: Hall GA		
Total:	189,355	16,099 8.50%
Voting Age	144,123	11,475 7.96%
District 49 Total		
Total:	189,355	16,099 8.50%
Voting Age	144,123	11,475 7.96%
District 50		
County: Banks GA		
Total:	18,035	589 3.27%
Voting Age	13,900	365 2.63%
County: Franklin GA		
Total:	23,424	2,207 9.42%
Voting Age	18,307	1,523 8.32%
County: Habersham GA		
Total:	46,031	2,165 4.70%
Voting Age	35,878	1,675 4.67%
County: Hall GA		
Total:	13,781	907 6.58%
Voting Age	9,721	619 6.37%
County: Jackson GA		

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Total:	19,247	1,755
		9.12%
Voting Age	14,887	1,302
		8.75%
County: Rabun GA		
Total:	16,883	210
		1.24%
Voting Age	13,767	129
		0.94%
County: Stephens GA		
Total:	26,784	3,527
		13.17%
Voting Age	21,163	2,467
		11.66%
County: Towns GA		
Total:	12,493	168
		1.34%
Voting Age	10,923	137
		1.25%
County: White GA		
Total:	12,642	198
		1.57%
Voting Age	10,253	124
		1.21%
District 50 Total		
Total:	189,320	11,726
		6.19%
Voting Age	148,799	8,341
		5.61%
District 51		
County: Dawson GA		
Total:	26,798	392
		1.46%
Voting Age	21,441	249
		1.16%
County: Fannin GA		
Total:	25,319	199
		0.79%
Voting Age	21,188	133
		0.63%
County: Gilmer GA		
Total:	31,353	296
		0.94%
Voting Age	25,417	161
		0.63%
County: Lumpkin GA		
Total:	33,488	685
		2.05%
Voting Age	27,689	507
		1.83%
County: Pickens GA		
Total:	33,216	512
		1.54%
Voting Age	26,799	319

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

		1.19%
County: Union GA		
Total:	24,632	228
		0.93%
Voting Age	20,808	147
		0.71%
County: White GA		
Total:	15,361	523
		3.40%
Voting Age	12,229	360
		2.94%
District 51 Total		
Total:	190,167	2,835
		1.49%
Voting Age	155,571	1,876
		1.21%
District 52		
County: Bartow GA		
Total:	97,771	12,749
		13.04%
Voting Age	74,752	8,942
		11.96%
County: Floyd GA		
Total:	85,090	14,081
		16.55%
Voting Age	65,739	10,019
		15.24%
County: Gordon GA		
Total:	7,938	266
		3.35%
Voting Age	6,129	159
		2.59%
District 52 Total		
Total:	190,799	27,096
		14.20%
Voting Age	146,620	19,120
		13.04%
District 53		
County: Catoosa GA		
Total:	67,872	2,642
		3.89%
Voting Age	52,448	1,684
		3.21%
County: Chattooga GA		
Total:	24,965	2,865
		11.48%
Voting Age	19,416	2,235
		11.51%
County: Dade GA		
Total:	16,251	228
		1.40%
Voting Age	12,987	140
		1.08%
County: Floyd GA		

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Total:	13,494	1,525
		11.30%
Voting Age	10,556	1,045
		9.90%
County: Walker GA		
Total:	67,654	3,664
		5.42%
Voting Age	52,794	2,454
		4.65%
District 53 Total		
Total:	190,236	10,924
		5.74%
Voting Age	148,201	7,558
		5.10%
District 54		
County: Gordon GA		
Total:	49,606	2,653
		5.35%
Voting Age	37,371	1,780
		4.76%
County: Murray GA		
Total:	39,973	556
		1.39%
Voting Age	30,210	321
		1.06%
County: Whitfield GA		
Total:	102,864	4,919
		4.78%
Voting Age	76,262	3,349
		4.39%
District 54 Total		
Total:	192,443	8,128
		4.22%
Voting Age	143,843	5,450
		3.79%
District 55		
County: DeKalb GA		
Total:	65,718	60,912
		92.69%
Voting Age	50,456	46,664
		92.48%
County: Gwinnett GA		
Total:	124,437	67,133
		53.95%
Voting Age	91,512	46,995
		51.35%
District 55 Total		
Total:	190,155	128,045
		67.34%
Voting Age	141,968	93,659
		65.97%
District 56		
County: Cherokee GA		
Total:	66,605	5,967

Plan Components with Population Detail

Grant_Esselstyn_Sen_12_05

Voting Age	51,115	8.96%
		4,197
		8.21%
County: Cobb GA		
Total:	89,893	6,696
		7.45%
Voting Age	66,553	4,697
		7.06%
County: Fulton GA		
Total:	34,728	2,792
		8.04%
Voting Age	26,780	2,046
		7.64%
District 56 Total		
Total:	191,226	15,455
		8.08%
Voting Age	144,448	10,940
		7.57%

EXHIBIT 7

User:

Plan Name: Grant_Esselstyn_Sen_12_05

Plan Type:

Core Constituencies

Core Constituencies

Grant_Esselstyn_Sen_12_05

From Plan: **GA_Senate illus-Grant**

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 1 -- **191,402 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 1	191,402 (100.00%)	51,779 (100.00%)	145,428 (100.00%)	36,468 (100.00%)
Total and % Population		51,779 (27.05%)	145,428 (75.98%)	36,468 (19.05%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 10 -- **192,601 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 10	192,601 (100.00%)	119,418 (100.00%)	148,569 (100.00%)	90,776 (100.00%)
Total and % Population		119,418 (62.00%)	148,569 (77.14%)	90,776 (47.13%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 11 -- **189,976 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 11	189,976 (100.00%)	61,964 (100.00%)	144,597 (100.00%)	44,887 (100.00%)
Total and % Population		61,964 (32.62%)	144,597 (76.11%)	44,887 (23.63%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 12 -- **190,819 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 12	190,819 (100.00%)	115,621 (100.00%)	149,154 (100.00%)	86,465 (100.00%)
Total and % Population		115,621 (60.59%)	149,154 (78.17%)	86,465 (45.31%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 13 -- **194,905 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 13	194,905 (100.00%)	56,027 (100.00%)	148,846 (100.00%)	40,540 (100.00%)
Total and % Population		56,027 (28.75%)	148,846 (76.37%)	40,540 (20.80%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 14 -- **192,533 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 14	192,533 (100.00%)	37,409 (100.00%)	155,340 (100.00%)	29,470 (100.00%)
Total and % Population		37,409 (19.43%)	155,340 (80.68%)	29,470 (15.31%)

Core Constituencies

Grant_Esselstyn_Sen_12_05

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 15 -- **189,446 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 15	189,446 (100.00%)	105,556 (100.00%)	144,506 (100.00%)	78,040 (100.00%)
Total and % Population		105,556 (55.72%)	144,506 (76.28%)	78,040 (41.19%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 16 -- **190,077 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 16	186,338 (98.03%)	38,968 (97.97%)	143,280 (97.93%)	28,240 (97.90%)
Dist. 34	3,739 (1.97%)	808 (2.03%)	3,026 (2.07%)	605 (2.10%)
Total and % Population		39,776 (20.93%)	146,306 (76.97%)	28,845 (15.18%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 17 -- **193,838 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 17	184,949 (95.41%)	41,658 (93.53%)	143,616 (95.38%)	30,784 (93.91%)
Dist. 23	8,889 (4.59%)	2,880 (6.47%)	6,949 (4.62%)	1,996 (6.09%)
Total and % Population		44,538 (22.98%)	150,565 (77.68%)	32,780 (16.91%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 18 -- **192,680 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 18	192,680 (100.00%)	60,447 (100.00%)	148,508 (100.00%)	44,613 (100.00%)
Total and % Population		60,447 (31.37%)	148,508 (77.07%)	44,613 (23.15%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 19 -- **192,316 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 19	192,316 (100.00%)	51,389 (100.00%)	146,131 (100.00%)	37,589 (100.00%)
Total and % Population		51,389 (26.72%)	146,131 (75.98%)	37,589 (19.55%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 2 -- **190,408 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 2	190,408 (100.00%)	95,717 (100.00%)	150,843 (100.00%)	70,688 (100.00%)
Total and % Population		95,717 (50.27%)	150,843 (79.22%)	70,688 (37.12%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 20 -- **194,919 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 20	194,919 (100.00%)	65,853 (100.00%)	150,638 (100.00%)	48,888 (100.00%)
Total and % Population		65,853 (33.78%)	150,638 (77.28%)	48,888 (25.08%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 21 -- **192,572 Total Population**

Core Constituencies

Grant_Esselstyn_Sen_12_05

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 21	192,572 (100.00%)	15,492 (100.00%)	145,120 (100.00%)	10,823 (100.00%)
Total and % Population		15,492 (8.04%)	145,120 (75.36%)	10,823 (5.62%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 22 -- **188,930 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 22	188,930 (100.00%)	102,109 (100.00%)	146,466 (100.00%)	74,457 (100.00%)
Total and % Population		102,109 (54.05%)	146,466 (77.52%)	74,457 (39.41%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 23 -- **188,095 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 17	4,263 (2.27%)	1,606 (1.60%)	3,475 (2.37%)	1,163 (1.55%)
Dist. 23	183,832 (97.73%)	98,556 (98.40%)	143,433 (97.63%)	73,842 (98.45%)
Total and % Population		100,162 (53.25%)	146,908 (78.10%)	75,005 (39.88%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 24 -- **194,277 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 24	194,277 (100.00%)	37,848 (100.00%)	147,605 (100.00%)	27,126 (100.00%)
Total and % Population		37,848 (19.48%)	147,605 (75.98%)	27,126 (13.96%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 25 -- **192,708 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 25	192,708 (100.00%)	118,291 (100.00%)	143,263 (100.00%)	84,424 (100.00%)
Total and % Population		118,291 (61.38%)	143,263 (74.34%)	84,424 (43.81%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 26 -- **190,535 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 26	190,535 (100.00%)	107,039 (100.00%)	145,305 (100.00%)	76,773 (100.00%)
Total and % Population		107,039 (56.18%)	145,305 (76.26%)	76,773 (40.29%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 27 -- **190,676 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 27	190,676 (100.00%)	10,506 (100.00%)	139,196 (100.00%)	6,961 (100.00%)
Total and % Population		10,506 (5.51%)	139,196 (73.00%)	6,961 (3.65%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 28 -- **189,696 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 28	189,696 (100.00%)	111,152 (100.00%)	143,091 (100.00%)	81,959 (100.00%)

Core Constituencies

Grant_Esselstyn_Sen_12_05

Total and % Population 111,152 (58.59%) 143,091 (75.43%) 81,959 (43.21%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 29 -- 189,424 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 29	189,424 (100.00%)	53,786 (100.00%)	145,674 (100.00%)	39,150 (100.00%)
Total and % Population		53,786 (28.39%)	145,674 (76.90%)	39,150 (20.67%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 3 -- 191,212 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 3	191,212 (100.00%)	44,238 (100.00%)	148,915 (100.00%)	31,545 (100.00%)
Total and % Population		44,238 (23.14%)	148,915 (77.88%)	31,545 (16.50%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 30 -- 191,939 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 30	191,939 (100.00%)	31,975 (100.00%)	146,603 (100.00%)	23,116 (100.00%)
Total and % Population		31,975 (16.66%)	146,603 (76.38%)	23,116 (12.04%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 31 -- 192,755 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 31	192,755 (100.00%)	41,054 (100.00%)	142,455 (100.00%)	27,937 (100.00%)
Total and % Population		41,054 (21.30%)	142,455 (73.90%)	27,937 (14.49%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 32 -- 192,448 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 32	192,448 (100.00%)	30,039 (100.00%)	149,879 (100.00%)	22,274 (100.00%)
Total and % Population		30,039 (15.61%)	149,879 (77.88%)	22,274 (11.57%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 33 -- 192,694 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 33	192,694 (100.00%)	84,864 (100.00%)	146,415 (100.00%)	62,897 (100.00%)
Total and % Population		84,864 (44.04%)	146,415 (75.98%)	62,897 (32.64%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 34 -- 192,023 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 16	7,525 (3.92%)	650 (0.56%)	5,636 (3.96%)	438 (0.52%)
Dist. 34	184,498 (96.08%)	114,847 (99.44%)	136,513 (96.04%)	83,389 (99.48%)
Total and % Population		115,497 (60.15%)	142,149 (74.03%)	83,827 (43.65%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 193,194 Total Population

Core Constituencies

Grant_Esselstyn_Sen_12_05

35 --

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 35	193,194 (100.00%)	108,089 (100.00%)	145,115 (100.00%)	78,440 (100.00%)
Total and % Population		108,089 (55.95%)	145,115 (75.11%)	78,440 (40.60%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 36 -- 192,282 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 36	192,282 (100.00%)	104,523 (100.00%)	161,385 (100.00%)	82,859 (100.00%)
Total and % Population		104,523 (54.36%)	161,385 (83.93%)	82,859 (43.09%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 37 -- 192,671 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 37	192,671 (100.00%)	40,191 (100.00%)	147,779 (100.00%)	28,484 (100.00%)
Total and % Population		40,191 (20.86%)	147,779 (76.70%)	28,484 (14.78%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 38 -- 190,605 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 38	190,605 (100.00%)	128,028 (100.00%)	146,085 (100.00%)	96,936 (100.00%)
Total and % Population		128,028 (67.17%)	146,085 (76.64%)	96,936 (50.86%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 39 -- 190,184 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 39	190,184 (100.00%)	119,401 (100.00%)	155,780 (100.00%)	93,789 (100.00%)
Total and % Population		119,401 (62.78%)	155,780 (81.91%)	93,789 (49.31%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 40 -- 191,098 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 40	191,098 (100.00%)	47,061 (100.00%)	146,443 (100.00%)	34,217 (100.00%)
Total and % Population		47,061 (24.63%)	146,443 (76.63%)	34,217 (17.91%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 41 -- 190,544 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 41	190,544 (100.00%)	35,719 (100.00%)	147,000 (100.00%)	28,277 (100.00%)
Total and % Population		35,719 (18.75%)	147,000 (77.15%)	28,277 (14.84%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 41 -- 191,023 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 41	191,023 (100.00%)	35,719 (100.00%)	147,000 (100.00%)	28,277 (100.00%)
Total and % Population		35,719 (18.75%)	147,000 (77.15%)	28,277 (14.84%)

Core Constituencies

Grant_Esselstyn_Sen_12_05

Dist. 41	191,023 (100.00%)	121,762 (100.00%)	145,278 (100.00%)	90,961 (100.00%)
Total and % Population		121,762 (63.74%)	145,278 (76.05%)	90,961 (47.62%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 42 -- **190,153 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 42	190,153 (100.00%)	55,060 (100.00%)	153,285 (100.00%)	44,597 (100.00%)
Total and % Population		55,060 (28.96%)	153,285 (80.61%)	44,597 (23.45%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 43 -- **191,784 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 43	191,784 (100.00%)	115,841 (100.00%)	144,698 (100.00%)	84,675 (100.00%)
Total and % Population		115,841 (60.40%)	144,698 (75.45%)	84,675 (44.15%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 44 -- **188,256 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 44	188,256 (100.00%)	136,906 (100.00%)	144,606 (100.00%)	103,425 (100.00%)
Total and % Population		136,906 (72.72%)	144,606 (76.81%)	103,425 (54.94%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 45 -- **190,692 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 45	190,692 (100.00%)	37,542 (100.00%)	140,706 (100.00%)	26,149 (100.00%)
Total and % Population		37,542 (19.69%)	140,706 (73.79%)	26,149 (13.71%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 46 -- **190,312 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 46	190,312 (100.00%)	35,180 (100.00%)	146,713 (100.00%)	24,793 (100.00%)
Total and % Population		35,180 (18.49%)	146,713 (77.09%)	24,793 (13.03%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 47 -- **190,607 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 47	190,607 (100.00%)	35,538 (100.00%)	146,599 (100.00%)	25,543 (100.00%)
Total and % Population		35,538 (18.64%)	146,599 (76.91%)	25,543 (13.40%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 48 -- **190,123 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 48	190,123 (100.00%)	18,879 (100.00%)	136,995 (100.00%)	12,968 (100.00%)
Total and % Population		18,879 (9.93%)	136,995 (72.06%)	12,968 (6.82%)

Core Constituencies

Grant_Esselstyn_Sen_12_05

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **189,355 Total Population****49 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 49	189,355 (100.00%)	16,099 (100.00%)	144,123 (100.00%)	11,475 (100.00%)
Total and % Population		16,099 (8.50%)	144,123 (76.11%)	11,475 (6.06%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **191,921 Total Population****5 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 5	191,921 (100.00%)	57,719 (100.00%)	139,394 (100.00%)	41,736 (100.00%)
Total and % Population		57,719 (30.07%)	139,394 (72.63%)	41,736 (21.75%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **189,320 Total Population****50 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 50	189,320 (100.00%)	11,726 (100.00%)	148,799 (100.00%)	8,341 (100.00%)
Total and % Population		11,726 (6.19%)	148,799 (78.60%)	8,341 (4.41%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **190,167 Total Population****51 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 51	190,167 (100.00%)	2,835 (100.00%)	155,571 (100.00%)	1,876 (100.00%)
Total and % Population		2,835 (1.49%)	155,571 (81.81%)	1,876 (0.99%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **190,799 Total Population****52 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 52	190,799 (100.00%)	27,096 (100.00%)	146,620 (100.00%)	19,120 (100.00%)
Total and % Population		27,096 (14.20%)	146,620 (76.85%)	19,120 (10.02%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **190,236 Total Population****53 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 53	190,236 (100.00%)	10,924 (100.00%)	148,201 (100.00%)	7,558 (100.00%)
Total and % Population		10,924 (5.74%)	148,201 (77.90%)	7,558 (3.97%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **192,443 Total Population****54 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 54	192,443 (100.00%)	8,128 (100.00%)	143,843 (100.00%)	5,450 (100.00%)
Total and % Population		8,128 (4.22%)	143,843 (74.75%)	5,450 (2.83%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **190,155 Total Population****55 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 55	190,155 (100.00%)	8,128 (100.00%)	143,843 (100.00%)	5,450 (100.00%)
Total and % Population		8,128 (4.22%)	143,843 (74.75%)	5,450 (2.83%)

Core Constituencies

Grant_Esselstyn_Sen_12_05

Dist. 55	190,155 (100.00%)	128,045 (100.00%)	141,968 (100.00%)	93,659 (100.00%)
Total and % Population		128,045 (67.34%)	141,968 (74.66%)	93,659 (49.25%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 56 -- **191,226 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 56	191,226 (100.00%)	15,455 (100.00%)	144,448 (100.00%)	10,940 (100.00%)
Total and % Population		15,455 (8.08%)	144,448 (75.54%)	10,940 (5.72%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 6 -- **191,834 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 6	191,834 (100.00%)	44,496 (100.00%)	155,742 (100.00%)	35,748 (100.00%)
Total and % Population		44,496 (23.20%)	155,742 (81.19%)	35,748 (18.63%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 7 -- **189,709 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 7	189,709 (100.00%)	43,563 (100.00%)	147,425 (100.00%)	31,601 (100.00%)
Total and % Population		43,563 (22.96%)	147,425 (77.71%)	31,601 (16.66%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 8 -- **192,396 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 8	192,396 (100.00%)	61,785 (100.00%)	145,144 (100.00%)	44,098 (100.00%)
Total and % Population		61,785 (32.11%)	145,144 (75.44%)	44,098 (22.92%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 9 -- **192,915 Total Population**

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 9	192,915 (100.00%)	61,009 (100.00%)	142,054 (100.00%)	41,948 (100.00%)
Total and % Population		61,009 (31.62%)	142,054 (73.64%)	41,948 (21.74%)

EXHIBIT 8

User:

Plan Name: Grant_Esselstyn_Sen_illustrative12_05

Plan Type:

Core Constituencies

Core Constituencies

Grant_Esselstyn_Sen_12_05

From Plan: **GA_Senate2021**

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 1 -- 191,402 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 001	191,402 (100.00%)	46,451 (100.00%)	51,779 (100.00%)	145,428 (100.00%)	36,468 (100.00%)
Total and % Population		46,451 (24.27%)	51,779 (27.05%)	145,428 (75.98%)	36,468 (19.05%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 10 -- 192,601 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 010	89,018 (46.22%)	73,374 (64.10%)	76,078 (63.71%)	69,423 (46.73%)	58,869 (64.85%)
Dist. 017	36,218 (18.80%)	9,561 (8.35%)	10,276 (8.61%)	26,690 (17.96%)	7,232 (7.97%)
Dist. 025	30,217 (15.69%)	7,270 (6.35%)	7,736 (6.48%)	23,919 (16.10%)	6,035 (6.65%)
Dist. 043	37,148 (19.29%)	24,264 (21.20%)	25,328 (21.21%)	28,537 (19.21%)	18,640 (20.53%)
Total and % Population		114,469 (59.43%)	119,418 (62.00%)	148,569 (77.14%)	90,776 (47.13%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 11 -- 189,976 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 011	189,976 (100.00%)	59,469 (100.00%)	61,964 (100.00%)	144,597 (100.00%)	44,887 (100.00%)
Total and % Population		59,469 (31.30%)	61,964 (32.62%)	144,597 (76.11%)	44,887 (23.63%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 12 -- 190,819 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 012	190,819 (100.00%)	112,733 (100.00%)	115,621 (100.00%)	149,154 (100.00%)	86,465 (100.00%)
Total and % Population		112,733 (59.08%)	115,621 (60.59%)	149,154 (78.17%)	86,465 (45.31%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 13 -- 194,905 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 013	189,326 (97.14%)	51,601 (96.58%)	54,161 (96.67%)	144,141 (96.84%)	38,871 (95.88%)
Dist. 020	5,579 (2.86%)	1,826 (3.42%)	1,866 (3.33%)	4,705 (3.16%)	1,669 (4.12%)
Total and % Population		53,427 (27.41%)	56,027 (28.75%)	148,846 (76.37%)	40,540 (20.80%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 14 -- 192,533 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
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Core Constituencies

Grant_Esselstyn_Sen_12_05

Dist. 014	192,533 (100.00%)	33,017 (100.00%)	37,409 (100.00%)	155,340 (100.00%)	29,470 (100.00%)
Total and % Population		33,017 (17.15%)	37,409 (19.43%)	155,340 (80.68%)	29,470 (15.31%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 15 -- **189,446 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 015	189,446 (100.00%)	100,396 (100.00%)	105,556 (100.00%)	144,506 (100.00%)	78,040 (100.00%)
Total and % Population		100,396 (52.99%)	105,556 (55.72%)	144,506 (76.28%)	78,040 (41.19%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 16 -- **190,077 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 016	150,183 (79.01%)	34,078 (92.14%)	36,425 (91.58%)	115,788 (79.14%)	26,367 (91.41%)
Dist. 028	39,894 (20.99%)	2,906 (7.86%)	3,351 (8.42%)	30,518 (20.86%)	2,478 (8.59%)
Total and % Population		36,984 (19.46%)	39,776 (20.93%)	146,306 (76.97%)	28,845 (15.18%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 17 -- **193,838 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 017	74,020 (38.19%)	12,832 (30.59%)	13,877 (31.16%)	56,210 (37.33%)	9,929 (30.29%)
Dist. 024	28,993 (14.96%)	5,772 (13.76%)	6,122 (13.75%)	23,331 (15.50%)	4,551 (13.88%)
Dist. 025	81,948 (42.28%)	20,164 (48.07%)	21,209 (47.62%)	63,998 (42.51%)	15,751 (48.05%)
Dist. 026	8,877 (4.58%)	3,175 (7.57%)	3,330 (7.48%)	7,026 (4.67%)	2,549 (7.78%)
Total and % Population		41,943 (21.64%)	44,538 (22.98%)	150,565 (77.68%)	32,780 (16.91%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 18 -- **192,680 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 018	138,643 (71.96%)	41,362 (72.60%)	43,686 (72.27%)	107,971 (72.70%)	32,661 (73.21%)
Dist. 020	40,743 (21.15%)	11,574 (20.31%)	12,393 (20.50%)	30,078 (20.25%)	8,821 (19.77%)
Dist. 026	13,294 (6.90%)	4,039 (7.09%)	4,368 (7.23%)	10,459 (7.04%)	3,131 (7.02%)
Total and % Population		56,975 (29.57%)	60,447 (31.37%)	148,508 (77.07%)	44,613 (23.15%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 19 -- **192,316 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 019	192,316 (100.00%)	48,391 (100.00%)	51,389 (100.00%)	146,131 (100.00%)	37,589 (100.00%)
Total and % Population		48,391 (25.16%)	51,389 (26.72%)	146,131 (75.98%)	37,589 (19.55%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 2 -- **190,408 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 002	190,408 (100.00%)	91,457 (100.00%)	95,717 (100.00%)	150,843 (100.00%)	70,688 (100.00%)
Total and % Population		91,457 (48.03%)	95,717 (50.27%)	150,843 (79.22%)	70,688 (37.12%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 20 -- **194,919 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
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Core Constituencies

Grant_Esselstyn_Sen_12_05

Dist. 020	146,266 (75.04%)	46,083 (73.09%)	48,309 (73.36%)	112,250 (74.52%)	35,501 (72.62%)
Dist. 023	31,442 (16.13%)	10,809 (17.14%)	11,194 (17.00%)	24,325 (16.15%)	8,247 (16.87%)
Dist. 026	17,211 (8.83%)	6,156 (9.76%)	6,350 (9.64%)	14,063 (9.34%)	5,140 (10.51%)
Total and % Population		63,048 (32.35%)	65,853 (33.78%)	150,638 (77.28%)	48,888 (25.08%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 21 -- 192,572 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 021	192,572 (100.00%)	12,821 (100.00%)	15,492 (100.00%)	145,120 (100.00%)	10,823 (100.00%)
Total and % Population		12,821 (6.66%)	15,492 (8.04%)	145,120 (75.36%)	10,823 (5.62%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 22 -- 188,930 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 022	158,756 (84.03%)	87,216 (90.55%)	91,758 (89.86%)	124,698 (85.14%)	67,487 (90.64%)
Dist. 023	30,174 (15.97%)	9,103 (9.45%)	10,351 (10.14%)	21,768 (14.86%)	6,970 (9.36%)
Total and % Population		96,319 (50.98%)	102,109 (54.05%)	146,466 (77.52%)	74,457 (39.41%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 23 -- 188,095 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 022	34,407 (18.29%)	23,288 (24.05%)	24,227 (24.19%)	25,752 (17.53%)	17,522 (23.36%)
Dist. 023	89,638 (47.66%)	39,199 (40.48%)	40,730 (40.66%)	69,147 (47.07%)	30,130 (40.17%)
Dist. 024	8,494 (4.52%)	4,696 (4.85%)	4,838 (4.83%)	6,539 (4.45%)	3,612 (4.82%)
Dist. 025	26,833 (14.27%)	12,890 (13.31%)	13,267 (13.25%)	22,274 (15.16%)	10,300 (13.73%)
Dist. 026	28,723 (15.27%)	16,752 (17.30%)	17,100 (17.07%)	23,196 (15.79%)	13,441 (17.92%)
Total and % Population		96,825 (51.48%)	100,162 (53.25%)	146,908 (78.10%)	75,005 (39.88%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 24 -- 194,277 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 023	39,090 (20.12%)	7,484 (22.03%)	8,484 (22.42%)	28,873 (19.56%)	5,786 (21.33%)
Dist. 024	155,187 (79.88%)	26,487 (77.97%)	29,364 (77.58%)	118,732 (80.44%)	21,340 (78.67%)
Total and % Population		33,971 (17.49%)	37,848 (19.48%)	147,605 (75.98%)	27,126 (13.96%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 25 -- 192,708 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 010	72,694 (37.72%)	40,304 (35.93%)	42,677 (36.08%)	54,945 (38.35%)	30,824 (36.51%)
Dist. 017	46,069 (23.91%)	26,260 (23.41%)	27,827 (23.52%)	34,078 (23.79%)	19,523 (23.12%)
Dist. 025	36,650 (19.02%)	17,374 (15.49%)	18,419 (15.57%)	26,646 (18.60%)	12,797 (15.16%)
Dist. 034	3,542 (1.84%)	2,856 (2.55%)	2,988 (2.53%)	2,793 (1.95%)	2,342 (2.77%)
Dist. 044	33,753 (17.52%)	25,393 (22.63%)	26,380 (22.30%)	24,801 (17.31%)	18,938 (22.43%)
Total and % Population		112,187 (58.22%)	118,291 (61.38%)	143,263 (74.34%)	84,424 (43.81%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 26 -- 190,535 Total Population

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 018	53,182 (27.91%)	16,710 (16.23%)	17,446 (16.30%)	42,225 (29.06%)	13,001 (16.93%)

Core Constituencies

Grant_Esselstyn_Sen_12_05

Dist. 025	15,513 (8.14%)	6,708 (6.51%)	6,992 (6.53%)	12,080 (8.31%)	4,977 (6.48%)
Dist. 026	121,840 (63.95%)	79,566 (77.26%)	82,601 (77.17%)	91,000 (62.63%)	58,795 (76.58%)
Total and % Population		102,984 (54.05%)	107,039 (56.18%)	145,305 (76.26%)	76,773 (40.29%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 27 -- **190,676 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 027	190,676 (100.00%)	8,440 (100.00%)	10,506 (100.00%)	139,196 (100.00%)	6,961 (100.00%)
Total and % Population		8,440 (4.43%)	10,506 (5.51%)	139,196 (73.00%)	6,961 (3.65%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 28 -- **189,696 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 016	6,708 (3.54%)	2,820 (2.65%)	2,991 (2.69%)	4,937 (3.45%)	2,109 (2.57%)
Dist. 028	81,767 (43.10%)	22,011 (20.65%)	23,739 (21.36%)	62,038 (43.36%)	16,902 (20.62%)
Dist. 034	30,041 (15.84%)	21,601 (20.26%)	22,453 (20.20%)	23,306 (16.29%)	17,388 (21.22%)
Dist. 035	64,956 (34.24%)	54,524 (51.14%)	56,148 (50.51%)	48,220 (33.70%)	41,268 (50.35%)
Dist. 039	6,224 (3.28%)	5,656 (5.31%)	5,821 (5.24%)	4,590 (3.21%)	4,292 (5.24%)
Total and % Population		106,612 (56.20%)	111,152 (58.59%)	143,091 (75.43%)	81,959 (43.21%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 29 -- **189,424 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 029	189,424 (100.00%)	50,184 (100.00%)	53,786 (100.00%)	145,674 (100.00%)	39,150 (100.00%)
Total and % Population		50,184 (26.49%)	53,786 (28.39%)	145,674 (76.90%)	39,150 (20.67%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 3 -- **191,212 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 003	191,212 (100.00%)	40,685 (100.00%)	44,238 (100.00%)	148,915 (100.00%)	31,545 (100.00%)
Total and % Population		40,685 (21.28%)	44,238 (23.14%)	148,915 (77.88%)	31,545 (16.50%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 30 -- **191,939 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 028	42,872 (22.34%)	5,187 (18.16%)	5,816 (18.19%)	32,753 (22.34%)	4,183 (18.10%)
Dist. 030	149,067 (77.66%)	23,379 (81.84%)	26,159 (81.81%)	113,850 (77.66%)	18,933 (81.90%)
Total and % Population		28,566 (14.88%)	31,975 (16.66%)	146,603 (76.38%)	23,116 (12.04%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 31 -- **192,755 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 030	9,032 (4.69%)	883 (2.38%)	1,010 (2.46%)	6,796 (4.77%)	680 (2.43%)
Dist. 031	183,723 (95.31%)	36,172 (97.62%)	40,044 (97.54%)	135,659 (95.23%)	27,257 (97.57%)
Total and % Population		37,055 (19.22%)	41,054 (21.30%)	142,455 (73.90%)	27,937 (14.49%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 32 -- **192,448 Total Population**

Core Constituencies

Grant_Esselstyn_Sen_12_05

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 032	192,448 (100.00%)	26,098 (100.00%)	30,039 (100.00%)	149,879 (100.00%)	22,274 (100.00%)
Total and % Population		26,098 (13.56%)	30,039 (15.61%)	149,879 (77.88%)	22,274 (11.57%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 33 -- **192,694 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 033	192,694 (100.00%)	79,359 (100.00%)	84,864 (100.00%)	146,415 (100.00%)	62,897 (100.00%)
Total and % Population		79,359 (41.18%)	84,864 (44.04%)	146,415 (75.98%)	62,897 (32.64%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 34 -- **192,023 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 016	34,938 (18.19%)	6,278 (5.68%)	6,914 (5.99%)	26,408 (18.58%)	4,917 (5.87%)
Dist. 034	157,085 (81.81%)	104,180 (94.32%)	108,583 (94.01%)	115,741 (81.42%)	78,910 (94.13%)
Total and % Population		110,458 (57.52%)	115,497 (60.15%)	142,149 (74.03%)	83,827 (43.65%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 35 -- **193,194 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 028	25,889 (13.40%)	6,165 (6.03%)	6,766 (6.26%)	19,664 (13.55%)	4,719 (6.02%)
Dist. 030	33,376 (17.28%)	14,319 (14.00%)	15,439 (14.28%)	24,431 (16.84%)	10,733 (13.68%)
Dist. 031	8,837 (4.57%)	2,767 (2.71%)	3,020 (2.79%)	6,592 (4.54%)	2,183 (2.78%)
Dist. 035	125,092 (64.75%)	79,033 (77.27%)	82,864 (76.66%)	94,428 (65.07%)	60,805 (77.52%)
Total and % Population		102,284 (52.94%)	108,089 (55.95%)	145,115 (75.11%)	78,440 (40.60%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 36 -- **192,282 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 036	192,282 (100.00%)	99,832 (100.00%)	104,523 (100.00%)	161,385 (100.00%)	82,859 (100.00%)
Total and % Population		99,832 (51.92%)	104,523 (54.36%)	161,385 (83.93%)	82,859 (43.09%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 37 -- **192,671 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 037	192,671 (100.00%)	35,411 (100.00%)	40,191 (100.00%)	147,779 (100.00%)	28,484 (100.00%)
Total and % Population		35,411 (18.38%)	40,191 (20.86%)	147,779 (76.70%)	28,484 (14.78%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 38 -- **190,605 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 035	2,791 (1.46%)	2,563 (2.09%)	2,684 (2.10%)	2,027 (1.39%)	1,946 (2.01%)
Dist. 038	187,814 (98.54%)	120,333 (97.91%)	125,344 (97.90%)	144,058 (98.61%)	94,990 (97.99%)
Total and % Population		122,896 (64.48%)	128,028 (67.17%)	146,085 (76.64%)	96,936 (50.86%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 39 -- **190,184 Total Population**

Core Constituencies

Grant_Esselstyn_Sen_12_05

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 006	4,908 (2.58%)	3,733 (3.25%)	3,810 (3.19%)	4,348 (2.79%)	3,379 (3.60%)
Dist. 039	185,276 (97.42%)	111,096 (96.75%)	115,591 (96.81%)	151,432 (97.21%)	90,410 (96.40%)
Total and % Population		114,829 (60.38%)	119,401 (62.78%)	155,780 (81.91%)	93,789 (49.31%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **191,098 Total Population****4 --**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 004	191,098 (100.00%)	43,692 (100.00%)	47,061 (100.00%)	146,443 (100.00%)	34,217 (100.00%)
Total and % Population		43,692 (22.86%)	47,061 (24.63%)	146,443 (76.63%)	34,217 (17.91%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **190,544 Total Population****40 --**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 040	190,544 (100.00%)	32,087 (100.00%)	35,719 (100.00%)	147,000 (100.00%)	28,277 (100.00%)
Total and % Population		32,087 (16.84%)	35,719 (18.75%)	147,000 (77.15%)	28,277 (14.84%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **191,023 Total Population****41 --**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 041	191,023 (100.00%)	116,500 (100.00%)	121,762 (100.00%)	145,278 (100.00%)	90,961 (100.00%)
Total and % Population		116,500 (60.99%)	121,762 (63.74%)	145,278 (76.05%)	90,961 (47.62%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **190,153 Total Population****42 --**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 042	182,791 (96.13%)	48,605 (95.04%)	52,350 (95.08%)	147,119 (95.98%)	42,356 (94.97%)
Dist. 044	7,362 (3.87%)	2,537 (4.96%)	2,710 (4.92%)	6,166 (4.02%)	2,241 (5.03%)
Total and % Population		51,142 (26.90%)	55,060 (28.96%)	153,285 (80.61%)	44,597 (23.45%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **191,784 Total Population****43 --**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 017	36,203 (18.88%)	12,264 (11.13%)	13,126 (11.33%)	27,494 (19.00%)	9,561 (11.29%)
Dist. 043	155,581 (81.12%)	97,974 (88.87%)	102,715 (88.67%)	117,204 (81.00%)	75,114 (88.71%)
Total and % Population		110,238 (57.48%)	115,841 (60.40%)	144,698 (75.45%)	84,675 (44.15%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **188,256 Total Population****44 --**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 010	31,186 (16.57%)	20,789 (15.79%)	21,640 (15.81%)	23,516 (16.26%)	15,978 (15.45%)
Dist. 042	8,149 (4.33%)	5,898 (4.48%)	6,089 (4.45%)	6,833 (4.73%)	5,027 (4.86%)
Dist. 044	148,921 (79.11%)	104,985 (79.73%)	109,177 (79.75%)	114,257 (79.01%)	82,420 (79.69%)
Total and % Population		131,672 (69.94%)	136,906 (72.72%)	144,606 (76.81%)	103,425 (54.94%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District **190,692 Total Population****45 --**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
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Core Constituencies

Grant_Esselstyn_Sen_12_05

Dist. 045	190,692 (100.00%)	33,403 (100.00%)	37,542 (100.00%)	140,706 (100.00%)	26,149 (100.00%)
Total and % Population		33,403 (17.52%)	37,542 (19.69%)	140,706 (73.79%)	26,149 (13.71%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 46 -- **190,312 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 046	190,312 (100.00%)	32,130 (100.00%)	35,180 (100.00%)	146,713 (100.00%)	24,793 (100.00%)
Total and % Population		32,130 (16.88%)	35,180 (18.49%)	146,713 (77.09%)	24,793 (13.03%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 47 -- **190,607 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 047	190,607 (100.00%)	32,662 (100.00%)	35,538 (100.00%)	146,599 (100.00%)	25,543 (100.00%)
Total and % Population		32,662 (17.14%)	35,538 (18.64%)	146,599 (76.91%)	25,543 (13.40%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 48 -- **190,123 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 048	190,123 (100.00%)	16,184 (100.00%)	18,879 (100.00%)	136,995 (100.00%)	12,968 (100.00%)
Total and % Population		16,184 (8.51%)	18,879 (9.93%)	136,995 (72.06%)	12,968 (6.82%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 49 -- **189,355 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 049	189,355 (100.00%)	13,866 (100.00%)	16,099 (100.00%)	144,123 (100.00%)	11,475 (100.00%)
Total and % Population		13,866 (7.32%)	16,099 (8.50%)	144,123 (76.11%)	11,475 (6.06%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 5 -- **191,921 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 005	191,921 (100.00%)	52,919 (100.00%)	57,719 (100.00%)	139,394 (100.00%)	41,736 (100.00%)
Total and % Population		52,919 (27.57%)	57,719 (30.07%)	139,394 (72.63%)	41,736 (21.75%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 50 -- **189,320 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 050	189,320 (100.00%)	9,706 (100.00%)	11,726 (100.00%)	148,799 (100.00%)	8,341 (100.00%)
Total and % Population		9,706 (5.13%)	11,726 (6.19%)	148,799 (78.60%)	8,341 (4.41%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 51 -- **190,167 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 051	190,167 (100.00%)	1,668 (100.00%)	2,835 (100.00%)	155,571 (100.00%)	1,876 (100.00%)
Total and % Population		1,668 (0.88%)	2,835 (1.49%)	155,571 (81.81%)	1,876 (0.99%)

Core Constituencies

Grant_Esselstyn_Sen_12_05

Plan: Grant_Esselstyn_Sen_illustrative12_05, District**52 --****190,799 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 052	190,799 (100.00%)	23,969 (100.00%)	27,096 (100.00%)	146,620 (100.00%)	19,120 (100.00%)
Total and % Population		23,969 (12.56%)	27,096 (14.20%)	146,620 (76.85%)	19,120 (10.02%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District**53 --****190,236 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 053	190,236 (100.00%)	8,606 (100.00%)	10,924 (100.00%)	148,201 (100.00%)	7,558 (100.00%)
Total and % Population		8,606 (4.52%)	10,924 (5.74%)	148,201 (77.90%)	7,558 (3.97%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District**54 --****192,443 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 054	192,443 (100.00%)	6,014 (100.00%)	8,128 (100.00%)	143,843 (100.00%)	5,450 (100.00%)
Total and % Population		6,014 (3.13%)	8,128 (4.22%)	143,843 (74.75%)	5,450 (2.83%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District**55 --****190,155 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 055	190,155 (100.00%)	121,409 (100.00%)	128,045 (100.00%)	141,968 (100.00%)	93,659 (100.00%)
Total and % Population		121,409 (63.85%)	128,045 (67.34%)	141,968 (74.66%)	93,659 (49.25%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District**56 --****191,226 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 056	191,226 (100.00%)	12,428 (100.00%)	15,455 (100.00%)	144,448 (100.00%)	10,940 (100.00%)
Total and % Population		12,428 (6.50%)	15,455 (8.08%)	144,448 (75.54%)	10,940 (5.72%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District**6 --****191,834 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 006	186,493 (97.22%)	38,139 (94.65%)	42,136 (94.70%)	151,433 (97.23%)	33,852 (94.70%)
Dist. 038	5,341 (2.78%)	2,155 (5.35%)	2,360 (5.30%)	4,309 (2.77%)	1,896 (5.30%)
Total and % Population		40,294 (21.00%)	44,496 (23.20%)	155,742 (81.19%)	35,748 (18.63%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District**7 --****189,709 Total Population**

	Population	Black	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 007	189,709 (100.00%)	39,008 (100.00%)	43,563 (100.00%)	147,425 (100.00%)	31,601 (100.00%)
Total and % Population		39,008 (20.56%)	43,563 (22.96%)	147,425 (77.71%)	31,601 (16.66%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District**8 --****192,396 Total Population**

Core Constituencies

Grant_Esselstyn_Sen_12_05

	Population	Black	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 008	192,396 (100.00%)	58,388 (100.00%)	61,785 (100.00%)	145,144 (100.00%)	44,098 (100.00%)
Total and % Population		58,388 (30.35%)	61,785 (32.11%)	145,144 (75.44%)	44,098 (22.92%)

Plan: Grant_Esselstyn_Sen_illustrative12_05, District 9 -- **192,915 Total Population**

	Population	Black	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 009	192,915 (100.00%)	55,952 (100.00%)	61,009 (100.00%)	142,054 (100.00%)	41,948 (100.00%)
Total and % Population		55,952 (29.00%)	61,009 (31.62%)	142,054 (73.64%)	41,948 (21.74%)

EXHIBIT 9

User:

Plan Name: Grant_Esselstyn_Hse_illus_12_05

Plan Type:

Measures of Compactness Report

Measures of Compactness Report

Grant_Esselstyn_Hse_illus_12_05

	Reock	Polsby-Popper
Sum	N/A	N/A
Min	0.12	0.10
Max	0.66	0.59
Mean	0.39	0.28
Std. Dev.	0.11	0.10

District	Reock	Polsby-Popper
1	0.53	0.45
2	0.53	0.24
3	0.50	0.41
4	0.37	0.21
5	0.43	0.25
6	0.45	0.26
7	0.62	0.50
8	0.46	0.27
9	0.47	0.30
10	0.34	0.30
11	0.31	0.26
12	0.47	0.31
13	0.47	0.19
14	0.32	0.23
15	0.55	0.33
16	0.31	0.35
17	0.28	0.21
18	0.41	0.25
19	0.26	0.26

Measures of Compactness Report

Measures of Compactness Report

Grant_Esselstyn_Hse_illus_12_05

20	0.46	0.45
21	0.26	0.27
22	0.28	0.22
23	0.40	0.19
24	0.35	0.30
25	0.39	0.31
26	0.27	0.26
27	0.60	0.34
28	0.38	0.35
29	0.34	0.21
30	0.43	0.30
31	0.44	0.25
32	0.39	0.33
33	0.49	0.37
34	0.45	0.33
35	0.32	0.24
36	0.32	0.23
37	0.45	0.28
38	0.59	0.58
39	0.59	0.40
40	0.49	0.29
41	0.60	0.40
42	0.40	0.21
43	0.42	0.22
44	0.31	0.29
45	0.41	0.32
46	0.55	0.47
47	0.29	0.21
48	0.34	0.19

Measures of Compactness Report

Measures of Compactness Report

Grant_Esselstyn_Hse_illus_12_05

49	0.30	0.15
50	0.42	0.46
51	0.54	0.36
52	0.48	0.35
53	0.16	0.14
54	0.37	0.45
55	0.18	0.16
56	0.26	0.23
57	0.57	0.59
58	0.13	0.13
59	0.12	0.11
60	0.19	0.15
61	0.33	0.21
62	0.16	0.10
63	0.16	0.14
64	0.22	0.22
65	0.36	0.11
66	0.39	0.35
67	0.36	0.12
68	0.32	0.17
69	0.33	0.22
70	0.45	0.23
71	0.44	0.35
72	0.42	0.23
73	0.28	0.20
74	0.30	0.19
75	0.46	0.18
76	0.53	0.51
77	0.40	0.21

Measures of Compactness Report

Measures of Compactness Report

Grant_Esselstyn_Hse_illus_12_05

78	0.31	0.18
79	0.50	0.21
80	0.38	0.42
81	0.47	0.40
82	0.49	0.30
83	0.34	0.36
84	0.25	0.20
85	0.36	0.32
86	0.17	0.17
87	0.26	0.24
88	0.26	0.20
89	0.14	0.10
90	0.36	0.29
91	0.27	0.17
92	0.36	0.20
93	0.26	0.11
94	0.31	0.15
95	0.44	0.25
96	0.18	0.21
97	0.28	0.24
98	0.42	0.52
99	0.36	0.29
100	0.34	0.29
101	0.53	0.46
102	0.56	0.35
103	0.33	0.24
104	0.28	0.25
105	0.34	0.28
106	0.66	0.50

Measures of Compactness Report

Measures of Compactness Report

Grant_Esselstyn_Hse_illus_12_05

107	0.51	0.32
108	0.43	0.32
109	0.39	0.28
110	0.36	0.33
111	0.33	0.29
112	0.62	0.52
113	0.50	0.32
114	0.51	0.28
115	0.29	0.28
116	0.33	0.23
117	0.40	0.33
118	0.35	0.22
119	0.39	0.21
120	0.44	0.25
121	0.43	0.30
122	0.48	0.43
123	0.30	0.18
124	0.44	0.23
125	0.41	0.17
126	0.52	0.41
127	0.35	0.20
128	0.60	0.32
129	0.48	0.25
130	0.51	0.25
131	0.38	0.28
132	0.27	0.30
133	0.36	0.29
134	0.37	0.31
135	0.39	0.23

Measures of Compactness Report

Measures of Compactness Report

Grant_Esselstyn_Hse_illus_12_05

136	0.54	0.26
137	0.33	0.16
138	0.33	0.20
139	0.28	0.23
140	0.29	0.19
141	0.26	0.20
142	0.56	0.36
143	0.31	0.26
144	0.43	0.22
145	0.34	0.21
146	0.50	0.26
147	0.44	0.37
148	0.35	0.18
149	0.46	0.28
150	0.44	0.28
151	0.53	0.22
152	0.40	0.30
153	0.30	0.30
154	0.41	0.33
155	0.47	0.44
156	0.25	0.20
157	0.32	0.19
158	0.48	0.33
159	0.34	0.22
160	0.49	0.37
161	0.51	0.31
162	0.37	0.21
163	0.27	0.18
164	0.30	0.17

Measures of Compactness Report

Measures of Compactness Report

Grant_Esselstyn_Hse_illus_12_05

165	0.23	0.16
166	0.43	0.36
167	0.42	0.19
168	0.24	0.26
169	0.28	0.23
170	0.53	0.34
171	0.35	0.37
172	0.44	0.32
173	0.57	0.38
174	0.41	0.24
175	0.47	0.37
176	0.34	0.16
177	0.43	0.34
178	0.48	0.22
179	0.45	0.42
180	0.61	0.40

Measures of Compactness Summary

Reock The measure is always between 0 and 1, with 1 being the most compact.
Polsby-Popper The measure is always between 0 and 1, with 1 being the most compact.

EXHIBIT 10

User:

Plan Name: Grant_Esselstyn_Hse_illus_12_05

Plan Type:

Districts & Their Incumbents

Districts & Their Incumbents

Grant_Esselstyn_Hse_illus_12_05

District	Name	Party	Previous District
1	Michael Cameron	R	1
2	Steve Tarvin	R	2
3	Dewayne Hill	R	3
4	Kasey Carpenter	R	4
5	Matt Barton	R	5
6	Jason Ridley	R	6
7	David Ralston	R	7
8	Norman Gunter	R	8
9	Will Wade	R	9
10	Victor Anderson	R	10
11	Rick Jasperse	R	11
12	James Lumsden	R	12
13	Katie Dempsey	R	13
14	Mitchell scoggins	R	14
15	Matthew Gambill	R	15
16	Trey Kelley	R	16
17	Martin Momtahan	R	17
18	Tyler Smith	R	18
19	Micah Gravley	R	67
19	Joseph Gullett	R	19
20	Charlice Byrd	R	20
21	Brad Thomas	R	21
21	Wes Cantrell	R	22
22	Ed Setzler	R	35
23	Mandi Ballinger	R	23
24	Sheri Gilligan	R	24
25	Todd Jones	R	25
26	Lauren McDonald	R	26
27	Lee Hawkins	R	27
28			
29	Matt Dubnik	R	29
30			
31	Emory Dunahoo Jr	R	30
31	Thomas Benton	R	31
32	Chris Erwin	R	28
33	Alan Powell	R	32
34	Devan Seabaugh	R	34
35			
36	Ginny Ehrhart	R	36
37	Mary Frances Williams	D	37

Districts & Their Incumbents

Districts & Their Incumbents

Grant_Esselstyn_Hse_illus_12_05

District	Name	Party	Previous District
38	David Wilkerson	D	38
39	Erica Thomas	D	39
40	Erick Allen	D	40
41	Michael Smith	D	41
42	Teri Anulewicz	D	42
43			
44	Donald Parsons	R	44
45	Sharon Cooper	R	43
45	Matthew Dollar	R	45
46	John Carson	R	46
47	Jan Jones	R	47
48	Mary Robichaux	D	48
49	Charles Martin	R	49
50	Angelika Kausche	D	50
51	Josh McLauren	D	51
52	Shea Roberts	D	52
53			
54	Betsy Holland	D	54
55	Marie Metze	D	55
56	Mesha Mainor	D	56
57	Stacy Evans	D	57
58	Park Cannon	D	58
59			
60	Sheila Jones	D	53
61			
62	William Boddie	D	62
62	David Dreyer	D	59
63	Kim Schofield	D	60
64	Roger Bruce	D	61
65	Mandisha Thomas	D	65
66	Kimberly Alexander	D	66
67	Philip Singleton	R	71
68	Derrick Jackson	D	64
69	Debra Bazemore	D	63
70	Lynn Smith	R	70
71	James Collins	R	68
72	Randy Nix	R	69
73	Josh Bonner	R	72
74			
75	Mike Glanton	D	75
75	Demetrius Douglas	D	78
76	Sandra Scott	D	76
77	Rhonda Burnough	D	77

Districts & Their Incumbents

Districts & Their Incumbents

Grant_Esselstyn_Hse_illus_12_05

District	Name	Party	Previous District
78	Mathiak	R	73
79	Yasmine Neal	D	74
80	Mike Wilensky	D	79
81	Scott Holcomb	D	81
82	Mary Margaret Oliver	D	82
83	Matthew Wilson	D	80
84	Renitta Shannon	D	84
85	Karla Drenner	D	85
86	Zulma Lopez	D	86
87	Viola Davis	D	87
88	Billy Mitchell	D	88
89	Becky Evans	D	83
90	Bee Nguyen	D	89
91	Angela Moore	D	90
92	Rhonda Taylor	D	91
93	Doreen Carter	D	92
94	Karen Bennett	D	94
95	Dar'shun Kendrick	D	93
96	Pedro Marin	D	96
97	Beth Moore	D	95
98	Marvin Lim	D	99
99			
100	Bonnie Rich	R	97
101	Gregg Kennard	D	102
102			
103	Timothy Barr	R	103
104	Chuck Efstoration	R	104
105	Donna McLeod	D	105
106	Rebecca Mitchell	D	106
106	Shelly Hutchinson	D	107
107	Sam Park	D	101
108	Jasmine Clark	D	108
109	Dewey McClain	D	100
110			
111	Tom Kirby	R	114
112	Bruce Williamson III	R	115
113	Sharon Henderson	D	113
114	Dave Belton	R	112
115	El-Mahdi Holly	D	111
115	Regina Lewis-Ward	D	109
116			
117			
118	Clint Crowe	R	110

Districts & Their Incumbents

Districts & Their Incumbents

Grant_Esselstyn_Hse_illus_12_05

District	Name	Party	Previous District
118	Susan Holmes	R	129
119	Terry England	R	116
120	Houston Gaines	R	117
121	Marcus Wiedower	R	119
122	Spencer Frye	D	118
123	Rob Leverett	R	33
124	Trey Rhodes	R	120
125	Barry Fleming	R	121
126	Gloria Frazier	D	126
127	Mark Newton	R	123
128	Mack Jackson	D	128
129	Wayne Howard	D	124
130	Shelia Nelson	D	125
131	Jodi Lott	R	122
132	Brian Prince	D	127
133	Rick Williams	R	145
134	David Knight	R	130
135	Beth Camp	R	131
136	David Jenkins	R	132
137	Debbie Buckner	D	137
138	Vance Smith	R	133
139	Richard Smith	R	134
140	Calvin Smyre	D	135
141	Carolyn Hugley	D	136
142	Miriam Paris	D	142
142	Dale Washburn	R	141
143	James Beverly	D	143
144	Robert Dickey	R	140
144	Shaw Blackmon	R	146
145			
146	Danny Mathis	R	144
147	Heath Clark	R	147
148	Noel Williams	R	148
148	Robert Pruitt	R	149
149			
150	Patty Bentley	D	139
151	Mike Cheokas	R	138
152	Bill Yeara	R	152
153	CaMia Hopson-Jackson	D	153
154	Gerald Greene	R	151
154	Winfred Dukes	D	154
155	Matt Hatchett	R	150
156	Leesa Hagan	R	156

Districts & Their Incumbents

Districts & Their Incumbents

Grant_Esselstyn_Hse_illus_12_05

District	Name	Party	Previous District
157	William (Bill) Werkheiser	R	157
158	Larry (Butch) Parrish	R	158
159	Jon Burns	R	159
160	Jan Tankersley	R	160
161	Bill Hitchens	R	161
162	Carl Gilliard	D	162
163	Derek Mallow	D	163
164	Ron Stephens	R	164
165			
166	Jesse Petrea	R	166
167	Buddy Deloach	R	167
168	Al Williams	D	168
169	Clay Pirkle	R	155
170	Penny Houston	R	170
171	Joe Campbell	R	171
172	Sam Waston	R	172
173	Darlene Taylor	R	173
174	John Corbett	R	174
175	John LaHood	R	175
176	James Burchett	R	176
176	Dominic LaRiccia	R	169
177	Dexter Sharper	D	177
178	Steven Meeks	R	178
179	Don Hogan	R	179
180	Steven Sainz	R	180

Number of Incumbents in District with more than one Incumbent: 28

Number of Districts with No Incumbent: 16

Number of Districts with Incumbents of more than one party: 2

Number of Districts with Paired Democrats: 4

Number of Districts with Paired Republicans: 8



EXHIBIT 11

User:

Plan Name: Grant_Esselstyn_Hse_illus_12_05

Plan Type:

Population Summary

Population Summary

Grant_Esselstyn_Hse_illus_12_05

District	Population	Deviation	% Devn.	[% 18+_AP_BlK]	[% Black]
1	59,666	155	0.26%	4.2%	3.94%
2	59,773	262	0.44%	3.15%	2.68%
3	60,199	688	1.16%	3.35%	2.9%
4	59,070	-441	-0.74%	5.38%	4.41%
5	58,837	-674	-1.13%	4.6%	3.88%
6	59,712	201	0.34%	1.51%	1.07%
7	59,081	-430	-0.72%	0.62%	0.4%
8	59,244	-267	-0.45%	1.43%	1.16%
9	59,474	-37	-0.06%	1.57%	1.05%
10	59,519	8	0.01%	3.73%	3.03%
11	58,792	-719	-1.21%	1.85%	1.61%
12	59,300	-211	-0.35%	9.68%	8.68%
13	59,150	-361	-0.61%	19.18%	18.92%
14	59,135	-376	-0.63%	6.85%	5.98%
15	59,213	-298	-0.50%	14.19%	13.85%
16	59,402	-109	-0.18%	11.69%	11.36%
17	59,120	-391	-0.66%	23.02%	22.54%
18	59,335	-176	-0.30%	7.98%	7.19%
19	58,955	-556	-0.93%	24.15%	23.95%
20	60,107	596	1.00%	9.25%	8.34%
21	59,529	18	0.03%	5.06%	4.37%
22	59,460	-51	-0.09%	15.1%	14.31%
23	59,048	-463	-0.78%	6.5%	5.81%
24	59,011	-500	-0.84%	7%	6.14%
25	59,414	-97	-0.16%	5.9%	5.06%
26	59,248	-263	-0.44%	4.01%	3.41%
27	58,795	-716	-1.20%	3.69%	3.31%
28	58,972	-539	-0.91%	3.93%	3.49%
29	59,200	-311	-0.52%	13.59%	12.45%
30	59,266	-245	-0.41%	8.1%	7.56%
31	59,901	390	0.66%	7.57%	6.83%
32	59,145	-366	-0.62%	7.96%	7.33%
33	59,187	-324	-0.54%	11.2%	11.02%
34	59,875	364	0.61%	15.67%	14.73%
35	59,889	378	0.64%	28.4%	27.13%
36	59,994	483	0.81%	16.98%	16.26%
37	59,176	-335	-0.56%	28.18%	26.57%
38	59,317	-194	-0.33%	54.23%	53.68%

District	Population	Deviation	% Devn.	[% 18+_AP_Blak]	[% Black]
39	59,381	-130	-0.22%	55.29%	52.84%
40	59,044	-467	-0.78%	32.98%	31.39%
41	60,122	611	1.03%	39.35%	37%
42	59,620	109	0.18%	33.7%	31.87%
43	59,464	-47	-0.08%	26.53%	24.83%
44	60,002	491	0.83%	12.05%	11.23%
45	59,738	227	0.38%	5.28%	4.24%
46	59,108	-403	-0.68%	8.07%	6.93%
47	59,126	-385	-0.65%	10.72%	9.59%
48	59,003	-508	-0.85%	11.79%	10.38%
49	59,153	-358	-0.60%	8.42%	7.33%
50	59,523	12	0.02%	12.4%	11.3%
51	58,952	-559	-0.94%	23.68%	22.42%
52	59,811	300	0.50%	15.99%	13.94%
53	59,953	442	0.74%	14.53%	12.59%
54	60,083	572	0.96%	15.47%	13.25%
55	59,971	460	0.77%	55.38%	55.03%
56	58,929	-582	-0.98%	45.48%	46.85%
57	59,969	458	0.77%	18.06%	15.89%
58	59,057	-454	-0.76%	63.04%	63.71%
59	59,434	-77	-0.13%	70.09%	70.27%
60	59,709	198	0.33%	63.88%	62.26%
61	58,950	-561	-0.94%	53.49%	52.47%
62	59,450	-61	-0.10%	72.26%	70.86%
63	59,381	-130	-0.22%	69.33%	68.64%
64	59,648	137	0.23%	50.24%	48.4%
65	59,240	-271	-0.46%	63.34%	61.67%
66	58,961	-550	-0.92%	53.88%	53.46%
67	59,135	-376	-0.63%	58.92%	57.71%
68	59,477	-34	-0.06%	55.75%	55.2%
69	58,358	-1,153	-1.94%	62.73%	61.75%
70	59,121	-390	-0.66%	27.83%	27.99%
71	59,538	27	0.05%	19.92%	19.16%
72	59,660	149	0.25%	20.86%	19.64%
73	60,036	525	0.88%	12.11%	11.47%
74	58,418	-1,093	-1.84%	53.94%	52.32%
75	59,759	248	0.42%	66.89%	65.44%
76	59,759	248	0.42%	67.23%	64.99%
77	59,242	-269	-0.45%	76.13%	73.39%
78	59,890	379	0.64%	51.03%	51.33%
79	59,500	-11	-0.02%	71.59%	69.08%
80	59,461	-50	-0.08%	14.18%	12%
81	59,007	-504	-0.85%	21.83%	19.09%
82	59,724	213	0.36%	16.83%	14.66%
83	59,416	-95	-0.16%	15.12%	12.45%
84	59,862	351	0.59%	73.66%	70.46%

District	Population	Deviation	% Devn.	[% 18+_AP_BlK]	[% Black]
85	59,373	-138	-0.23%	62.71%	60.9%
86	59,205	-306	-0.51%	75.05%	72.44%
87	59,709	198	0.33%	73.08%	70.92%
88	59,689	178	0.30%	63.35%	61.41%
89	59,866	355	0.60%	62.54%	60.27%
90	59,812	301	0.51%	58.49%	57.69%
91	59,956	445	0.75%	60.01%	58.67%
92	60,273	762	1.28%	68.79%	68.31%
93	60,118	607	1.02%	65.36%	64.04%
94	59,211	-300	-0.50%	69.04%	66.81%
95	60,030	519	0.87%	67.15%	65.91%
96	59,515	4	0.01%	23%	21.31%
97	59,072	-439	-0.74%	26.77%	25.79%
98	59,998	487	0.82%	23.25%	20.23%
99	59,850	339	0.57%	14.71%	13.8%
100	60,030	519	0.87%	10.01%	9.19%
101	59,938	427	0.72%	24.19%	22.9%
102	58,959	-552	-0.93%	37.62%	37.16%
103	60,197	686	1.15%	16.79%	15.52%
104	59,362	-149	-0.25%	17.03%	15.96%
105	59,344	-167	-0.28%	29.05%	28.45%
106	59,112	-399	-0.67%	36.27%	36.27%
107	59,702	191	0.32%	29.63%	28.16%
108	59,577	66	0.11%	18.35%	17.71%
109	59,630	119	0.20%	32.51%	30.16%
110	59,951	440	0.74%	47.19%	46.58%
111	60,009	498	0.84%	22.29%	22.08%
112	59,349	-162	-0.27%	19.21%	19.06%
113	60,053	542	0.91%	59.53%	58.29%
114	59,867	356	0.60%	24.74%	24.16%
115	59,789	278	0.47%	53.77%	53.14%
116	60,380	869	1.46%	51.95%	52.02%
117	60,142	631	1.06%	51.56%	50.92%
118	59,987	476	0.80%	23.6%	22.72%
119	58,947	-564	-0.95%	13.49%	12.73%
120	58,982	-529	-0.89%	14.28%	13.65%
121	59,127	-384	-0.65%	9.56%	8.8%
122	59,632	121	0.20%	28.42%	30.85%
123	59,282	-229	-0.38%	24.28%	23.91%
124	59,221	-290	-0.49%	25.58%	26.18%
125	60,137	626	1.05%	23.68%	22.24%
126	59,260	-251	-0.42%	54.47%	54.3%
127	58,678	-833	-1.40%	18.52%	17.46%
128	58,864	-647	-1.09%	50.41%	51.11%
129	58,829	-682	-1.15%	54.87%	55.5%
130	59,203	-308	-0.52%	59.91%	60.84%

District	Population	Deviation	% Devn.	[% 18+_AP_Blak]	[% Black]
131	58,890	-621	-1.04%	17.62%	16.38%
132	59,142	-369	-0.62%	52.34%	52.48%
133	59,768	257	0.43%	26.11%	25.32%
134	59,046	-465	-0.78%	37.41%	38.2%
135	60,013	502	0.84%	20.35%	19.45%
136	59,298	-213	-0.36%	28.67%	28.15%
137	59,551	40	0.07%	52.13%	51.92%
138	58,912	-599	-1.01%	19.32%	18.92%
139	59,010	-501	-0.84%	20.27%	19.63%
140	59,294	-217	-0.36%	57.63%	56.56%
141	59,019	-492	-0.83%	57.46%	55.6%
142	59,320	-191	-0.32%	50.14%	51.89%
143	59,122	-389	-0.65%	50.64%	52.08%
144	58,533	-978	-1.64%	24.94%	24.36%
145	59,668	157	0.26%	50.38%	51.16%
146	59,197	-314	-0.53%	24.38%	23.72%
147	58,567	-944	-1.59%	30.54%	30.63%
148	59,887	376	0.63%	37.3%	37.6%
149	59,392	-119	-0.20%	51.53%	52.64%
150	59,276	-235	-0.39%	53.56%	53.5%
151	60,059	548	0.92%	42.41%	42.45%
152	60,134	623	1.05%	26.06%	25.98%
153	59,299	-212	-0.36%	67.95%	69.44%
154	59,994	483	0.81%	54.82%	55.77%
155	60,134	623	1.05%	35.23%	35.73%
156	60,647	1,136	1.91%	29.87%	29.57%
157	59,957	446	0.75%	24.67%	23.82%
158	59,440	-71	-0.12%	31.19%	31.67%
159	59,895	384	0.65%	24.5%	24.02%
160	59,935	424	0.71%	22.6%	22.04%
161	60,097	586	0.98%	27.14%	26.27%
162	60,308	797	1.34%	43.73%	43.95%
163	60,123	612	1.03%	45.49%	46.54%
164	60,101	590	0.99%	23.47%	22.55%
165	59,978	467	0.78%	50.33%	52.86%
166	60,242	731	1.23%	5.67%	5.04%
167	59,493	-18	-0.03%	22.28%	21.4%
168	60,147	636	1.07%	46.26%	44.49%
169	59,138	-373	-0.63%	29.04%	29.04%
170	60,116	605	1.02%	24.22%	24.56%
171	59,237	-274	-0.46%	39.6%	40%
172	59,961	450	0.76%	23.32%	23.41%
173	59,743	232	0.39%	36.27%	36.4%
174	59,852	341	0.57%	17.37%	17.42%
175	59,993	482	0.81%	24.17%	23.98%
176	59,470	-41	-0.07%	22.68%	21.96%

District	Population	Deviation	% Devn.	[% 18+_AP_Blk]	[% Black]
177	59,992	481	0.81%	53.88%	55.26%
178	59,877	366	0.62%	14.79%	14.59%
179	59,356	-155	-0.26%	27.03%	28.66%
180	59,412	-99	-0.17%	18.21%	17.31%

Total Population: 10,711,908

Ideal District Population: 59,511

Summary Statistics:

Population Range: 58,358 to 60,647

Ratio Range: 0.04

Absolute Range: -1,153 to 1,136

Absolute Overall Range: 2289

Relative Range: -1.94% to 1.91%

Relative Overall Range: 3.85%

Absolute Mean Deviation: 379.46

Relative Mean Deviation: 0.64%

Standard Deviation: 442.99

EXHIBIT 12

User:

Plan Name: Grant_Esselstyn_Hse_illus_12_05

Plan Type:

Political Subdivision Splits Between Districts

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Number of subdivisions not split:

County	89
Voting District	2,513

Number of subdivisions split into more than one district:

County	70
Voting District	185

Number of splits involving no population:

County	0
Voting District	13

Split Counts

County

Cases where an area is split among 2 Districts: 35
 Cases where an area is split among 3 Districts: 9
 Cases where an area is split among 4 Districts: 12
 Cases where an area is split among 5 Districts: 4
 Cases where an area is split among 6 Districts: 2
 Cases where an area is split among 7 Districts: 3
 Cases where an area is split among 9 Districts: 1
 Cases where an area is split among 14 Districts: 1
 Cases where an area is split among 17 Districts: 1
 Cases where an area is split among 21 Districts: 1
 Cases where an area is split among 23 Districts: 1

Voting District

Cases where an area is split among 2 Districts: 175
 Cases where an area is split among 3 Districts: 11

County	Voting District	District	Population
<i>Split Counties:</i>			
Appling GA		157	12,825
Appling GA		178	5,619
Baldwin GA		128	5,158
Baldwin GA		133	12,336
Baldwin GA		149	26,305
Barrow GA		104	24,245
Barrow GA		119	54,736
Barrow GA		120	4,524
Bartow GA		14	49,688
Bartow GA		15	59,213
Ben Hill GA		148	5,115
Ben Hill GA		156	12,079
Bibb GA		142	59,320
Bibb GA		143	59,122
Bibb GA		145	22,716

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Bibb GA	149	16,188
Bryan GA	160	11,008
Bryan GA	164	21,420
Bryan GA	166	12,310
Bulloch GA	158	19,285
Bulloch GA	159	12,887
Bulloch GA	160	48,927
Carroll GA	18	18,789
Carroll GA	70	2,854
Carroll GA	71	59,538
Carroll GA	72	37,967
Catoosa GA	2	7,673
Catoosa GA	3	60,199
Chatham GA	161	28,269
Chatham GA	162	60,308
Chatham GA	163	60,123
Chatham GA	164	38,681
Chatham GA	165	59,978
Chatham GA	166	47,932
Cherokee GA	11	6,557
Cherokee GA	14	9,447
Cherokee GA	20	60,107
Cherokee GA	21	59,529
Cherokee GA	22	30,874
Cherokee GA	23	59,048
Cherokee GA	44	21,989
Cherokee GA	46	15,178
Cherokee GA	47	3,891
Clarke GA	120	30,095
Clarke GA	121	26,478
Clarke GA	122	59,632
Clarke GA	124	12,466
Clayton GA	74	34,350
Clayton GA	75	55,912
Clayton GA	76	59,759
Clayton GA	77	59,242
Clayton GA	78	24,678
Clayton GA	79	59,500
Clayton GA	116	4,154
Cobb GA	22	28,586
Cobb GA	34	59,875
Cobb GA	35	59,889
Cobb GA	36	59,994
Cobb GA	37	59,176
Cobb GA	38	59,317
Cobb GA	39	59,381
Cobb GA	40	59,044
Cobb GA	41	60,122
Cobb GA	42	59,620
Cobb GA	43	59,464
Cobb GA	44	38,013

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Cobb GA	45	59,738
Cobb GA	46	43,930
Coffee GA	169	33,736
Coffee GA	176	9,356
Columbia GA	123	2,205
Columbia GA	125	55,389
Columbia GA	127	39,526
Columbia GA	131	58,890
Cook GA	170	7,342
Cook GA	172	9,887
Coweta GA	65	13,008
Coweta GA	67	17,272
Coweta GA	70	56,267
Coweta GA	73	31,608
Coweta GA	136	28,003
Dawson GA	7	2,409
Dawson GA	9	24,389
DeKalb GA	52	28,300
DeKalb GA	80	59,461
DeKalb GA	81	59,007
DeKalb GA	82	59,724
DeKalb GA	83	59,416
DeKalb GA	84	59,862
DeKalb GA	85	59,373
DeKalb GA	86	59,205
DeKalb GA	87	59,709
DeKalb GA	88	47,844
DeKalb GA	89	59,866
DeKalb GA	90	59,812
DeKalb GA	91	19,700
DeKalb GA	92	15,607
DeKalb GA	93	11,690
DeKalb GA	94	31,207
DeKalb GA	95	14,599
Dodge GA	148	18,550
Dodge GA	155	1,375
Dougherty GA	151	6,268
Dougherty GA	152	6,187
Dougherty GA	153	59,299
Dougherty GA	154	14,036
Douglas GA	61	48,764
Douglas GA	64	30,206
Douglas GA	65	6,306
Douglas GA	66	58,961
Effingham GA	159	32,941
Effingham GA	161	31,828
Fayette GA	68	29,719
Fayette GA	69	36,979
Fayette GA	73	28,428
Fayette GA	74	24,068
Floyd GA	5	5,099

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Floyd GA	12	34,335
Floyd GA	13	59,150
Forsyth GA	11	19,019
Forsyth GA	24	59,011
Forsyth GA	25	46,134
Forsyth GA	26	59,248
Forsyth GA	28	50,864
Forsyth GA	100	17,007
Fulton GA	25	13,280
Fulton GA	47	55,235
Fulton GA	48	43,976
Fulton GA	49	59,153
Fulton GA	50	59,523
Fulton GA	51	58,952
Fulton GA	52	31,511
Fulton GA	53	59,953
Fulton GA	54	60,083
Fulton GA	55	59,971
Fulton GA	56	58,929
Fulton GA	57	59,969
Fulton GA	58	59,057
Fulton GA	59	59,434
Fulton GA	60	59,709
Fulton GA	61	10,186
Fulton GA	62	59,450
Fulton GA	63	59,381
Fulton GA	64	6,032
Fulton GA	65	39,926
Fulton GA	67	41,863
Fulton GA	68	29,758
Fulton GA	69	21,379
Glynn GA	167	20,499
Glynn GA	179	59,356
Glynn GA	180	4,644
Gordon GA	5	53,738
Gordon GA	6	3,806
Grady GA	171	8,115
Grady GA	173	18,121
Gwinnett GA	30	8,620
Gwinnett GA	48	15,027
Gwinnett GA	88	11,845
Gwinnett GA	94	28,004
Gwinnett GA	95	34,221
Gwinnett GA	96	59,515
Gwinnett GA	97	59,072
Gwinnett GA	98	59,998
Gwinnett GA	99	59,850
Gwinnett GA	100	35,204
Gwinnett GA	101	59,938
Gwinnett GA	102	58,959
Gwinnett GA	103	51,691

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Gwinnett GA	104	35,117
Gwinnett GA	105	59,344
Gwinnett GA	106	59,112
Gwinnett GA	107	59,702
Gwinnett GA	108	59,577
Gwinnett GA	109	59,630
Gwinnett GA	110	59,951
Gwinnett GA	111	22,685
Habersham GA	10	42,636
Habersham GA	32	3,395
Hall GA	27	54,508
Hall GA	28	8,108
Hall GA	29	59,200
Hall GA	30	50,646
Hall GA	31	14,349
Hall GA	100	7,819
Hall GA	103	8,506
Harris GA	138	21,634
Harris GA	139	13,034
Henry GA	75	3,847
Henry GA	78	18,397
Henry GA	91	35,475
Henry GA	115	59,789
Henry GA	116	50,833
Henry GA	117	60,142
Henry GA	118	12,229
Houston GA	144	32,310
Houston GA	145	36,952
Houston GA	146	35,804
Houston GA	147	58,567
Jackson GA	31	45,552
Jackson GA	32	10,931
Jackson GA	119	4,211
Jackson GA	120	15,213
Jasper GA	114	2,855
Jasper GA	118	11,733
Lamar GA	134	13,948
Lamar GA	135	4,552
Liberty GA	167	5,109
Liberty GA	168	60,147
Lowndes GA	174	9,770
Lowndes GA	175	43,692
Lowndes GA	176	4,797
Lowndes GA	177	59,992
Lumpkin GA	9	29,201
Lumpkin GA	27	4,287
Madison GA	33	9,935
Madison GA	123	20,185
McDuffie GA	125	4,748
McDuffie GA	128	16,884
Meriwether GA	136	13,382

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Meriwether GA	137	7,231
Monroe GA	133	19,085
Monroe GA	135	8,872
Muscogee GA	137	30,443
Muscogee GA	138	12,190
Muscogee GA	139	45,976
Muscogee GA	140	59,294
Muscogee GA	141	59,019
Newton GA	93	15,515
Newton GA	113	60,053
Newton GA	114	36,915
Oconee GA	120	9,150
Oconee GA	121	32,649
Paulding GA	16	16,549
Paulding GA	17	59,120
Paulding GA	18	10,627
Paulding GA	19	58,955
Paulding GA	64	23,410
Peach GA	144	14,093
Peach GA	150	13,888
Putnam GA	118	10,591
Putnam GA	124	11,456
Richmond GA	126	25,990
Richmond GA	127	19,152
Richmond GA	129	58,829
Richmond GA	130	59,203
Richmond GA	132	43,433
Rockdale GA	91	4,781
Rockdale GA	92	44,666
Rockdale GA	93	32,913
Rockdale GA	95	11,210
Spalding GA	78	16,815
Spalding GA	116	5,393
Spalding GA	134	45,098
Sumter GA	150	14,282
Sumter GA	151	15,334
Tattnall GA	156	1,263
Tattnall GA	157	21,579
Telfair GA	148	8,283
Telfair GA	156	4,194
Thomas GA	172	4,176
Thomas GA	173	41,622
Tift GA	169	6,730
Tift GA	170	34,614
Troup GA	72	10,281
Troup GA	136	17,913
Troup GA	137	16,144
Troup GA	138	25,088
Walker GA	1	43,415
Walker GA	2	24,239
Walton GA	111	37,324

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Walton GA		112	59,349
Ware GA		174	9,097
Ware GA		176	27,154
Wayne GA		167	6,742
Wayne GA		178	23,402
White GA		8	22,119
White GA		9	5,884
Whitfield GA		2	27,861
Whitfield GA		4	59,070
Whitfield GA		6	15,933
Wilcox GA		146	955
Wilcox GA		148	7,811

Split VTDs:

Baldwin GA	NORTH BALDWIN	133	4,245
Baldwin GA	NORTH BALDWIN	149	647
Baldwin GA	NORTH MILLEDGEVILLE	133	864
Baldwin GA	NORTH MILLEDGEVILLE	149	2,500
Baldwin GA	SOUTH MILLEDGEVILLE	133	932
Baldwin GA	SOUTH MILLEDGEVILLE	149	2,774
Barrow GA	16	104	1,708
Barrow GA	16	119	8,060
Bartow GA	CASSVILLE	14	15,558
Bartow GA	CASSVILLE	15	1,047
Bartow GA	WHITE	14	3,335
Bartow GA	WHITE	15	211
Ben Hill GA	WEST	148	5,115
Ben Hill GA	WEST	156	5,229
Bibb GA	GODFREY 1	142	4,656
Bibb GA	GODFREY 1	149	6,278
Bibb GA	HOWARD 1	142	5,180
Bibb GA	HOWARD 1	143	763
Bibb GA	HOWARD 3	142	1,789
Bibb GA	HOWARD 3	143	10,865
Bibb GA	RUTLAND 1	142	1,475
Bibb GA	RUTLAND 1	145	6,465
Bibb GA	VINEVILLE 3	142	232
Bibb GA	VINEVILLE 3	143	4,182
Bryan GA	DANIELSIDING	164	1,268
Bryan GA	DANIELSIDING	166	1,741
Bryan GA	HWY 144 EAST	164	4,552
Bryan GA	HWY 144 EAST	166	4,707
Bryan GA	J.F.GREGORY PARK	164	3,489
Bryan GA	J.F.GREGORY PARK	166	144
Bulloch GA	CHURCH	158	3,764
Bulloch GA	CHURCH	159	5,869
Carroll GA	BONNER	71	410
Carroll GA	BONNER	72	5,554
Chatham GA	CRUSADER COMMUNITY CENTER	162	2,134
Chatham GA	CRUSADER COMMUNITY CENTER	166	1,493

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Chatham GA	GEORGETOWN ELEMENTAR	164	5,562
Chatham GA	GEORGETOWN ELEMENTAR	166	0
Chatham GA	GRACE UNITED METHODIST CHURCH	163	2,064
Chatham GA	GRACE UNITED METHODIST CHURCH	165	397
Chatham GA	ROTHWELL BAPTIST CHURCH	161	5,335
Chatham GA	ROTHWELL BAPTIST CHURCH	164	4,987
Chatham GA	THE LIGHT CHURCH	162	1,177
Chatham GA	THE LIGHT CHURCH	163	1,109
Chatham GA	WINDSOR FOREST BAPTIST CHURCH SCHOOL	163	785
Chatham GA	WINDSOR FOREST BAPTIST CHURCH SCHOOL	166	1,890
Cherokee GA	CARMEL	20	5,626
Cherokee GA	CARMEL	22	1,222
Cherokee GA	CARMEL	44	0
Cherokee GA	FREEHOME	21	3,200
Cherokee GA	FREEHOME	47	3,891
Cherokee GA	HOLLY SPRINGS	21	2,250
Cherokee GA	HOLLY SPRINGS	23	2,578
Clarke GA	1A	122	2,758
Clarke GA	1A	124	2,286
Clarke GA	4B	121	7,082
Clarke GA	4B	122	5,589
Clarke GA	7C	120	1,922
Clarke GA	7C	121	3,184
Clayton GA	JONESBORO 13	74	2,066
Clayton GA	JONESBORO 13	75	752
Clayton GA	JONESBORO 14	75	2,726
Clayton GA	JONESBORO 14	78	2,387
Clayton GA	JONESBORO 3	74	0
Clayton GA	JONESBORO 3	75	5,962
Clayton GA	LOVEJOY 1	74	4,484
Clayton GA	LOVEJOY 1	75	948
Clayton GA	LOVEJOY 1	78	187
Clayton GA	LOVEJOY 3	78	9,099
Clayton GA	LOVEJOY 3	116	4,154
Clayton GA	MORROW 4	75	1,316
Clayton GA	MORROW 4	76	1,911
Cobb GA	Acworth 1B	35	7,322
Cobb GA	Acworth 1B	36	142
Cobb GA	Baker 01	22	5,226
Cobb GA	Baker 01	35	1,996
Cobb GA	Bells Ferry 03	22	4,918
Cobb GA	Bells Ferry 03	44	3,763

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Cobb GA	Dobbins 01	42	11,055
Cobb GA	Dobbins 01	43	2,346
Cobb GA	Elizabeth 01	34	700
Cobb GA	Elizabeth 01	37	5,170
Cobb GA	Elizabeth 04	37	2,031
Cobb GA	Elizabeth 04	43	2,387
Cobb GA	Kennesaw 1A	22	599
Cobb GA	Kennesaw 1A	35	3,844
Cobb GA	Kennesaw 3A	22	0
Cobb GA	Kennesaw 3A	34	871
Cobb GA	Kennesaw 3A	35	8,631
Cobb GA	Lassiter 01	44	2,121
Cobb GA	Lassiter 01	46	2,600
Cobb GA	Lindley 01	39	5,678
Cobb GA	Lindley 01	40	582
Cobb GA	Mableton 01	38	1,589
Cobb GA	Mableton 01	39	5,513
Cobb GA	Mableton 02	38	256
Cobb GA	Mableton 02	39	5,427
Cobb GA	Marietta 1A	37	3,349
Cobb GA	Marietta 1A	43	6,645
Cobb GA	Marietta 2A	34	1,664
Cobb GA	Marietta 2A	37	811
Cobb GA	Marietta 5A	37	2,877
Cobb GA	Marietta 5A	43	1,457
Cobb GA	Marietta 6A	37	1,532
Cobb GA	Marietta 6A	43	3,022
Cobb GA	Marietta 7A	42	1,494
Cobb GA	Marietta 7A	43	5,417
Cobb GA	North Cobb 01	35	2,611
Cobb GA	North Cobb 01	36	559
Cobb GA	Norton Park 01	41	1,955
Cobb GA	Norton Park 01	42	5,846
Cobb GA	Oregon 03	37	6,683
Cobb GA	Oregon 03	41	6,305
Cobb GA	Pine Mountain 02	34	3,976
Cobb GA	Pine Mountain 02	35	0
Cobb GA	Smyrna 1A	40	1,292
Cobb GA	Smyrna 1A	42	5,341
Cobb GA	Smyrna 4A	40	6,599
Cobb GA	Smyrna 4A	42	1,609
Cobb GA	Smyrna 7A	39	905
Cobb GA	Smyrna 7A	40	7,690
Coffee GA	DOUGLAS	169	19,642
Coffee GA	DOUGLAS	176	8,929
Columbia GA	PATRIOTS PARK	125	326
Columbia GA	PATRIOTS PARK	131	5,958
Coweta GA	JEFFERSON PARKWAY	70	12,590
Coweta GA	JEFFERSON PARKWAY	73	1,521
DeKalb GA	Cedar Grove Middle	89	2,204
DeKalb GA	Cedar Grove Middle	90	316

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

DeKalb GA	Clarkston	85	5,454
DeKalb GA	Clarkston	86	9,300
DeKalb GA	Dresden Elem (CHA)	81	5,398
DeKalb GA	Dresden Elem (CHA)	83	7,691
DeKalb GA	Freedom Middle	86	1,002
DeKalb GA	Freedom Middle	87	3,088
DeKalb GA	Glennwood (DEC)	82	2,059
DeKalb GA	Glennwood (DEC)	84	1,221
DeKalb GA	Glenwood Road	85	1,698
DeKalb GA	Glenwood Road	86	1,064
DeKalb GA	Memorial South	86	2,226
DeKalb GA	Memorial South	87	2,547
DeKalb GA	Panola Road	86	3,296
DeKalb GA	Panola Road	94	460
DeKalb GA	Redan Middle	87	1,419
DeKalb GA	Redan Middle	88	1,633
DeKalb GA	Rockbridge Road	94	3,736
DeKalb GA	Rockbridge Road	95	1,104
DeKalb GA	Snapfinger Road South	84	920
DeKalb GA	Snapfinger Road South	91	1,271
DeKalb GA	Stone Mill Elem	87	1,863
DeKalb GA	Stone Mill Elem	88	4,069
DeKalb GA	Stone Mountain Champion (STO)	87	1,338
DeKalb GA	Stone Mountain Champion (STO)	88	2,865
DeKalb GA	Stone Mountain Middle (TUC)	87	656
DeKalb GA	Stone Mountain Middle (TUC)	88	3,960
DeKalb GA	Tucker Library (TUC)	81	2,394
DeKalb GA	Tucker Library (TUC)	88	1,635
Dougherty GA	DARTON COLLEGE	151	4,018
Dougherty GA	DARTON COLLEGE	153	2,465
Dougherty GA	MT ZION CENTER	153	1,245
Dougherty GA	MT ZION CENTER	154	3,972
Douglas GA	MIRROR LAKE ELEMENTA	61	5,093
Douglas GA	MIRROR LAKE ELEMENTA	66	3,661
Effingham GA	4B	159	1,960
Effingham GA	4B	161	959
Fayette GA	ABERDEEN	68	983
Fayette GA	ABERDEEN	73	1,392
Fayette GA	BANKS	69	1,812
Fayette GA	BANKS	74	247
Fayette GA	BRAELINN	73	605
Fayette GA	BRAELINN	74	1,646
Fayette GA	MURPHY	69	146
Fayette GA	MURPHY	74	3,848
Fayette GA	STARRSMILL	73	1,932
Fayette GA	STARRSMILL	74	2,452
Floyd GA	ALTO PARK	12	1,576

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Floyd GA	ALTO PARK	13	3,847
Floyd GA	MT ALTO NORTH	12	1,080
Floyd GA	MT ALTO NORTH	13	4,509
Forsyth GA	BROWNS BRIDGE	26	10,116
Forsyth GA	BROWNS BRIDGE	28	2,801
Forsyth GA	CONCORD	11	7,687
Forsyth GA	CONCORD	28	7,982
Forsyth GA	CUMMING	26	4,666
Forsyth GA	CUMMING	28	2,410
Forsyth GA	HEARDSVILLE	11	11,332
Forsyth GA	HEARDSVILLE	24	1,335
Forsyth GA	HEARDSVILLE	28	333
Forsyth GA	OTWELL	24	3,988
Forsyth GA	OTWELL	26	6,597
Forsyth GA	OTWELL	28	7,875
Forsyth GA	POLO	24	9,868
Forsyth GA	POLO	25	0
Forsyth GA	POLO	26	15,990
Forsyth GA	SOUTH FORSYTH	25	10,064
Forsyth GA	SOUTH FORSYTH	100	11,887
Forsyth GA	WINDERMERE	26	11,718
Forsyth GA	WINDERMERE	100	5,120
Fulton GA	08C	53	1,524
Fulton GA	08C	60	335
Fulton GA	09K	55	3,033
Fulton GA	09K	60	4,105
Fulton GA	10D	55	1,756
Fulton GA	10D	60	4,311
Fulton GA	11C	55	340
Fulton GA	11C	60	3,418
Fulton GA	AP022	48	862
Fulton GA	AP022	49	2,505
Fulton GA	AP07B	47	1,250
Fulton GA	AP07B	49	1,304
Fulton GA	AP14	48	4,109
Fulton GA	AP14	49	281
Fulton GA	EP01B	59	2,393
Fulton GA	EP01B	62	2,049
Fulton GA	JC19	48	3,608
Fulton GA	JC19	51	1,792
Fulton GA	ML012	47	501
Fulton GA	ML012	49	123
Fulton GA	ML01B	47	284
Fulton GA	ML01B	49	61
Fulton GA	RW03	51	1,292
Fulton GA	RW03	53	6,066
Fulton GA	RW09	47	2,971
Fulton GA	RW09	49	4,750
Fulton GA	SC02	60	220
Fulton GA	SC02	65	773
Fulton GA	SC07A	65	1,028

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Fulton GA	SC07A	67	7,728
Fulton GA	SC08B	62	92
Fulton GA	SC08B	68	5,255
Fulton GA	SC13	61	589
Fulton GA	SC13	65	2,269
Fulton GA	SC13	67	1,176
Fulton GA	UC02A	65	1,070
Fulton GA	UC02A	67	13,013
Gwinnett GA	BAYCREEK A	106	934
Gwinnett GA	BAYCREEK A	110	2,651
Gwinnett GA	BAYCREEK D	102	3,729
Gwinnett GA	BAYCREEK D	110	2,597
Gwinnett GA	BERKSHIRE H	98	2,475
Gwinnett GA	BERKSHIRE H	108	1,991
Gwinnett GA	CATES J	94	955
Gwinnett GA	CATES J	108	4,255
Gwinnett GA	DULUTH F	96	7,245
Gwinnett GA	DULUTH F	107	5,149
Gwinnett GA	DULUTH G	96	1,426
Gwinnett GA	DULUTH G	99	3,389
Gwinnett GA	DUNCANS D	30	8,620
Gwinnett GA	DUNCANS D	104	1,575
Gwinnett GA	LAWRENCEVILLE F	102	2,073
Gwinnett GA	LAWRENCEVILLE F	105	3,924
Gwinnett GA	LAWRENCEVILLE M	102	4,231
Gwinnett GA	LAWRENCEVILLE M	105	7,770
Gwinnett GA	MARTINS H	107	8,164
Gwinnett GA	MARTINS H	109	892
Gwinnett GA	PINCKNEYVILLE W	96	5,745
Gwinnett GA	PINCKNEYVILLE W	97	2,561
Gwinnett GA	PUCKETTS E	103	1,506
Gwinnett GA	PUCKETTS E	105	7,421
Gwinnett GA	SUGAR HILL D	100	2,158
Gwinnett GA	SUGAR HILL D	103	6,421
Gwinnett GA	SUWANEE F	99	3,224
Gwinnett GA	SUWANEE F	103	2,836
Habersham GA	HABERSHAM SOUTH	10	8,687
Habersham GA	HABERSHAM SOUTH	32	1,972
Hall GA	WILSON	28	3,803
Hall GA	WILSON	29	4,979
Henry GA	LAKE HAVEN	116	4,546
Henry GA	LAKE HAVEN	117	1,242
Henry GA	LOCUST GROVE	116	4,436
Henry GA	LOCUST GROVE	117	5,352
Henry GA	RED OAK	75	3,847
Henry GA	RED OAK	116	3,999
Henry GA	SWAN LAKE	91	1,951
Henry GA	SWAN LAKE	115	2,807
Houston GA	CENT	145	315
Houston GA	CENT	147	11,569
Houston GA	MCMS	144	11,859

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Houston GA	MCMS	147	1,635
Houston GA	ROZR	144	13,202
Houston GA	ROZR	146	7,640
Jackson GA	North Jackson	31	4,513
Jackson GA	North Jackson	32	10,931
Jackson GA	North Jackson	120	3,803
Jackson GA	West Jackson	31	16,656
Jackson GA	West Jackson	119	4,211
Liberty GA	BUTTON GWINNETT	167	5,109
Liberty GA	BUTTON GWINNETT	168	4,344
Lowndes GA	NORTHSIDE	175	8,373
Lowndes GA	NORTHSIDE	177	37,217
Lowndes GA	RAINWATER	175	6,400
Lowndes GA	RAINWATER	177	8,754
Lowndes GA	S LOWNDES	174	1,951
Lowndes GA	S LOWNDES	175	3,755
Lowndes GA	TRINITY	175	9,620
Lowndes GA	TRINITY	176	4,797
Lowndes GA	TRINITY	177	6,930
Lumpkin GA	DAHLONEGA	9	29,201
Lumpkin GA	DAHLONEGA	27	4,287
Muscogee GA	CUSSETA RD	140	5,391
Muscogee GA	CUSSETA RD	141	5,010
Muscogee GA	EPWORTH UMC	139	3,363
Muscogee GA	EPWORTH UMC	140	4,560
Muscogee GA	FORT/WADDELL	137	5,599
Muscogee GA	FORT/WADDELL	141	6,645
Muscogee GA	OUR LADY OF LOURDES	140	13,744
Muscogee GA	OUR LADY OF LOURDES	141	32
Muscogee GA	ROTHSCHILD	137	8,327
Muscogee GA	ROTHSCHILD	141	3,143
Muscogee GA	ST ANDREWS/MIDLAND	139	5,899
Muscogee GA	ST ANDREWS/MIDLAND	141	5,582
Newton GA	CEDAR SHOALS	93	1,206
Newton GA	CEDAR SHOALS	113	3,687
Newton GA	FAIRVIEW	93	856
Newton GA	FAIRVIEW	113	3,443
Newton GA	TOWN	93	1,668
Newton GA	TOWN	113	5,075
Paulding GA	AUSTIN MIDDLE SCHOOL	18	916
Paulding GA	AUSTIN MIDDLE SCHOOL	64	9,977
Paulding GA	BURNT HICKORY PARK	16	8,392
Paulding GA	BURNT HICKORY PARK	17	16
Paulding GA	CARL SCOGGINS MID SC	17	517
Paulding GA	CARL SCOGGINS MID SC	18	7,991
Paulding GA	CARL SCOGGINS MID SC	19	1,240
Paulding GA	HIRAM HIGH SCHOOL	17	0
Paulding GA	HIRAM HIGH SCHOOL	19	16,110
Paulding GA	SARA RAGSDALE ELM SC	17	5,972
Paulding GA	SARA RAGSDALE ELM SC	18	1,720

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Paulding GA	SHELTON ELEMENTARY SCHOOL	16	8,152
Paulding GA	SHELTON ELEMENTARY SCHOOL	17	12,810
Paulding GA	SHELTON ELEMENTARY SCHOOL	19	5,455
Paulding GA	WATSON GOVERNMENT COMPLEX	16	5
Paulding GA	WATSON GOVERNMENT COMPLEX	17	17,525
Richmond GA	109	129	954
Richmond GA	109	130	886
Richmond GA	301	127	2,362
Richmond GA	301	129	894
Richmond GA	402	126	0
Richmond GA	402	132	9,711
Richmond GA	503	129	3,260
Richmond GA	503	132	2,535
Richmond GA	702	127	586
Richmond GA	702	129	2,007
Richmond GA	703	127	1,164
Richmond GA	703	129	6,148
Richmond GA	803	126	0
Richmond GA	803	132	2,432
Richmond GA	807	126	2,403
Richmond GA	807	132	0
Rockdale GA	MILSTEAD	93	6,444
Rockdale GA	MILSTEAD	95	0
Rockdale GA	OLD TOWNE	93	10,095
Rockdale GA	OLD TOWNE	95	872
Rockdale GA	ROCKDALE	92	6,218
Rockdale GA	ROCKDALE	93	79
Spalding GA	CARVER FIRE STATION	78	235
Spalding GA	CARVER FIRE STATION	134	2,835
Spalding GA	GARY REID FIRE STATION	78	2,075
Spalding GA	GARY REID FIRE STATION	134	4,817
Spalding GA	UGA CAMPUS	78	787
Spalding GA	UGA CAMPUS	134	5,290
Sumter GA	GSW CONF CENTER	150	4,568
Sumter GA	GSW CONF CENTER	151	1,549
Sumter GA	REES PARK	150	5,179
Sumter GA	REES PARK	151	447
Troup GA	MOUNTVILLE	136	2,068
Troup GA	MOUNTVILLE	137	497
Walton GA	BROKEN ARROW	111	2,993
Walton GA	BROKEN ARROW	112	3,003
Ware GA	100	174	2,672
Ware GA	100	176	3,692
Ware GA	200A	174	0
Ware GA	200A	176	4,133
Ware GA	304	174	0
Ware GA	304	176	2,107

Political Subdivision Splits Between Districts

Grant_Esselstyn_Hse_illus_12_05

Ware GA	400	174	2,506
Ware GA	400	176	2,526
Wayne GA	OGLETHORPE	167	1,928
Wayne GA	OGLETHORPE	178	637
Whitfield GA	2A	2	3,864
Whitfield GA	2A	4	1,000
Whitfield GA	PLEASANT GROVE	2	6,210
Whitfield GA	PLEASANT GROVE	6	2,122

EXHIBIT 13

User:

Plan Name: Grant_Esselstyn_Hse_illus_12_05

Plan Type:

Plan Components with Population Detail

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
District 1		
County: Dade GA		
Total:	16,251	228 1.40%
Voting Age	12,987	140 1.08%
County: Walker GA		
Total:	43,415	2,806 6.46%
Voting Age	33,814	1,826 5.40%
District 1 Total		
Total:	59,666	3,034 5.08%
Voting Age	46,801	1,966 4.20%
District 2		
County: Catoosa GA		
Total:	7,673	179 2.33%
Voting Age	5,732	119 2.08%
County: Walker GA		
Total:	24,239	858 3.54%
Voting Age	18,980	628 3.31%
County: Whitfield GA		
Total:	27,861	1,136 4.08%
Voting Age	21,447	709 3.31%
District 2 Total		
Total:	59,773	2,173 3.64%
Voting Age	46,159	1,456 3.15%
District 3		
County: Catoosa GA		
Total:	60,199	2,463 4.09%
Voting Age	46,716	1,565 3.35%
District 3 Total		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Total:	60,199	2,463 4.09%
Voting Age	46,716	1,565 3.35%
District 4		
County: Whitfield GA		
Total:	59,070	3,264 5.53%
Voting Age	42,798	2,303 5.38%
District 4 Total		
Total:	59,070	3,264 5.53%
Voting Age	42,798	2,303 5.38%
District 5		
County: Floyd GA		
Total:	5,099	213 4.18%
Voting Age	4,048	136 3.36%
County: Gordon GA		
Total:	53,738	2,869 5.34%
Voting Age	40,575	1,915 4.72%
District 5 Total		
Total:	58,837	3,082 5.24%
Voting Age	44,623	2,051 4.60%
District 6		
County: Gordon GA		
Total:	3,806	50 1.31%
Voting Age	2,925	24 0.82%
County: Murray GA		
Total:	39,973	556 1.39%
Voting Age	30,210	321 1.06%
County: Whitfield GA		
Total:	15,933	519 3.26%
Voting Age	12,017	337 2.80%
District 6 Total		
Total:	59,712	1,125 1.88%
Voting Age	45,152	682

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
		1.51%
District 7		
County: Dawson GA		
Total:	2,409	18
		0.75%
Voting Age	2,166	8
		0.37%
County: Fannin GA		
Total:	25,319	199
		0.79%
Voting Age	21,188	133
		0.63%
County: Gilmer GA		
Total:	31,353	296
		0.94%
Voting Age	25,417	161
		0.63%
District 7 Total		
Total:	59,081	513
		0.87%
Voting Age	48,771	302
		0.62%
District 8		
County: Towns GA		
Total:	12,493	168
		1.34%
Voting Age	10,923	137
		1.25%
County: Union GA		
Total:	24,632	228
		0.93%
Voting Age	20,808	147
		0.71%
County: White GA		
Total:	22,119	629
		2.84%
Voting Age	17,881	424
		2.37%
District 8 Total		
Total:	59,244	1,025
		1.73%
Voting Age	49,612	708
		1.43%
District 9		
County: Dawson GA		
Total:	24,389	374
		1.53%
Voting Age	19,275	241
		1.25%
County: Lumpkin GA		
Total:	29,201	600

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	24,397	2.05% 458 1.88%
County: White GA		
Total:	5,884	92 1.56%
Voting Age	4,601	60 1.30%
District 9 Total		
Total:	59,474	1,066 1.79%
Voting Age	48,273	759 1.57%
District 10		
County: Habersham GA		
Total:	42,636	2,077 4.87%
Voting Age	33,397	1,628 4.87%
County: Rabun GA		
Total:	16,883	210 1.24%
Voting Age	13,767	129 0.94%
District 10 Total		
Total:	59,519	2,287 3.84%
Voting Age	47,164	1,757 3.73%
District 11		
County: Cherokee GA		
Total:	6,557	118 1.80%
Voting Age	5,004	66 1.32%
County: Forsyth GA		
Total:	19,019	750 3.94%
Voting Age	13,593	454 3.34%
County: Pickens GA		
Total:	33,216	512 1.54%
Voting Age	26,799	319 1.19%
District 11 Total		
Total:	58,792	1,380 2.35%
Voting Age	45,396	839 1.85%
District 12		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
County: Chattooga GA		
Total:	24,965	2,865 11.48%
Voting Age	19,416	2,235 11.51%
County: Floyd GA		
Total:	34,335	3,181 9.26%
Voting Age	27,071	2,263 8.36%
District 12 Total		
Total:	59,300	6,046 10.20%
Voting Age	46,487	4,498 9.68%
District 13		
County: Floyd GA		
Total:	59,150	12,212 20.65%
Voting Age	45,176	8,665 19.18%
District 13 Total		
Total:	59,150	12,212 20.65%
Voting Age	45,176	8,665 19.18%
District 14		
County: Bartow GA		
Total:	49,688	4,043 8.14%
Voting Age	37,779	2,877 7.62%
County: Cherokee GA		
Total:	9,447	295 3.12%
Voting Age	7,732	240 3.10%
District 14 Total		
Total:	59,135	4,338 7.34%
Voting Age	45,511	3,117 6.85%
District 15		
County: Bartow GA		
Total:	59,213	9,352 15.79%
Voting Age	45,791	6,500 14.19%
District 15 Total		
Total:	59,213	9,352 15.79%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl %
Voting Age	45,791	6,500 14.19%
District 16		
County: Paulding GA		
Total:	16,549	1,765 10.67%
Voting Age	11,771	1,155 9.81%
County: Polk GA		
Total:	42,853	5,816 13.57%
Voting Age	32,238	3,991 12.38%
District 16 Total		
Total:	59,402	7,581 12.76%
Voting Age	44,009	5,146 11.69%
District 17		
County: Paulding GA		
Total:	59,120	14,783 25.01%
Voting Age	42,761	9,843 23.02%
District 17 Total		
Total:	59,120	14,783 25.01%
Voting Age	42,761	9,843 23.02%
District 18		
County: Carroll GA		
Total:	18,789	2,344 12.48%
Voting Age	14,467	1,660 11.47%
County: Haralson GA		
Total:	29,919	1,541 5.15%
Voting Age	22,854	1,106 4.84%
County: Paulding GA		
Total:	10,627	1,233 11.60%
Voting Age	7,838	838 10.69%
District 18 Total		
Total:	59,335	5,118 8.63%
Voting Age	45,159	3,604 7.98%
District 19		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
County: Paulding GA		
Total:	58,955	15,550 26.38%
Voting Age	44,299	10,697 24.15%
District 19 Total		
Total:	58,955	15,550 26.38%
Voting Age	44,299	10,697 24.15%
District 20		
County: Cherokee GA		
Total:	60,107	5,973 9.94%
Voting Age	45,725	4,230 9.25%
District 20 Total		
Total:	60,107	5,973 9.94%
Voting Age	45,725	4,230 9.25%
District 21		
County: Cherokee GA		
Total:	59,529	3,350 5.63%
Voting Age	44,931	2,272 5.06%
District 21 Total		
Total:	59,529	3,350 5.63%
Voting Age	44,931	2,272 5.06%
District 22		
County: Cherokee GA		
Total:	30,874	3,488 11.30%
Voting Age	23,465	2,341 9.98%
County: Cobb GA		
Total:	28,586	6,402 22.40%
Voting Age	22,350	4,577 20.48%
District 22 Total		
Total:	59,460	9,890 16.63%
Voting Age	45,815	6,918 15.10%
District 23		
County: Cherokee GA		
Total:	59,048	4,250

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	44,254	7.20% 2,878 6.50%
District 23 Total		
Total:	59,048	4,250 7.20%
Voting Age	44,254	2,878 6.50%
District 24		
County: Forsyth GA		
Total:	59,011	4,313 7.31%
Voting Age	41,814	2,926 7.00%
District 24 Total		
Total:	59,011	4,313 7.31%
Voting Age	41,814	2,926 7.00%
District 25		
County: Forsyth GA		
Total:	46,134	2,200 4.77%
Voting Age	32,692	1,482 4.53%
County: Fulton GA		
Total:	13,280	1,406 10.59%
Voting Age	9,828	1,025 10.43%
District 25 Total		
Total:	59,414	3,606 6.07%
Voting Age	42,520	2,507 5.90%
District 26		
County: Forsyth GA		
Total:	59,248	2,646 4.47%
Voting Age	44,081	1,767 4.01%
District 26 Total		
Total:	59,248	2,646 4.47%
Voting Age	44,081	1,767 4.01%
District 27		
County: Hall GA		
Total:	54,508	2,504 4.59%
Voting Age	42,712	1,649

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
		3.86%
County: Lumpkin GA		
Total:	4,287	85 1.98%
Voting Age	3,292	49 1.49%
District 27 Total		
Total:	58,795	2,589 4.40%
Voting Age	46,004	1,698 3.69%
District 28		
County: Forsyth GA		
Total:	50,864	2,427 4.77%
Voting Age	37,645	1,554 4.13%
County: Hall GA		
Total:	8,108	259 3.19%
Voting Age	6,799	193 2.84%
District 28 Total		
Total:	58,972	2,686 4.55%
Voting Age	44,444	1,747 3.93%
District 29		
County: Hall GA		
Total:	59,200	8,132 13.74%
Voting Age	43,131	5,861 13.59%
District 29 Total		
Total:	59,200	8,132 13.74%
Voting Age	43,131	5,861 13.59%
District 30		
County: Gwinnett GA		
Total:	8,620	1,529 17.74%
Voting Age	6,301	998 15.84%
County: Hall GA		
Total:	50,646	3,657 7.22%
Voting Age	39,113	2,680 6.85%
District 30 Total		
Total:	59,266	5,186

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	45,414	8.75% 3,678 8.10%
District 31		
County: Hall GA		
Total:	14,349	1,404 9.78%
Voting Age	9,789	1,014 10.36%
County: Jackson GA		
Total:	45,552	3,366 7.39%
Voting Age	33,331	2,251 6.75%
District 31 Total		
Total:	59,901	4,770 7.96%
Voting Age	43,120	3,265 7.57%
District 32		
County: Banks GA		
Total:	18,035	589 3.27%
Voting Age	13,900	365 2.63%
County: Habersham GA		
Total:	3,395	88 2.59%
Voting Age	2,481	47 1.89%
County: Jackson GA		
Total:	10,931	1,048 9.59%
Voting Age	8,398	780 9.29%
County: Stephens GA		
Total:	26,784	3,527 13.17%
Voting Age	21,163	2,467 11.66%
District 32 Total		
Total:	59,145	5,252 8.88%
Voting Age	45,942	3,659 7.96%
District 33		
County: Franklin GA		
Total:	23,424	2,207 9.42%
Voting Age	18,307	1,523 8.32%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
County: Hart GA		
Total:	25,828	4,732 18.32%
Voting Age	20,436	3,447 16.87%
County: Madison GA		
Total:	9,935	383 3.86%
Voting Age	7,755	237 3.06%
District 33 Total		
Total:	59,187	7,322 12.37%
Voting Age	46,498	5,207 11.20%
District 34		
County: Cobb GA		
Total:	59,875	10,102 16.87%
Voting Age	45,758	7,169 15.67%
District 34 Total		
Total:	59,875	10,102 16.87%
Voting Age	45,758	7,169 15.67%
District 35		
County: Cobb GA		
Total:	59,889	18,210 30.41%
Voting Age	48,312	13,722 28.40%
District 35 Total		
Total:	59,889	18,210 30.41%
Voting Age	48,312	13,722 28.40%
District 36		
County: Cobb GA		
Total:	59,994	11,055 18.43%
Voting Age	44,911	7,626 16.98%
District 36 Total		
Total:	59,994	11,055 18.43%
Voting Age	44,911	7,626 16.98%
District 37		
County: Cobb GA		
Total:	59,176	17,171

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	46,223	29.02% 13,027 28.18%
District 37 Total		
Total:	59,176	17,171 29.02%
Voting Age	46,223	13,027 28.18%
District 38		
County: Cobb GA		
Total:	59,317	33,760 56.91%
Voting Age	44,839	24,318 54.23%
District 38 Total		
Total:	59,317	33,760 56.91%
Voting Age	44,839	24,318 54.23%
District 39		
County: Cobb GA		
Total:	59,381	33,016 55.60%
Voting Age	44,436	24,569 55.29%
District 39 Total		
Total:	59,381	33,016 55.60%
Voting Age	44,436	24,569 55.29%
District 40		
County: Cobb GA		
Total:	59,044	20,179 34.18%
Voting Age	47,976	15,821 32.98%
District 40 Total		
Total:	59,044	20,179 34.18%
Voting Age	47,976	15,821 32.98%
District 41		
County: Cobb GA		
Total:	60,122	23,846 39.66%
Voting Age	45,271	17,816 39.35%
District 41 Total		
Total:	60,122	23,846 39.66%
Voting Age	45,271	17,816

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
		39.35%
District 42		
County: Cobb GA		
Total:	59,620	20,726 34.76%
Voting Age	48,525	16,353 33.70%
District 42 Total		
Total:	59,620	20,726 34.76%
Voting Age	48,525	16,353 33.70%
District 43		
County: Cobb GA		
Total:	59,464	16,346 27.49%
Voting Age	47,033	12,476 26.53%
District 43 Total		
Total:	59,464	16,346 27.49%
Voting Age	47,033	12,476 26.53%
District 44		
County: Cherokee GA		
Total:	21,989	2,616 11.90%
Voting Age	17,142	1,838 10.72%
County: Cobb GA		
Total:	38,013	5,374 14.14%
Voting Age	29,631	3,797 12.81%
District 44 Total		
Total:	60,002	7,990 13.32%
Voting Age	46,773	5,635 12.05%
District 45		
County: Cobb GA		
Total:	59,738	3,303 5.53%
Voting Age	44,023	2,324 5.28%
District 45 Total		
Total:	59,738	3,303 5.53%
Voting Age	44,023	2,324 5.28%
District 46		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
County: Cherokee GA		
Total:	15,178	1,451 9.56%
Voting Age	11,572	1,014 8.76%
County: Cobb GA		
Total:	43,930	3,626 8.25%
Voting Age	32,560	2,546 7.82%
District 46 Total		
Total:	59,108	5,077 8.59%
Voting Age	44,132	3,560 8.07%
District 47		
County: Cherokee GA		
Total:	3,891	146 3.75%
Voting Age	3,103	97 3.13%
County: Fulton GA		
Total:	55,235	6,444 11.67%
Voting Age	40,829	4,612 11.30%
District 47 Total		
Total:	59,126	6,590 11.15%
Voting Age	43,932	4,709 10.72%
District 48		
County: Fulton GA		
Total:	43,976	5,589 12.71%
Voting Age	33,385	4,110 12.31%
County: Gwinnett GA		
Total:	15,027	1,627 10.83%
Voting Age	11,394	1,169 10.26%
District 48 Total		
Total:	59,003	7,216 12.23%
Voting Age	44,779	5,279 11.79%
District 49		
County: Fulton GA		
Total:	59,153	5,234 8.85%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	45,263	3,813 8.42%
District 49 Total		
Total:	59,153	5,234 8.85%
Voting Age	45,263	3,813 8.42%
District 50		
County: Fulton GA		
Total:	59,523	7,763 13.04%
Voting Age	43,940	5,450 12.40%
District 50 Total		
Total:	59,523	7,763 13.04%
Voting Age	43,940	5,450 12.40%
District 51		
County: Fulton GA		
Total:	58,952	14,766 25.05%
Voting Age	47,262	11,193 23.68%
District 51 Total		
Total:	58,952	14,766 25.05%
Voting Age	47,262	11,193 23.68%
District 52		
County: DeKalb GA		
Total:	28,300	3,815 13.48%
Voting Age	21,991	3,074 13.98%
County: Fulton GA		
Total:	31,511	5,646 17.92%
Voting Age	26,534	4,684 17.65%
District 52 Total		
Total:	59,811	9,461 15.82%
Voting Age	48,525	7,758 15.99%
District 53		
County: Fulton GA		
Total:	59,953	8,685 14.49%
Voting Age	46,944	6,819 14.53%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
District 53 Total		
Total:	59,953	8,685 14.49%
Voting Age	46,944	6,819 14.53%
District 54		
County: Fulton GA		
Total:	60,083	9,048 15.06%
Voting Age	50,338	7,789 15.47%
District 54 Total		
Total:	60,083	9,048 15.06%
Voting Age	50,338	7,789 15.47%
District 55		
County: Fulton GA		
Total:	59,971	34,374 57.32%
Voting Age	49,255	27,279 55.38%
District 55 Total		
Total:	59,971	34,374 57.32%
Voting Age	49,255	27,279 55.38%
District 56		
County: Fulton GA		
Total:	58,929	29,016 49.24%
Voting Age	52,757	23,993 45.48%
District 56 Total		
Total:	58,929	29,016 49.24%
Voting Age	52,757	23,993 45.48%
District 57		
County: Fulton GA		
Total:	59,969	10,691 17.83%
Voting Age	52,097	9,411 18.06%
District 57 Total		
Total:	59,969	10,691 17.83%
Voting Age	52,097	9,411 18.06%
District 58		
County: Fulton GA		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Total:	59,057	39,036
Voting Age	50,514	66.10% 31,845 63.04%
District 58 Total		
Total:	59,057	39,036
Voting Age	50,514	66.10% 31,845 63.04%
District 59		
County: Fulton GA		
Total:	59,434	43,468
Voting Age	49,179	73.14% 34,470 70.09%
District 59 Total		
Total:	59,434	43,468
Voting Age	49,179	73.14% 34,470 70.09%
District 60		
County: Fulton GA		
Total:	59,709	38,562
Voting Age	45,490	64.58% 29,061 63.88%
District 60 Total		
Total:	59,709	38,562
Voting Age	45,490	64.58% 29,061 63.88%
District 61		
County: Douglas GA		
Total:	48,764	23,030
Voting Age	36,596	47.23% 16,441 44.93%
County: Fulton GA		
Total:	10,186	9,691
Voting Age	7,616	95.14% 7,210 94.67%
District 61 Total		
Total:	58,950	32,721
Voting Age	44,212	55.51% 23,651 53.49%
District 62		
County: Fulton GA		
Total:	59,450	43,732
		73.56%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	46,426	33,548 72.26%
District 62 Total		
Total:	59,450	43,732 73.56%
Voting Age	46,426	33,548 72.26%
District 63		
County: Fulton GA		
Total:	59,381	42,146 70.98%
Voting Age	45,043	31,229 69.33%
District 63 Total		
Total:	59,381	42,146 70.98%
Voting Age	45,043	31,229 69.33%
District 64		
County: Douglas GA		
Total:	30,206	16,654 55.13%
Voting Age	23,160	12,498 53.96%
County: Fulton GA		
Total:	6,032	5,832 96.68%
Voting Age	4,790	4,619 96.43%
County: Paulding GA		
Total:	23,410	7,965 34.02%
Voting Age	17,329	5,631 32.49%
District 64 Total		
Total:	59,648	30,451 51.05%
Voting Age	45,279	22,748 50.24%
District 65		
County: Coweta GA		
Total:	13,008	1,621 12.46%
Voting Age	9,714	1,190 12.25%
County: Douglas GA		
Total:	6,306	1,076 17.06%
Voting Age	4,765	781 16.39%
County: Fulton GA		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Total:	39,926	35,278
Voting Age	30,423	88.36% 26,470 87.01%
District 65 Total		
Total:	59,240	37,975
Voting Age	44,902	64.10% 28,441 63.34%
District 66		
County: Douglas GA		
Total:	58,961	33,500
Voting Age	43,907	56.82% 23,657 53.88%
District 66 Total		
Total:	58,961	33,500
Voting Age	43,907	56.82% 23,657 53.88%
District 67		
County: Coweta GA		
Total:	17,272	1,374
Voting Age	13,061	7.96% 996 7.63%
County: Fulton GA		
Total:	41,863	34,064
Voting Age	31,238	81.37% 25,103 80.36%
District 67 Total		
Total:	59,135	35,438
Voting Age	44,299	59.93% 26,099 58.92%
District 68		
County: Fayette GA		
Total:	29,719	7,094
Voting Age	22,798	23.87% 5,151 22.59%
County: Fulton GA		
Total:	29,758	27,095
Voting Age	22,037	91.05% 19,843 90.04%
District 68 Total		
Total:	59,477	34,189
Voting Age	44,835	57.48% 24,994

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
		55.75%
District 69		
County: Fayette GA		
Total:	36,979	17,619 47.65%
Voting Age	29,316	13,365 45.59%
County: Fulton GA		
Total:	21,379	20,058 93.82%
Voting Age	15,994	15,059 94.15%
District 69 Total		
Total:	58,358	37,677 64.56%
Voting Age	45,310	28,424 62.73%
District 70		
County: Carroll GA		
Total:	2,854	148 5.19%
Voting Age	2,259	106 4.69%
County: Coweta GA		
Total:	56,267	17,602 31.28%
Voting Age	42,990	12,485 29.04%
District 70 Total		
Total:	59,121	17,750 30.02%
Voting Age	45,249	12,591 27.83%
District 71		
County: Carroll GA		
Total:	59,538	12,792 21.49%
Voting Age	44,582	8,879 19.92%
District 71 Total		
Total:	59,538	12,792 21.49%
Voting Age	44,582	8,879 19.92%
District 72		
County: Carroll GA		
Total:	37,967	9,334 24.58%
Voting Age	29,688	7,182 24.19%
County: Heard GA		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Total:	11,412	1,142 10.01%
Voting Age	8,698	832 9.57%
County: Troup GA		
Total:	10,281	2,312 22.49%
Voting Age	7,843	1,628 20.76%
District 72 Total		
Total:	59,660	12,788 21.43%
Voting Age	46,229	9,642 20.86%
District 73		
County: Coweta GA		
Total:	31,608	4,579 14.49%
Voting Age	24,269	3,242 13.36%
County: Fayette GA		
Total:	28,428	3,286 11.56%
Voting Age	21,467	2,296 10.70%
District 73 Total		
Total:	60,036	7,865 13.10%
Voting Age	45,736	5,538 12.11%
District 74		
County: Clayton GA		
Total:	34,350	28,002 81.52%
Voting Age	25,385	20,605 81.17%
County: Fayette GA		
Total:	24,068	4,077 16.94%
Voting Age	18,217	2,916 16.01%
District 74 Total		
Total:	58,418	32,079 54.91%
Voting Age	43,602	23,521 53.94%
District 75		
County: Clayton GA		
Total:	55,912	38,202 68.33%
Voting Age	42,018	28,038

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
		66.73%
County: Henry GA		
Total:	3,847	2,694 70.03%
Voting Age	2,965	2,052 69.21%
District 75 Total		
Total:	59,759	40,896 68.43%
Voting Age	44,983	30,090 66.89%
District 76		
County: Clayton GA		
Total:	59,759	40,461 67.71%
Voting Age	44,371	29,832 67.23%
District 76 Total		
Total:	59,759	40,461 67.71%
Voting Age	44,371	29,832 67.23%
District 77		
County: Clayton GA		
Total:	59,242	44,963 75.90%
Voting Age	44,207	33,655 76.13%
District 77 Total		
Total:	59,242	44,963 75.90%
Voting Age	44,207	33,655 76.13%
District 78		
County: Clayton GA		
Total:	24,678	19,469 78.89%
Voting Age	18,054	13,832 76.61%
County: Henry GA		
Total:	18,397	9,234 50.19%
Voting Age	13,441	6,374 47.42%
County: Spalding GA		
Total:	16,815	3,645 21.68%
Voting Age	13,276	2,642 19.90%
District 78 Total		
Total:	59,890	32,348

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	44,771	54.01% 22,848 51.03%
District 79		
County: Clayton GA		
Total:	59,500	42,713 71.79%
Voting Age	43,223	30,942 71.59%
District 79 Total		
Total:	59,500	42,713 71.79%
Voting Age	43,223	30,942 71.59%
District 80		
County: DeKalb GA		
Total:	59,461	8,128 13.67%
Voting Age	44,784	6,350 14.18%
District 80 Total		
Total:	59,461	8,128 13.67%
Voting Age	44,784	6,350 14.18%
District 81		
County: DeKalb GA		
Total:	59,007	12,487 21.16%
Voting Age	46,259	10,099 21.83%
District 81 Total		
Total:	59,007	12,487 21.16%
Voting Age	46,259	10,099 21.83%
District 82		
County: DeKalb GA		
Total:	59,724	9,763 16.35%
Voting Age	50,238	8,455 16.83%
District 82 Total		
Total:	59,724	9,763 16.35%
Voting Age	50,238	8,455 16.83%
District 83		
County: DeKalb GA		
Total:	59,416	8,327 14.01%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Voting Age	46,581	7,044 15.12%
District 83 Total		
Total:	59,416	8,327 14.01%
Voting Age	46,581	7,044 15.12%
District 84		
County: DeKalb GA		
Total:	59,862	43,909 73.35%
Voting Age	47,350	34,877 73.66%
District 84 Total		
Total:	59,862	43,909 73.35%
Voting Age	47,350	34,877 73.66%
District 85		
County: DeKalb GA		
Total:	59,373	37,650 63.41%
Voting Age	46,308	29,041 62.71%
District 85 Total		
Total:	59,373	37,650 63.41%
Voting Age	46,308	29,041 62.71%
District 86		
County: DeKalb GA		
Total:	59,205	44,458 75.09%
Voting Age	44,614	33,485 75.05%
District 86 Total		
Total:	59,205	44,458 75.09%
Voting Age	44,614	33,485 75.05%
District 87		
County: DeKalb GA		
Total:	59,709	44,195 74.02%
Voting Age	45,615	33,336 73.08%
District 87 Total		
Total:	59,709	44,195 74.02%
Voting Age	45,615	33,336 73.08%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
District 88		
County: DeKalb GA		
Total:	47,844	34,877 72.90%
Voting Age	37,310	26,554 71.17%
County: Gwinnett GA		
Total:	11,845	3,638 30.71%
Voting Age	8,763	2,633 30.05%
District 88 Total		
Total:	59,689	38,515 64.53%
Voting Age	46,073	29,187 63.35%
District 89		
County: DeKalb GA		
Total:	59,866	37,494 62.63%
Voting Age	46,198	28,890 62.54%
District 89 Total		
Total:	59,866	37,494 62.63%
Voting Age	46,198	28,890 62.54%
District 90		
County: DeKalb GA		
Total:	59,812	35,965 60.13%
Voting Age	48,015	28,082 58.49%
District 90 Total		
Total:	59,812	35,965 60.13%
Voting Age	48,015	28,082 58.49%
District 91		
County: DeKalb GA		
Total:	19,700	18,867 95.77%
Voting Age	14,941	14,323 95.86%
County: Henry GA		
Total:	35,475	15,389 43.38%
Voting Age	27,241	11,402 41.86%
County: Rockdale GA		
Total:	4,781	2,458

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Voting Age	3,817	51.41% 1,879 49.23%
District 91 Total		
Total:	59,956	36,714 61.23%
Voting Age	45,999	27,604 60.01%
District 92		
County: DeKalb GA		
Total:	15,607	14,612 93.62%
Voting Age	11,794	10,979 93.09%
County: Rockdale GA		
Total:	44,666	28,366 63.51%
Voting Age	34,757	21,043 60.54%
District 92 Total		
Total:	60,273	42,978 71.31%
Voting Age	46,551	32,022 68.79%
District 93		
County: DeKalb GA		
Total:	11,690	10,625 90.89%
Voting Age	8,476	7,662 90.40%
County: Newton GA		
Total:	15,515	8,194 52.81%
Voting Age	12,080	6,153 50.94%
County: Rockdale GA		
Total:	32,913	21,430 65.11%
Voting Age	24,178	15,424 63.79%
District 93 Total		
Total:	60,118	40,249 66.95%
Voting Age	44,734	29,239 65.36%
District 94		
County: DeKalb GA		
Total:	31,207	29,080 93.18%
Voting Age	23,817	22,124 92.89%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
County: Gwinnett GA		
Total:	28,004	12,317 43.98%
Voting Age	20,992	8,811 41.97%
District 94 Total		
Total:	59,211	41,397 69.91%
Voting Age	44,809	30,935 69.04%
District 95		
County: DeKalb GA		
Total:	14,599	13,199 90.41%
Voting Age	10,985	9,855 89.71%
County: Gwinnett GA		
Total:	34,221	23,533 68.77%
Voting Age	25,212	16,739 66.39%
County: Rockdale GA		
Total:	11,210	4,950 44.16%
Voting Age	8,751	3,589 41.01%
District 95 Total		
Total:	60,030	41,682 69.44%
Voting Age	44,948	30,183 67.15%
District 96		
County: Gwinnett GA		
Total:	59,515	13,970 23.47%
Voting Age	44,671	10,273 23.00%
District 96 Total		
Total:	59,515	13,970 23.47%
Voting Age	44,671	10,273 23.00%
District 97		
County: Gwinnett GA		
Total:	59,072	16,869 28.56%
Voting Age	46,339	12,405 26.77%
District 97 Total		
Total:	59,072	16,869 28.56%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	46,339	12,405 26.77%
District 98		
County: Gwinnett GA		
Total:	59,998	13,286 22.14%
Voting Age	42,734	9,934 23.25%
District 98 Total		
Total:	59,998	13,286 22.14%
Voting Age	42,734	9,934 23.25%
District 99		
County: Gwinnett GA		
Total:	59,850	9,514 15.90%
Voting Age	45,004	6,622 14.71%
District 99 Total		
Total:	59,850	9,514 15.90%
Voting Age	45,004	6,622 14.71%
District 100		
County: Forsyth GA		
Total:	17,007	886 5.21%
Voting Age	11,368	568 5.00%
County: Gwinnett GA		
Total:	35,204	4,889 13.89%
Voting Age	25,378	3,318 13.07%
County: Hall GA		
Total:	7,819	623 7.97%
Voting Age	5,923	387 6.53%
District 100 Total		
Total:	60,030	6,398 10.66%
Voting Age	42,669	4,273 10.01%
District 101		
County: Gwinnett GA		
Total:	59,938	15,380 25.66%
Voting Age	46,584	11,269 24.19%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
District 101 Total		
Total:	59,938	15,380 25.66%
Voting Age	46,584	11,269 24.19%
District 102		
County: Gwinnett GA		
Total:	58,959	23,702 40.20%
Voting Age	42,968	16,164 37.62%
District 102 Total		
Total:	58,959	23,702 40.20%
Voting Age	42,968	16,164 37.62%
District 103		
County: Gwinnett GA		
Total:	51,691	10,201 19.73%
Voting Age	38,022	7,144 18.79%
County: Hall GA		
Total:	8,506	427 5.02%
Voting Age	6,377	310 4.86%
District 103 Total		
Total:	60,197	10,628 17.66%
Voting Age	44,399	7,454 16.79%
District 104		
County: Barrow GA		
Total:	24,245	3,059 12.62%
Voting Age	17,849	2,036 11.41%
County: Gwinnett GA		
Total:	35,117	7,684 21.88%
Voting Age	25,457	5,337 20.96%
District 104 Total		
Total:	59,362	10,743 18.10%
Voting Age	43,306	7,373 17.03%
District 105		
County: Gwinnett GA		
Total:	59,344	18,444

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Voting Age	43,474	31.08% 12,628 29.05%
District 105 Total		
Total:	59,344	18,444 31.08%
Voting Age	43,474	12,628 29.05%
District 106		
County: Gwinnett GA		
Total:	59,112	23,221 39.28%
Voting Age	43,890	15,918 36.27%
District 106 Total		
Total:	59,112	23,221 39.28%
Voting Age	43,890	15,918 36.27%
District 107		
County: Gwinnett GA		
Total:	59,702	18,372 30.77%
Voting Age	44,509	13,186 29.63%
District 107 Total		
Total:	59,702	18,372 30.77%
Voting Age	44,509	13,186 29.63%
District 108		
County: Gwinnett GA		
Total:	59,577	11,946 20.05%
Voting Age	44,308	8,132 18.35%
District 108 Total		
Total:	59,577	11,946 20.05%
Voting Age	44,308	8,132 18.35%
District 109		
County: Gwinnett GA		
Total:	59,630	19,592 32.86%
Voting Age	44,140	14,352 32.51%
District 109 Total		
Total:	59,630	19,592 32.86%
Voting Age	44,140	14,352

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
		32.51%
District 110		
County: Gwinnett GA		
Total:	59,951	30,042 50.11%
Voting Age	43,226	20,400 47.19%
District 110 Total		
Total:	59,951	30,042 50.11%
Voting Age	43,226	20,400 47.19%
District 111		
County: Gwinnett GA		
Total:	22,685	7,931 34.96%
Voting Age	16,118	5,330 33.07%
County: Walton GA		
Total:	37,324	6,641 17.79%
Voting Age	27,978	4,498 16.08%
District 111 Total		
Total:	60,009	14,572 24.28%
Voting Age	44,096	9,828 22.29%
District 112		
County: Walton GA		
Total:	59,349	12,163 20.49%
Voting Age	45,120	8,667 19.21%
District 112 Total		
Total:	59,349	12,163 20.49%
Voting Age	45,120	8,667 19.21%
District 113		
County: Newton GA		
Total:	60,053	37,002 61.62%
Voting Age	44,538	26,515 59.53%
District 113 Total		
Total:	60,053	37,002 61.62%
Voting Age	44,538	26,515 59.53%
District 114		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
County: Jasper GA		
Total:	2,855	394 13.80%
Voting Age	2,168	302 13.93%
County: Morgan GA		
Total:	20,097	4,339 21.59%
Voting Age	15,574	3,280 21.06%
County: Newton GA		
Total:	36,915	10,705 29.00%
Voting Age	28,130	7,765 27.60%
District 114 Total		
Total:	59,867	15,438 25.79%
Voting Age	45,872	11,347 24.74%
District 115		
County: Henry GA		
Total:	59,789	33,618 56.23%
Voting Age	45,207	24,310 53.77%
District 115 Total		
Total:	59,789	33,618 56.23%
Voting Age	45,207	24,310 53.77%
District 116		
County: Clayton GA		
Total:	4,154	2,541 61.17%
Voting Age	3,320	1,950 58.73%
County: Henry GA		
Total:	50,833	29,507 58.05%
Voting Age	38,402	21,175 55.14%
County: Spalding GA		
Total:	5,393	1,188 22.03%
Voting Age	4,727	1,006 21.28%
District 116 Total		
Total:	60,380	33,236 55.04%
Voting Age	46,449	24,131

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
		51.95%
District 117		
County: Henry GA		
Total:	60,142	32,458 53.97%
Voting Age	44,089	22,732 51.56%
District 117 Total		
Total:	60,142	32,458 53.97%
Voting Age	44,089	22,732 51.56%
District 118		
County: Butts GA		
Total:	25,434	7,212 28.36%
Voting Age	20,360	5,660 27.80%
County: Henry GA		
Total:	12,229	2,311 18.90%
Voting Age	8,628	1,612 18.68%
County: Jasper GA		
Total:	11,733	2,282 19.45%
Voting Age	8,950	1,664 18.59%
County: Putnam GA		
Total:	10,591	2,690 25.40%
Voting Age	8,404	2,001 23.81%
District 118 Total		
Total:	59,987	14,495 24.16%
Voting Age	46,342	10,937 23.60%
District 119		
County: Barrow GA		
Total:	54,736	8,054 14.71%
Voting Age	40,949	5,601 13.68%
County: Jackson GA		
Total:	4,211	476 11.30%
Voting Age	3,056	334 10.93%
District 119 Total		
Total:	58,947	8,530

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	44,005	14.47% 5,935 13.49%
District 120		
County: Barrow GA		
Total:	4,524	794 17.55%
Voting Age	3,397	585 17.22%
County: Clarke GA		
Total:	30,095	6,316 20.99%
Voting Age	25,090	4,861 19.37%
County: Jackson GA		
Total:	15,213	1,258 8.27%
Voting Age	11,666	903 7.74%
County: Oconee GA		
Total:	9,150	500 5.46%
Voting Age	6,614	330 4.99%
District 120 Total		
Total:	58,982	8,868 15.04%
Voting Age	46,767	6,679 14.28%
District 121		
County: Clarke GA		
Total:	26,478	4,108 15.51%
Voting Age	22,991	3,124 13.59%
County: Oconee GA		
Total:	32,649	1,780 5.45%
Voting Age	23,607	1,330 5.63%
District 121 Total		
Total:	59,127	5,888 9.96%
Voting Age	46,598	4,454 9.56%
District 122		
County: Clarke GA		
Total:	59,632	19,281 32.33%
Voting Age	48,840	13,878 28.42%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
District 122 Total		
Total:	59,632	19,281 32.33%
Voting Age	48,840	13,878 28.42%
District 123		
County: Columbia GA		
Total:	2,205	478 21.68%
Voting Age	1,801	398 22.10%
County: Elbert GA		
Total:	19,637	5,520 28.11%
Voting Age	15,493	4,122 26.61%
County: Lincoln GA		
Total:	7,690	2,212 28.76%
Voting Age	6,270	1,728 27.56%
County: Madison GA		
Total:	20,185	2,813 13.94%
Voting Age	15,357	1,988 12.95%
County: Wilkes GA		
Total:	9,565	3,989 41.70%
Voting Age	7,651	3,071 40.14%
District 123 Total		
Total:	59,282	15,012 25.32%
Voting Age	46,572	11,307 24.28%
District 124		
County: Clarke GA		
Total:	12,466	3,967 31.82%
Voting Age	9,909	2,913 29.40%
County: Greene GA		
Total:	18,915	6,027 31.86%
Voting Age	15,358	4,470 29.11%
County: Oglethorpe GA		
Total:	14,825	2,468 16.65%
Voting Age	11,639	1,853

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
		15.92%
County: Putnam GA		
Total:	11,456	3,011 26.28%
Voting Age	9,443	2,228 23.59%
County: Taliaferro GA		
Total:	1,559	876 56.19%
Voting Age	1,289	722 56.01%
District 124 Total		
Total:	59,221	16,349 27.61%
Voting Age	47,638	12,186 25.58%
District 125		
County: Columbia GA		
Total:	55,389	14,661 26.47%
Voting Age	40,007	9,920 24.80%
County: McDuffie GA		
Total:	4,748	594 12.51%
Voting Age	3,805	456 11.98%
District 125 Total		
Total:	60,137	15,255 25.37%
Voting Age	43,812	10,376 23.68%
District 126		
County: Burke GA		
Total:	24,596	11,430 46.47%
Voting Age	18,778	8,362 44.53%
County: Jenkins GA		
Total:	8,674	3,638 41.94%
Voting Age	7,005	2,843 40.59%
County: Richmond GA		
Total:	25,990	18,384 70.73%
Voting Age	19,714	13,577 68.87%
District 126 Total		
Total:	59,260	33,452 56.45%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl %
Voting Age	45,497	24,782 54.47%
District 127		
County: Columbia GA		
Total:	39,526	6,235 15.77%
Voting Age	30,047	4,383 14.59%
County: Richmond GA		
Total:	19,152	5,305 27.70%
Voting Age	15,842	4,117 25.99%
District 127 Total		
Total:	58,678	11,540 19.67%
Voting Age	45,889	8,500 18.52%
District 128		
County: Baldwin GA		
Total:	5,158	1,999 38.76%
Voting Age	4,087	1,497 36.63%
County: Glascock GA		
Total:	2,884	226 7.84%
Voting Age	2,236	167 7.47%
County: Hancock GA		
Total:	8,735	6,131 70.19%
Voting Age	7,487	5,108 68.22%
County: McDuffie GA		
Total:	16,884	8,451 50.05%
Voting Age	12,810	5,969 46.60%
County: Warren GA		
Total:	5,215	3,128 59.98%
Voting Age	4,159	2,360 56.74%
County: Washington GA		
Total:	19,988	10,969 54.88%
Voting Age	15,709	8,333 53.05%
District 128 Total		
Total:	58,864	30,904

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl %
Voting Age	46,488	52.50% 23,434 50.41%
District 129		
County: Richmond GA		
Total:	58,829	34,245 58.21%
Voting Age	46,873	25,717 54.87%
District 129 Total		
Total:	58,829	34,245 58.21%
Voting Age	46,873	25,717 54.87%
District 130		
County: Richmond GA		
Total:	59,203	37,564 63.45%
Voting Age	44,019	26,372 59.91%
District 130 Total		
Total:	59,203	37,564 63.45%
Voting Age	44,019	26,372 59.91%
District 131		
County: Columbia GA		
Total:	58,890	11,142 18.92%
Voting Age	42,968	7,572 17.62%
District 131 Total		
Total:	58,890	11,142 18.92%
Voting Age	42,968	7,572 17.62%
District 132		
County: Jefferson GA		
Total:	15,709	8,208 52.25%
Voting Age	12,301	6,324 51.41%
County: Richmond GA		
Total:	43,433	24,472 56.34%
Voting Age	34,451	18,147 52.67%
District 132 Total		
Total:	59,142	32,680 55.26%
Voting Age	46,752	24,471

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
		52.34%
District 133		
County: Baldwin GA		
Total:	12,336	3,533 28.64%
Voting Age	9,995	2,704 27.05%
County: Jones GA		
Total:	28,347	7,114 25.10%
Voting Age	21,575	5,341 24.76%
County: Monroe GA		
Total:	19,085	5,241 27.46%
Voting Age	14,826	4,069 27.45%
District 133 Total		
Total:	59,768	15,888 26.58%
Voting Age	46,396	12,114 26.11%
District 134		
County: Lamar GA		
Total:	13,948	3,951 28.33%
Voting Age	10,728	2,916 27.18%
County: Spalding GA		
Total:	45,098	19,689 43.66%
Voting Age	34,120	13,863 40.63%
District 134 Total		
Total:	59,046	23,640 40.04%
Voting Age	44,848	16,779 37.41%
District 135		
County: Lamar GA		
Total:	4,552	1,269 27.88%
Voting Age	3,813	1,101 28.87%
County: Monroe GA		
Total:	8,872	1,203 13.56%
Voting Age	7,087	999 14.10%
County: Pike GA		
Total:	18,889	1,613

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Voting Age	14,337	8.54% 1,254 8.75%
County: Upson GA		
Total:	27,700	8,324 30.05%
Voting Age	21,711	6,202 28.57%
District 135 Total		
Total:	60,013	12,409 20.68%
Voting Age	46,948	9,556 20.35%
District 136		
County: Coweta GA		
Total:	28,003	3,113 11.12%
Voting Age	21,121	2,283 10.81%
County: Meriwether GA		
Total:	13,382	4,842 36.18%
Voting Age	10,832	3,828 35.34%
County: Troup GA		
Total:	17,913	9,575 53.45%
Voting Age	13,414	6,894 51.39%
District 136 Total		
Total:	59,298	17,530 29.56%
Voting Age	45,367	13,005 28.67%
District 137		
County: Meriwether GA		
Total:	7,231	2,705 37.41%
Voting Age	5,694	2,017 35.42%
County: Muscogee GA		
Total:	30,443	19,637 64.50%
Voting Age	22,797	14,291 62.69%
County: Talbot GA		
Total:	5,733	3,145 54.86%
Voting Age	4,783	2,537 53.04%
County: Troup GA		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Total:	16,144	6,765 41.90%
Voting Age	12,084	4,802 39.74%
District 137 Total		
Total:	59,551	32,252 54.16%
Voting Age	45,358	23,647 52.13%
District 138		
County: Harris GA		
Total:	21,634	3,615 16.71%
Voting Age	16,816	2,768 16.46%
County: Muscogee GA		
Total:	12,190	1,636 13.42%
Voting Age	9,628	1,178 12.24%
County: Troup GA		
Total:	25,088	6,821 27.19%
Voting Age	19,240	4,878 25.35%
District 138 Total		
Total:	58,912	12,072 20.49%
Voting Age	45,684	8,824 19.32%
District 139		
County: Harris GA		
Total:	13,034	2,127 16.32%
Voting Age	9,983	1,663 16.66%
County: Muscogee GA		
Total:	45,976	10,719 23.31%
Voting Age	35,539	7,564 21.28%
District 139 Total		
Total:	59,010	12,846 21.77%
Voting Age	45,522	9,227 20.27%
District 140		
County: Muscogee GA		
Total:	59,294	35,460 59.80%
Voting Age	44,411	25,596

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
		57.63%
District 140 Total		
Total:	59,294	35,460 59.80%
Voting Age	44,411	25,596 57.63%
District 141		
County: Muscogee GA		
Total:	59,019	34,760 58.90%
Voting Age	44,677	25,672 57.46%
District 141 Total		
Total:	59,019	34,760 58.90%
Voting Age	44,677	25,672 57.46%
District 142		
County: Bibb GA		
Total:	59,320	31,749 53.52%
Voting Age	45,212	22,669 50.14%
District 142 Total		
Total:	59,320	31,749 53.52%
Voting Age	45,212	22,669 50.14%
District 143		
County: Bibb GA		
Total:	59,122	32,016 54.15%
Voting Age	45,811	23,200 50.64%
District 143 Total		
Total:	59,122	32,016 54.15%
Voting Age	45,811	23,200 50.64%
District 144		
County: Crawford GA		
Total:	12,130	2,455 20.24%
Voting Age	9,606	1,938 20.17%
County: Houston GA		
Total:	32,310	9,506 29.42%
Voting Age	24,049	6,774 28.17%
County: Peach GA		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Total:	14,093	3,312 23.50%
Voting Age	11,209	2,478 22.11%
District 144 Total		
Total:	58,533	15,273 26.09%
Voting Age	44,864	11,190 24.94%
District 145		
County: Bibb GA		
Total:	22,716	12,851 56.57%
Voting Age	17,174	9,172 53.41%
County: Houston GA		
Total:	36,952	19,227 52.03%
Voting Age	27,373	13,271 48.48%
District 145 Total		
Total:	59,668	32,078 53.76%
Voting Age	44,547	22,443 50.38%
District 146		
County: Bleckley GA		
Total:	12,583	2,951 23.45%
Voting Age	9,613	2,036 21.18%
County: Houston GA		
Total:	35,804	8,390 23.43%
Voting Age	26,273	5,991 22.80%
County: Pulaski GA		
Total:	9,855	3,250 32.98%
Voting Age	8,012	2,564 32.00%
County: Wilcox GA		
Total:	955	365 38.22%
Voting Age	779	300 38.51%
District 146 Total		
Total:	59,197	14,956 25.26%
Voting Age	44,677	10,891 24.38%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
District 147		
County: Houston GA		
Total:	58,567	19,397 33.12%
Voting Age	44,423	13,569 30.54%
District 147 Total		
Total:	58,567	19,397 33.12%
Voting Age	44,423	13,569 30.54%
District 148		
County: Ben Hill GA		
Total:	5,115	1,601 31.30%
Voting Age	3,873	1,069 27.60%
County: Crisp GA		
Total:	20,128	9,194 45.68%
Voting Age	15,570	6,603 42.41%
County: Dodge GA		
Total:	18,550	6,010 32.40%
Voting Age	14,621	4,625 31.63%
County: Telfair GA		
Total:	8,283	3,698 44.65%
Voting Age	6,955	3,013 43.32%
County: Wilcox GA		
Total:	7,811	2,796 35.80%
Voting Age	6,439	2,393 37.16%
District 148 Total		
Total:	59,887	23,299 38.90%
Voting Age	47,458	17,703 37.30%
District 149		
County: Baldwin GA		
Total:	26,305	13,453 51.14%
Voting Age	21,650	10,314 47.64%
County: Bibb GA		
Total:	16,188	12,249 75.67%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Voting Age	12,705	9,229 72.64%
County: Twiggs GA		
Total:	8,022	3,226 40.21%
Voting Age	6,589	2,627 39.87%
County: Wilkinson GA		
Total:	8,877	3,330 37.51%
Voting Age	7,026	2,549 36.28%
District 149 Total		
Total:	59,392	32,258 54.31%
Voting Age	47,970	24,719 51.53%
District 150		
County: Dooly GA		
Total:	11,208	5,652 50.43%
Voting Age	9,187	4,526 49.27%
County: Macon GA		
Total:	12,082	7,296 60.39%
Voting Age	9,938	6,021 60.59%
County: Peach GA		
Total:	13,888	9,333 67.20%
Voting Age	10,902	7,242 66.43%
County: Sumter GA		
Total:	14,282	7,237 50.67%
Voting Age	10,903	5,178 47.49%
County: Taylor GA		
Total:	7,816	2,946 37.69%
Voting Age	6,120	2,235 36.52%
District 150 Total		
Total:	59,276	32,464 54.77%
Voting Age	47,050	25,202 53.56%
District 151		
County: Chattahoochee GA		
Total:	9,565	1,825

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	7,199	19.08% 1,287 17.88%
County: Dougherty GA		
Total:	6,268	3,885 61.98%
Voting Age	4,791	2,835 59.17%
County: Marion GA		
Total:	7,498	2,223 29.65%
Voting Age	5,854	1,687 28.82%
County: Schley GA		
Total:	4,547	933 20.52%
Voting Age	3,328	644 19.35%
County: Stewart GA		
Total:	5,314	2,538 47.76%
Voting Age	4,617	2,048 44.36%
County: Sumter GA		
Total:	15,334	8,309 54.19%
Voting Age	12,133	6,301 51.93%
County: Terrell GA		
Total:	9,185	5,707 62.13%
Voting Age	7,204	4,274 59.33%
County: Webster GA		
Total:	2,348	1,107 47.15%
Voting Age	1,847	844 45.70%
District 151 Total		
Total:	60,059	26,527 44.17%
Voting Age	46,973	19,920 42.41%
District 152		
County: Dougherty GA		
Total:	6,187	3,082 49.81%
Voting Age	4,906	2,382 48.55%
County: Lee GA		
Total:	33,163	7,755

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	24,676	23.38% 5,503 22.30%
County: Worth GA		
Total:	20,784	5,517 26.54%
Voting Age	16,444	4,108 24.98%
District 152 Total		
Total:	60,134	16,354 27.20%
Voting Age	46,026	11,993 26.06%
District 153		
County: Dougherty GA		
Total:	59,299	42,183 71.14%
Voting Age	45,692	31,047 67.95%
District 153 Total		
Total:	59,299	42,183 71.14%
Voting Age	45,692	31,047 67.95%
District 154		
County: Baker GA		
Total:	2,876	1,178 40.96%
Voting Age	2,275	932 40.97%
County: Calhoun GA		
Total:	5,573	3,629 65.12%
Voting Age	4,687	2,998 63.96%
County: Clay GA		
Total:	2,848	1,634 57.37%
Voting Age	2,246	1,231 54.81%
County: Dougherty GA		
Total:	14,036	12,307 87.68%
Voting Age	10,877	9,367 86.12%
County: Early GA		
Total:	10,854	5,688 52.40%
Voting Age	8,315	4,075 49.01%
County: Miller GA		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Total:	6,000	1,831 30.52%
Voting Age	4,749	1,358 28.60%
County: Quitman GA		
Total:	2,235	965 43.18%
Voting Age	1,870	765 40.91%
County: Randolph GA		
Total:	6,425	3,947 61.43%
Voting Age	4,977	2,913 58.53%
County: Seminole GA		
Total:	9,147	3,093 33.81%
Voting Age	7,277	2,275 31.26%
District 154 Total		
Total:	59,994	34,272 57.13%
Voting Age	47,273	25,914 54.82%
District 155		
County: Dodge GA		
Total:	1,375	138 10.04%
Voting Age	1,088	100 9.19%
County: Johnson GA		
Total:	9,189	3,124 34.00%
Voting Age	7,474	2,513 33.62%
County: Laurens GA		
Total:	49,570	19,132 38.60%
Voting Age	37,734	13,695 36.29%
District 155 Total		
Total:	60,134	22,394 37.24%
Voting Age	46,296	16,308 35.23%
District 156		
County: Ben Hill GA		
Total:	12,079	4,936 40.86%
Voting Age	9,292	3,676 39.56%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
County: Montgomery GA		
Total:	8,610	2,224 25.83%
Voting Age	6,792	1,781 26.22%
County: Tattnall GA		
Total:	1,263	168 13.30%
Voting Age	999	129 12.91%
County: Telfair GA		
Total:	4,194	1,056 25.18%
Voting Age	3,235	793 24.51%
County: Toombs GA		
Total:	27,030	7,402 27.38%
Voting Age	20,261	5,036 24.86%
County: Wheeler GA		
Total:	7,471	2,949 39.47%
Voting Age	6,217	2,561 41.19%
District 156 Total		
Total:	60,647	18,735 30.89%
Voting Age	46,796	13,976 29.87%
District 157		
County: Appling GA		
Total:	12,825	3,189 24.87%
Voting Age	9,673	2,257 23.33%
County: Evans GA		
Total:	10,774	3,273 30.38%
Voting Age	8,127	2,410 29.65%
County: Jeff Davis GA		
Total:	14,779	2,493 16.87%
Voting Age	10,856	1,752 16.14%
County: Tattnall GA		
Total:	21,579	6,163 28.56%
Voting Age	16,655	4,757 28.56%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
District 157 Total		
Total:	59,957	15,118 25.21%
Voting Age	45,311	11,176 24.67%
District 158		
County: Bulloch GA		
Total:	19,285	7,179 37.23%
Voting Age	15,054	5,282 35.09%
County: Candler GA		
Total:	10,981	2,807 25.56%
Voting Age	8,241	2,009 24.38%
County: Emanuel GA		
Total:	22,768	7,556 33.19%
Voting Age	17,320	5,404 31.20%
County: Treutlen GA		
Total:	6,406	2,114 33.00%
Voting Age	4,934	1,514 30.69%
District 158 Total		
Total:	59,440	19,656 33.07%
Voting Age	45,549	14,209 31.19%
District 159		
County: Bulloch GA		
Total:	12,887	5,071 39.35%
Voting Age	9,695	3,543 36.54%
County: Effingham GA		
Total:	32,941	4,709 14.30%
Voting Age	24,283	3,308 13.62%
County: Screven GA		
Total:	14,067	5,527 39.29%
Voting Age	10,893	4,144 38.04%
District 159 Total		
Total:	59,895	15,307 25.56%
Voting Age	44,871	10,995

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
		24.50%
District 160		
County: Bryan GA		
Total:	11,008	2,045 18.58%
Voting Age	8,312	1,464 17.61%
County: Bulloch GA		
Total:	48,927	12,125 24.78%
Voting Age	39,745	9,395 23.64%
District 160 Total		
Total:	59,935	14,170 23.64%
Voting Age	48,057	10,859 22.60%
District 161		
County: Chatham GA		
Total:	28,269	12,024 42.53%
Voting Age	21,359	8,519 39.88%
County: Effingham GA		
Total:	31,828	5,326 16.73%
Voting Age	23,012	3,523 15.31%
District 161 Total		
Total:	60,097	17,350 28.87%
Voting Age	44,371	12,042 27.14%
District 162		
County: Chatham GA		
Total:	60,308	28,142 46.66%
Voting Age	46,733	20,435 43.73%
District 162 Total		
Total:	60,308	28,142 46.66%
Voting Age	46,733	20,435 43.73%
District 163		
County: Chatham GA		
Total:	60,123	29,099 48.40%
Voting Age	48,461	22,045 45.49%
District 163 Total		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Total:	60,123	29,099
Voting Age	48,461	48.40% 22,045 45.49%
District 164		
County: Bryan GA		
Total:	21,420	4,209
Voting Age	15,119	19.65% 2,747 18.17%
County: Chatham GA		
Total:	38,681	10,858
Voting Age	30,732	28.07% 8,013 26.07%
District 164 Total		
Total:	60,101	15,067
Voting Age	45,851	25.07% 10,760 23.47%
District 165		
County: Chatham GA		
Total:	59,978	32,897
Voting Age	48,247	54.85% 24,282 50.33%
District 165 Total		
Total:	59,978	32,897
Voting Age	48,247	54.85% 24,282 50.33%
District 166		
County: Bryan GA		
Total:	12,310	1,209
Voting Age	8,397	9.82% 814 9.69%
County: Chatham GA		
Total:	47,932	2,438
Voting Age	39,183	5.09% 1,884 4.81%
District 166 Total		
Total:	60,242	3,647
Voting Age	47,580	6.05% 2,698 5.67%
District 167		
County: Glynn GA		
Total:	20,499	3,402
		16.60%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Voting Age	15,758	2,442 15.50%
County: Liberty GA		
Total:	5,109	1,606 31.43%
Voting Age	3,147	943 29.97%
County: Long GA		
Total:	16,168	4,734 29.28%
Voting Age	11,234	3,107 27.66%
County: McIntosh GA		
Total:	10,975	3,400 30.98%
Voting Age	9,040	2,641 29.21%
County: Wayne GA		
Total:	6,742	1,094 16.23%
Voting Age	4,961	702 14.15%
District 167 Total		
Total:	59,493	14,236 23.93%
Voting Age	44,140	9,835 22.28%
District 168		
County: Liberty GA		
Total:	60,147	29,540 49.11%
Voting Age	44,867	20,757 46.26%
District 168 Total		
Total:	60,147	29,540 49.11%
Voting Age	44,867	20,757 46.26%
District 169		
County: Coffee GA		
Total:	33,736	11,051 32.76%
Voting Age	25,541	8,086 31.66%
County: Irwin GA		
Total:	9,666	2,333 24.14%
Voting Age	7,547	1,720 22.79%
County: Tift GA		
Total:	6,730	767

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	5,219	11.40% 589 11.29%
County: Turner GA		
Total:	9,006	3,813 42.34%
Voting Age	6,960	2,752 39.54%
District 169 Total		
Total:	59,138	17,964 30.38%
Voting Age	45,267	13,147 29.04%
District 170		
County: Berrien GA		
Total:	18,160	2,198 12.10%
Voting Age	13,690	1,499 10.95%
County: Cook GA		
Total:	7,342	1,493 20.34%
Voting Age	5,621	1,103 19.62%
County: Tift GA		
Total:	34,614	11,967 34.57%
Voting Age	26,005	8,374 32.20%
District 170 Total		
Total:	60,116	15,658 26.05%
Voting Age	45,316	10,976 24.22%
District 171		
County: Decatur GA		
Total:	29,367	12,583 42.85%
Voting Age	22,443	9,189 40.94%
County: Grady GA		
Total:	8,115	1,434 17.67%
Voting Age	6,461	1,096 16.96%
County: Mitchell GA		
Total:	21,755	10,394 47.78%
Voting Age	17,065	7,917 46.39%
District 171 Total		

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Bl
Total:	59,237	24,411
Voting Age	45,969	41.21% 18,202 39.60%
District 172		
County: Colquitt GA		
Total:	45,898	10,648
Voting Age	34,193	23.20% 7,461 21.82%
County: Cook GA		
Total:	9,887	3,521
Voting Age	7,317	35.61% 2,492 34.06%
County: Thomas GA		
Total:	4,176	625
Voting Age	3,246	14.97% 486 14.97%
District 172 Total		
Total:	59,961	14,794
Voting Age	44,756	24.67% 10,439 23.32%
District 173		
County: Grady GA		
Total:	18,121	6,259
Voting Age	13,501	34.54% 4,582 33.94%
County: Thomas GA		
Total:	41,622	16,350
Voting Age	31,791	39.28% 11,846 37.26%
District 173 Total		
Total:	59,743	22,609
Voting Age	45,292	37.84% 16,428 36.27%
District 174		
County: Brantley GA		
Total:	18,021	733
Voting Age	13,692	4.07% 470 3.43%
County: Charlton GA		
Total:	12,518	2,798
Voting Age	10,135	22.35% 2,147

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
		21.18%
County: Clinch GA		
Total:	6,749	2,096 31.06%
Voting Age	5,034	1,406 27.93%
County: Echols GA		
Total:	3,697	193 5.22%
Voting Age	2,709	121 4.47%
County: Lowndes GA		
Total:	9,770	1,486 15.21%
Voting Age	7,472	1,086 14.53%
County: Ware GA		
Total:	9,097	3,954 43.46%
Voting Age	6,718	2,720 40.49%
District 174 Total		
Total:	59,852	11,260 18.81%
Voting Age	45,760	7,950 17.37%
District 175		
County: Brooks GA		
Total:	16,301	5,958 36.55%
Voting Age	12,747	4,357 34.18%
County: Lowndes GA		
Total:	43,692	9,375 21.46%
Voting Age	31,957	6,448 20.18%
District 175 Total		
Total:	59,993	15,333 25.56%
Voting Age	44,704	10,805 24.17%
District 176		
County: Atkinson GA		
Total:	8,286	1,284 15.50%
Voting Age	6,129	937 15.29%
County: Coffee GA		
Total:	9,356	1,524 16.29%

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	6,878	1,105 16.07%
County: Lanier GA		
Total:	9,877	2,369 23.99%
Voting Age	7,326	1,683 22.97%
County: Lowndes GA		
Total:	4,797	1,387 28.91%
Voting Age	3,588	975 27.17%
County: Ware GA		
Total:	27,154	7,467 27.50%
Voting Age	21,070	5,506 26.13%
District 176 Total		
Total:	59,470	14,031 23.59%
Voting Age	44,991	10,206 22.68%
District 177		
County: Lowndes GA		
Total:	59,992	34,510 57.52%
Voting Age	46,014	24,793 53.88%
District 177 Total		
Total:	59,992	34,510 57.52%
Voting Age	46,014	24,793 53.88%
District 178		
County: Appling GA		
Total:	5,619	458 8.15%
Voting Age	4,285	283 6.60%
County: Bacon GA		
Total:	11,140	1,970 17.68%
Voting Age	8,310	1,245 14.98%
County: Pierce GA		
Total:	19,716	1,801 9.13%
Voting Age	14,899	1,262 8.47%
County: Wayne GA		
Total:	23,402	5,296

Plan Components with Population Detail

Grant_Esselstyn_Hse_illus_12_05

	Total Population	AP_Blk
Voting Age	18,144	22.63% 3,960 21.83%
District 178 Total		
Total:	59,877	9,525 15.91%
Voting Age	45,638	6,750 14.79%
District 179		
County: Glynn GA		
Total:	59,356	18,047 30.40%
Voting Age	47,156	12,745 27.03%
District 179 Total		
Total:	59,356	18,047 30.40%
Voting Age	47,156	12,745 27.03%
District 180		
County: Camden GA		
Total:	54,768	11,072 20.22%
Voting Age	41,808	7,828 18.72%
County: Glynn GA		
Total:	4,644	649 13.98%
Voting Age	3,554	433 12.18%
District 180 Total		
Total:	59,412	11,721 19.73%
Voting Age	45,362	8,261 18.21%

EXHIBIT 14

User:

Plan Name: Grant_Esselstyn_Hse_illustrative12_05

Plan Type:

Core Constituencies

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

From Plan: **GA_House illus-Grant**

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 1 -- **59,666 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 1	59,666 (100.00%)	2,350 (100.00%)	46,801 (100.00%)	1,966 (100.00%)
Total and % Population		2,350 (3.94%)	46,801 (78.44%)	1,966 (3.30%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 10 -- **59,519 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 10	59,519 (100.00%)	1,804 (100.00%)	47,164 (100.00%)	1,757 (100.00%)
Total and % Population		1,804 (3.03%)	47,164 (79.24%)	1,757 (2.95%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 100 -- **60,030 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 100	60,030 (100.00%)	5,517 (100.00%)	42,669 (100.00%)	4,273 (100.00%)
Total and % Population		5,517 (9.19%)	42,669 (71.08%)	4,273 (7.12%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 101 -- **59,938 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 101	59,938 (100.00%)	13,724 (100.00%)	46,584 (100.00%)	11,269 (100.00%)
Total and % Population		13,724 (22.90%)	46,584 (77.72%)	11,269 (18.80%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 102 -- **58,959 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 102	58,959 (100.00%)	21,911 (100.00%)	42,968 (100.00%)	16,164 (100.00%)
Total and % Population		21,911 (37.16%)	42,968 (72.88%)	16,164 (27.42%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 103 -- **60,197 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 103	60,197 (100.00%)	9,341 (100.00%)	44,399 (100.00%)	7,454 (100.00%)
Total and % Population		9,341 (15.52%)	44,399 (73.76%)	7,454 (12.38%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 104 -- 59,362 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 104	59,362 (100.00%)	9,477 (100.00%)	43,306 (100.00%)	7,373 (100.00%)
Total and % Population		9,477 (15.96%)	43,306 (72.95%)	7,373 (12.42%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 105 -- 59,344 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 105	59,344 (100.00%)	16,883 (100.00%)	43,474 (100.00%)	12,628 (100.00%)
Total and % Population		16,883 (28.45%)	43,474 (73.26%)	12,628 (21.28%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 106 -- 59,112 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 106	59,112 (100.00%)	21,440 (100.00%)	43,890 (100.00%)	15,918 (100.00%)
Total and % Population		21,440 (36.27%)	43,890 (74.25%)	15,918 (26.93%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 107 -- 59,702 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 107	59,702 (100.00%)	16,810 (100.00%)	44,509 (100.00%)	13,186 (100.00%)
Total and % Population		16,810 (28.16%)	44,509 (74.55%)	13,186 (22.09%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 108 -- 59,577 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 108	59,577 (100.00%)	10,549 (100.00%)	44,308 (100.00%)	8,132 (100.00%)
Total and % Population		10,549 (17.71%)	44,308 (74.37%)	8,132 (13.65%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 109 -- 59,630 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 109	59,630 (100.00%)	17,986 (100.00%)	44,140 (100.00%)	14,352 (100.00%)
Total and % Population		17,986 (30.16%)	44,140 (74.02%)	14,352 (24.07%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 11 -- 58,792 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 11	58,792 (100.00%)	949 (100.00%)	45,396 (100.00%)	839 (100.00%)
Total and % Population		949 (1.61%)	45,396 (77.21%)	839 (1.43%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 110 -- 59,951 Total Population

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 110	59,951 (100.00%)	27,925 (100.00%)	43,226 (100.00%)	20,400 (100.00%)

Total and % Population		27,925 (46.58%)	43,226 (72.10%)	20,400 (34.03%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 111 -- 60,009 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 111	60,009 (100.00%)	13,248 (100.00%)	44,096 (100.00%)	9,828 (100.00%)

Total and % Population		13,248 (22.08%)	44,096 (73.48%)	9,828 (16.38%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 112 -- 59,349 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 112	59,349 (100.00%)	11,312 (100.00%)	45,120 (100.00%)	8,667 (100.00%)

Total and % Population		11,312 (19.06%)	45,120 (76.02%)	8,667 (14.60%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 113 -- 60,053 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 113	60,053 (100.00%)	35,006 (100.00%)	44,538 (100.00%)	26,515 (100.00%)

Total and % Population		35,006 (58.29%)	44,538 (74.16%)	26,515 (44.15%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 114 -- 59,867 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 114	59,867 (100.00%)	14,465 (100.00%)	45,872 (100.00%)	11,347 (100.00%)

Total and % Population		14,465 (24.16%)	45,872 (76.62%)	11,347 (18.95%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 115 -- 59,789 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 115	59,789 (100.00%)	31,769 (100.00%)	45,207 (100.00%)	24,310 (100.00%)

Total and % Population		31,769 (53.14%)	45,207 (75.61%)	24,310 (40.66%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 116 -- 60,380 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 116	60,380 (100.00%)	31,410 (100.00%)	46,449 (100.00%)	24,131 (100.00%)

Total and % Population		31,410 (52.02%)	46,449 (76.93%)	24,131 (39.97%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 117 -- 60,142 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 117	60,142 (100.00%)	30,626 (100.00%)	44,089 (100.00%)	22,732 (100.00%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Total and % Population	30,626 (50.92%)	44,089 (73.31%)	22,732 (37.80%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 118 -- **59,987 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 118	59,987 (100.00%)	13,629 (100.00%)	46,342 (100.00%)	10,937 (100.00%)
Total and % Population		13,629 (22.72%)	46,342 (77.25%)	10,937 (18.23%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 119 -- **58,947 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 119	58,947 (100.00%)	7,502 (100.00%)	44,005 (100.00%)	5,935 (100.00%)
Total and % Population		7,502 (12.73%)	44,005 (74.65%)	5,935 (10.07%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 12 -- **59,300 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 12	59,300 (100.00%)	5,148 (100.00%)	46,487 (100.00%)	4,498 (100.00%)
Total and % Population		5,148 (8.68%)	46,487 (78.39%)	4,498 (7.59%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 120 -- **58,982 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 120	58,982 (100.00%)	8,053 (100.00%)	46,767 (100.00%)	6,679 (100.00%)
Total and % Population		8,053 (13.65%)	46,767 (79.29%)	6,679 (11.32%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 121 -- **59,127 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 121	59,127 (100.00%)	5,205 (100.00%)	46,598 (100.00%)	4,454 (100.00%)
Total and % Population		5,205 (8.80%)	46,598 (78.81%)	4,454 (7.53%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 122 -- **59,632 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 122	59,632 (100.00%)	18,394 (100.00%)	48,840 (100.00%)	13,878 (100.00%)
Total and % Population		18,394 (30.85%)	48,840 (81.90%)	13,878 (23.27%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 123 -- **59,282 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 123	59,282 (100.00%)	14,175 (100.00%)	46,572 (100.00%)	11,307 (100.00%)
Total and % Population		14,175 (23.91%)	46,572 (78.56%)	11,307 (19.07%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,221 Total Population**

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

124 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 124	59,221 (100.00%)	15,507 (100.00%)	47,638 (100.00%)	12,186 (100.00%)
Total and % Population		15,507 (26.18%)	47,638 (80.44%)	12,186 (20.58%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 60,137 Total Population**125 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 125	60,137 (100.00%)	13,377 (100.00%)	43,812 (100.00%)	10,376 (100.00%)
Total and % Population		13,377 (22.24%)	43,812 (72.85%)	10,376 (17.25%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,260 Total Population**126 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 126	59,260 (100.00%)	32,178 (100.00%)	45,497 (100.00%)	24,782 (100.00%)
Total and % Population		32,178 (54.30%)	45,497 (76.78%)	24,782 (41.82%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 58,678 Total Population**127 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 127	58,678 (100.00%)	10,247 (100.00%)	45,889 (100.00%)	8,500 (100.00%)
Total and % Population		10,247 (17.46%)	45,889 (78.20%)	8,500 (14.49%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 58,864 Total Population**128 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 128	58,864 (100.00%)	30,088 (100.00%)	46,488 (100.00%)	23,434 (100.00%)
Total and % Population		30,088 (51.11%)	46,488 (78.98%)	23,434 (39.81%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 58,829 Total Population**129 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 129	58,829 (100.00%)	32,650 (100.00%)	46,873 (100.00%)	25,717 (100.00%)
Total and % Population		32,650 (55.50%)	46,873 (79.68%)	25,717 (43.71%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,150 Total Population**13 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 13	59,150 (100.00%)	11,189 (100.00%)	45,176 (100.00%)	8,665 (100.00%)
Total and % Population		11,189 (18.92%)	45,176 (76.38%)	8,665 (14.65%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,203 Total Population**130 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 130	59,203 (100.00%)	36,019 (100.00%)	44,019 (100.00%)	26,372 (100.00%)
Total and % Population		36,019 (60.84%)	44,019 (74.35%)	26,372 (44.55%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 131 -- 58,890 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 131	58,890 (100.00%)	9,645 (100.00%)	42,968 (100.00%)	7,572 (100.00%)
Total and % Population		9,645 (16.38%)	42,968 (72.96%)	7,572 (12.86%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 132 -- 59,142 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 132	59,142 (100.00%)	31,039 (100.00%)	46,752 (100.00%)	24,471 (100.00%)
Total and % Population		31,039 (52.48%)	46,752 (79.05%)	24,471 (41.38%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 133 -- 59,768 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 133	53,043 (88.75%)	13,816 (91.30%)	41,023 (88.42%)	11,119 (91.79%)
Dist. 149	6,725 (11.25%)	1,316 (8.70%)	5,373 (11.58%)	995 (8.21%)
Total and % Population		15,132 (25.32%)	46,396 (77.63%)	12,114 (20.27%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 134 -- 59,046 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 134	59,046 (100.00%)	22,556 (100.00%)	44,848 (100.00%)	16,779 (100.00%)
Total and % Population		22,556 (38.20%)	44,848 (75.95%)	16,779 (28.42%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 135 -- 60,013 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 135	60,013 (100.00%)	11,671 (100.00%)	46,948 (100.00%)	9,556 (100.00%)
Total and % Population		11,671 (19.45%)	46,948 (78.23%)	9,556 (15.92%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 136 -- 59,298 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 136	59,298 (100.00%)	16,690 (100.00%)	45,367 (100.00%)	13,005 (100.00%)
Total and % Population		16,690 (28.15%)	45,367 (76.51%)	13,005 (21.93%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 137 -- 59,551 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 137	59,551 (100.00%)	30,916 (100.00%)	45,358 (100.00%)	23,647 (100.00%)
Total and % Population		30,916 (51.92%)	45,358 (76.17%)	23,647 (39.71%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 138 -- 58,912 Total Population

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 138	58,912 (100.00%)	11,148 (100.00%)	45,684 (100.00%)	8,824 (100.00%)
Total and % Population		11,148 (18.92%)	45,684 (77.55%)	8,824 (14.98%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 139 -- 59,010 Total Population

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 139	59,010 (100.00%)	11,584 (100.00%)	45,522 (100.00%)	9,227 (100.00%)
Total and % Population		11,584 (19.63%)	45,522 (77.14%)	9,227 (15.64%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 14 -- 59,135 Total Population

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 14	59,135 (100.00%)	3,534 (100.00%)	45,511 (100.00%)	3,117 (100.00%)
Total and % Population		3,534 (5.98%)	45,511 (76.96%)	3,117 (5.27%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 140 -- 59,294 Total Population

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 140	59,294 (100.00%)	33,539 (100.00%)	44,411 (100.00%)	25,596 (100.00%)
Total and % Population		33,539 (56.56%)	44,411 (74.90%)	25,596 (43.17%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 141 -- 59,019 Total Population

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 141	59,019 (100.00%)	32,812 (100.00%)	44,677 (100.00%)	25,672 (100.00%)
Total and % Population		32,812 (55.60%)	44,677 (75.70%)	25,672 (43.50%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 142 -- 59,320 Total Population

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 142	59,320 (100.00%)	30,779 (100.00%)	45,212 (100.00%)	22,669 (100.00%)
Total and % Population		30,779 (51.89%)	45,212 (76.22%)	22,669 (38.21%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 143 -- 59,122 Total Population

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 143	59,122 (100.00%)	30,792 (100.00%)	45,811 (100.00%)	23,200 (100.00%)
Total and % Population		30,792 (52.08%)	45,811 (77.49%)	23,200 (39.24%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 144 -- 58,533 Total Population

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 144	58,367 (99.72%)	14,210 (99.67%)	44,754 (99.75%)	11,162 (99.75%)
Dist. 147	166 (0.28%)	47 (0.33%)	110 (0.25%)	28 (0.25%)
Total and % Population		14,257 (24.36%)	44,864 (76.65%)	11,190 (19.12%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 145 -- 59,668 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 145	59,668 (100.00%)	30,525 (100.00%)	44,547 (100.00%)	22,443 (100.00%)
Total and % Population		30,525 (51.16%)	44,547 (74.66%)	22,443 (37.61%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 146 -- 59,197 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 146	59,197 (100.00%)	14,039 (100.00%)	44,677 (100.00%)	10,891 (100.00%)
Total and % Population		14,039 (23.72%)	44,677 (75.47%)	10,891 (18.40%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 147 -- 58,567 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 144	275 (0.47%)	89 (0.50%)	206 (0.46%)	77 (0.57%)
Dist. 147	58,292 (99.53%)	17,853 (99.50%)	44,217 (99.54%)	13,492 (99.43%)
Total and % Population		17,942 (30.64%)	44,423 (75.85%)	13,569 (23.17%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 148 -- 59,887 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 148	59,887 (100.00%)	22,518 (100.00%)	47,458 (100.00%)	17,703 (100.00%)
Total and % Population		22,518 (37.60%)	47,458 (79.25%)	17,703 (29.56%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 149 -- 59,392 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 128	5 (0.01%)	0 (0.00%)	5 (0.01%)	(0.00%)
Dist. 133	6,652 (11.20%)	2,247 (7.19%)	5,303 (11.05%)	1,686 (6.82%)
Dist. 149	52,735 (88.79%)	29,015 (92.81%)	42,662 (88.93%)	23,033 (93.18%)
Total and % Population		31,262 (52.64%)	47,970 (80.77%)	24,719 (41.62%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 15 -- 59,213 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 15	59,213 (100.00%)	8,202 (100.00%)	45,791 (100.00%)	6,500 (100.00%)
Total and % Population		8,202 (13.85%)	45,791 (77.33%)	6,500 (10.98%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 150 -- 59,276 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 150	59,276 (100.00%)	31,715 (100.00%)	47,050 (100.00%)	25,202 (100.00%)
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Total and % Population		31,715 (53.50%)	47,050 (79.37%)	25,202 (42.52%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 151 -- **60,059 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 151	60,059 (100.00%)	25,497 (100.00%)	46,973 (100.00%)	19,920 (100.00%)

Total and % Population		25,497 (42.45%)	46,973 (78.21%)	19,920 (33.17%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 152 -- **60,134 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 152	60,134 (100.00%)	15,624 (100.00%)	46,026 (100.00%)	11,993 (100.00%)

Total and % Population		15,624 (25.98%)	46,026 (76.54%)	11,993 (19.94%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 153 -- **59,299 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 153	59,299 (100.00%)	41,175 (100.00%)	45,692 (100.00%)	31,047 (100.00%)

Total and % Population		41,175 (69.44%)	45,692 (77.05%)	31,047 (52.36%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 154 -- **59,994 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 154	59,994 (100.00%)	33,457 (100.00%)	47,273 (100.00%)	25,914 (100.00%)

Total and % Population		33,457 (55.77%)	47,273 (78.80%)	25,914 (43.19%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 155 -- **60,134 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 155	60,134 (100.00%)	21,488 (100.00%)	46,296 (100.00%)	16,308 (100.00%)

Total and % Population		21,488 (35.73%)	46,296 (76.99%)	16,308 (27.12%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 156 -- **60,647 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 156	60,647 (100.00%)	17,931 (100.00%)	46,796 (100.00%)	13,976 (100.00%)

Total and % Population		17,931 (29.57%)	46,796 (77.16%)	13,976 (23.04%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 157 -- **59,957 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 157	59,957 (100.00%)	14,283 (100.00%)	45,311 (100.00%)	11,176 (100.00%)

Total and % Population		14,283 (23.82%)	45,311 (75.57%)	11,176 (18.64%)
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,440 Total Population****158 --**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 158	59,440 (100.00%)	18,823 (100.00%)	45,549 (100.00%)	14,209 (100.00%)
Total and % Population		18,823 (31.67%)	45,549 (76.63%)	14,209 (23.90%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,895 Total Population****159 --**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 159	59,895 (100.00%)	14,389 (100.00%)	44,871 (100.00%)	10,995 (100.00%)
Total and % Population		14,389 (24.02%)	44,871 (74.92%)	10,995 (18.36%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,402 Total Population****16 --**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 16	59,402 (100.00%)	6,746 (100.00%)	44,009 (100.00%)	5,146 (100.00%)
Total and % Population		6,746 (11.36%)	44,009 (74.09%)	5,146 (8.66%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,935 Total Population****160 --**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 160	59,935 (100.00%)	13,210 (100.00%)	48,057 (100.00%)	10,859 (100.00%)
Total and % Population		13,210 (22.04%)	48,057 (80.18%)	10,859 (18.12%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **60,097 Total Population****161 --**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 161	60,097 (100.00%)	15,788 (100.00%)	44,371 (100.00%)	12,042 (100.00%)
Total and % Population		15,788 (26.27%)	44,371 (73.83%)	12,042 (20.04%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **60,308 Total Population****162 --**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 162	60,308 (100.00%)	26,504 (100.00%)	46,733 (100.00%)	20,435 (100.00%)
Total and % Population		26,504 (43.95%)	46,733 (77.49%)	20,435 (33.88%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **60,123 Total Population****163 --**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 163	60,123 (100.00%)	27,983 (100.00%)	48,461 (100.00%)	22,045 (100.00%)
Total and % Population		27,983 (46.54%)	48,461 (80.60%)	22,045 (36.67%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **60,101 Total Population****164 --**

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 164	60,101 (100.00%)	13,550 (100.00%)	45,851 (100.00%)	10,760 (100.00%)

Total and % Population		13,550 (22.55%)	45,851 (76.29%)	10,760 (17.90%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 165 -- 59,978 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 165	59,978 (100.00%)	31,706 (100.00%)	48,247 (100.00%)	24,282 (100.00%)

Total and % Population		31,706 (52.86%)	48,247 (80.44%)	24,282 (40.48%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 166 -- 60,242 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 166	60,242 (100.00%)	3,034 (100.00%)	47,580 (100.00%)	2,698 (100.00%)

Total and % Population		3,034 (5.04%)	47,580 (78.98%)	2,698 (4.48%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 167 -- 59,493 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 167	59,493 (100.00%)	12,729 (100.00%)	44,140 (100.00%)	9,835 (100.00%)

Total and % Population		12,729 (21.40%)	44,140 (74.19%)	9,835 (16.53%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 168 -- 60,147 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 168	60,147 (100.00%)	26,762 (100.00%)	44,867 (100.00%)	20,757 (100.00%)

Total and % Population		26,762 (44.49%)	44,867 (74.60%)	20,757 (34.51%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 169 -- 59,138 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 169	59,138 (100.00%)	17,176 (100.00%)	45,267 (100.00%)	13,147 (100.00%)

Total and % Population		17,176 (29.04%)	45,267 (76.54%)	13,147 (22.23%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 17 -- 59,120 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 17	59,120 (100.00%)	13,323 (100.00%)	42,761 (100.00%)	9,843 (100.00%)

Total and % Population		13,323 (22.54%)	42,761 (72.33%)	9,843 (16.65%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 170 -- 60,116 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 170	60,116 (100.00%)	14,767 (100.00%)	45,316 (100.00%)	10,976 (100.00%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Total and % Population	14,767 (24.56%)	45,316 (75.38%)	10,976 (18.26%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 171 -- **59,237 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 171	59,237 (100.00%)	23,696 (100.00%)	45,969 (100.00%)	18,202 (100.00%)
Total and % Population		23,696 (40.00%)	45,969 (77.60%)	18,202 (30.73%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 172 -- **59,961 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 172	59,961 (100.00%)	14,034 (100.00%)	44,756 (100.00%)	10,439 (100.00%)
Total and % Population		14,034 (23.41%)	44,756 (74.64%)	10,439 (17.41%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 173 -- **59,743 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 173	59,743 (100.00%)	21,746 (100.00%)	45,292 (100.00%)	16,428 (100.00%)
Total and % Population		21,746 (36.40%)	45,292 (75.81%)	16,428 (27.50%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 174 -- **59,852 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 174	59,852 (100.00%)	10,428 (100.00%)	45,760 (100.00%)	7,950 (100.00%)
Total and % Population		10,428 (17.42%)	45,760 (76.46%)	7,950 (13.28%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 175 -- **59,993 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 175	59,993 (100.00%)	14,386 (100.00%)	44,704 (100.00%)	10,805 (100.00%)
Total and % Population		14,386 (23.98%)	44,704 (74.52%)	10,805 (18.01%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 176 -- **59,470 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 176	59,470 (100.00%)	13,059 (100.00%)	44,991 (100.00%)	10,206 (100.00%)
Total and % Population		13,059 (21.96%)	44,991 (75.65%)	10,206 (17.16%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 177 -- **59,992 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_BlK]
Dist. 177	59,992 (100.00%)	33,153 (100.00%)	46,014 (100.00%)	24,793 (100.00%)
Total and % Population		33,153 (55.26%)	46,014 (76.70%)	24,793 (41.33%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,877 Total Population**

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

178 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 178	59,877 (100.00%)	8,736 (100.00%)	45,638 (100.00%)	6,750 (100.00%)
Total and % Population		8,736 (14.59%)	45,638 (76.22%)	6,750 (11.27%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,356 Total Population****179 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 179	59,356 (100.00%)	17,013 (100.00%)	47,156 (100.00%)	12,745 (100.00%)
Total and % Population		17,013 (28.66%)	47,156 (79.45%)	12,745 (21.47%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,335 Total Population****18 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 18	59,335 (100.00%)	4,265 (100.00%)	45,159 (100.00%)	3,604 (100.00%)
Total and % Population		4,265 (7.19%)	45,159 (76.11%)	3,604 (6.07%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,412 Total Population****180 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 180	59,412 (100.00%)	10,284 (100.00%)	45,362 (100.00%)	8,261 (100.00%)
Total and % Population		10,284 (17.31%)	45,362 (76.35%)	8,261 (13.90%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **58,955 Total Population****19 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 19	58,955 (100.00%)	14,117 (100.00%)	44,299 (100.00%)	10,697 (100.00%)
Total and % Population		14,117 (23.95%)	44,299 (75.14%)	10,697 (18.14%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,773 Total Population****2 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 2	59,773 (100.00%)	1,601 (100.00%)	46,159 (100.00%)	1,456 (100.00%)
Total and % Population		1,601 (2.68%)	46,159 (77.22%)	1,456 (2.44%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **60,107 Total Population****20 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 20	60,107 (100.00%)	5,011 (100.00%)	45,725 (100.00%)	4,230 (100.00%)
Total and % Population		5,011 (8.34%)	45,725 (76.07%)	4,230 (7.04%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,529 Total Population****21 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 21	59,529 (100.00%)	2,603 (100.00%)	44,931 (100.00%)	2,272 (100.00%)
Total and % Population		2,603 (4.37%)	44,931 (75.48%)	2,272 (3.82%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 22 -- **59,460 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 22	59,460 (100.00%)	8,506 (100.00%)	45,815 (100.00%)	6,918 (100.00%)
Total and % Population		8,506 (14.31%)	45,815 (77.05%)	6,918 (11.63%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 23 -- **59,048 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 23	59,048 (100.00%)	3,432 (100.00%)	44,254 (100.00%)	2,878 (100.00%)
Total and % Population		3,432 (5.81%)	44,254 (74.95%)	2,878 (4.87%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 24 -- **59,011 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 24	59,011 (100.00%)	3,624 (100.00%)	41,814 (100.00%)	2,926 (100.00%)
Total and % Population		3,624 (6.14%)	41,814 (70.86%)	2,926 (4.96%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 25 -- **59,414 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 25	59,414 (100.00%)	3,004 (100.00%)	42,520 (100.00%)	2,507 (100.00%)
Total and % Population		3,004 (5.06%)	42,520 (71.57%)	2,507 (4.22%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 26 -- **59,248 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 26	59,248 (100.00%)	2,022 (100.00%)	44,081 (100.00%)	1,767 (100.00%)
Total and % Population		2,022 (3.41%)	44,081 (74.40%)	1,767 (2.98%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 27 -- **58,795 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 27	58,795 (100.00%)	1,946 (100.00%)	46,004 (100.00%)	1,698 (100.00%)
Total and % Population		1,946 (3.31%)	46,004 (78.24%)	1,698 (2.89%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 28 -- **58,972 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 28	58,972 (100.00%)	2,060 (100.00%)	44,444 (100.00%)	1,747 (100.00%)
Total and % Population		2,060 (3.49%)	44,444 (75.36%)	1,747 (2.96%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 29 -- **59,200 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 29	59,200 (100.00%)	7,373 (100.00%)	43,131 (100.00%)	5,861 (100.00%)
Total and % Population		7,373 (12.45%)	43,131 (72.86%)	5,861 (9.90%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 3 -- **60,199 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 3	60,199 (100.00%)	1,744 (100.00%)	46,716 (100.00%)	1,565 (100.00%)
Total and % Population		1,744 (2.90%)	46,716 (77.60%)	1,565 (2.60%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 30 -- **59,266 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 30	59,266 (100.00%)	4,478 (100.00%)	45,414 (100.00%)	3,678 (100.00%)
Total and % Population		4,478 (7.56%)	45,414 (76.63%)	3,678 (6.21%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 31 -- **59,901 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 31	59,901 (100.00%)	4,092 (100.00%)	43,120 (100.00%)	3,265 (100.00%)
Total and % Population		4,092 (6.83%)	43,120 (71.99%)	3,265 (5.45%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 32 -- **59,145 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 32	59,145 (100.00%)	4,337 (100.00%)	45,942 (100.00%)	3,659 (100.00%)
Total and % Population		4,337 (7.33%)	45,942 (77.68%)	3,659 (6.19%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 33 -- **59,187 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 33	59,187 (100.00%)	6,524 (100.00%)	46,498 (100.00%)	5,207 (100.00%)
Total and % Population		6,524 (11.02%)	46,498 (78.56%)	5,207 (8.80%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 34 -- **59,875 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 34	59,875 (100.00%)	8,817 (100.00%)	45,758 (100.00%)	7,169 (100.00%)
Total and % Population		8,817 (14.73%)	45,758 (76.42%)	7,169 (11.97%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 35 -- **59,889 Total Population**

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 35	59,889 (100.00%)	16,250 (100.00%)	48,312 (100.00%)	13,722 (100.00%)
Total and % Population		16,250 (27.13%)	48,312 (80.67%)	13,722 (22.91%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 36 -- 59,994 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 36	59,994 (100.00%)	9,753 (100.00%)	44,911 (100.00%)	7,626 (100.00%)
Total and % Population		9,753 (16.26%)	44,911 (74.86%)	7,626 (12.71%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 37 -- 59,176 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 37	59,176 (100.00%)	15,723 (100.00%)	46,223 (100.00%)	13,027 (100.00%)
Total and % Population		15,723 (26.57%)	46,223 (78.11%)	13,027 (22.01%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 38 -- 59,317 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 38	59,317 (100.00%)	31,840 (100.00%)	44,839 (100.00%)	24,318 (100.00%)
Total and % Population		31,840 (53.68%)	44,839 (75.59%)	24,318 (41.00%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 39 -- 59,381 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 39	59,381 (100.00%)	31,375 (100.00%)	44,436 (100.00%)	24,569 (100.00%)
Total and % Population		31,375 (52.84%)	44,436 (74.83%)	24,569 (41.38%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 4 -- 59,070 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 4	59,070 (100.00%)	2,606 (100.00%)	42,798 (100.00%)	2,303 (100.00%)
Total and % Population		2,606 (4.41%)	42,798 (72.45%)	2,303 (3.90%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 40 -- 59,044 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 40	59,044 (100.00%)	18,536 (100.00%)	47,976 (100.00%)	15,821 (100.00%)
Total and % Population		18,536 (31.39%)	47,976 (81.25%)	15,821 (26.80%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 41 -- 60,122 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 41	60,122 (100.00%)	22,247 (100.00%)	45,271 (100.00%)	17,816 (100.00%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Total and % Population	22,247 (37.00%)	45,271 (75.30%)	17,816 (29.63%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 42 -- **59,620 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 42	59,620 (100.00%)	19,001 (100.00%)	48,525 (100.00%)	16,353 (100.00%)
Total and % Population		19,001 (31.87%)	48,525 (81.39%)	16,353 (27.43%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 43 -- **59,464 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 43	59,464 (100.00%)	14,766 (100.00%)	47,033 (100.00%)	12,476 (100.00%)
Total and % Population		14,766 (24.83%)	47,033 (79.09%)	12,476 (20.98%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 44 -- **60,002 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 44	60,002 (100.00%)	6,740 (100.00%)	46,773 (100.00%)	5,635 (100.00%)
Total and % Population		6,740 (11.23%)	46,773 (77.95%)	5,635 (9.39%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 45 -- **59,738 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 45	59,738 (100.00%)	2,532 (100.00%)	44,023 (100.00%)	2,324 (100.00%)
Total and % Population		2,532 (4.24%)	44,023 (73.69%)	2,324 (3.89%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 46 -- **59,108 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 46	59,108 (100.00%)	4,096 (100.00%)	44,132 (100.00%)	3,560 (100.00%)
Total and % Population		4,096 (6.93%)	44,132 (74.66%)	3,560 (6.02%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 47 -- **59,126 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 47	59,126 (100.00%)	5,672 (100.00%)	43,932 (100.00%)	4,709 (100.00%)
Total and % Population		5,672 (9.59%)	43,932 (74.30%)	4,709 (7.96%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 48 -- **59,003 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 48	59,003 (100.00%)	6,124 (100.00%)	44,779 (100.00%)	5,279 (100.00%)
Total and % Population		6,124 (10.38%)	44,779 (75.89%)	5,279 (8.95%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,153 Total Population**

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

49 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 49	59,153 (100.00%)	4,333 (100.00%)	45,263 (100.00%)	3,813 (100.00%)
Total and % Population		4,333 (7.33%)	45,263 (76.52%)	3,813 (6.45%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 58,837 Total Population

5 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 5	58,837 (100.00%)	2,281 (100.00%)	44,623 (100.00%)	2,051 (100.00%)
Total and % Population		2,281 (3.88%)	44,623 (75.84%)	2,051 (3.49%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,523 Total Population

50 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 50	59,523 (100.00%)	6,726 (100.00%)	43,940 (100.00%)	5,450 (100.00%)
Total and % Population		6,726 (11.30%)	43,940 (73.82%)	5,450 (9.16%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 58,952 Total Population

51 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 51	58,952 (100.00%)	13,218 (100.00%)	47,262 (100.00%)	11,193 (100.00%)
Total and % Population		13,218 (22.42%)	47,262 (80.17%)	11,193 (18.99%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,811 Total Population

52 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 52	59,811 (100.00%)	8,339 (100.00%)	48,525 (100.00%)	7,758 (100.00%)
Total and % Population		8,339 (13.94%)	48,525 (81.13%)	7,758 (12.97%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,953 Total Population

53 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 53	59,953 (100.00%)	7,548 (100.00%)	46,944 (100.00%)	6,819 (100.00%)
Total and % Population		7,548 (12.59%)	46,944 (78.30%)	6,819 (11.37%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 60,083 Total Population

54 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 54	60,083 (100.00%)	7,959 (100.00%)	50,338 (100.00%)	7,789 (100.00%)
Total and % Population		7,959 (13.25%)	50,338 (83.78%)	7,789 (12.96%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,971 Total Population

55 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 55	59,971 (100.00%)	33,004 (100.00%)	49,255 (100.00%)	27,279 (100.00%)
Total and % Population		33,004 (55.03%)	49,255 (82.13%)	27,279 (45.49%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 56 -- 58,929 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 56	58,929 (100.00%)	27,608 (100.00%)	52,757 (100.00%)	23,993 (100.00%)
Total and % Population		27,608 (46.85%)	52,757 (89.53%)	23,993 (40.72%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 57 -- 59,969 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 57	59,969 (100.00%)	9,529 (100.00%)	52,097 (100.00%)	9,411 (100.00%)
Total and % Population		9,529 (15.89%)	52,097 (86.87%)	9,411 (15.69%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 58 -- 59,057 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 58	59,057 (100.00%)	37,623 (100.00%)	50,514 (100.00%)	31,845 (100.00%)
Total and % Population		37,623 (63.71%)	50,514 (85.53%)	31,845 (53.92%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59 -- 59,434 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 59	59,434 (100.00%)	41,763 (100.00%)	49,179 (100.00%)	34,470 (100.00%)
Total and % Population		41,763 (70.27%)	49,179 (82.75%)	34,470 (58.00%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 6 -- 59,712 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 6	59,712 (100.00%)	641 (100.00%)	45,152 (100.00%)	682 (100.00%)
Total and % Population		641 (1.07%)	45,152 (75.62%)	682 (1.14%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 60 -- 59,709 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 60	59,709 (100.00%)	37,176 (100.00%)	45,490 (100.00%)	29,061 (100.00%)
Total and % Population		37,176 (62.26%)	45,490 (76.19%)	29,061 (48.67%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 61 -- 58,950 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 61	35,273 (59.84%)	17,608 (56.93%)	26,456 (59.84%)	13,464 (56.93%)
Dist. 65	18,084 (30.68%)	11,790 (38.12%)	13,448 (30.42%)	9,005 (38.07%)
Dist. 66	5,593 (9.49%)	1,531 (4.95%)	4,308 (9.74%)	1,182 (5.00%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Total and % Population	30,929 (52.47%)	44,212 (75.00%)	23,651 (40.12%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 62 -- **59,450 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 62	59,450 (100.00%)	42,125 (100.00%)	46,426 (100.00%)	33,548 (100.00%)

Total and % Population	42,125 (70.86%)	46,426 (78.09%)	33,548 (56.43%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 63 -- **59,381 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 63	59,381 (100.00%)	40,762 (100.00%)	45,043 (100.00%)	31,229 (100.00%)

Total and % Population	40,762 (68.64%)	45,043 (75.85%)	31,229 (52.59%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 64 -- **59,648 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 64	59,648 (100.00%)	28,870 (100.00%)	45,279 (100.00%)	22,748 (100.00%)

Total and % Population	28,870 (48.40%)	45,279 (75.91%)	22,748 (38.14%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 65 -- **59,240 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 61	18,248 (30.80%)	16,410 (44.92%)	13,883 (30.92%)	12,845 (45.16%)
Dist. 65	40,992 (69.20%)	20,124 (55.08%)	31,019 (69.08%)	15,596 (54.84%)

Total and % Population	36,534 (61.67%)	44,902 (75.80%)	28,441 (48.01%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 66 -- **58,961 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 61	5,407 (9.17%)	3,267 (10.37%)	3,980 (9.06%)	2,440 (10.31%)
Dist. 66	53,554 (90.83%)	28,252 (89.63%)	39,927 (90.94%)	21,217 (89.69%)

Total and % Population	31,519 (53.46%)	43,907 (74.47%)	23,657 (40.12%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 67 -- **59,135 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 67	59,135 (100.00%)	34,126 (100.00%)	44,299 (100.00%)	26,099 (100.00%)

Total and % Population	34,126 (57.71%)	44,299 (74.91%)	26,099 (44.13%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 68 -- **59,477 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 68	59,477 (100.00%)	32,830 (100.00%)	44,835 (100.00%)	24,994 (100.00%)

Total and % Population	32,830 (55.20%)	44,835 (75.38%)	24,994 (42.02%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District **58,358 Total Population**

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

69 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 69	58,358 (100.00%)	36,035 (100.00%)	45,310 (100.00%)	28,424 (100.00%)
Total and % Population		36,035 (61.75%)	45,310 (77.64%)	28,424 (48.71%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,081 Total Population

7 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 7	59,081 (100.00%)	239 (100.00%)	48,771 (100.00%)	302 (100.00%)
Total and % Population		239 (0.40%)	48,771 (82.55%)	302 (0.51%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,121 Total Population

70 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 70	59,121 (100.00%)	16,546 (100.00%)	45,249 (100.00%)	12,591 (100.00%)
Total and % Population		16,546 (27.99%)	45,249 (76.54%)	12,591 (21.30%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,538 Total Population

71 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 71	59,538 (100.00%)	11,406 (100.00%)	44,582 (100.00%)	8,879 (100.00%)
Total and % Population		11,406 (19.16%)	44,582 (74.88%)	8,879 (14.91%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,660 Total Population

72 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 72	59,660 (100.00%)	11,715 (100.00%)	46,229 (100.00%)	9,642 (100.00%)
Total and % Population		11,715 (19.64%)	46,229 (77.49%)	9,642 (16.16%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 60,036 Total Population

73 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 73	60,036 (100.00%)	6,889 (100.00%)	45,736 (100.00%)	5,538 (100.00%)
Total and % Population		6,889 (11.47%)	45,736 (76.18%)	5,538 (9.22%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 58,418 Total Population

74 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 74	58,418 (100.00%)	30,562 (100.00%)	43,602 (100.00%)	23,521 (100.00%)
Total and % Population		30,562 (52.32%)	43,602 (74.64%)	23,521 (40.26%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,759 Total Population

75 --

	Population	Black	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 75	59,759 (100.00%)	39,105 (100.00%)	44,983 (100.00%)	30,090 (100.00%)
Total and % Population		39,105 (65.44%)	44,983 (75.27%)	30,090 (50.35%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,759 Total Population****76 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 76	59,759 (100.00%)	38,838 (100.00%)	44,371 (100.00%)	29,832 (100.00%)
Total and % Population		38,838 (64.99%)	44,371 (74.25%)	29,832 (49.92%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,242 Total Population****77 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 77	59,242 (100.00%)	43,478 (100.00%)	44,207 (100.00%)	33,655 (100.00%)
Total and % Population		43,478 (73.39%)	44,207 (74.62%)	33,655 (56.81%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,890 Total Population****78 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 78	59,890 (100.00%)	30,741 (100.00%)	44,771 (100.00%)	22,848 (100.00%)
Total and % Population		30,741 (51.33%)	44,771 (74.76%)	22,848 (38.15%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,500 Total Population****79 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 79	59,500 (100.00%)	41,105 (100.00%)	43,223 (100.00%)	30,942 (100.00%)
Total and % Population		41,105 (69.08%)	43,223 (72.64%)	30,942 (52.00%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,244 Total Population****8 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 8	59,244 (100.00%)	687 (100.00%)	49,612 (100.00%)	708 (100.00%)
Total and % Population		687 (1.16%)	49,612 (83.74%)	708 (1.20%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,461 Total Population****80 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 80	59,461 (100.00%)	7,136 (100.00%)	44,784 (100.00%)	6,350 (100.00%)
Total and % Population		7,136 (12.00%)	44,784 (75.32%)	6,350 (10.68%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,007 Total Population****81 --**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 81	59,007 (100.00%)	11,262 (100.00%)	46,259 (100.00%)	10,099 (100.00%)
Total and % Population		11,262 (19.09%)	46,259 (78.40%)	10,099 (17.11%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 82 -- 59,724 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 82	59,724 (100.00%)	8,754 (100.00%)	50,238 (100.00%)	8,455 (100.00%)
Total and % Population		8,754 (14.66%)	50,238 (84.12%)	8,455 (14.16%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 83 -- 59,416 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 83	59,416 (100.00%)	7,395 (100.00%)	46,581 (100.00%)	7,044 (100.00%)
Total and % Population		7,395 (12.45%)	46,581 (78.40%)	7,044 (11.86%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 84 -- 59,862 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 84	59,862 (100.00%)	42,177 (100.00%)	47,350 (100.00%)	34,877 (100.00%)
Total and % Population		42,177 (70.46%)	47,350 (79.10%)	34,877 (58.26%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 85 -- 59,373 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 85	59,373 (100.00%)	36,156 (100.00%)	46,308 (100.00%)	29,041 (100.00%)
Total and % Population		36,156 (60.90%)	46,308 (78.00%)	29,041 (48.91%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 86 -- 59,205 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 86	59,205 (100.00%)	42,888 (100.00%)	44,614 (100.00%)	33,485 (100.00%)
Total and % Population		42,888 (72.44%)	44,614 (75.36%)	33,485 (56.56%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 87 -- 59,709 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 87	59,709 (100.00%)	42,343 (100.00%)	45,615 (100.00%)	33,336 (100.00%)
Total and % Population		42,343 (70.92%)	45,615 (76.40%)	33,336 (55.83%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 88 -- 59,689 Total Population

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 88	59,689 (100.00%)	36,654 (100.00%)	46,073 (100.00%)	29,187 (100.00%)
Total and % Population		36,654 (61.41%)	46,073 (77.19%)	29,187 (48.90%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 89 -- 59,866 Total Population

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 89	59,866 (100.00%)	36,081 (100.00%)	46,198 (100.00%)	28,890 (100.00%)
Total and % Population		36,081 (60.27%)	46,198 (77.17%)	28,890 (48.26%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 9 -- **59,474 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 9	59,474 (100.00%)	626 (100.00%)	48,273 (100.00%)	759 (100.00%)
Total and % Population		626 (1.05%)	48,273 (81.17%)	759 (1.28%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 90 -- **59,812 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 90	59,812 (100.00%)	34,506 (100.00%)	48,015 (100.00%)	28,082 (100.00%)
Total and % Population		34,506 (57.69%)	48,015 (80.28%)	28,082 (46.95%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 91 -- **59,956 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 91	59,956 (100.00%)	35,179 (100.00%)	45,999 (100.00%)	27,604 (100.00%)
Total and % Population		35,179 (58.67%)	45,999 (76.72%)	27,604 (46.04%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 92 -- **60,273 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 92	60,273 (100.00%)	41,170 (100.00%)	46,551 (100.00%)	32,022 (100.00%)
Total and % Population		41,170 (68.31%)	46,551 (77.23%)	32,022 (53.13%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 93 -- **60,118 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 93	60,118 (100.00%)	38,497 (100.00%)	44,734 (100.00%)	29,239 (100.00%)
Total and % Population		38,497 (64.04%)	44,734 (74.41%)	29,239 (48.64%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 94 -- **59,211 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 94	59,211 (100.00%)	39,560 (100.00%)	44,809 (100.00%)	30,935 (100.00%)
Total and % Population		39,560 (66.81%)	44,809 (75.68%)	30,935 (52.25%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 95 -- **60,030 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Blk]
Dist. 95	60,030 (100.00%)	39,566 (100.00%)	44,948 (100.00%)	30,183 (100.00%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Total and % Population	39,566 (65.91%)	44,948 (74.88%)	30,183 (50.28%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 96 -- **59,515 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 96	59,515 (100.00%)	12,683 (100.00%)	44,671 (100.00%)	10,273 (100.00%)

Total and % Population	12,683 (21.31%)	44,671 (75.06%)	10,273 (17.26%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 97 -- **59,072 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 97	59,072 (100.00%)	15,237 (100.00%)	46,339 (100.00%)	12,405 (100.00%)

Total and % Population	15,237 (25.79%)	46,339 (78.44%)	12,405 (21.00%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 98 -- **59,998 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 98	59,998 (100.00%)	12,140 (100.00%)	42,734 (100.00%)	9,934 (100.00%)

Total and % Population	12,140 (20.23%)	42,734 (71.23%)	9,934 (16.56%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 99 -- **59,850 Total Population**

	Population	Black	[18+_Pop]	[18+_AP_Bl]
Dist. 99	59,850 (100.00%)	8,257 (100.00%)	45,004 (100.00%)	6,622 (100.00%)

Total and % Population	8,257 (13.80%)	45,004 (75.19%)	6,622 (11.06%)
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EXHIBIT 15

User:

Plan Name: Grant_Esselstyn_Hse_illustrative12_05

Plan Type:

Core Constituencies

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

From Plan: **GA_House2021**

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 1 -- **59,666 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 001	59,666 (100.00%)	3,034 (100.00%)	46,801 (100.00%)	1,966 (100.00%)
Total and % Population		3,034 (5.08%)	46,801 (78.44%)	1,966 (3.30%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 10 -- **59,519 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 010	59,519 (100.00%)	2,287 (100.00%)	47,164 (100.00%)	1,757 (100.00%)
Total and % Population		2,287 (3.84%)	47,164 (79.24%)	1,757 (2.95%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 100 -- **60,030 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 100	60,030 (100.00%)	6,398 (100.00%)	42,669 (100.00%)	4,273 (100.00%)
Total and % Population		6,398 (10.66%)	42,669 (71.08%)	4,273 (7.12%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 101 -- **59,938 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 101	59,938 (100.00%)	15,380 (100.00%)	46,584 (100.00%)	11,269 (100.00%)
Total and % Population		15,380 (25.66%)	46,584 (77.72%)	11,269 (18.80%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 102 -- **58,959 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 102	58,959 (100.00%)	23,702 (100.00%)	42,968 (100.00%)	16,164 (100.00%)
Total and % Population		23,702 (40.20%)	42,968 (72.88%)	16,164 (27.42%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 103 -- **60,197 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 103	60,197 (100.00%)	10,628 (100.00%)	44,399 (100.00%)	7,454 (100.00%)
Total and % Population		10,628 (17.66%)	44,399 (73.76%)	7,454 (12.38%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 104 -- 59,362 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 104	59,362 (100.00%)	10,743 (100.00%)	43,306 (100.00%)	7,373 (100.00%)
Total and % Population		10,743 (18.10%)	43,306 (72.95%)	7,373 (12.42%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 105 -- 59,344 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 105	59,344 (100.00%)	18,444 (100.00%)	43,474 (100.00%)	12,628 (100.00%)
Total and % Population		18,444 (31.08%)	43,474 (73.26%)	12,628 (21.28%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 106 -- 59,112 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 106	59,112 (100.00%)	23,221 (100.00%)	43,890 (100.00%)	15,918 (100.00%)
Total and % Population		23,221 (39.28%)	43,890 (74.25%)	15,918 (26.93%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 107 -- 59,702 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 107	59,702 (100.00%)	18,372 (100.00%)	44,509 (100.00%)	13,186 (100.00%)
Total and % Population		18,372 (30.77%)	44,509 (74.55%)	13,186 (22.09%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 108 -- 59,577 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 108	59,577 (100.00%)	11,946 (100.00%)	44,308 (100.00%)	8,132 (100.00%)
Total and % Population		11,946 (20.05%)	44,308 (74.37%)	8,132 (13.65%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 109 -- 59,630 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 109	59,630 (100.00%)	19,592 (100.00%)	44,140 (100.00%)	14,352 (100.00%)
Total and % Population		19,592 (32.86%)	44,140 (74.02%)	14,352 (24.07%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 11 -- 58,792 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 011	58,792 (100.00%)	1,380 (100.00%)	45,396 (100.00%)	839 (100.00%)
Total and % Population		1,380 (2.35%)	45,396 (77.21%)	839 (1.43%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 110 -- 59,951 Total Population

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 110	59,951 (100.00%)	30,042 (100.00%)	43,226 (100.00%)	20,400 (100.00%)

Total and % Population		30,042 (50.11%)	43,226 (72.10%)	20,400 (34.03%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 111 -- 60,009 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 111	60,009 (100.00%)	14,572 (100.00%)	44,096 (100.00%)	9,828 (100.00%)

Total and % Population		14,572 (24.28%)	44,096 (73.48%)	9,828 (16.38%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 112 -- 59,349 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 112	59,349 (100.00%)	12,163 (100.00%)	45,120 (100.00%)	8,667 (100.00%)

Total and % Population		12,163 (20.49%)	45,120 (76.02%)	8,667 (14.60%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 113 -- 60,053 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 113	60,053 (100.00%)	37,002 (100.00%)	44,538 (100.00%)	26,515 (100.00%)

Total and % Population		37,002 (61.62%)	44,538 (74.16%)	26,515 (44.15%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 114 -- 59,867 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 114	59,867 (100.00%)	15,438 (100.00%)	45,872 (100.00%)	11,347 (100.00%)

Total and % Population		15,438 (25.79%)	45,872 (76.62%)	11,347 (18.95%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 115 -- 59,789 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 078	0 (0.00%)	0 (0.00%)	(0.00%)	(0.00%)
Dist. 091	24,083 (40.28%)	14,148 (42.08%)	18,236 (40.34%)	10,357 (42.60%)

Dist. 115	13,110 (21.93%)	5,752 (17.11%)	9,710 (21.48%)	3,916 (16.11%)
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Dist. 116	22,596 (37.79%)	13,718 (40.81%)	17,261 (38.18%)	10,037 (41.29%)
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Total and % Population		33,618 (56.23%)	45,207 (75.61%)	24,310 (40.66%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 116 -- 60,380 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 115	4,546 (7.53%)	1,729 (5.20%)	3,472 (7.47%)	1,186 (4.91%)
Dist. 116	37,317 (61.80%)	22,748 (68.44%)	28,530 (61.42%)	16,579 (68.70%)

Dist. 117	18,517 (30.67%)	8,759 (26.35%)	14,447 (31.10%)	6,366 (26.38%)
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Total and % Population		33,236 (55.04%)	46,449 (76.93%)	24,131 (39.97%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 117 -- 60,142 Total Population

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 115	32,945 (54.78%)	22,227 (68.48%)	24,279 (55.07%)	15,691 (69.03%)
Dist. 117	27,197 (45.22%)	10,231 (31.52%)	19,810 (44.93%)	7,041 (30.97%)
Total and % Population		32,458 (53.97%)	44,089 (73.31%)	22,732 (37.80%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 118 -- **59,987 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 118	59,987 (100.00%)	14,495 (100.00%)	46,342 (100.00%)	10,937 (100.00%)
Total and % Population		14,495 (24.16%)	46,342 (77.25%)	10,937 (18.23%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 119 -- **58,947 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 119	58,947 (100.00%)	8,530 (100.00%)	44,005 (100.00%)	5,935 (100.00%)
Total and % Population		8,530 (14.47%)	44,005 (74.65%)	5,935 (10.07%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 12 -- **59,300 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 012	59,300 (100.00%)	6,046 (100.00%)	46,487 (100.00%)	4,498 (100.00%)
Total and % Population		6,046 (10.20%)	46,487 (78.39%)	4,498 (7.59%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 120 -- **58,982 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 120	58,982 (100.00%)	8,868 (100.00%)	46,767 (100.00%)	6,679 (100.00%)
Total and % Population		8,868 (15.04%)	46,767 (79.29%)	6,679 (11.32%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 121 -- **59,127 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 121	59,127 (100.00%)	5,888 (100.00%)	46,598 (100.00%)	4,454 (100.00%)
Total and % Population		5,888 (9.96%)	46,598 (78.81%)	4,454 (7.53%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 122 -- **59,632 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 122	59,632 (100.00%)	19,281 (100.00%)	48,840 (100.00%)	13,878 (100.00%)
Total and % Population		19,281 (32.33%)	48,840 (81.90%)	13,878 (23.27%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 123 -- **59,282 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 123	59,282 (100.00%)	15,012 (100.00%)	46,572 (100.00%)	11,307 (100.00%)
Total and % Population		15,012 (25.32%)	46,572 (78.56%)	11,307 (19.07%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 124 -- 59,221 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 124	59,221 (100.00%)	16,349 (100.00%)	47,638 (100.00%)	12,186 (100.00%)
Total and % Population		16,349 (27.61%)	47,638 (80.44%)	12,186 (20.58%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 125 -- 60,137 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 125	60,137 (100.00%)	15,255 (100.00%)	43,812 (100.00%)	10,376 (100.00%)
Total and % Population		15,255 (25.37%)	43,812 (72.85%)	10,376 (17.25%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 126 -- 59,260 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 126	59,260 (100.00%)	33,452 (100.00%)	45,497 (100.00%)	24,782 (100.00%)
Total and % Population		33,452 (56.45%)	45,497 (76.78%)	24,782 (41.82%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 127 -- 58,678 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 127	58,678 (100.00%)	11,540 (100.00%)	45,889 (100.00%)	8,500 (100.00%)
Total and % Population		11,540 (19.67%)	45,889 (78.20%)	8,500 (14.49%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 128 -- 58,864 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 128	58,864 (100.00%)	30,904 (100.00%)	46,488 (100.00%)	23,434 (100.00%)
Total and % Population		30,904 (52.50%)	46,488 (78.98%)	23,434 (39.81%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 129 -- 58,829 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 129	58,829 (100.00%)	34,245 (100.00%)	46,873 (100.00%)	25,717 (100.00%)
Total and % Population		34,245 (58.21%)	46,873 (79.68%)	25,717 (43.71%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 13 -- 59,150 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 013	59,150 (100.00%)	12,212 (100.00%)	45,176 (100.00%)	8,665 (100.00%)
Total and % Population		12,212 (20.65%)	45,176 (76.38%)	8,665 (14.65%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 130 -- 59,203 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 130	59,203 (100.00%)	37,564 (100.00%)	44,019 (100.00%)	26,372 (100.00%)
Total and % Population		37,564 (63.45%)	44,019 (74.35%)	26,372 (44.55%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 131 -- 58,890 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 131	58,890 (100.00%)	11,142 (100.00%)	42,968 (100.00%)	7,572 (100.00%)
Total and % Population		11,142 (18.92%)	42,968 (72.96%)	7,572 (12.86%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 132 -- 59,142 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 132	59,142 (100.00%)	32,680 (100.00%)	46,752 (100.00%)	24,471 (100.00%)
Total and % Population		32,680 (55.26%)	46,752 (79.05%)	24,471 (41.38%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 133 -- 59,768 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 133	32,897 (55.04%)	9,360 (58.91%)	25,572 (55.12%)	7,044 (58.15%)
Dist. 134	9,272 (15.51%)	1,222 (7.69%)	7,126 (15.36%)	905 (7.47%)
Dist. 144	17,599 (29.45%)	5,306 (33.40%)	13,698 (29.52%)	4,165 (34.38%)
Total and % Population		15,888 (26.58%)	46,396 (77.63%)	12,114 (20.27%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 134 -- 59,046 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 134	50,124 (84.89%)	20,212 (85.50%)	37,984 (84.69%)	14,238 (84.86%)
Dist. 135	8,922 (15.11%)	3,428 (14.50%)	6,864 (15.31%)	2,541 (15.14%)
Total and % Population		23,640 (40.04%)	44,848 (75.95%)	16,779 (28.42%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 135 -- 60,013 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 135	51,141 (85.22%)	11,206 (90.31%)	39,861 (84.90%)	8,557 (89.55%)
Dist. 144	7,685 (12.81%)	930 (7.49%)	6,125 (13.05%)	771 (8.07%)
Dist. 145	1,187 (1.98%)	273 (2.20%)	962 (2.05%)	228 (2.39%)
Total and % Population		12,409 (20.68%)	46,948 (78.23%)	9,556 (15.92%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 136 -- 59,298 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 136	59,298 (100.00%)	17,530 (100.00%)	45,367 (100.00%)	13,005 (100.00%)
Total and % Population		17,530 (29.56%)	45,367 (76.51%)	13,005 (21.93%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 137 -- 59,551 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 137	59,551 (100.00%)	32,252 (100.00%)	45,358 (100.00%)	23,647 (100.00%)
Total and % Population		32,252 (54.16%)	45,358 (76.17%)	23,647 (39.71%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 138 -- 58,912 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 138	58,912 (100.00%)	12,072 (100.00%)	45,684 (100.00%)	8,824 (100.00%)
Total and % Population		12,072 (20.49%)	45,684 (77.55%)	8,824 (14.98%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 139 -- 59,010 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 139	59,010 (100.00%)	12,846 (100.00%)	45,522 (100.00%)	9,227 (100.00%)
Total and % Population		12,846 (21.77%)	45,522 (77.14%)	9,227 (15.64%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 14 -- 59,135 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 014	59,135 (100.00%)	4,338 (100.00%)	45,511 (100.00%)	3,117 (100.00%)
Total and % Population		4,338 (7.34%)	45,511 (76.96%)	3,117 (5.27%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 140 -- 59,294 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 140	59,294 (100.00%)	35,460 (100.00%)	44,411 (100.00%)	25,596 (100.00%)
Total and % Population		35,460 (59.80%)	44,411 (74.90%)	25,596 (43.17%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 141 -- 59,019 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 141	59,019 (100.00%)	34,760 (100.00%)	44,677 (100.00%)	25,672 (100.00%)
Total and % Population		34,760 (58.90%)	44,677 (75.70%)	25,672 (43.50%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 142 -- 59,320 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 142	31,394 (52.92%)	19,847 (62.51%)	23,393 (51.74%)	13,910 (61.36%)
Dist. 143	6,131 (10.34%)	4,549 (14.33%)	4,681 (10.35%)	3,405 (15.02%)
Dist. 144	17,474 (29.46%)	6,231 (19.63%)	13,757 (30.43%)	4,483 (19.78%)
Dist. 145	4,321 (7.28%)	1,122 (3.53%)	3,381 (7.48%)	871 (3.84%)
Total and % Population		31,749 (53.52%)	45,212 (76.22%)	22,669 (38.21%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 143 -- 59,122 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 142	23,599 (39.92%)	13,835 (43.21%)	17,877 (39.02%)	9,850 (42.46%)
Dist. 143	19,049 (32.22%)	12,329 (38.51%)	15,144 (33.06%)	9,171 (39.53%)
Dist. 144	16,474 (27.86%)	5,852 (18.28%)	12,790 (27.92%)	4,179 (18.01%)
Total and % Population		32,016 (54.15%)	45,811 (77.49%)	23,200 (39.24%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 144 -- 58,533 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 145	26,223 (44.80%)	5,767 (37.76%)	20,815 (46.40%)	4,416 (39.46%)
Dist. 146	24,398 (41.68%)	7,604 (49.79%)	18,486 (41.20%)	5,419 (48.43%)
Dist. 147	7,912 (13.52%)	1,902 (12.45%)	5,563 (12.40%)	1,355 (12.11%)
Total and % Population		15,273 (26.09%)	44,864 (76.65%)	11,190 (19.12%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 145 -- 59,668 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 142	4,615 (7.73%)	3,933 (12.26%)	3,314 (7.44%)	2,776 (12.37%)
Dist. 143	18,101 (30.34%)	8,918 (27.80%)	13,860 (31.11%)	6,396 (28.50%)
Dist. 145	28,132 (47.15%)	15,749 (49.10%)	20,686 (46.44%)	10,838 (48.29%)
Dist. 146	0 (0.00%)	0 (0.00%)	(0.00%)	(0.00%)
Dist. 147	8,820 (14.78%)	3,478 (10.84%)	6,687 (15.01%)	2,433 (10.84%)
Total and % Population		32,078 (53.76%)	44,547 (74.66%)	22,443 (37.61%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 146 -- 59,197 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 146	19,684 (33.25%)	4,395 (29.39%)	14,332 (32.08%)	3,062 (28.11%)
Dist. 148	26,930 (45.49%)	7,610 (50.88%)	20,732 (46.40%)	5,793 (53.19%)
Dist. 149	12,583 (21.26%)	2,951 (19.73%)	9,613 (21.52%)	2,036 (18.69%)
Total and % Population		14,956 (25.26%)	44,677 (75.47%)	10,891 (18.40%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 147 -- 58,567 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 146	16,121 (27.53%)	5,691 (29.34%)	11,771 (26.50%)	3,831 (28.23%)
Dist. 147	42,446 (72.47%)	13,706 (70.66%)	32,652 (73.50%)	9,738 (71.77%)
Total and % Population		19,397 (33.12%)	44,423 (75.85%)	13,569 (23.17%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 148 -- 59,887 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 148	33,054 (55.19%)	13,591 (58.33%)	25,882 (54.54%)	10,065 (56.85%)
Dist. 149	26,833 (44.81%)	9,708 (41.67%)	21,576 (45.46%)	7,638 (43.15%)
Total and % Population		23,299 (38.90%)	47,458 (79.25%)	17,703 (29.56%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 149 -- 59,392 Total Population

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 133	26,305 (44.29%)	13,453 (41.70%)	21,650 (45.13%)	10,314 (41.72%)
Dist. 143	16,188 (27.26%)	12,249 (37.97%)	12,705 (26.49%)	9,229 (37.34%)
Dist. 149	16,899 (28.45%)	6,556 (20.32%)	13,615 (28.38%)	5,176 (20.94%)
Total and % Population		32,258 (54.31%)	47,970 (80.77%)	24,719 (41.62%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 15 -- **59,213 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 015	59,213 (100.00%)	9,352 (100.00%)	45,791 (100.00%)	6,500 (100.00%)
Total and % Population		9,352 (15.79%)	45,791 (77.33%)	6,500 (10.98%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 150 -- **59,276 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 150	59,276 (100.00%)	32,464 (100.00%)	47,050 (100.00%)	25,202 (100.00%)
Total and % Population		32,464 (54.77%)	47,050 (79.37%)	25,202 (42.52%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 151 -- **60,059 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 151	60,059 (100.00%)	26,527 (100.00%)	46,973 (100.00%)	19,920 (100.00%)
Total and % Population		26,527 (44.17%)	46,973 (78.21%)	19,920 (33.17%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 152 -- **60,134 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 152	60,134 (100.00%)	16,354 (100.00%)	46,026 (100.00%)	11,993 (100.00%)
Total and % Population		16,354 (27.20%)	46,026 (76.54%)	11,993 (19.94%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 153 -- **59,299 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 153	59,299 (100.00%)	42,183 (100.00%)	45,692 (100.00%)	31,047 (100.00%)
Total and % Population		42,183 (71.14%)	45,692 (77.05%)	31,047 (52.36%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 154 -- **59,994 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 154	59,994 (100.00%)	34,272 (100.00%)	47,273 (100.00%)	25,914 (100.00%)
Total and % Population		34,272 (57.13%)	47,273 (78.80%)	25,914 (43.19%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 155 -- **60,134 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 149	1,375 (2.29%)	138 (0.62%)	1,088 (2.35%)	100 (0.61%)
Dist. 155	58,759 (97.71%)	22,256 (99.38%)	45,208 (97.65%)	16,208 (99.39%)
Total and % Population		22,394 (37.24%)	46,296 (76.99%)	16,308 (27.12%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 156 -- 60,647 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 149	1,203 (1.98%)	135 (0.72%)	929 (1.99%)	101 (0.72%)
Dist. 156	59,444 (98.02%)	18,600 (99.28%)	45,867 (98.01%)	13,875 (99.28%)
Total and % Population		18,735 (30.89%)	46,796 (77.16%)	13,976 (23.04%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 157 -- 59,957 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 157	59,957 (100.00%)	15,118 (100.00%)	45,311 (100.00%)	11,176 (100.00%)
Total and % Population		15,118 (25.21%)	45,311 (75.57%)	11,176 (18.64%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 158 -- 59,440 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 158	59,440 (100.00%)	19,656 (100.00%)	45,549 (100.00%)	14,209 (100.00%)
Total and % Population		19,656 (33.07%)	45,549 (76.63%)	14,209 (23.90%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 159 -- 59,895 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 159	59,895 (100.00%)	15,307 (100.00%)	44,871 (100.00%)	10,995 (100.00%)
Total and % Population		15,307 (25.56%)	44,871 (74.92%)	10,995 (18.36%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 16 -- 59,402 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 016	59,402 (100.00%)	7,581 (100.00%)	44,009 (100.00%)	5,146 (100.00%)
Total and % Population		7,581 (12.76%)	44,009 (74.09%)	5,146 (8.66%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 160 -- 59,935 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 160	59,935 (100.00%)	14,170 (100.00%)	48,057 (100.00%)	10,859 (100.00%)
Total and % Population		14,170 (23.64%)	48,057 (80.18%)	10,859 (18.12%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 161 -- 60,097 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 161	60,097 (100.00%)	17,350 (100.00%)	44,371 (100.00%)	12,042 (100.00%)
Total and % Population		17,350 (28.87%)	44,371 (73.83%)	12,042 (20.04%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 162 -- 60,308 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 162	60,308 (100.00%)	28,142 (100.00%)	46,733 (100.00%)	20,435 (100.00%)
Total and % Population		28,142 (46.66%)	46,733 (77.49%)	20,435 (33.88%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 163 -- 60,123 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 163	60,123 (100.00%)	29,099 (100.00%)	48,461 (100.00%)	22,045 (100.00%)
Total and % Population		29,099 (48.40%)	48,461 (80.60%)	22,045 (36.67%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 164 -- 60,101 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 164	60,101 (100.00%)	15,067 (100.00%)	45,851 (100.00%)	10,760 (100.00%)
Total and % Population		15,067 (25.07%)	45,851 (76.29%)	10,760 (17.90%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 165 -- 59,978 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 165	59,978 (100.00%)	32,897 (100.00%)	48,247 (100.00%)	24,282 (100.00%)
Total and % Population		32,897 (54.85%)	48,247 (80.44%)	24,282 (40.48%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 166 -- 60,242 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 166	60,242 (100.00%)	3,647 (100.00%)	47,580 (100.00%)	2,698 (100.00%)
Total and % Population		3,647 (6.05%)	47,580 (78.98%)	2,698 (4.48%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 167 -- 59,493 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 167	59,493 (100.00%)	14,236 (100.00%)	44,140 (100.00%)	9,835 (100.00%)
Total and % Population		14,236 (23.93%)	44,140 (74.19%)	9,835 (16.53%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 168 -- 60,147 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 168	60,147 (100.00%)	29,540 (100.00%)	44,867 (100.00%)	20,757 (100.00%)
Total and % Population		29,540 (49.11%)	44,867 (74.60%)	20,757 (34.51%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 169 -- 59,138 Total Population

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 169	59,138 (100.00%)	17,964 (100.00%)	45,267 (100.00%)	13,147 (100.00%)

Total and % Population		17,964 (30.38%)	45,267 (76.54%)	13,147 (22.23%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 17 -- 59,120 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 017	59,120 (100.00%)	14,783 (100.00%)	42,761 (100.00%)	9,843 (100.00%)

Total and % Population		14,783 (25.01%)	42,761 (72.33%)	9,843 (16.65%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 170 -- 60,116 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 170	60,116 (100.00%)	15,658 (100.00%)	45,316 (100.00%)	10,976 (100.00%)

Total and % Population		15,658 (26.05%)	45,316 (75.38%)	10,976 (18.26%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 171 -- 59,237 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 171	59,237 (100.00%)	24,411 (100.00%)	45,969 (100.00%)	18,202 (100.00%)

Total and % Population		24,411 (41.21%)	45,969 (77.60%)	18,202 (30.73%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 172 -- 59,961 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 172	59,961 (100.00%)	14,794 (100.00%)	44,756 (100.00%)	10,439 (100.00%)

Total and % Population		14,794 (24.67%)	44,756 (74.64%)	10,439 (17.41%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 173 -- 59,743 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 173	59,743 (100.00%)	22,609 (100.00%)	45,292 (100.00%)	16,428 (100.00%)

Total and % Population		22,609 (37.84%)	45,292 (75.81%)	16,428 (27.50%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 174 -- 59,852 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 174	59,852 (100.00%)	11,260 (100.00%)	45,760 (100.00%)	7,950 (100.00%)

Total and % Population		11,260 (18.81%)	45,760 (76.46%)	7,950 (13.28%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 175 -- 59,993 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 175	59,993 (100.00%)	15,333 (100.00%)	44,704 (100.00%)	10,805 (100.00%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Total and % Population	15,333 (25.56%)	44,704 (74.52%)	10,805 (18.01%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 176 -- **59,470 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 176	59,470 (100.00%)	14,031 (100.00%)	44,991 (100.00%)	10,206 (100.00%)

Total and % Population	14,031 (23.59%)	44,991 (75.65%)	10,206 (17.16%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 177 -- **59,992 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 177	59,992 (100.00%)	34,510 (100.00%)	46,014 (100.00%)	24,793 (100.00%)

Total and % Population	34,510 (57.52%)	46,014 (76.70%)	24,793 (41.33%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 178 -- **59,877 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 178	59,877 (100.00%)	9,525 (100.00%)	45,638 (100.00%)	6,750 (100.00%)

Total and % Population	9,525 (15.91%)	45,638 (76.22%)	6,750 (11.27%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 179 -- **59,356 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 179	59,356 (100.00%)	18,047 (100.00%)	47,156 (100.00%)	12,745 (100.00%)

Total and % Population	18,047 (30.40%)	47,156 (79.45%)	12,745 (21.47%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 18 -- **59,335 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 018	59,335 (100.00%)	5,118 (100.00%)	45,159 (100.00%)	3,604 (100.00%)

Total and % Population	5,118 (8.63%)	45,159 (76.11%)	3,604 (6.07%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 180 -- **59,412 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 180	59,412 (100.00%)	11,721 (100.00%)	45,362 (100.00%)	8,261 (100.00%)

Total and % Population	11,721 (19.73%)	45,362 (76.35%)	8,261 (13.90%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 19 -- **58,955 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 019	58,955 (100.00%)	15,550 (100.00%)	44,299 (100.00%)	10,697 (100.00%)

Total and % Population	15,550 (26.38%)	44,299 (75.14%)	10,697 (18.14%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,773 Total Population**

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

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	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 002	59,773 (100.00%)	2,173 (100.00%)	46,159 (100.00%)	1,456 (100.00%)
Total and % Population		2,173 (3.64%)	46,159 (77.22%)	1,456 (2.44%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 20 -- 60,107 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 020	60,107 (100.00%)	5,973 (100.00%)	45,725 (100.00%)	4,230 (100.00%)
Total and % Population		5,973 (9.94%)	45,725 (76.07%)	4,230 (7.04%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 21 -- 59,529 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 021	59,529 (100.00%)	3,350 (100.00%)	44,931 (100.00%)	2,272 (100.00%)
Total and % Population		3,350 (5.63%)	44,931 (75.48%)	2,272 (3.82%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 22 -- 59,460 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 022	59,460 (100.00%)	9,890 (100.00%)	45,815 (100.00%)	6,918 (100.00%)
Total and % Population		9,890 (16.63%)	45,815 (77.05%)	6,918 (11.63%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 23 -- 59,048 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 023	59,048 (100.00%)	4,250 (100.00%)	44,254 (100.00%)	2,878 (100.00%)
Total and % Population		4,250 (7.20%)	44,254 (74.95%)	2,878 (4.87%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 24 -- 59,011 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 024	59,011 (100.00%)	4,313 (100.00%)	41,814 (100.00%)	2,926 (100.00%)
Total and % Population		4,313 (7.31%)	41,814 (70.86%)	2,926 (4.96%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 25 -- 59,414 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 025	59,414 (100.00%)	3,606 (100.00%)	42,520 (100.00%)	2,507 (100.00%)
Total and % Population		3,606 (6.07%)	42,520 (71.57%)	2,507 (4.22%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 26 -- 59,248 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 026	59,248 (100.00%)	3,606 (100.00%)	42,520 (100.00%)	2,507 (100.00%)
Total and % Population		3,606 (6.07%)	42,520 (71.57%)	2,507 (4.22%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 026	59,248 (100.00%)	2,646 (100.00%)	44,081 (100.00%)	1,767 (100.00%)
Total and % Population		2,646 (4.47%)	44,081 (74.40%)	1,767 (2.98%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 27 -- 58,795 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 027	58,795 (100.00%)	2,589 (100.00%)	46,004 (100.00%)	1,698 (100.00%)
Total and % Population		2,589 (4.40%)	46,004 (78.24%)	1,698 (2.89%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 28 -- 58,972 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 028	58,972 (100.00%)	2,686 (100.00%)	44,444 (100.00%)	1,747 (100.00%)
Total and % Population		2,686 (4.55%)	44,444 (75.36%)	1,747 (2.96%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 29 -- 59,200 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 029	59,200 (100.00%)	8,132 (100.00%)	43,131 (100.00%)	5,861 (100.00%)
Total and % Population		8,132 (13.74%)	43,131 (72.86%)	5,861 (9.90%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 3 -- 60,199 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 003	60,199 (100.00%)	2,463 (100.00%)	46,716 (100.00%)	1,565 (100.00%)
Total and % Population		2,463 (4.09%)	46,716 (77.60%)	1,565 (2.60%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 30 -- 59,266 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 030	59,266 (100.00%)	5,186 (100.00%)	45,414 (100.00%)	3,678 (100.00%)
Total and % Population		5,186 (8.75%)	45,414 (76.63%)	3,678 (6.21%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 31 -- 59,901 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 031	59,901 (100.00%)	4,770 (100.00%)	43,120 (100.00%)	3,265 (100.00%)
Total and % Population		4,770 (7.96%)	43,120 (71.99%)	3,265 (5.45%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 32 -- 59,145 Total Population

	Population	AP_Bl	[18+_Pop]	[18+_AP_Bl]
Dist. 032	59,145 (100.00%)	5,252 (100.00%)	45,942 (100.00%)	3,659 (100.00%)
Total and % Population		5,252 (8.88%)	45,942 (77.68%)	3,659 (6.19%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,187 Total Population****33 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 033	59,187 (100.00%)	7,322 (100.00%)	46,498 (100.00%)	5,207 (100.00%)
Total and % Population		7,322 (12.37%)	46,498 (78.56%)	5,207 (8.80%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,875 Total Population****34 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 034	59,875 (100.00%)	10,102 (100.00%)	45,758 (100.00%)	7,169 (100.00%)
Total and % Population		10,102 (16.87%)	45,758 (76.42%)	7,169 (11.97%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,889 Total Population****35 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 035	59,889 (100.00%)	18,210 (100.00%)	48,312 (100.00%)	13,722 (100.00%)
Total and % Population		18,210 (30.41%)	48,312 (80.67%)	13,722 (22.91%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,994 Total Population****36 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 036	59,994 (100.00%)	11,055 (100.00%)	44,911 (100.00%)	7,626 (100.00%)
Total and % Population		11,055 (18.43%)	44,911 (74.86%)	7,626 (12.71%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,176 Total Population****37 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 037	59,176 (100.00%)	17,171 (100.00%)	46,223 (100.00%)	13,027 (100.00%)
Total and % Population		17,171 (29.02%)	46,223 (78.11%)	13,027 (22.01%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,317 Total Population****38 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 038	59,317 (100.00%)	33,760 (100.00%)	44,839 (100.00%)	24,318 (100.00%)
Total and % Population		33,760 (56.91%)	44,839 (75.59%)	24,318 (41.00%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,381 Total Population****39 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 039	59,381 (100.00%)	33,016 (100.00%)	44,436 (100.00%)	24,569 (100.00%)
Total and % Population		33,016 (55.60%)	44,436 (74.83%)	24,569 (41.38%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,070 Total Population****4 --**

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 004	59,070 (100.00%)	3,264 (100.00%)	42,798 (100.00%)	2,303 (100.00%)

Total and % Population		3,264 (5.53%)	42,798 (72.45%)	2,303 (3.90%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 40 -- **59,044 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 040	59,044 (100.00%)	20,179 (100.00%)	47,976 (100.00%)	15,821 (100.00%)

Total and % Population		20,179 (34.18%)	47,976 (81.25%)	15,821 (26.80%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 41 -- **60,122 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 041	60,122 (100.00%)	23,846 (100.00%)	45,271 (100.00%)	17,816 (100.00%)

Total and % Population		23,846 (39.66%)	45,271 (75.30%)	17,816 (29.63%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 42 -- **59,620 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 042	59,620 (100.00%)	20,726 (100.00%)	48,525 (100.00%)	16,353 (100.00%)

Total and % Population		20,726 (34.76%)	48,525 (81.39%)	16,353 (27.43%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 43 -- **59,464 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 043	59,464 (100.00%)	16,346 (100.00%)	47,033 (100.00%)	12,476 (100.00%)

Total and % Population		16,346 (27.49%)	47,033 (79.09%)	12,476 (20.98%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 44 -- **60,002 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 044	60,002 (100.00%)	7,990 (100.00%)	46,773 (100.00%)	5,635 (100.00%)

Total and % Population		7,990 (13.32%)	46,773 (77.95%)	5,635 (9.39%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 45 -- **59,738 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 045	59,738 (100.00%)	3,303 (100.00%)	44,023 (100.00%)	2,324 (100.00%)

Total and % Population		3,303 (5.53%)	44,023 (73.69%)	2,324 (3.89%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 46 -- **59,108 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 046	59,108 (100.00%)	5,077 (100.00%)	44,132 (100.00%)	3,560 (100.00%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Total and % Population	5,077 (8.59%)	44,132 (74.66%)	3,560 (6.02%)
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Plan: Grant_Esselstyn_Hse_illustrative12_05, District 47 -- **59,126 Total Population**

	Population	AP_Blak	[18+_Pop]	[18+_AP_Blak]
Dist. 047	59,126 (100.00%)	6,590 (100.00%)	43,932 (100.00%)	4,709 (100.00%)
Total and % Population		6,590 (11.15%)	43,932 (74.30%)	4,709 (7.96%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 48 -- **59,003 Total Population**

	Population	AP_Blak	[18+_Pop]	[18+_AP_Blak]
Dist. 048	59,003 (100.00%)	7,216 (100.00%)	44,779 (100.00%)	5,279 (100.00%)
Total and % Population		7,216 (12.23%)	44,779 (75.89%)	5,279 (8.95%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 49 -- **59,153 Total Population**

	Population	AP_Blak	[18+_Pop]	[18+_AP_Blak]
Dist. 049	59,153 (100.00%)	5,234 (100.00%)	45,263 (100.00%)	3,813 (100.00%)
Total and % Population		5,234 (8.85%)	45,263 (76.52%)	3,813 (6.45%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 5 -- **58,837 Total Population**

	Population	AP_Blak	[18+_Pop]	[18+_AP_Blak]
Dist. 005	58,837 (100.00%)	3,082 (100.00%)	44,623 (100.00%)	2,051 (100.00%)
Total and % Population		3,082 (5.24%)	44,623 (75.84%)	2,051 (3.49%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 50 -- **59,523 Total Population**

	Population	AP_Blak	[18+_Pop]	[18+_AP_Blak]
Dist. 050	59,523 (100.00%)	7,763 (100.00%)	43,940 (100.00%)	5,450 (100.00%)
Total and % Population		7,763 (13.04%)	43,940 (73.82%)	5,450 (9.16%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 51 -- **58,952 Total Population**

	Population	AP_Blak	[18+_Pop]	[18+_AP_Blak]
Dist. 051	58,952 (100.00%)	14,766 (100.00%)	47,262 (100.00%)	11,193 (100.00%)
Total and % Population		14,766 (25.05%)	47,262 (80.17%)	11,193 (18.99%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 52 -- **59,811 Total Population**

	Population	AP_Blak	[18+_Pop]	[18+_AP_Blak]
Dist. 052	59,811 (100.00%)	9,461 (100.00%)	48,525 (100.00%)	7,758 (100.00%)
Total and % Population		9,461 (15.82%)	48,525 (81.13%)	7,758 (12.97%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District **59,953 Total Population**

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

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	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 053	59,953 (100.00%)	8,685 (100.00%)	46,944 (100.00%)	6,819 (100.00%)
Total and % Population		8,685 (14.49%)	46,944 (78.30%)	6,819 (11.37%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 60,083 Total Population

54 --

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 054	60,083 (100.00%)	9,048 (100.00%)	50,338 (100.00%)	7,789 (100.00%)
Total and % Population		9,048 (15.06%)	50,338 (83.78%)	7,789 (12.96%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,971 Total Population

55 --

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 055	59,971 (100.00%)	34,374 (100.00%)	49,255 (100.00%)	27,279 (100.00%)
Total and % Population		34,374 (57.32%)	49,255 (82.13%)	27,279 (45.49%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 58,929 Total Population

56 --

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 056	58,929 (100.00%)	29,016 (100.00%)	52,757 (100.00%)	23,993 (100.00%)
Total and % Population		29,016 (49.24%)	52,757 (89.53%)	23,993 (40.72%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,969 Total Population

57 --

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 057	59,969 (100.00%)	10,691 (100.00%)	52,097 (100.00%)	9,411 (100.00%)
Total and % Population		10,691 (17.83%)	52,097 (86.87%)	9,411 (15.69%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,057 Total Population

58 --

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 058	59,057 (100.00%)	39,036 (100.00%)	50,514 (100.00%)	31,845 (100.00%)
Total and % Population		39,036 (66.10%)	50,514 (85.53%)	31,845 (53.92%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,434 Total Population

59 --

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 059	59,434 (100.00%)	43,468 (100.00%)	49,179 (100.00%)	34,470 (100.00%)
Total and % Population		43,468 (73.14%)	49,179 (82.75%)	34,470 (58.00%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,712 Total Population

6 --

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 006	59,712 (100.00%)	1,125 (100.00%)	45,152 (100.00%)	682 (100.00%)
Total and % Population		1,125 (1.88%)	45,152 (75.62%)	682 (1.14%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 60 -- **59,709 Total Population**

	Population	AP_BlK	[18+_Pop]	[18+_AP_BlK]
Dist. 060	59,709 (100.00%)	38,562 (100.00%)	45,490 (100.00%)	29,061 (100.00%)
Total and % Population		38,562 (64.58%)	45,490 (76.19%)	29,061 (48.67%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 61 -- **58,950 Total Population**

	Population	AP_BlK	[18+_Pop]	[18+_AP_BlK]
Dist. 061	535 (0.91%)	524 (1.60%)	427 (0.97%)	419 (1.77%)
Dist. 064	19,083 (32.37%)	6,415 (19.61%)	14,390 (32.55%)	4,491 (18.99%)
Dist. 065	23,652 (40.12%)	18,848 (57.60%)	17,339 (39.22%)	13,637 (57.66%)
Dist. 066	15,680 (26.60%)	6,934 (21.19%)	12,056 (27.27%)	5,104 (21.58%)
Total and % Population		32,721 (55.51%)	44,212 (75.00%)	23,651 (40.12%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 62 -- **59,450 Total Population**

	Population	AP_BlK	[18+_Pop]	[18+_AP_BlK]
Dist. 062	59,450 (100.00%)	43,732 (100.00%)	46,426 (100.00%)	33,548 (100.00%)
Total and % Population		43,732 (73.56%)	46,426 (78.09%)	33,548 (56.43%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 63 -- **59,381 Total Population**

	Population	AP_BlK	[18+_Pop]	[18+_AP_BlK]
Dist. 063	59,381 (100.00%)	42,146 (100.00%)	45,043 (100.00%)	31,229 (100.00%)
Total and % Population		42,146 (70.98%)	45,043 (75.85%)	31,229 (52.59%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 64 -- **59,648 Total Population**

	Population	AP_BlK	[18+_Pop]	[18+_AP_BlK]
Dist. 061	36,238 (60.75%)	22,486 (73.84%)	27,950 (61.73%)	17,117 (75.25%)
Dist. 064	23,410 (39.25%)	7,965 (26.16%)	17,329 (38.27%)	5,631 (24.75%)
Total and % Population		30,451 (51.05%)	45,279 (75.91%)	22,748 (38.14%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 65 -- **59,240 Total Population**

	Population	AP_BlK	[18+_Pop]	[18+_AP_BlK]
Dist. 061	22,529 (38.03%)	21,525 (56.68%)	17,070 (38.02%)	16,226 (57.05%)
Dist. 064	6,306 (10.64%)	1,076 (2.83%)	4,765 (10.61%)	781 (2.75%)
Dist. 065	30,405 (51.33%)	15,374 (40.48%)	23,067 (51.37%)	11,434 (40.20%)
Total and % Population		37,975 (64.10%)	44,902 (75.80%)	28,441 (48.01%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 66 -- **58,961 Total Population**

	Population	AP_BlK	[18+_Pop]	[18+_AP_BlK]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 064	10,187 (17.28%)	3,744 (11.18%)	7,705 (17.55%)	2,674 (11.30%)
Dist. 065	5,407 (9.17%)	3,480 (10.39%)	3,980 (9.06%)	2,440 (10.31%)
Dist. 066	43,367 (73.55%)	26,276 (78.44%)	32,222 (73.39%)	18,543 (78.38%)
Total and % Population		33,500 (56.82%)	43,907 (74.47%)	23,657 (40.12%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 67 -- 59,135 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 067	59,135 (100.00%)	35,438 (100.00%)	44,299 (100.00%)	26,099 (100.00%)
Total and % Population		35,438 (59.93%)	44,299 (74.91%)	26,099 (44.13%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 68 -- 59,477 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 068	59,477 (100.00%)	34,189 (100.00%)	44,835 (100.00%)	24,994 (100.00%)
Total and % Population		34,189 (57.48%)	44,835 (75.38%)	24,994 (42.02%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 69 -- 58,358 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 069	56,280 (96.44%)	37,167 (98.65%)	43,665 (96.37%)	28,030 (98.61%)
Dist. 074	2,078 (3.56%)	510 (1.35%)	1,645 (3.63%)	394 (1.39%)
Total and % Population		37,677 (64.56%)	45,310 (77.64%)	28,424 (48.71%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 7 -- 59,081 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 007	59,081 (100.00%)	513 (100.00%)	48,771 (100.00%)	302 (100.00%)
Total and % Population		513 (0.87%)	48,771 (82.55%)	302 (0.51%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 70 -- 59,121 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 070	59,121 (100.00%)	17,750 (100.00%)	45,249 (100.00%)	12,591 (100.00%)
Total and % Population		17,750 (30.02%)	45,249 (76.54%)	12,591 (21.30%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 71 -- 59,538 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 071	59,538 (100.00%)	12,792 (100.00%)	44,582 (100.00%)	8,879 (100.00%)
Total and % Population		12,792 (21.49%)	44,582 (74.88%)	8,879 (14.91%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 72 -- 59,660 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 072	59,660 (100.00%)	12,788 (100.00%)	46,229 (100.00%)	9,642 (100.00%)
Total and % Population		12,788 (21.43%)	46,229 (77.49%)	9,642 (16.16%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 73 -- **60,036 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 073	60,036 (100.00%)	7,865 (100.00%)	45,736 (100.00%)	5,538 (100.00%)
Total and % Population		7,865 (13.10%)	45,736 (76.18%)	5,538 (9.22%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 74 -- **58,418 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 069	2,402 (4.11%)	1,225 (3.82%)	1,883 (4.32%)	920 (3.91%)
Dist. 074	21,666 (37.09%)	2,852 (8.89%)	16,334 (37.46%)	1,996 (8.49%)
Dist. 075	25,599 (43.82%)	20,590 (64.19%)	18,685 (42.85%)	14,984 (63.70%)
Dist. 078	8,751 (14.98%)	7,412 (23.11%)	6,700 (15.37%)	5,621 (23.90%)
Total and % Population		32,079 (54.91%)	43,602 (74.64%)	23,521 (40.26%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 75 -- **59,759 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 075	34,144 (57.14%)	24,426 (59.73%)	25,165 (55.94%)	17,639 (58.62%)
Dist. 078	25,615 (42.86%)	16,470 (40.27%)	19,818 (44.06%)	12,451 (41.38%)
Total and % Population		40,896 (68.43%)	44,983 (75.27%)	30,090 (50.35%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 76 -- **59,759 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 076	59,759 (100.00%)	40,461 (100.00%)	44,371 (100.00%)	29,832 (100.00%)
Total and % Population		40,461 (67.71%)	44,371 (74.25%)	29,832 (49.92%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 77 -- **59,242 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 077	59,242 (100.00%)	44,963 (100.00%)	44,207 (100.00%)	33,655 (100.00%)
Total and % Population		44,963 (75.90%)	44,207 (74.62%)	33,655 (56.81%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 78 -- **59,890 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 074	35,212 (58.79%)	12,879 (39.81%)	26,717 (59.67%)	9,016 (39.46%)
Dist. 078	24,678 (41.21%)	19,469 (60.19%)	18,054 (40.33%)	13,832 (60.54%)
Total and % Population		32,348 (54.01%)	44,771 (74.76%)	22,848 (38.15%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 79 -- **59,500 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 079	59,500 (100.00%)	42,713 (100.00%)	43,223 (100.00%)	30,942 (100.00%)
Total and % Population		42,713 (71.79%)	43,223 (72.64%)	30,942 (52.00%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 8 -- **59,244 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 008	59,244 (100.00%)	1,025 (100.00%)	49,612 (100.00%)	708 (100.00%)
Total and % Population		1,025 (1.73%)	49,612 (83.74%)	708 (1.20%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 80 -- **59,461 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 080	59,461 (100.00%)	8,128 (100.00%)	44,784 (100.00%)	6,350 (100.00%)
Total and % Population		8,128 (13.67%)	44,784 (75.32%)	6,350 (10.68%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 81 -- **59,007 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 081	59,007 (100.00%)	12,487 (100.00%)	46,259 (100.00%)	10,099 (100.00%)
Total and % Population		12,487 (21.16%)	46,259 (78.40%)	10,099 (17.11%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 82 -- **59,724 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 082	59,724 (100.00%)	9,763 (100.00%)	50,238 (100.00%)	8,455 (100.00%)
Total and % Population		9,763 (16.35%)	50,238 (84.12%)	8,455 (14.16%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 83 -- **59,416 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 083	59,416 (100.00%)	8,327 (100.00%)	46,581 (100.00%)	7,044 (100.00%)
Total and % Population		8,327 (14.01%)	46,581 (78.40%)	7,044 (11.86%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 84 -- **59,862 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 084	59,862 (100.00%)	43,909 (100.00%)	47,350 (100.00%)	34,877 (100.00%)
Total and % Population		43,909 (73.35%)	47,350 (79.10%)	34,877 (58.26%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 85 -- **59,373 Total Population**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 085	59,373 (100.00%)	37,650 (100.00%)	46,308 (100.00%)	29,041 (100.00%)
Total and % Population		37,650 (63.41%)	46,308 (78.00%)	29,041 (48.91%)

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 86 -- 59,205 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 086	59,205 (100.00%)	44,458 (100.00%)	44,614 (100.00%)	33,485 (100.00%)
Total and % Population		44,458 (75.09%)	44,614 (75.36%)	33,485 (56.56%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 87 -- 59,709 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 087	59,709 (100.00%)	44,195 (100.00%)	45,615 (100.00%)	33,336 (100.00%)
Total and % Population		44,195 (74.02%)	45,615 (76.40%)	33,336 (55.83%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 88 -- 59,689 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 088	59,689 (100.00%)	38,515 (100.00%)	46,073 (100.00%)	29,187 (100.00%)
Total and % Population		38,515 (64.53%)	46,073 (77.19%)	29,187 (48.90%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 89 -- 59,866 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 089	59,866 (100.00%)	37,494 (100.00%)	46,198 (100.00%)	28,890 (100.00%)
Total and % Population		37,494 (62.63%)	46,198 (77.17%)	28,890 (48.26%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 9 -- 59,474 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 009	59,474 (100.00%)	1,066 (100.00%)	48,273 (100.00%)	759 (100.00%)
Total and % Population		1,066 (1.79%)	48,273 (81.17%)	759 (1.28%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 90 -- 59,812 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 090	59,812 (100.00%)	35,965 (100.00%)	48,015 (100.00%)	28,082 (100.00%)
Total and % Population		35,965 (60.13%)	48,015 (80.28%)	28,082 (46.95%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 91 -- 59,956 Total Population

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 091	35,967 (59.99%)	28,749 (78.31%)	27,937 (60.73%)	21,984 (79.64%)
Dist. 115	9,573 (15.97%)	3,588 (9.77%)	7,346 (15.97%)	2,564 (9.29%)
Dist. 117	14,416 (24.04%)	4,377 (11.92%)	10,716 (23.30%)	3,056 (11.07%)
Total and % Population		36,714 (61.23%)	45,999 (76.72%)	27,604 (46.04%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 60,273 Total Population

Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

92 --

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 092	60,273 (100.00%)	42,978 (100.00%)	46,551 (100.00%)	32,022 (100.00%)
Total and % Population		42,978 (71.31%)	46,551 (77.23%)	32,022 (53.13%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 60,118 Total Population**93 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 093	60,118 (100.00%)	40,249 (100.00%)	44,734 (100.00%)	29,239 (100.00%)
Total and % Population		40,249 (66.95%)	44,734 (74.41%)	29,239 (48.64%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,211 Total Population**94 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 094	59,211 (100.00%)	41,397 (100.00%)	44,809 (100.00%)	30,935 (100.00%)
Total and % Population		41,397 (69.91%)	44,809 (75.68%)	30,935 (52.25%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 60,030 Total Population**95 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 095	60,030 (100.00%)	41,682 (100.00%)	44,948 (100.00%)	30,183 (100.00%)
Total and % Population		41,682 (69.44%)	44,948 (74.88%)	30,183 (50.28%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,515 Total Population**96 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 096	59,515 (100.00%)	13,970 (100.00%)	44,671 (100.00%)	10,273 (100.00%)
Total and % Population		13,970 (23.47%)	44,671 (75.06%)	10,273 (17.26%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,072 Total Population**97 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 097	59,072 (100.00%)	16,869 (100.00%)	46,339 (100.00%)	12,405 (100.00%)
Total and % Population		16,869 (28.56%)	46,339 (78.44%)	12,405 (21.00%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,998 Total Population**98 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
Dist. 098	59,998 (100.00%)	13,286 (100.00%)	42,734 (100.00%)	9,934 (100.00%)
Total and % Population		13,286 (22.14%)	42,734 (71.23%)	9,934 (16.56%)

Plan: Grant_Esselstyn_Hse_illustrative12_05, District 59,850 Total Population**99 --**

	Population	AP_Blk	[18+_Pop]	[18+_AP_Blk]
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Core Constituencies

Grant_Esselstyn_Hse_illustrative12_05

Dist. 099	59,850 (100.00%)	9,514 (100.00%)	45,004 (100.00%)	6,622 (100.00%)
Total and % Population		9,514 (15.90%)	45,004 (75.19%)	6,622 (11.06%)

EXHIBIT 16

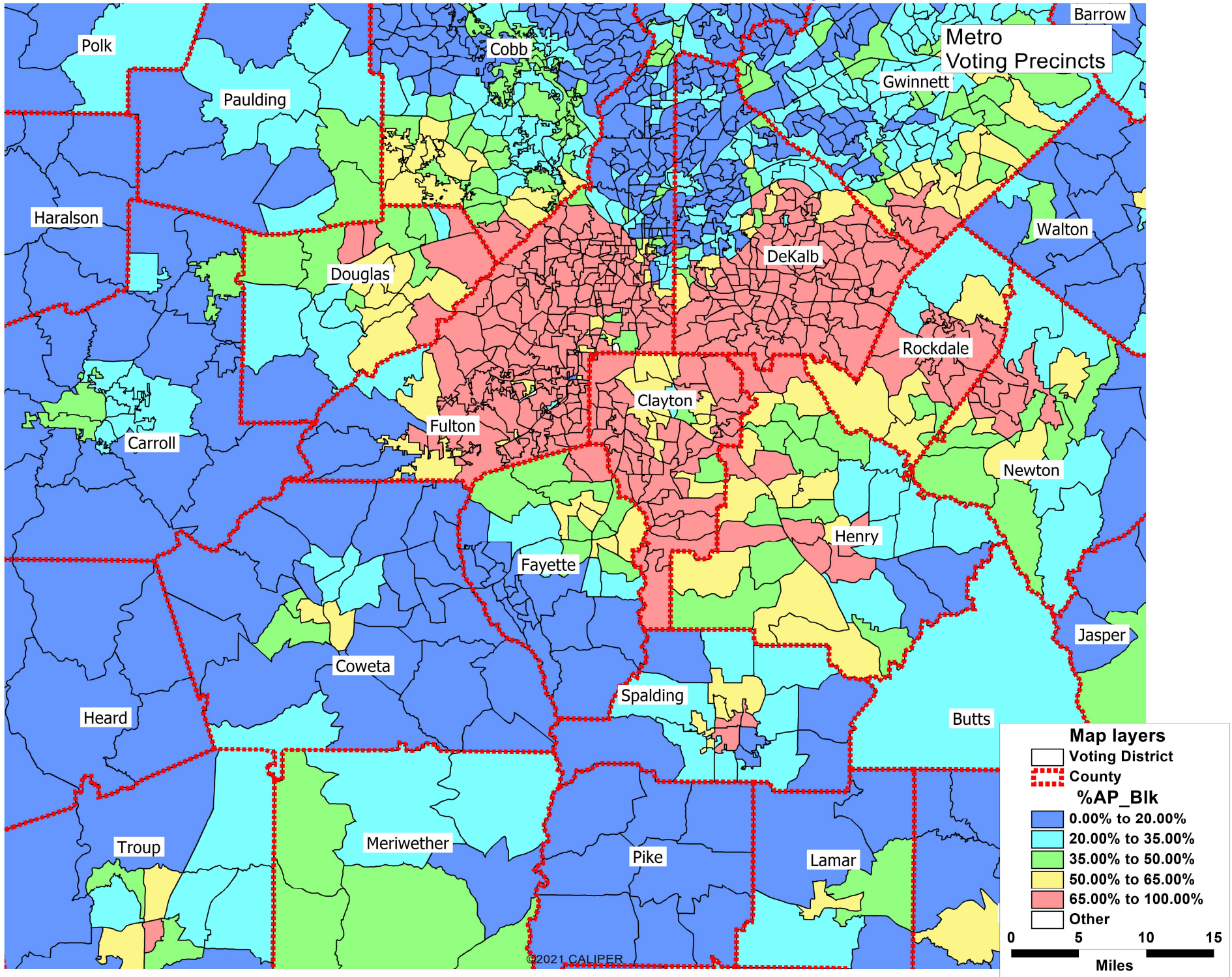


EXHIBIT 17

Augusta & east central area Counties - with population and AP Black %

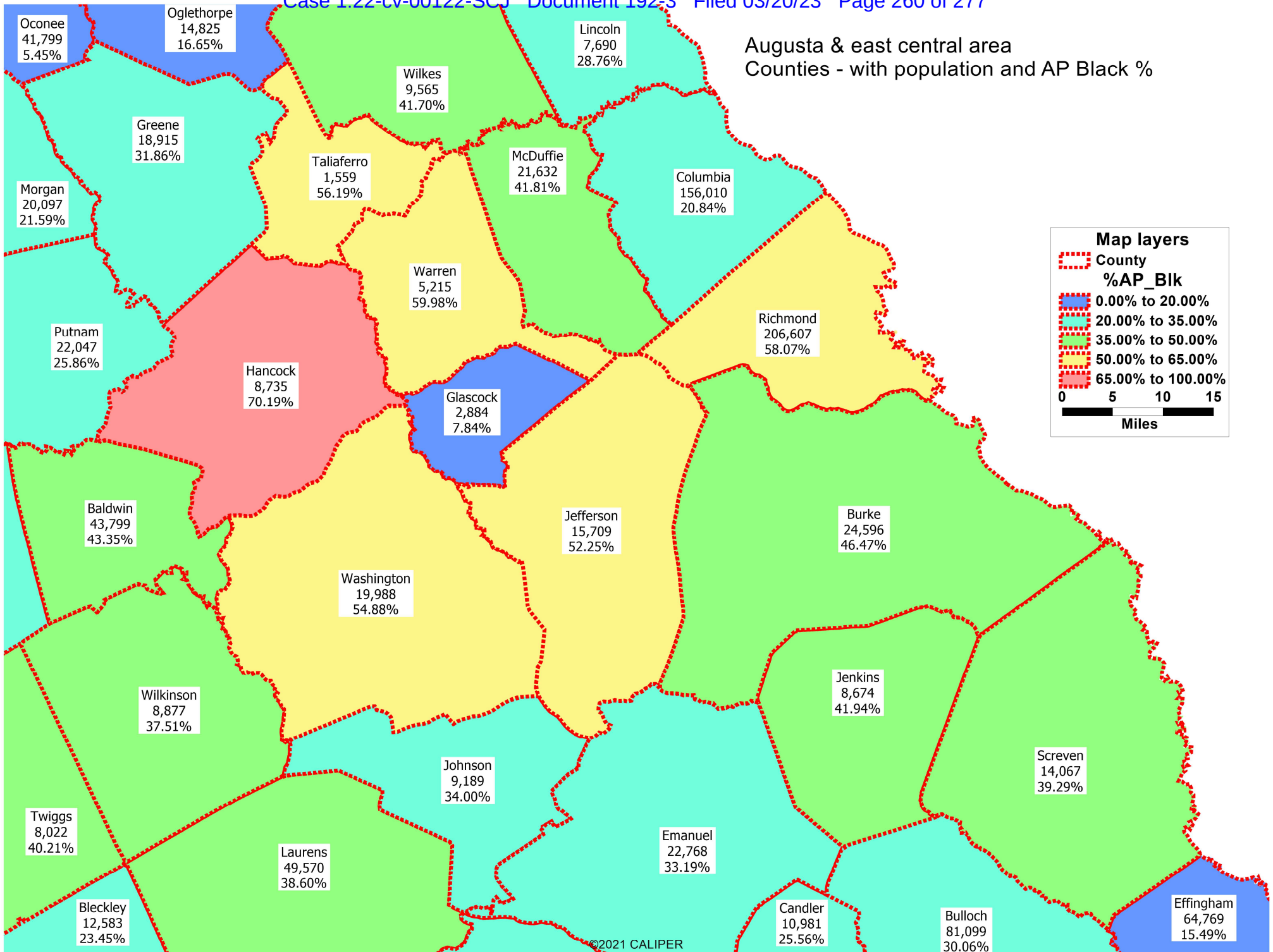


EXHIBIT 18

Augusta & east central area Voting Precincts

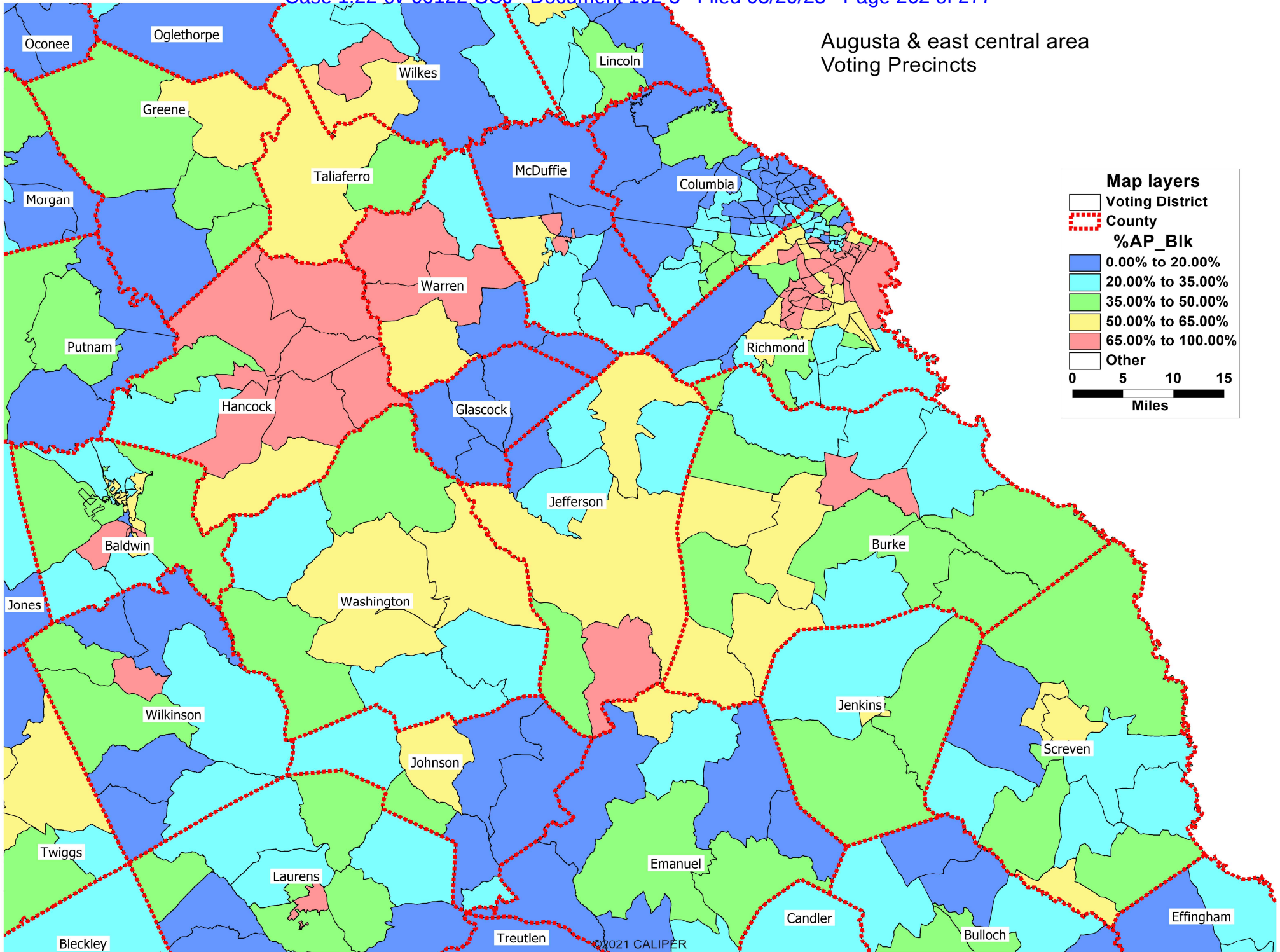


EXHIBIT 19

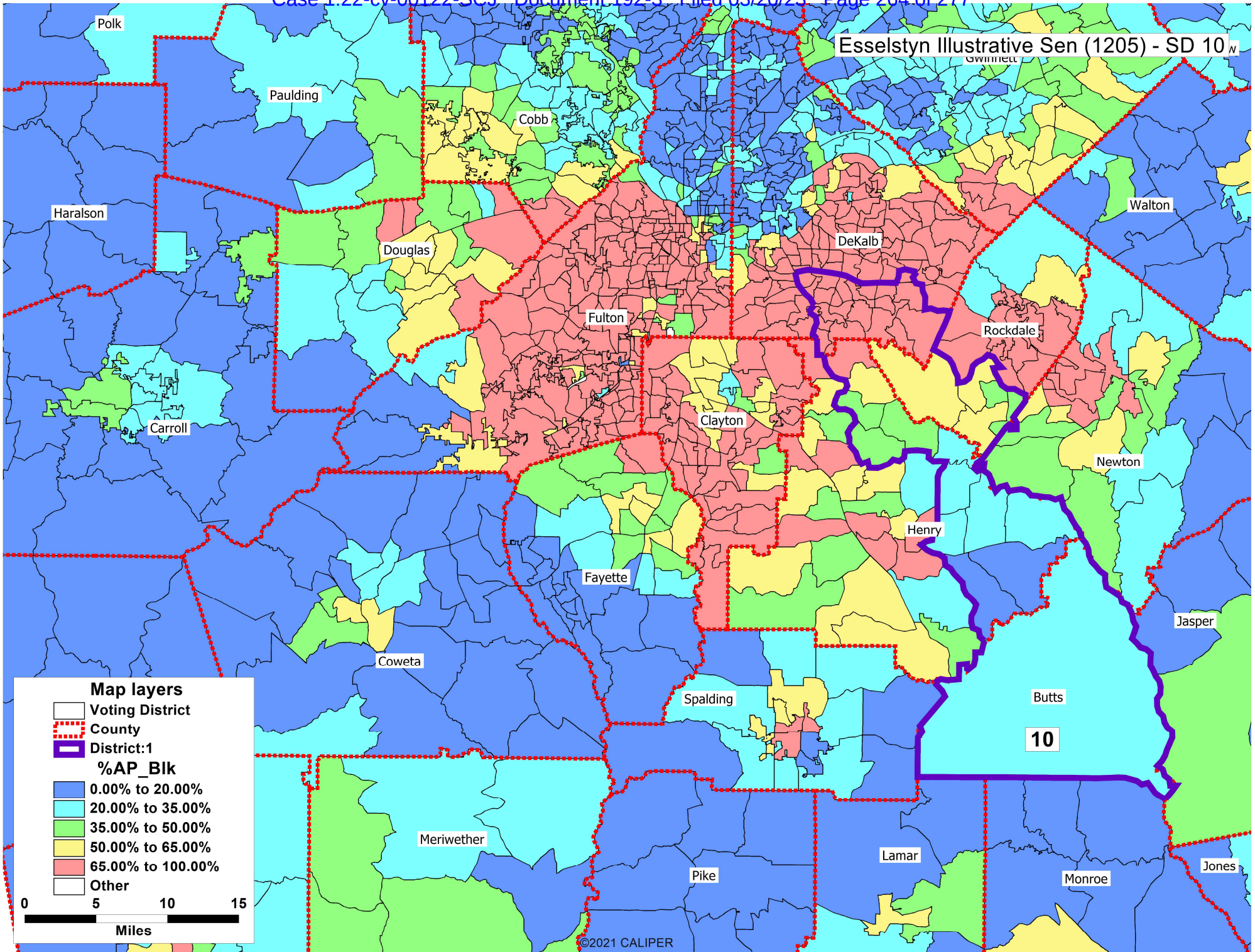


EXHIBIT 20

Esselstyn Illustrative Sen (1205)- SDs 22, 23

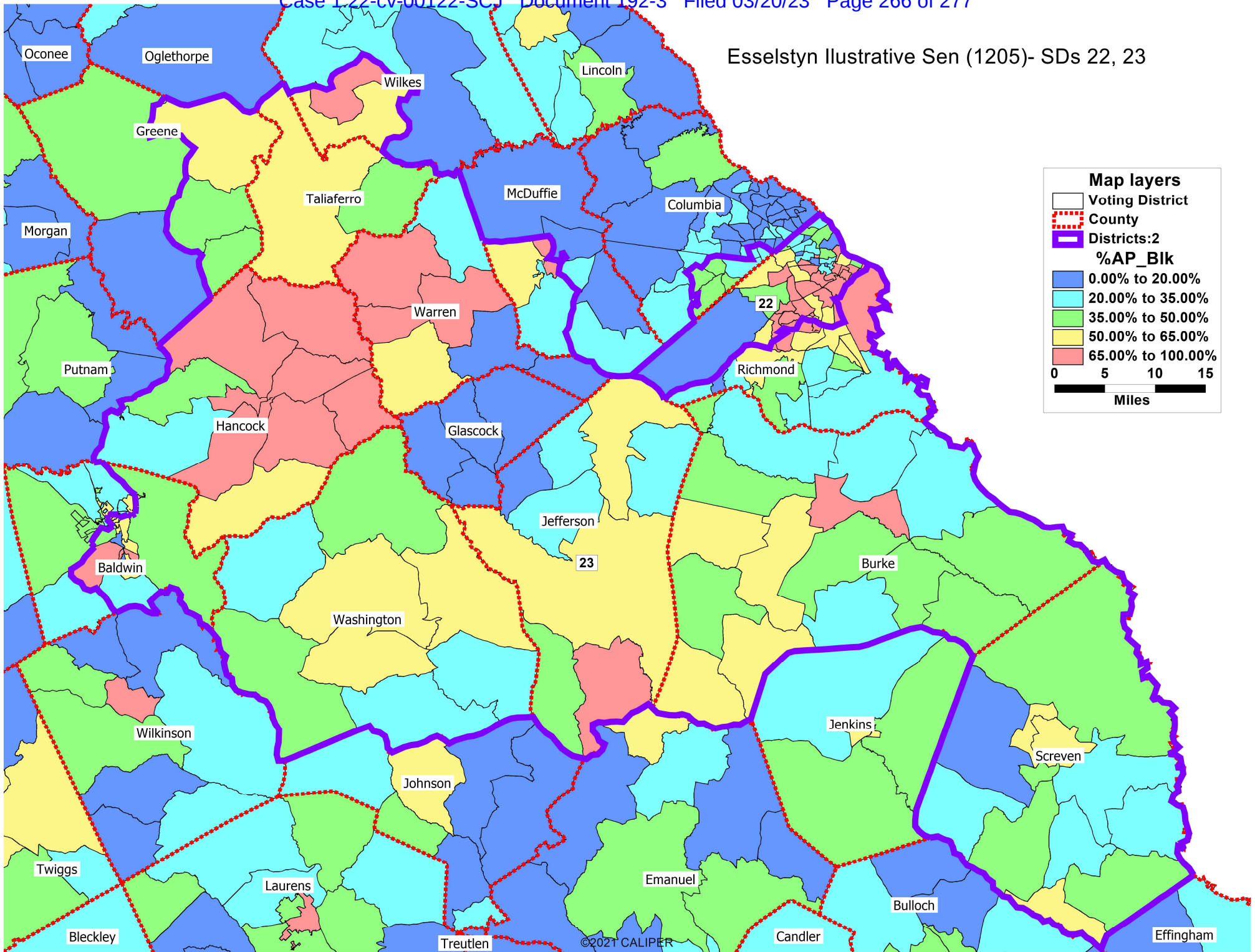


EXHIBIT 21

Esselstyn Illustrative Sen (1205) - SD 25_w

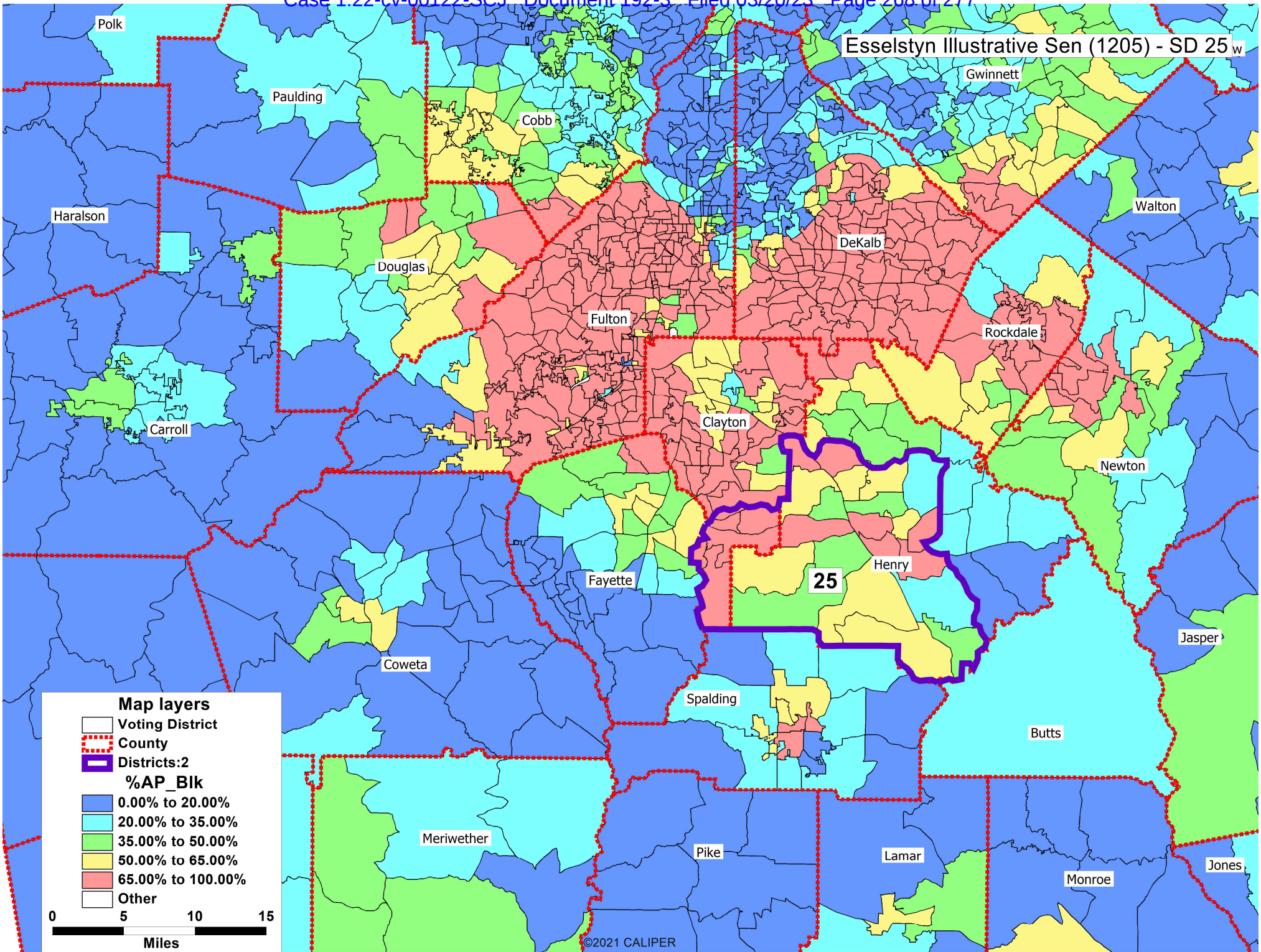
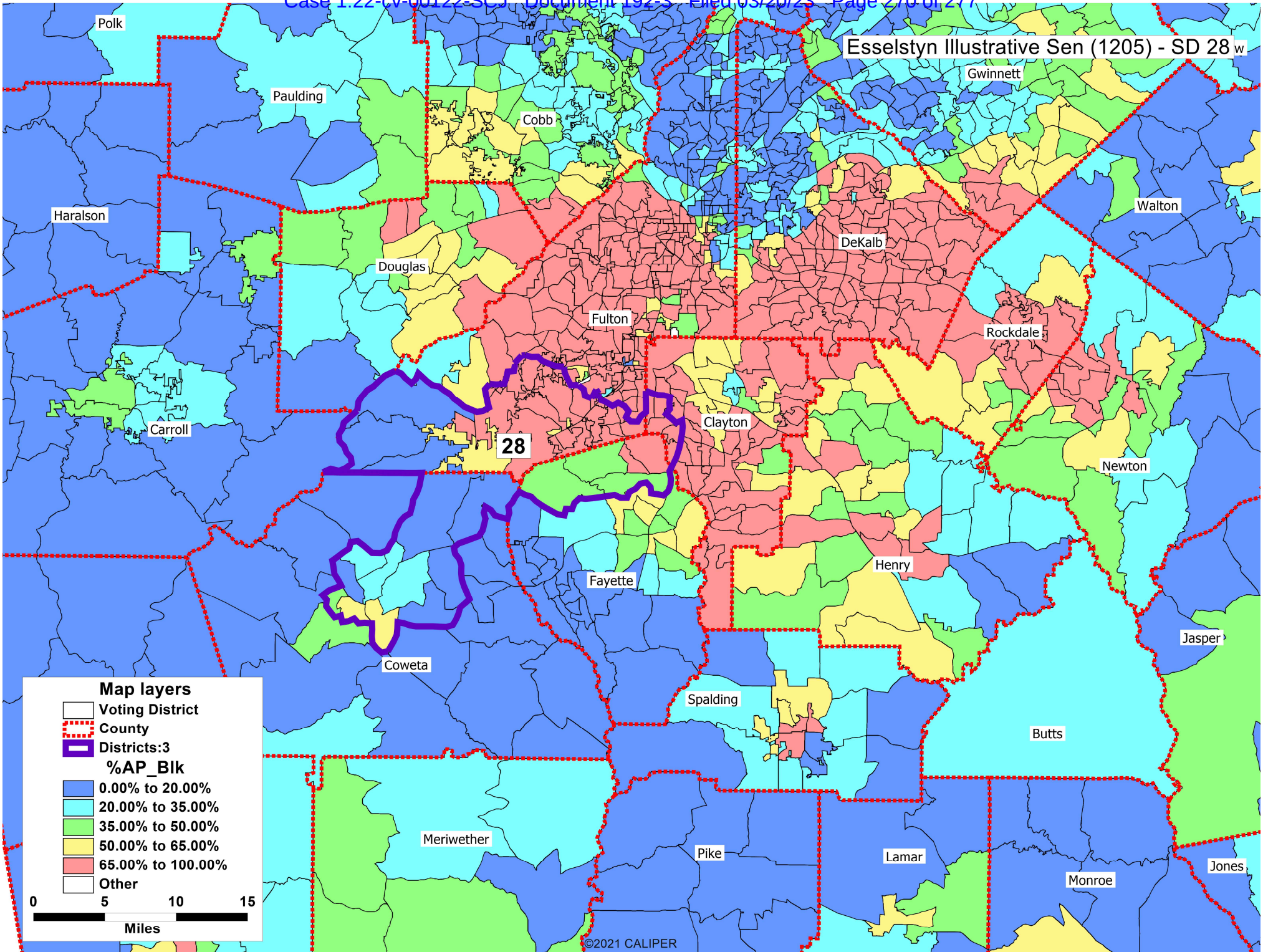


EXHIBIT 22

Esselstyn Illustrative Sen (1205) - SD 28 w



Map layers

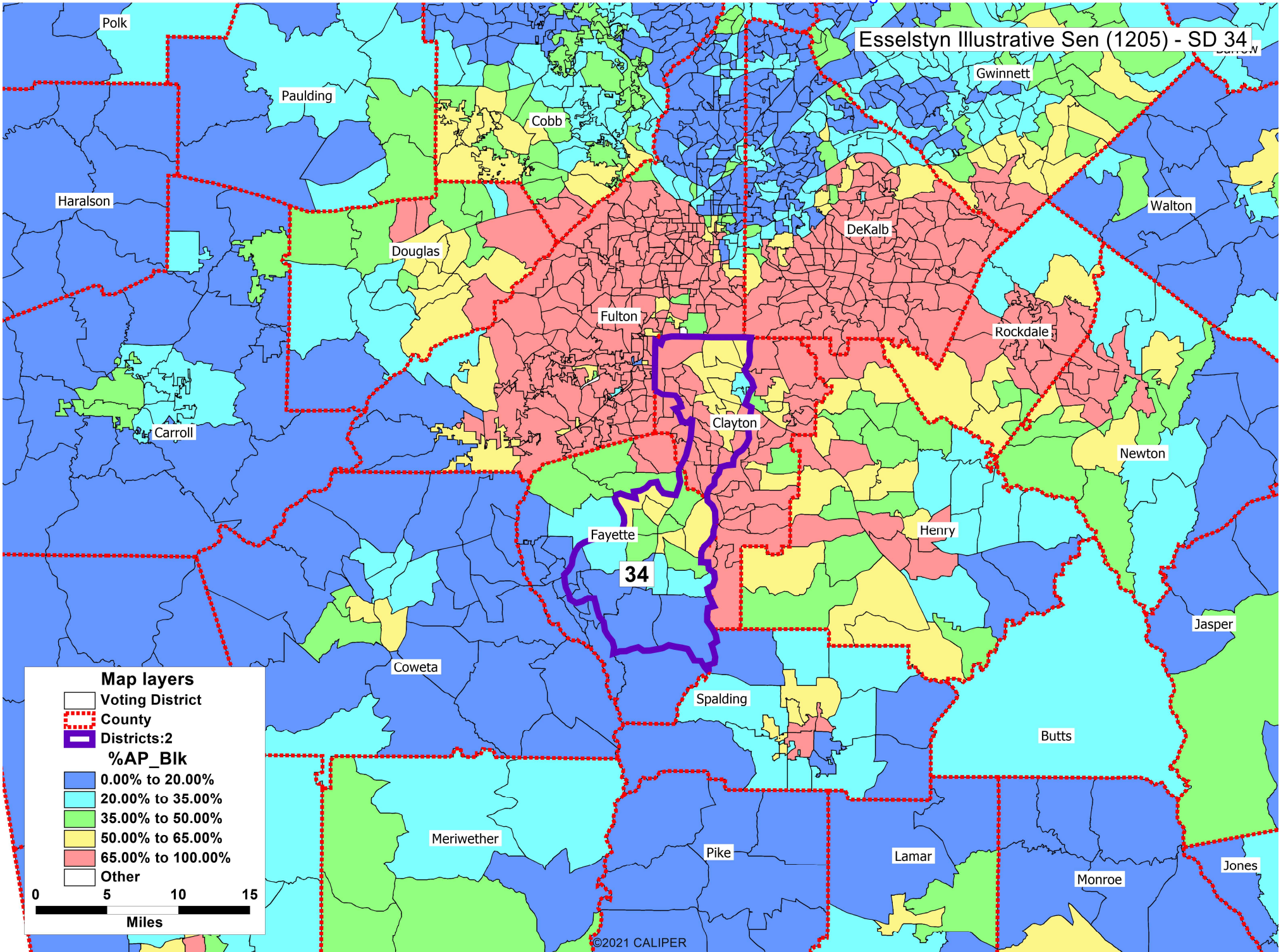
- Voting District
- County
- Districts:3
- %AP_Bik

Blue	0.00% to 20.00%
Cyan	20.00% to 35.00%
Light Green	35.00% to 50.00%
Yellow	50.00% to 65.00%
Red	65.00% to 100.00%
White	Other

0 5 10 15
Miles

EXHIBIT 23

Esselstyn Illustrative Sen (1205) - SD 34



Map layers

- Voting District
- County
- Districts:2

%AP_BIK

- 0.00% to 20.00%
- 20.00% to 35.00%
- 35.00% to 50.00%
- 50.00% to 65.00%
- 65.00% to 100.00%
- Other

0 5 10 15
Miles

EXHIBIT 24

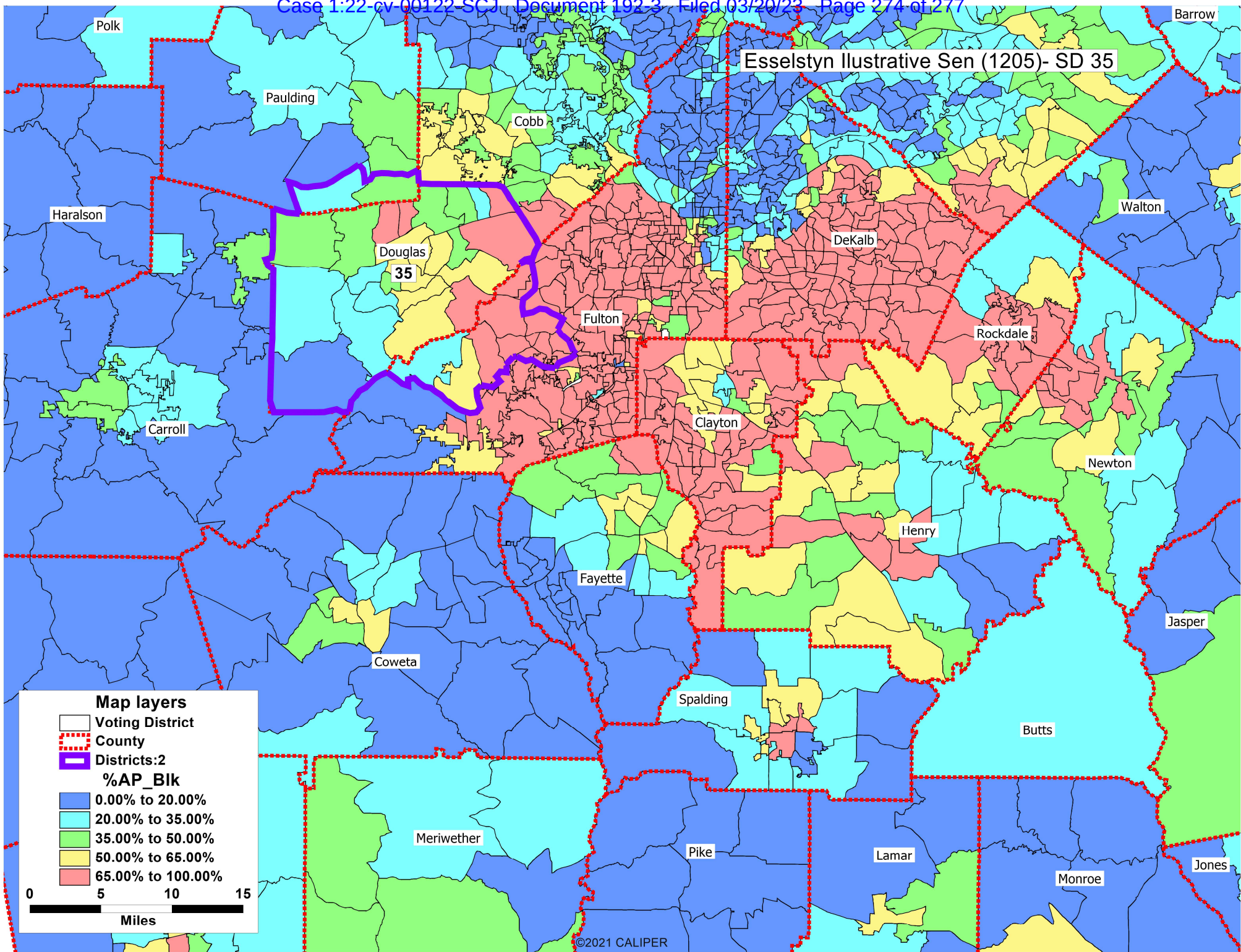
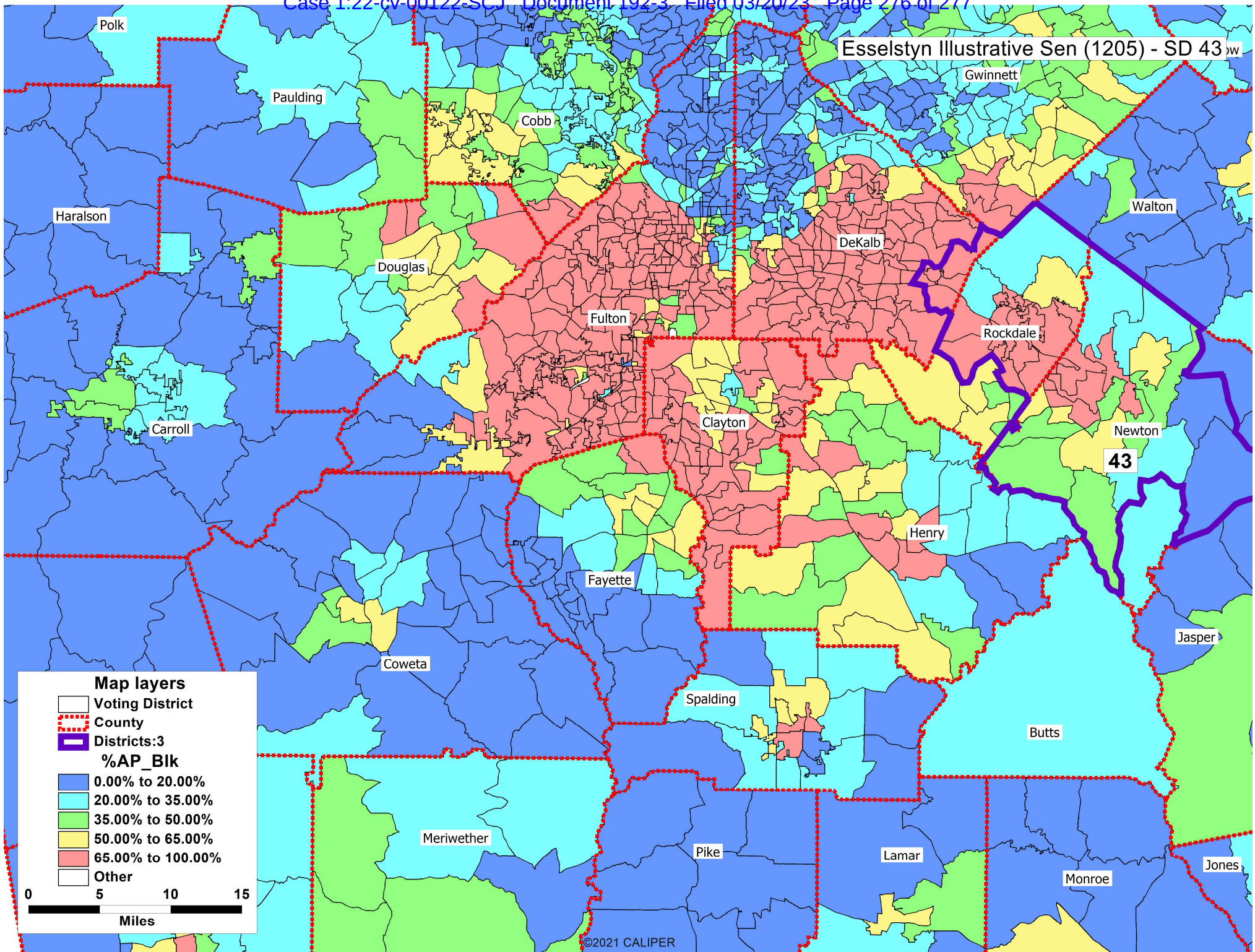


EXHIBIT 25



Esselstyn Illustrative Sen (1205) - SD 43

43

EXHIBIT 26

Esselstyn Illustrative Sen (1205) - SD 44

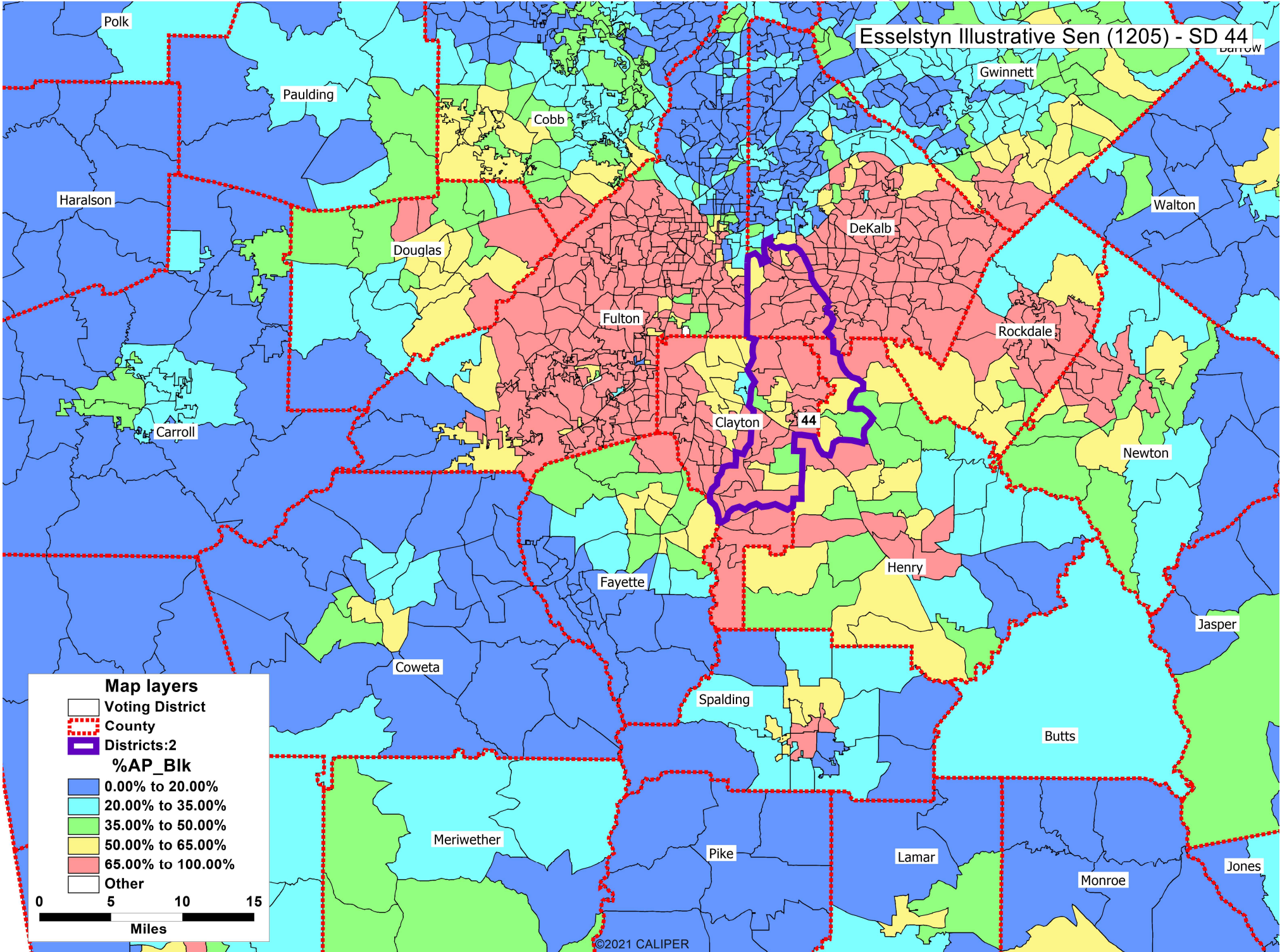


EXHIBIT 27

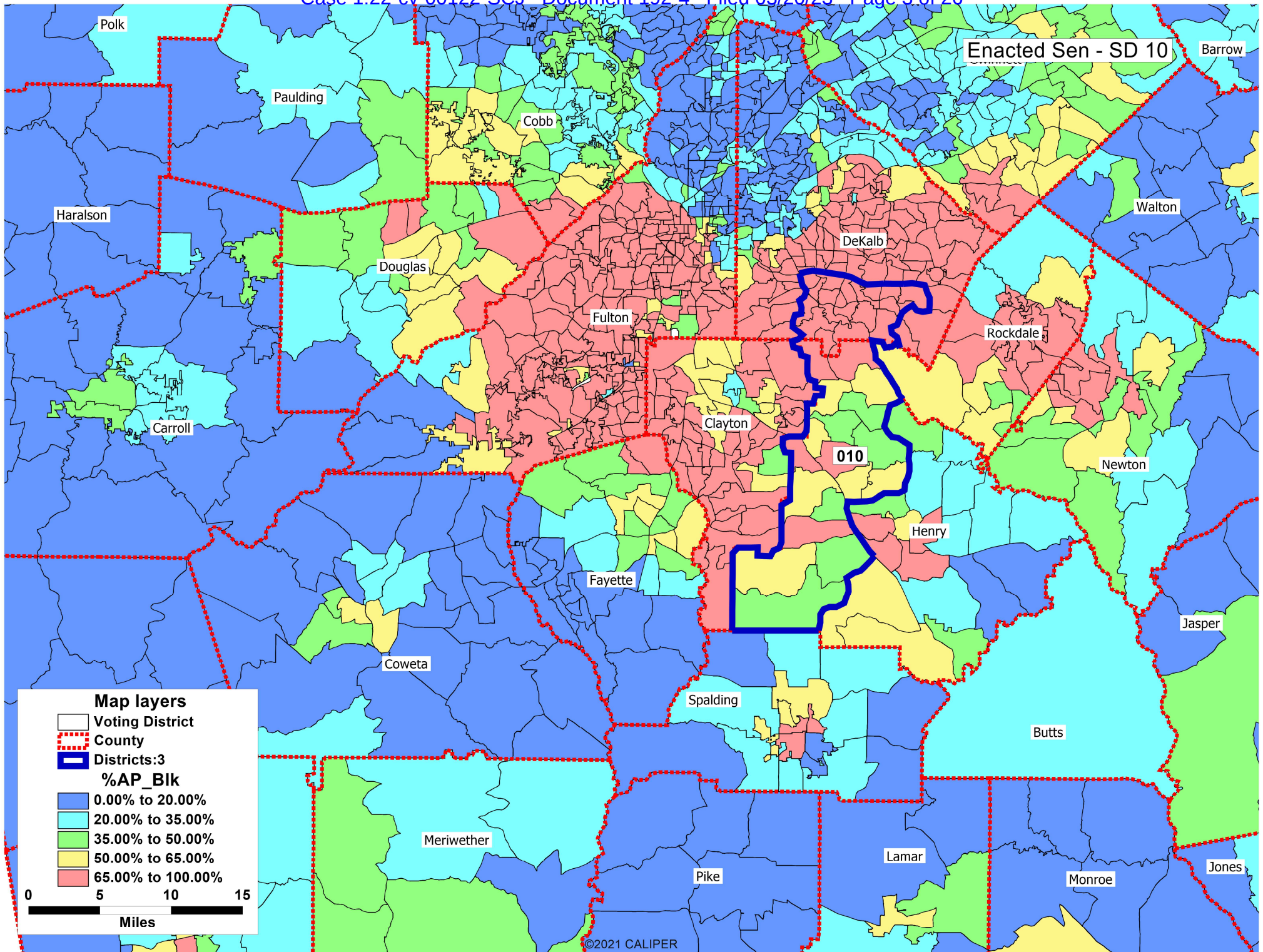
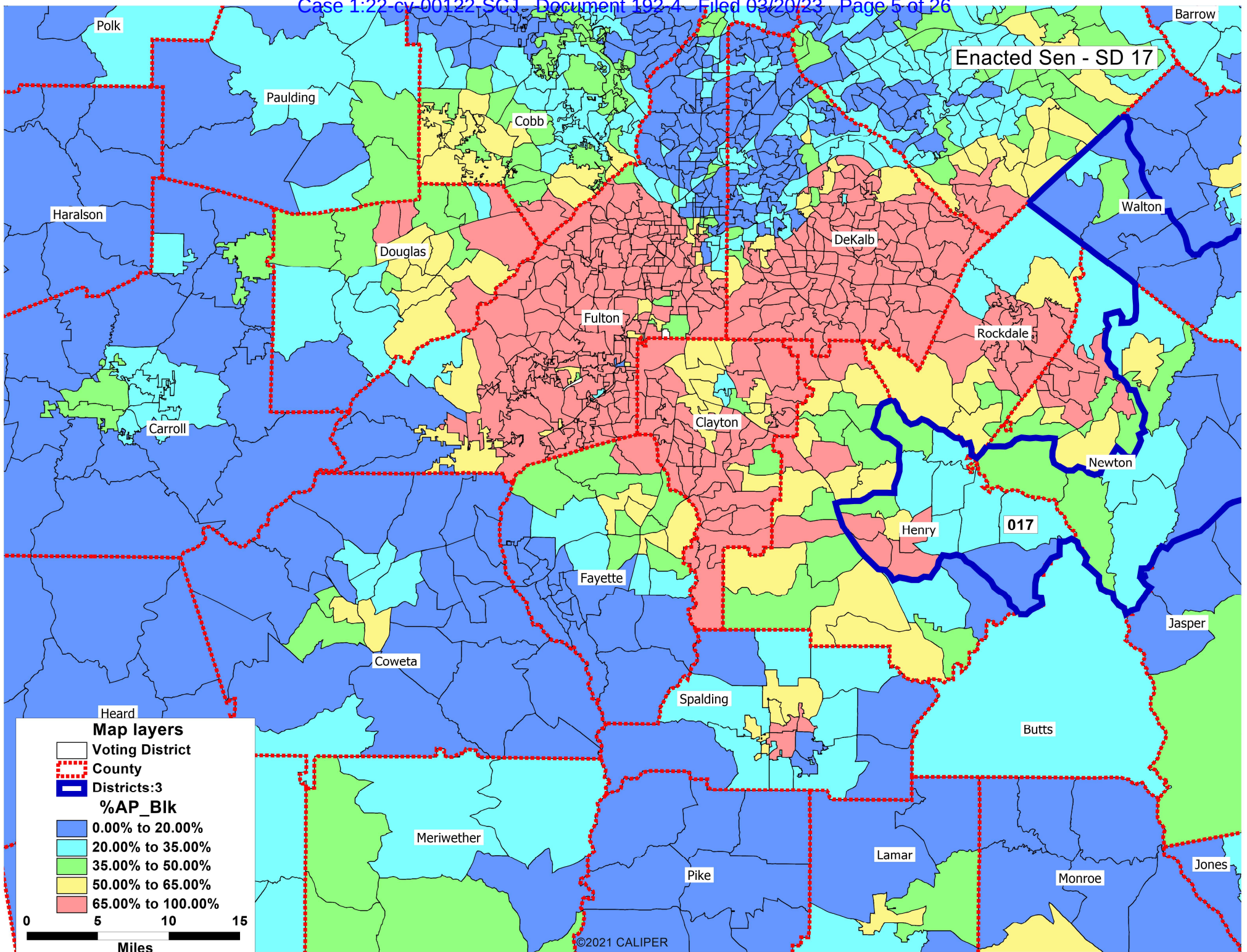


EXHIBIT 28



Enacted Sen - SD 17

017

EXHIBIT 29

Enacted Sen - SDs 22, 23

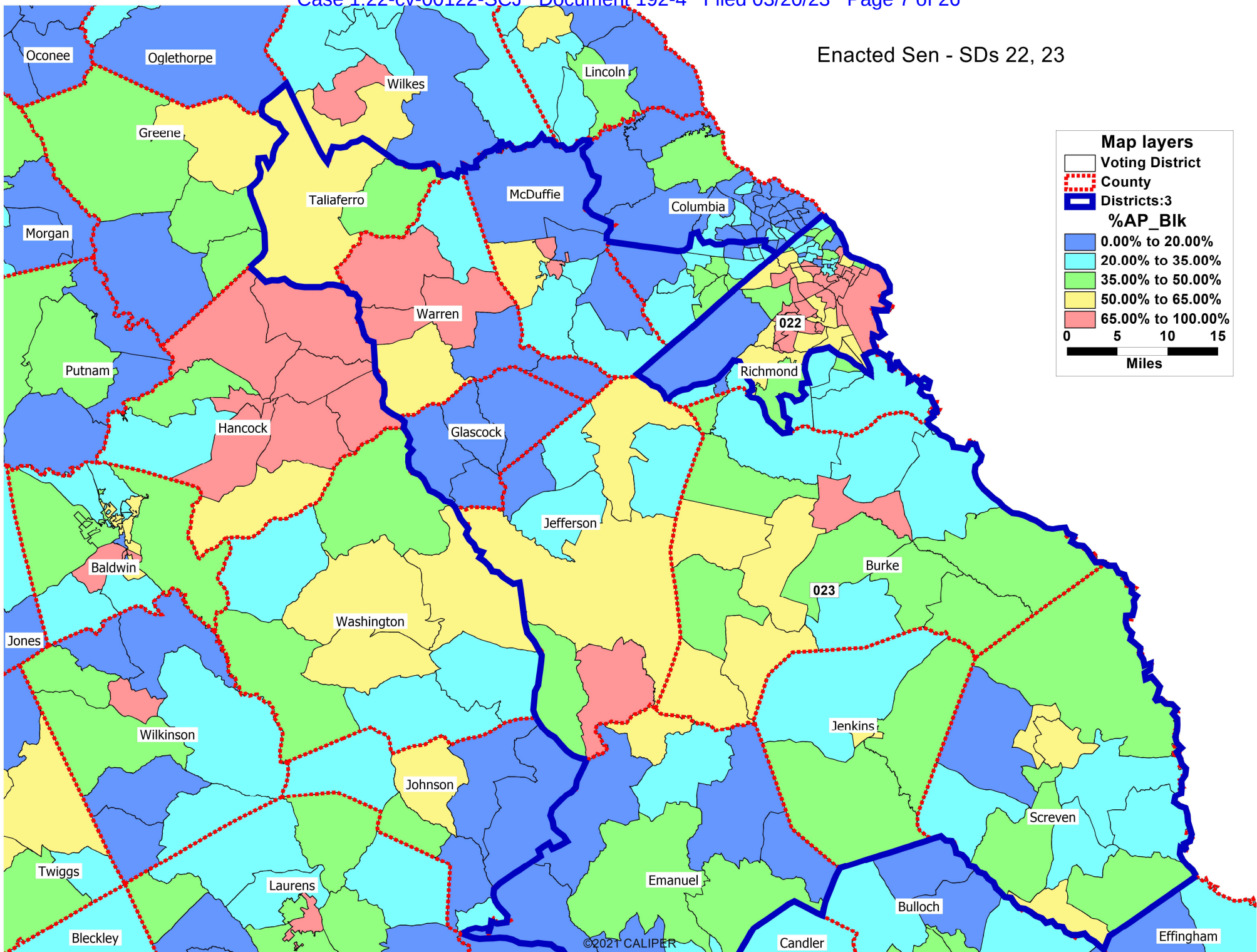
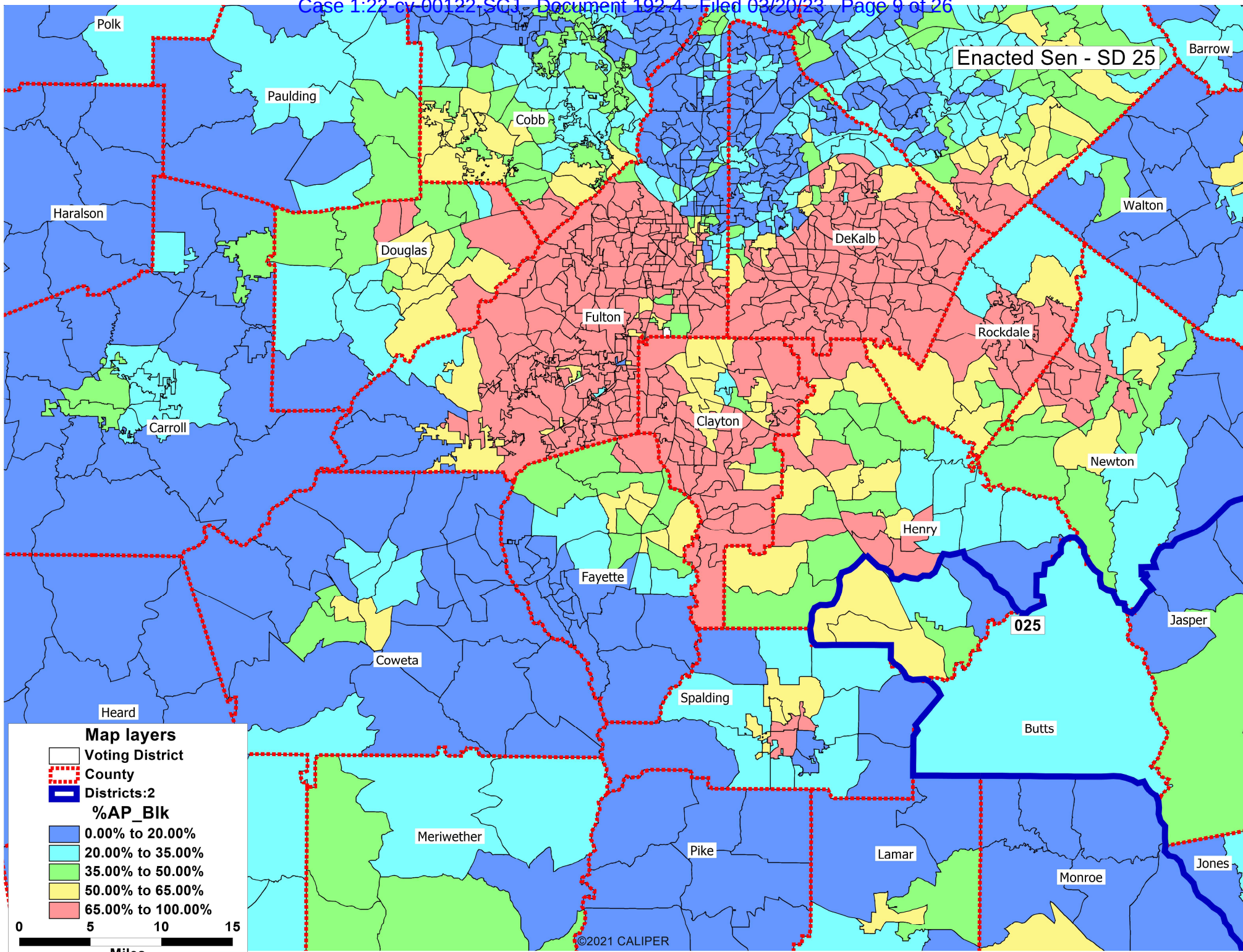


EXHIBIT 30



Enacted Sen - SD 25

025

Map layers

- Voting District
- County
- Districts:2

%AP_Bik

- 0.00% to 20.00%
- 20.00% to 35.00%
- 35.00% to 50.00%
- 50.00% to 65.00%
- 65.00% to 100.00%

0 5 10 15
Miles

EXHIBIT 31

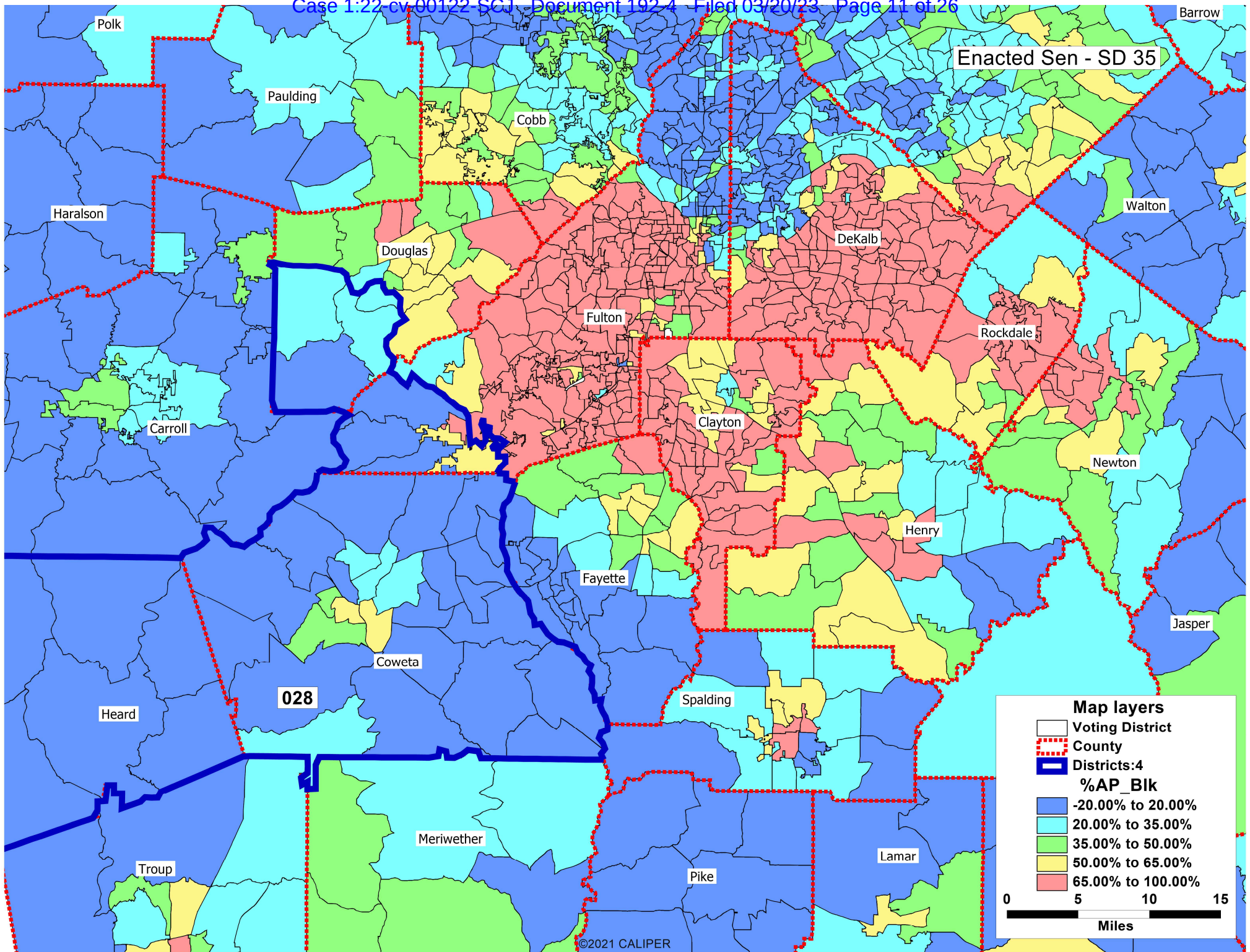
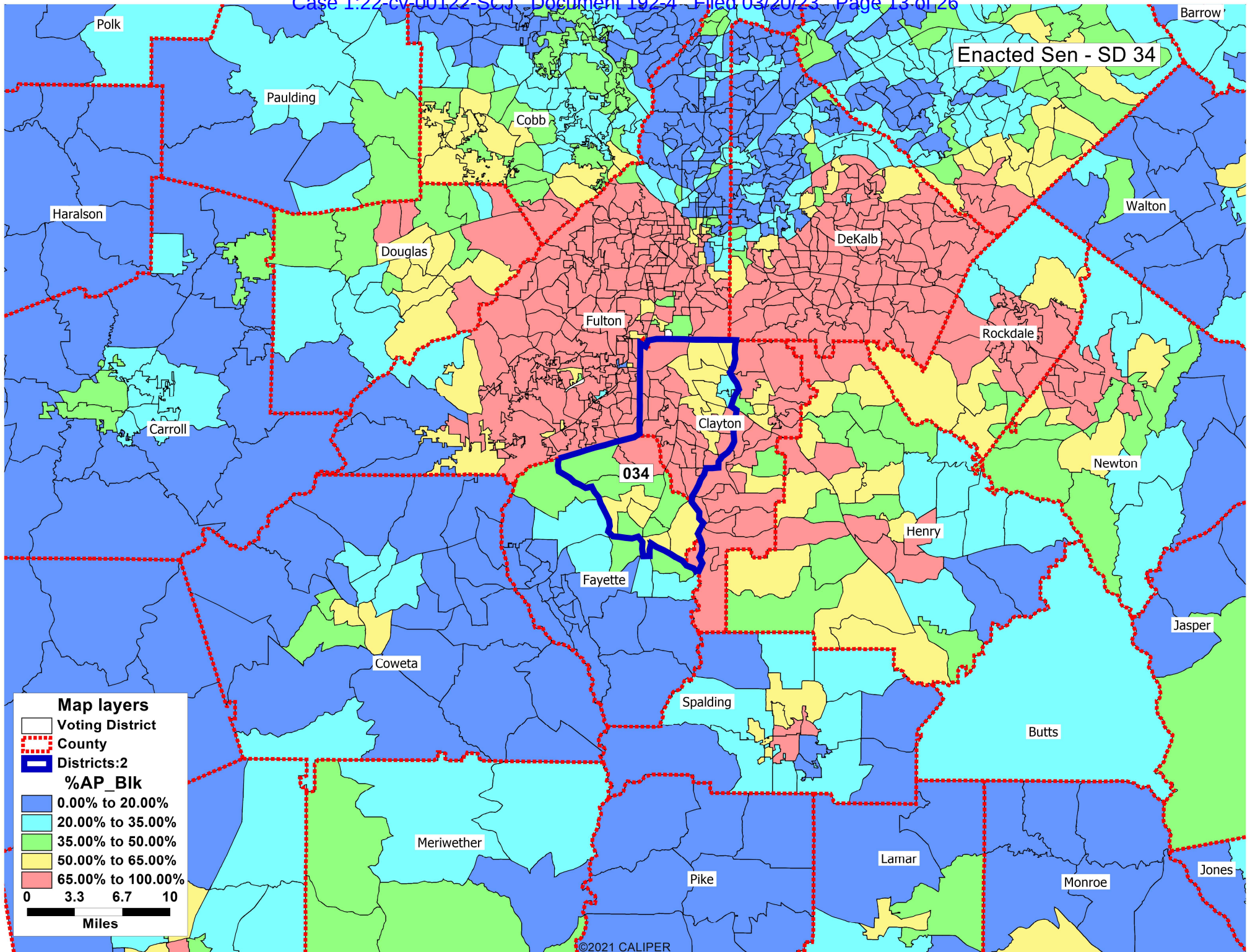


EXHIBIT 32



Map layers

- Voting District
- County
- Districts:2

%AP_Bik

- 0.00% to 20.00%
- 20.00% to 35.00%
- 35.00% to 50.00%
- 50.00% to 65.00%
- 65.00% to 100.00%

0 3.3 6.7 10

Miles

EXHIBIT 33

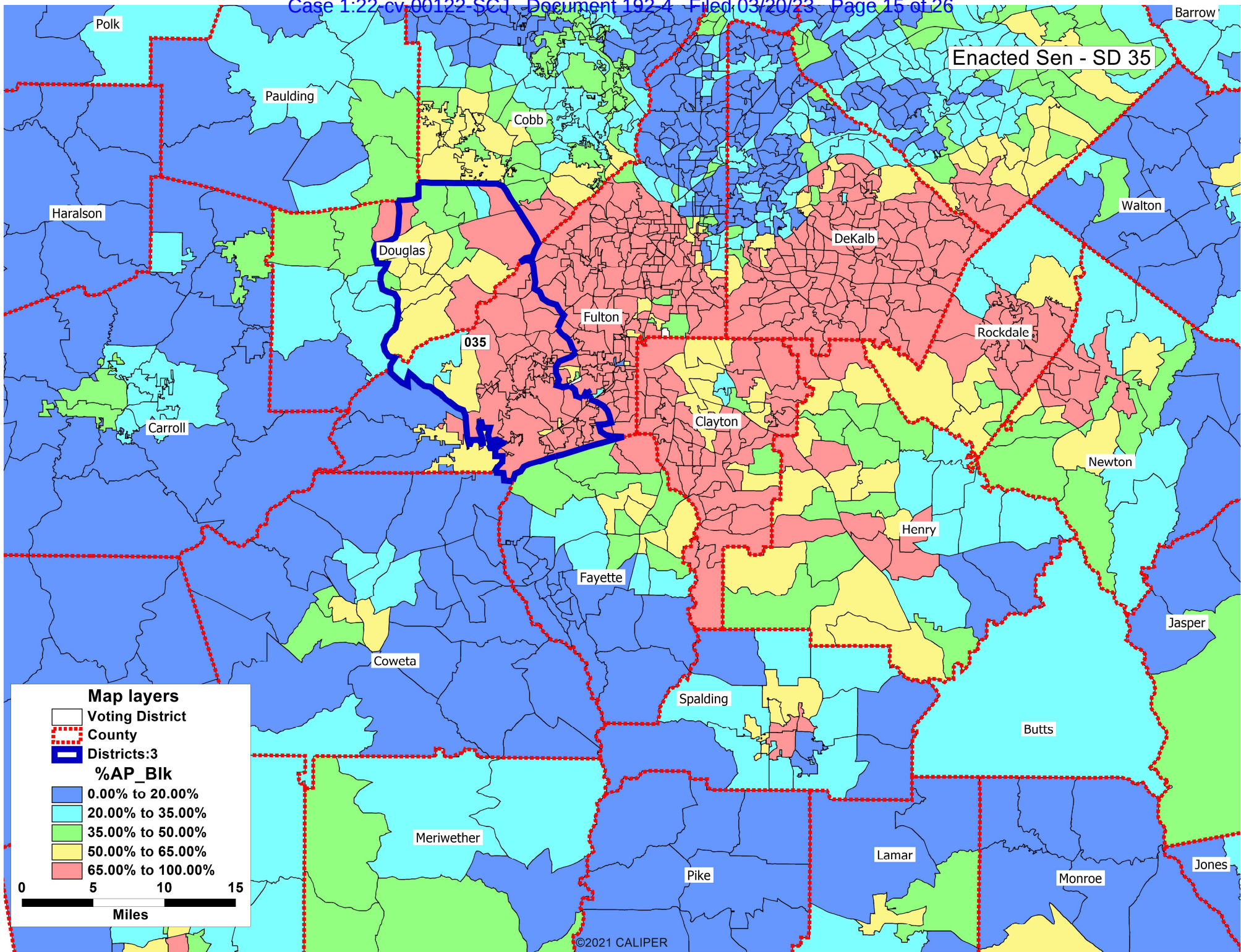
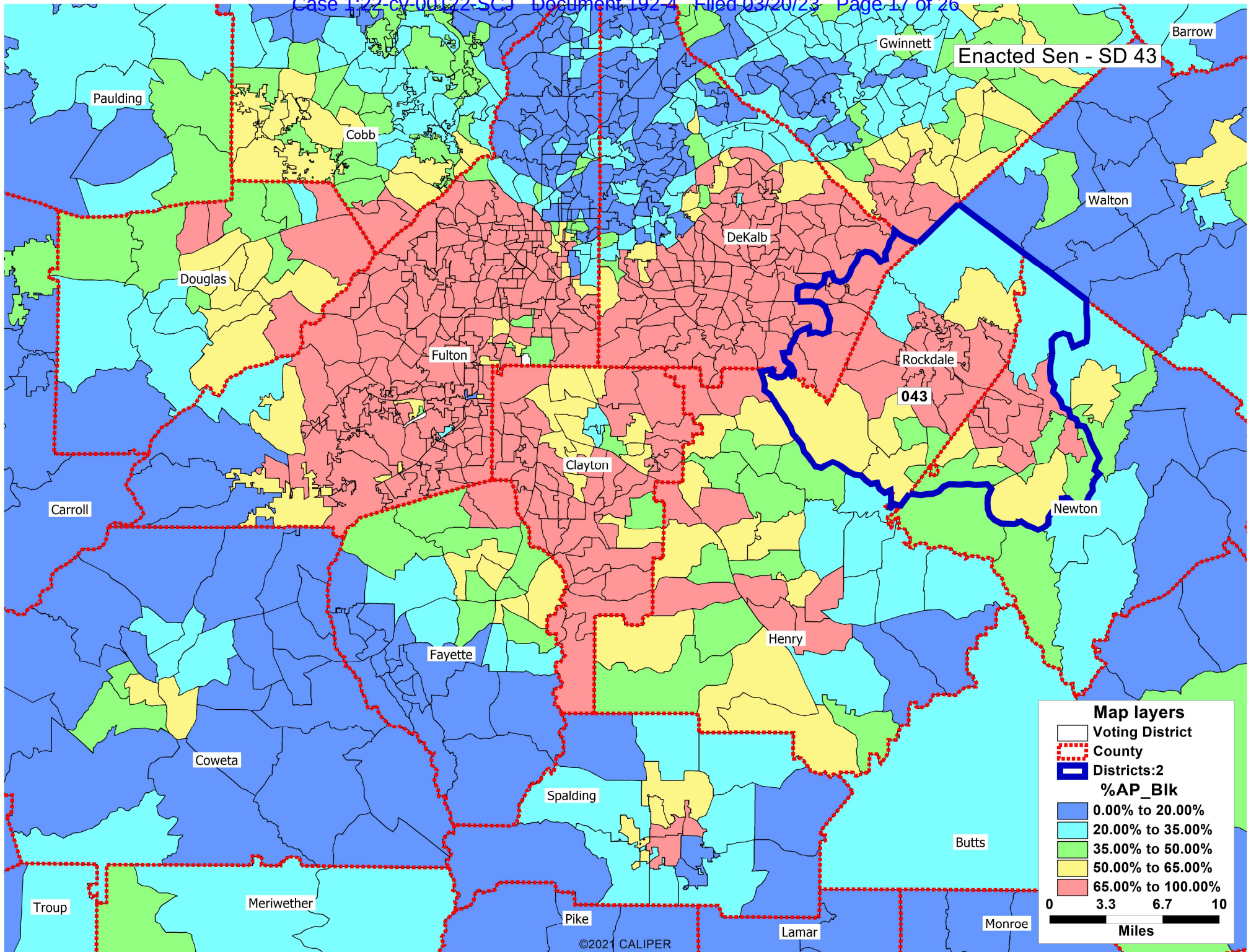


EXHIBIT 34



Enacted Sen - SD 43

043

Map layers

- Voting District
- County
- Districts:2

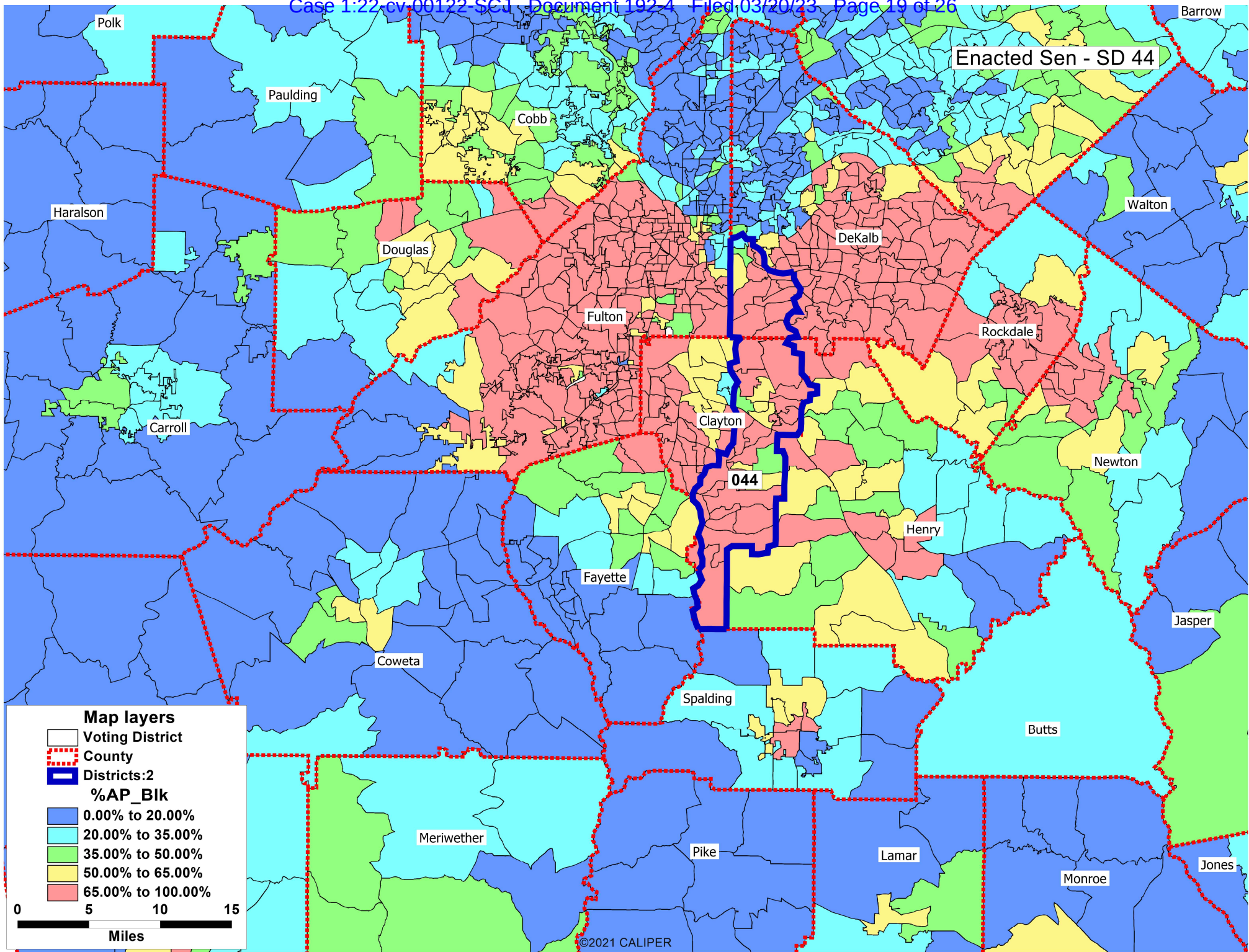
%AP_Bik

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- 20.00% to 35.00%
- 35.00% to 50.00%
- 50.00% to 65.00%
- 65.00% to 100.00%

0 3.3 6.7 10

Miles

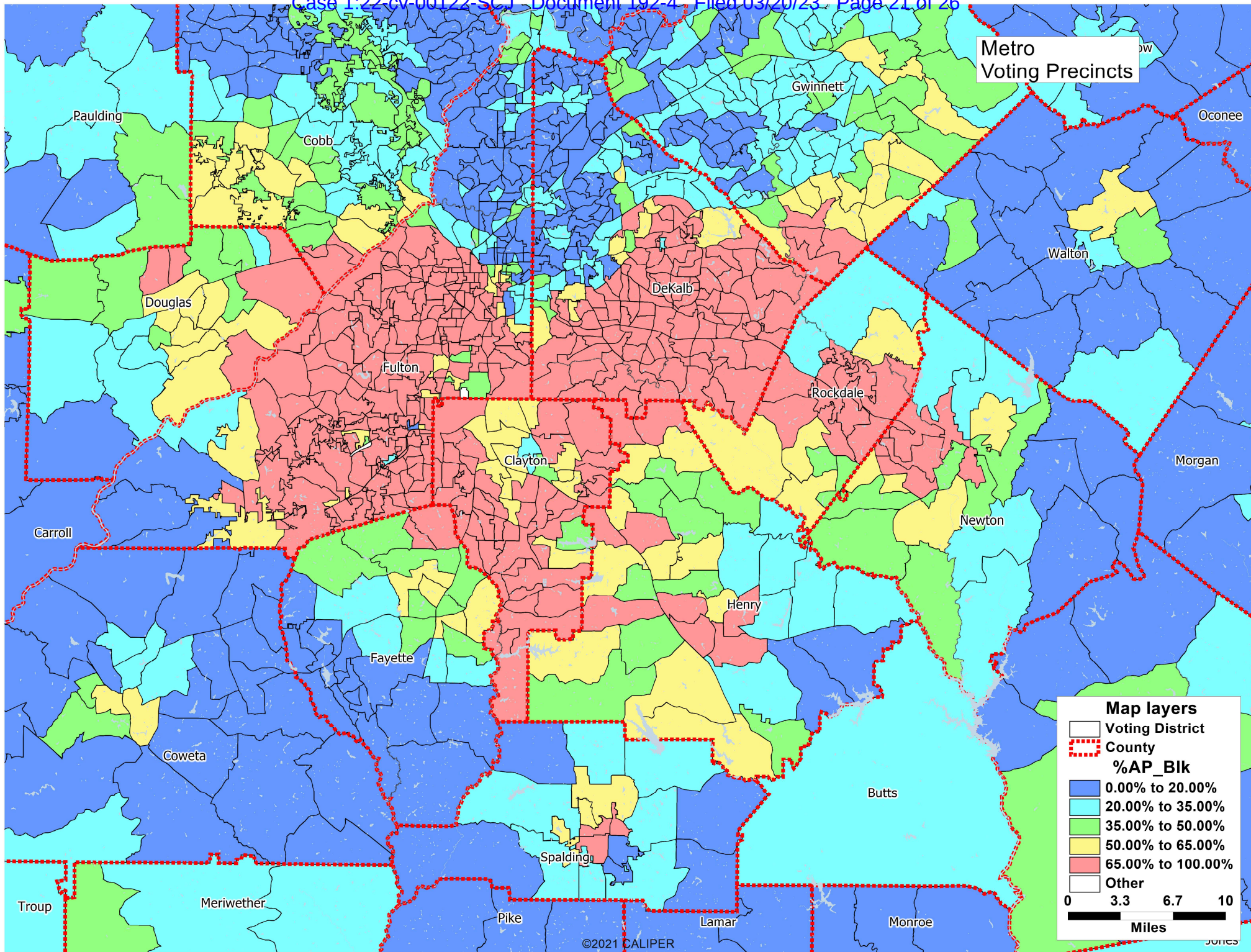
EXHIBIT 35



Enacted Sen - SD 44

044

EXHIBIT 36



**Metro
Voting Precincts**

Map layers

- Voting District
- County
- %AP_Bik

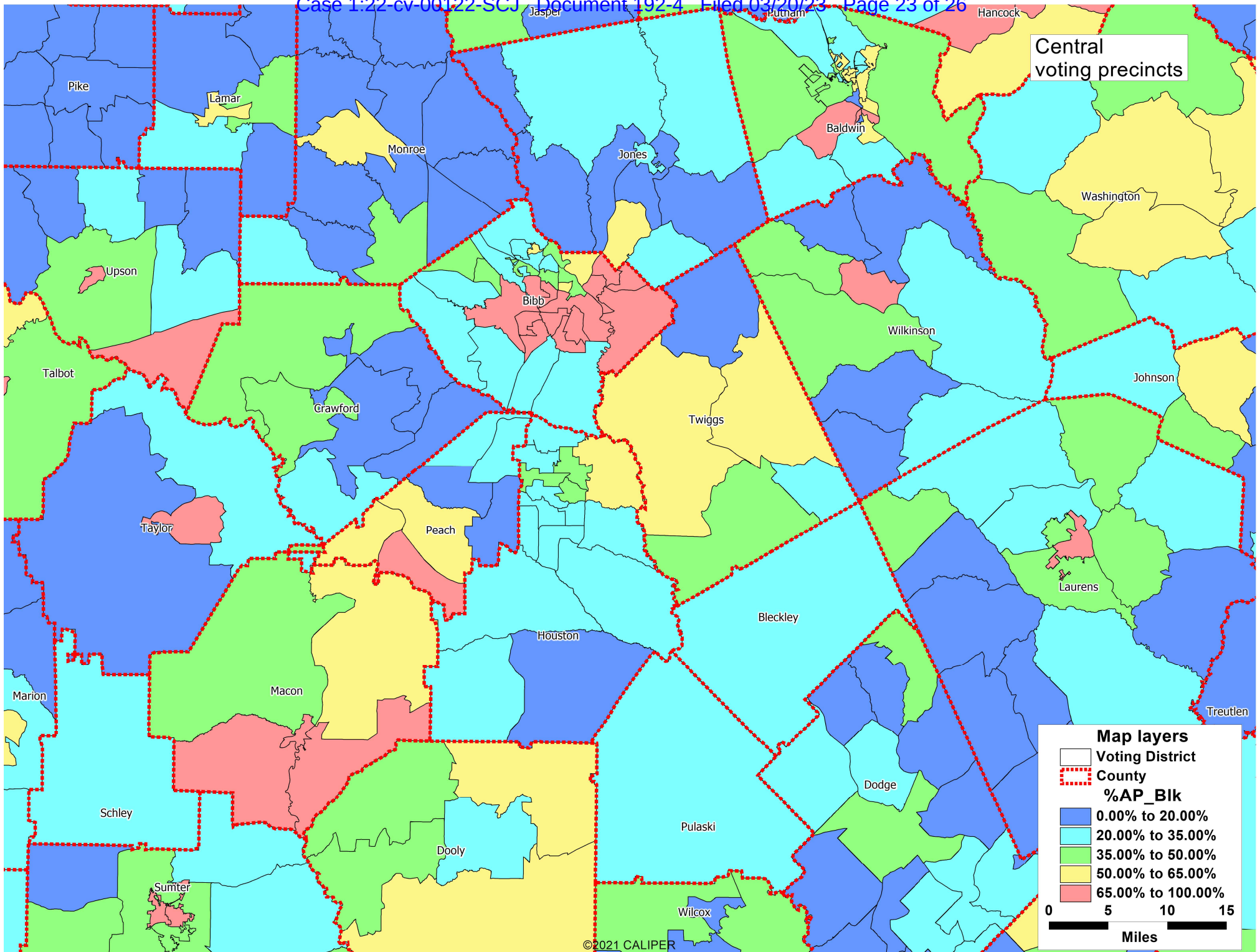
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20.00% to 35.00%
35.00% to 50.00%
50.00% to 65.00%
65.00% to 100.00%

Other

0 3.3 6.7 10

Miles

EXHIBIT 37



Central
voting precincts

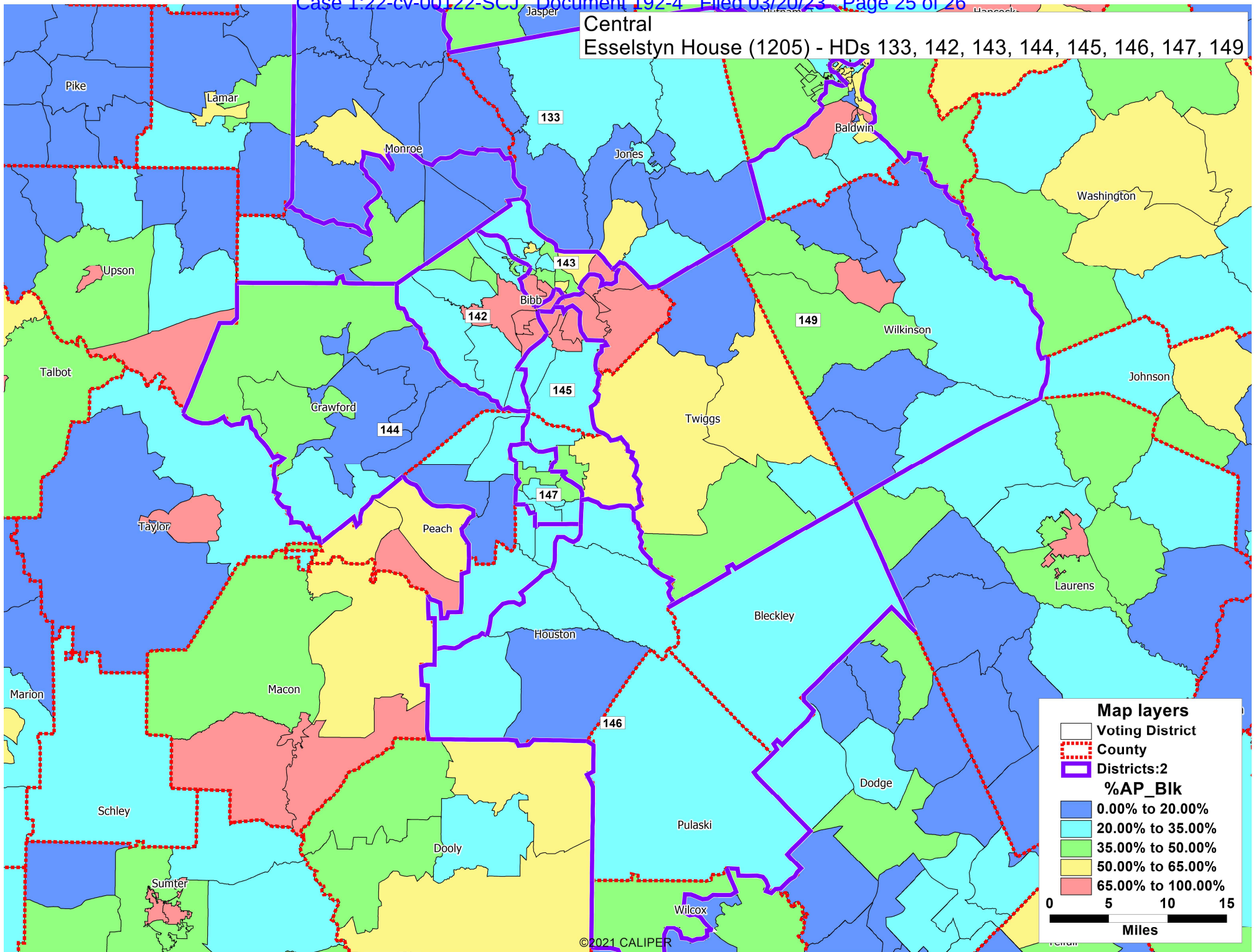
Map layers

- Voting District
- County
- %AP_Bik**
- 0.00% to 20.00%
- 20.00% to 35.00%
- 35.00% to 50.00%
- 50.00% to 65.00%
- 65.00% to 100.00%

0 5 10 15
Miles

EXHIBIT 38

Central
Esselstyn House (1205) - HDs 133, 142, 143, 144, 145, 146, 147, 149



Map layers

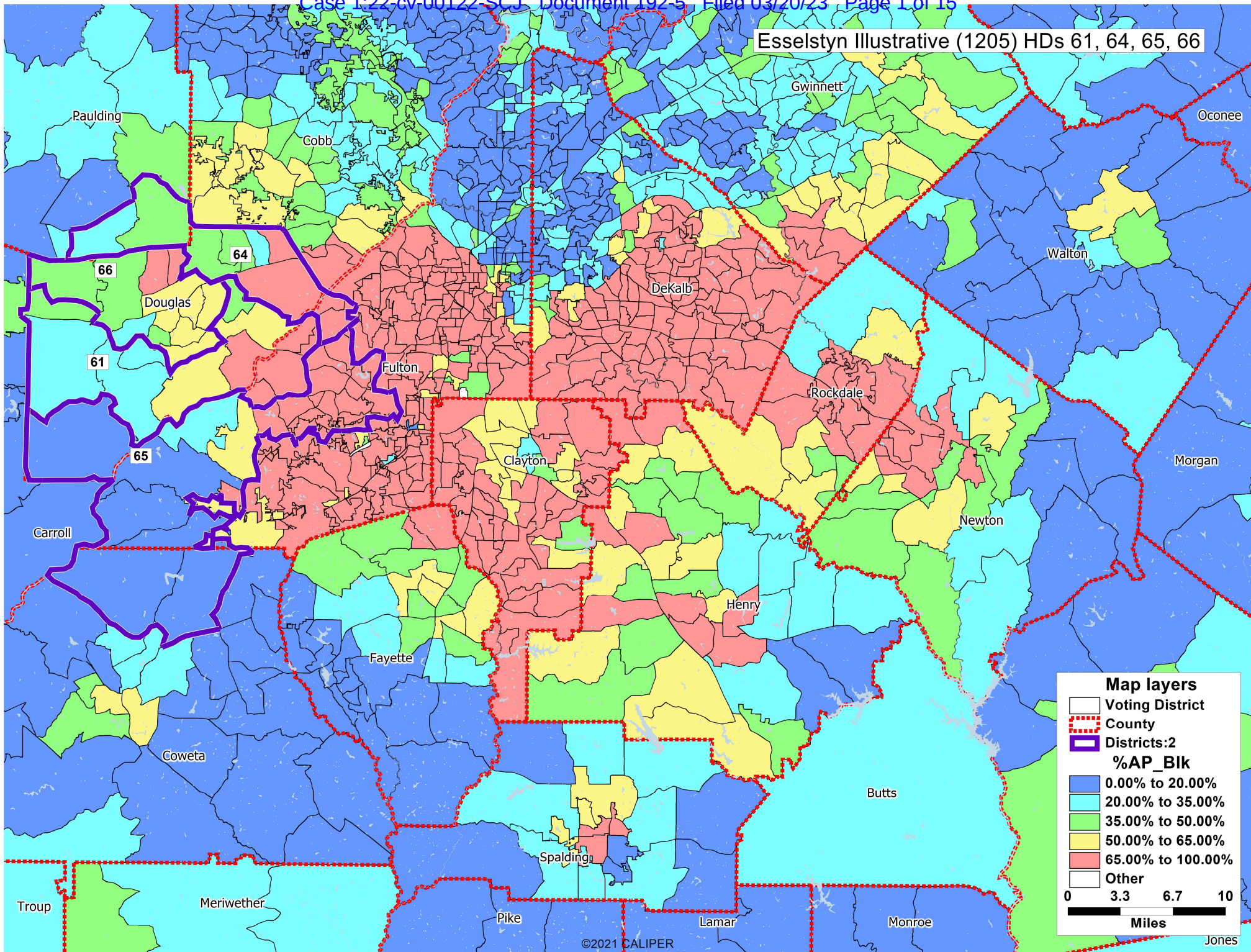
- Voting District
- County
- Districts:2
- %AP_Bik

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20.00% to 35.00%
35.00% to 50.00%
50.00% to 65.00%
65.00% to 100.00%

0 5 10 15
Miles

EXHIBIT 39

Esselstyn Illustrative (1205) HDs 61, 64, 65, 66



Map layers

- Voting District
- County
- Districts:2

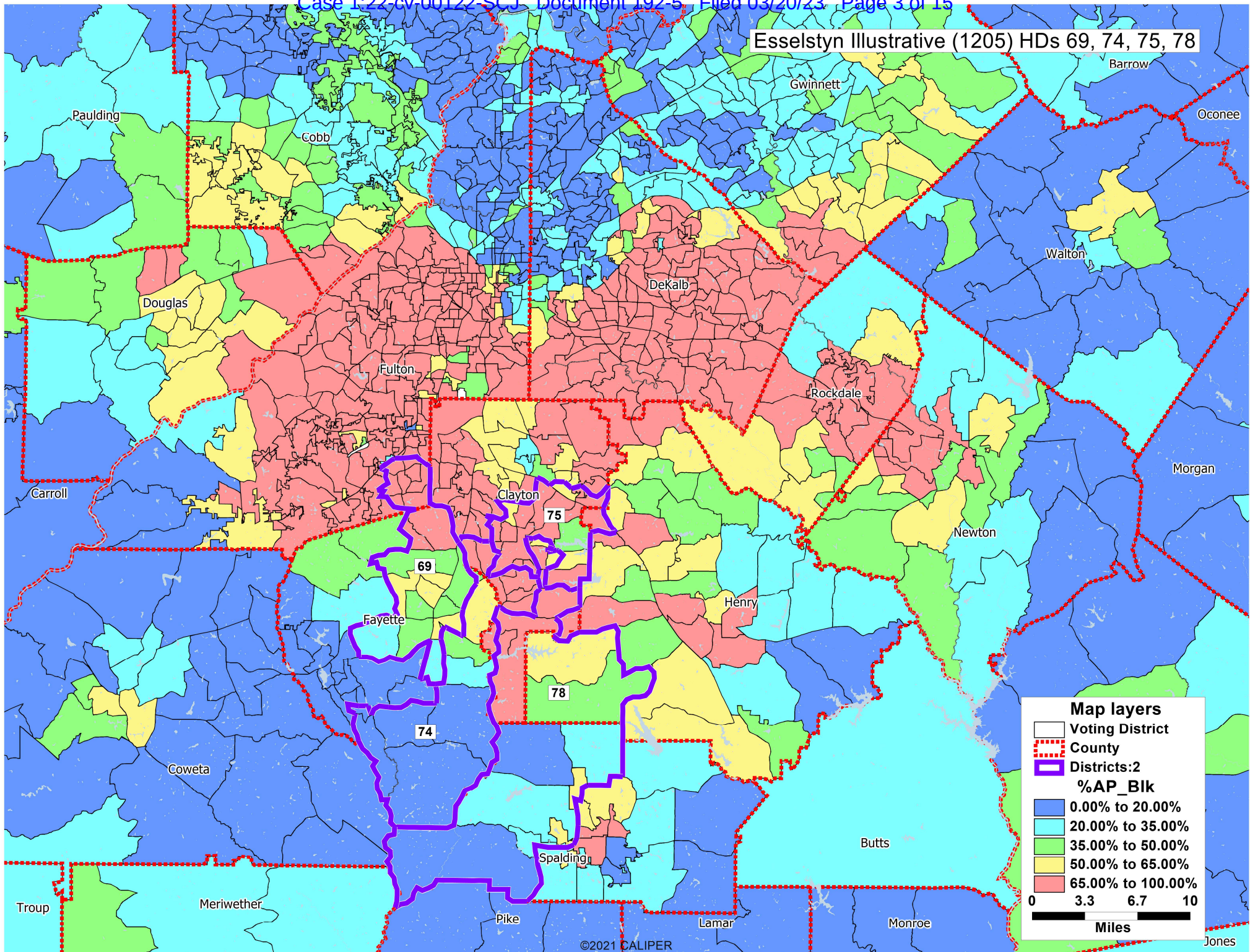
%AP_BIK

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- 20.00% to 35.00%
- 35.00% to 50.00%
- 50.00% to 65.00%
- 65.00% to 100.00%
- Other

0 3.3 6.7 10
Miles

EXHIBIT 40

Esselstyn Illustrative (1205) HDs 69, 74, 75, 78



Map layers

- Voting District
- County
- Districts:2

%AP_Bik

- 0.00% to 20.00%
- 20.00% to 35.00%
- 35.00% to 50.00%
- 50.00% to 65.00%
- 65.00% to 100.00%

0 3.3 6.7 10
Miles

EXHIBIT 41

Esselstyn Illustrative (1205) HDs 74, 75, 78

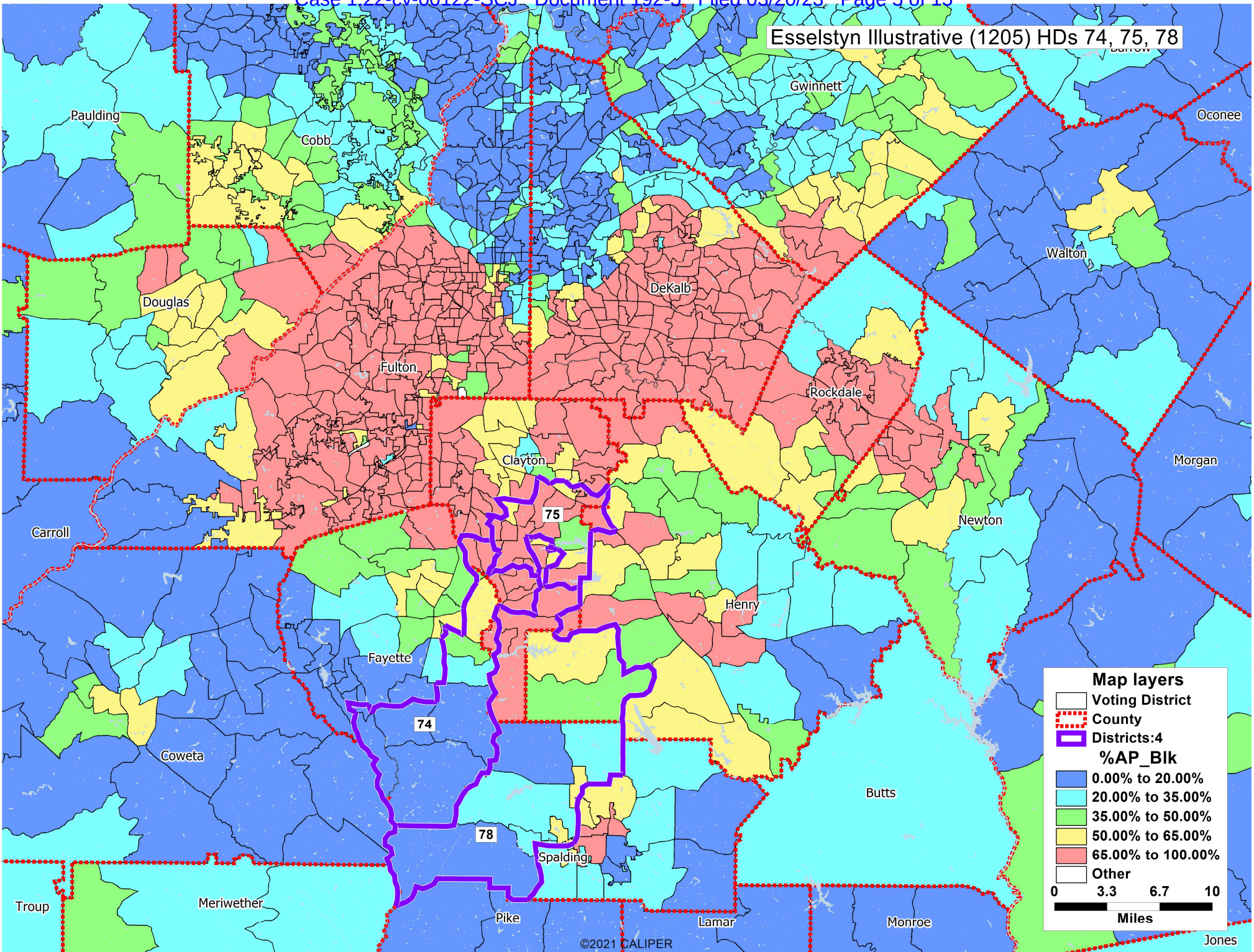
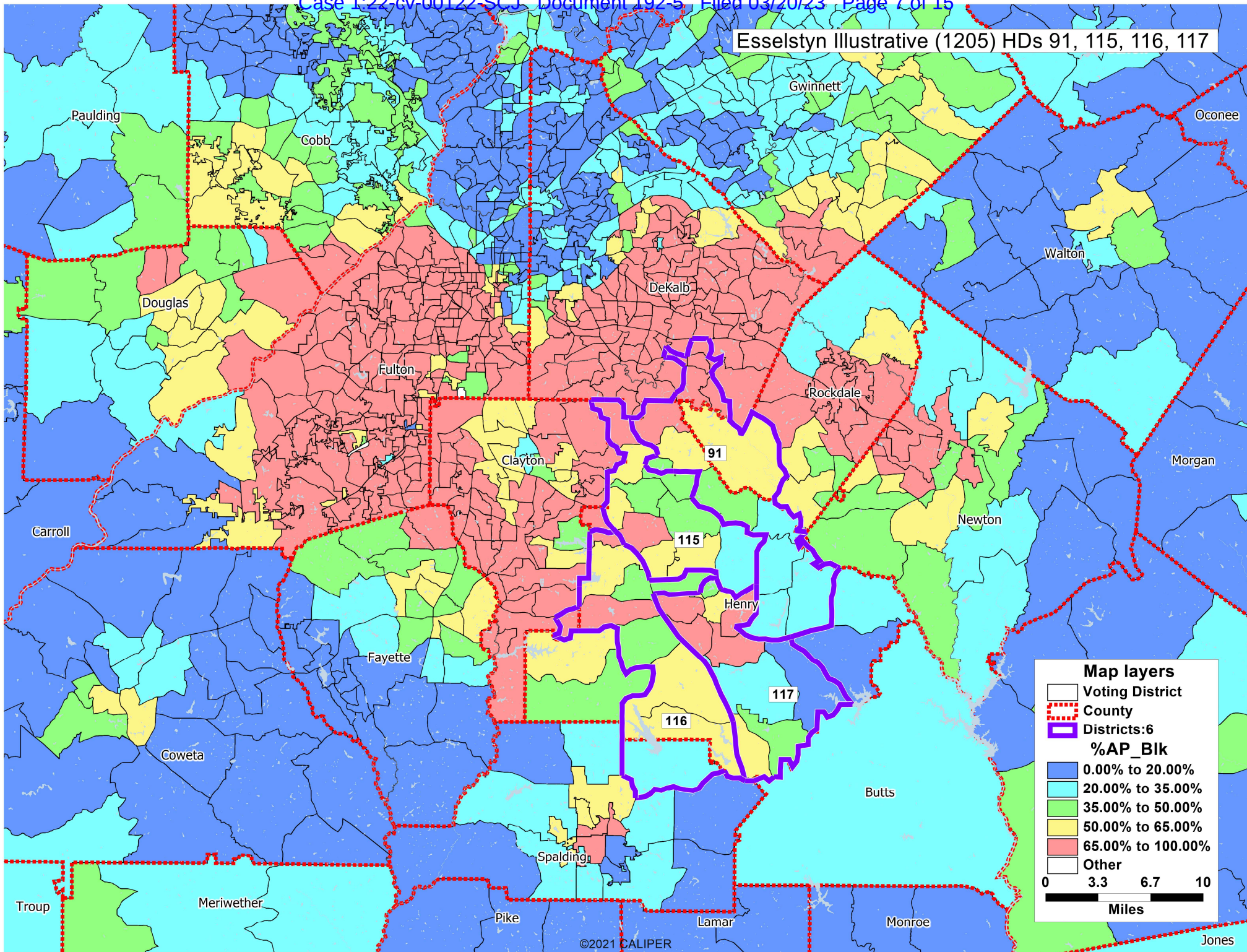


EXHIBIT 42

Esselstyn Illustrative (1205) HDs 91, 115, 116, 117



Map layers

- Voting District
- County
- Districts:6

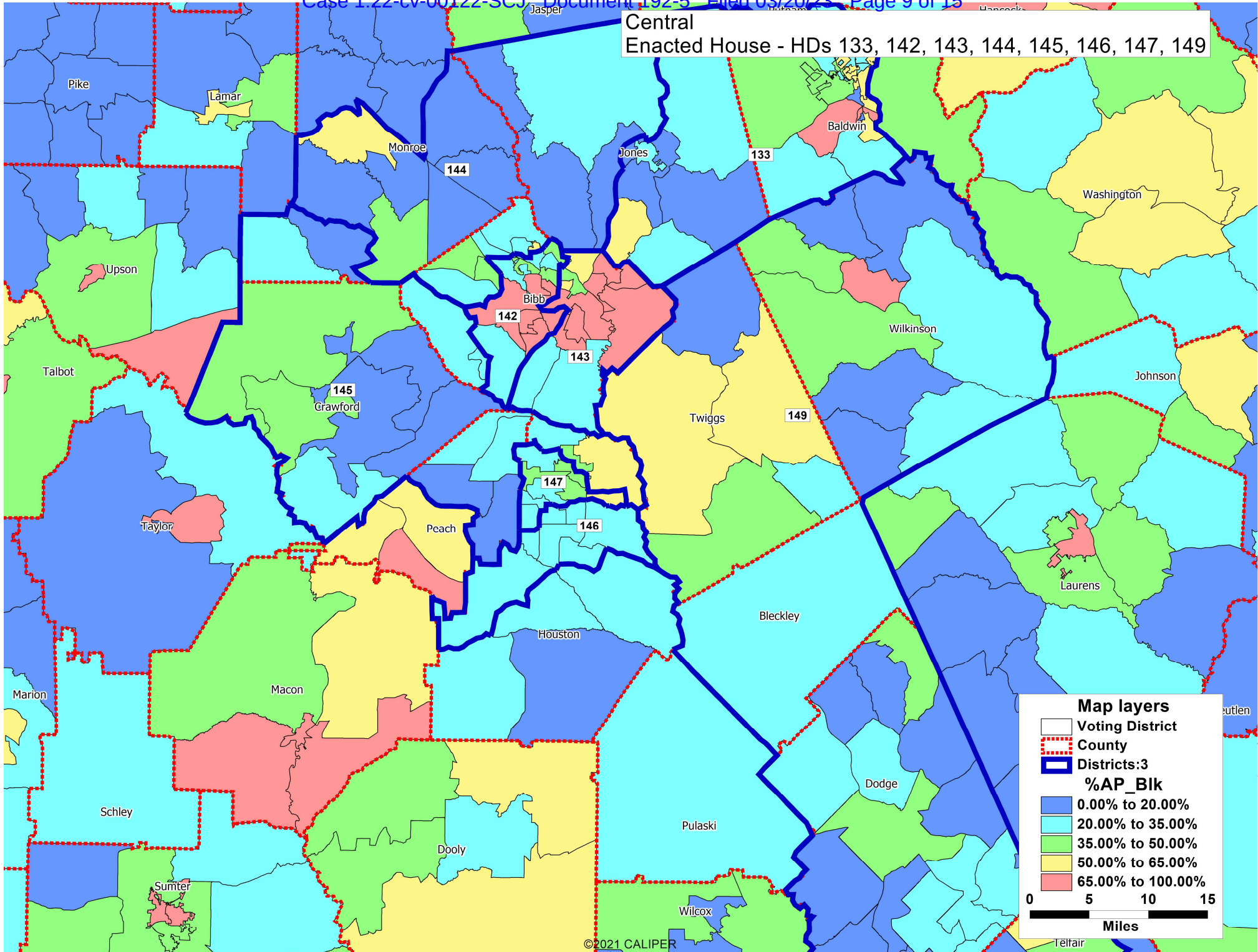
%AP_Bik

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- 20.00% to 35.00%
- 35.00% to 50.00%
- 50.00% to 65.00%
- 65.00% to 100.00%
- Other

0 3.3 6.7 10
Miles

EXHIBIT 43

**Central
Enacted House - HDs 133, 142, 143, 144, 145, 146, 147, 149**



Map layers

- Voting District
- County
- Districts:3
- %AP_Black**
- 0.00% to 20.00%
- 20.00% to 35.00%
- 35.00% to 50.00%
- 50.00% to 65.00%
- 65.00% to 100.00%

0 5 10 15
Miles

EXHIBIT 44

Enacted 2021 HDs 61, 64, 65, 66^{ow}

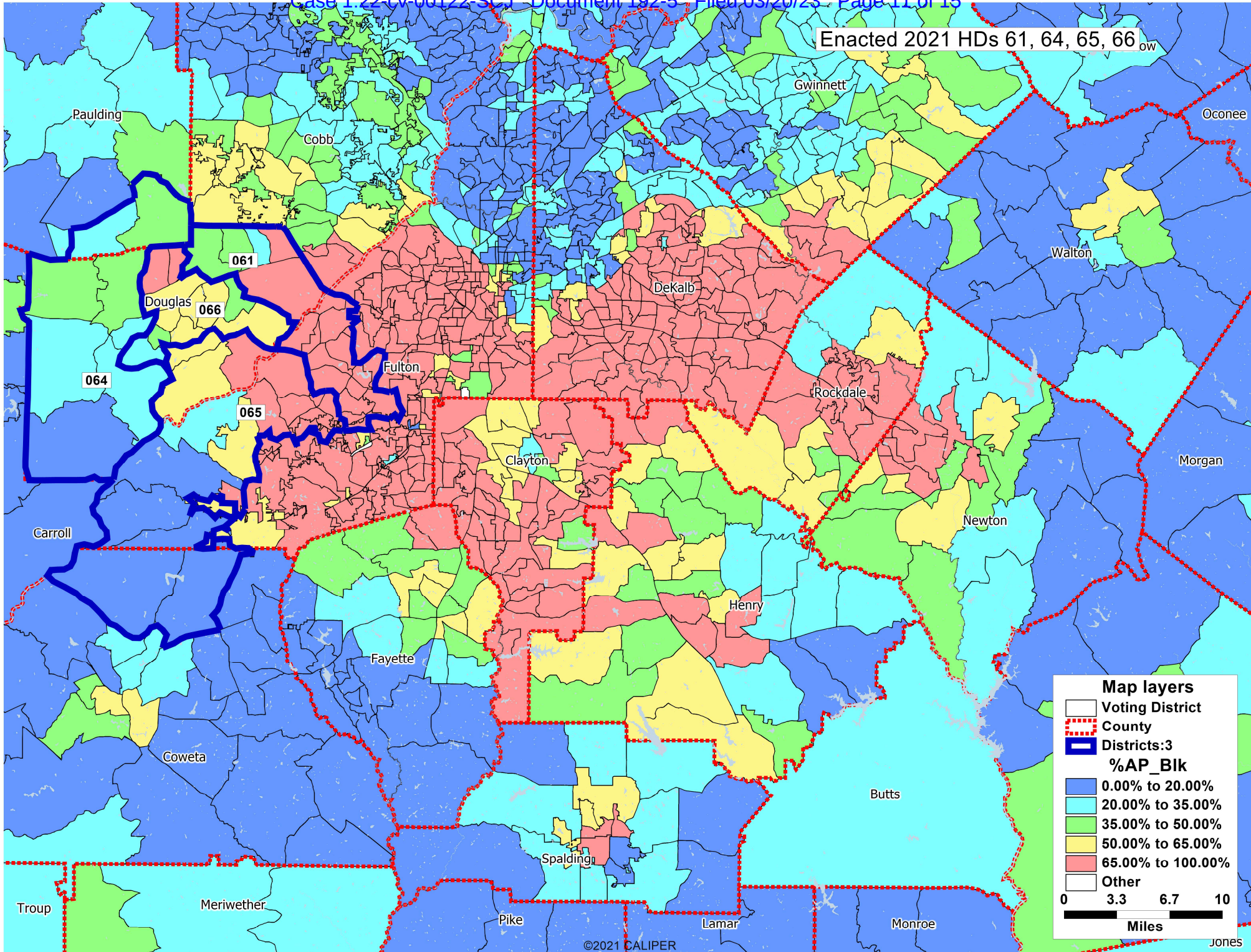


EXHIBIT 45

Enacted 2021 HDs 69, 74, 75, 78

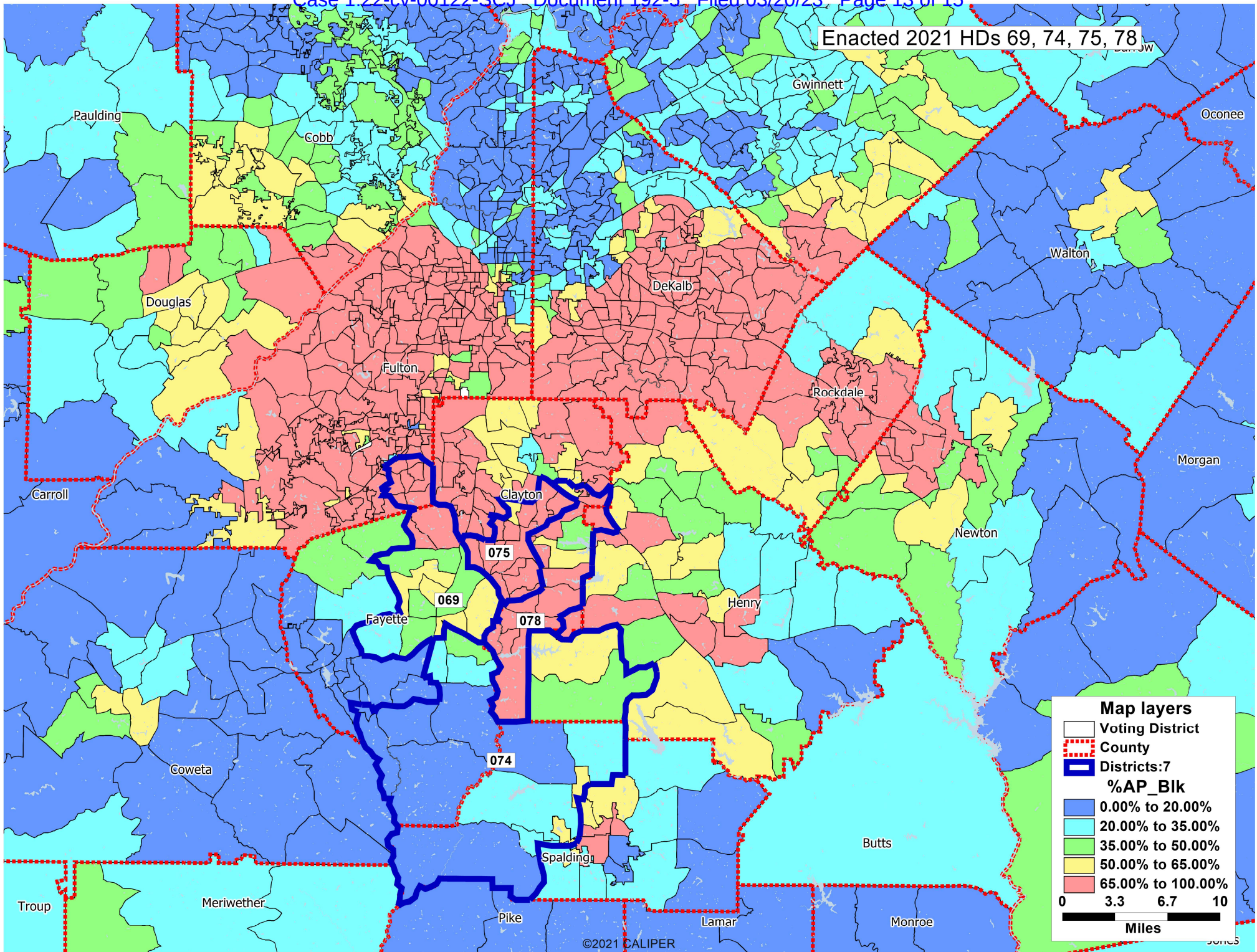
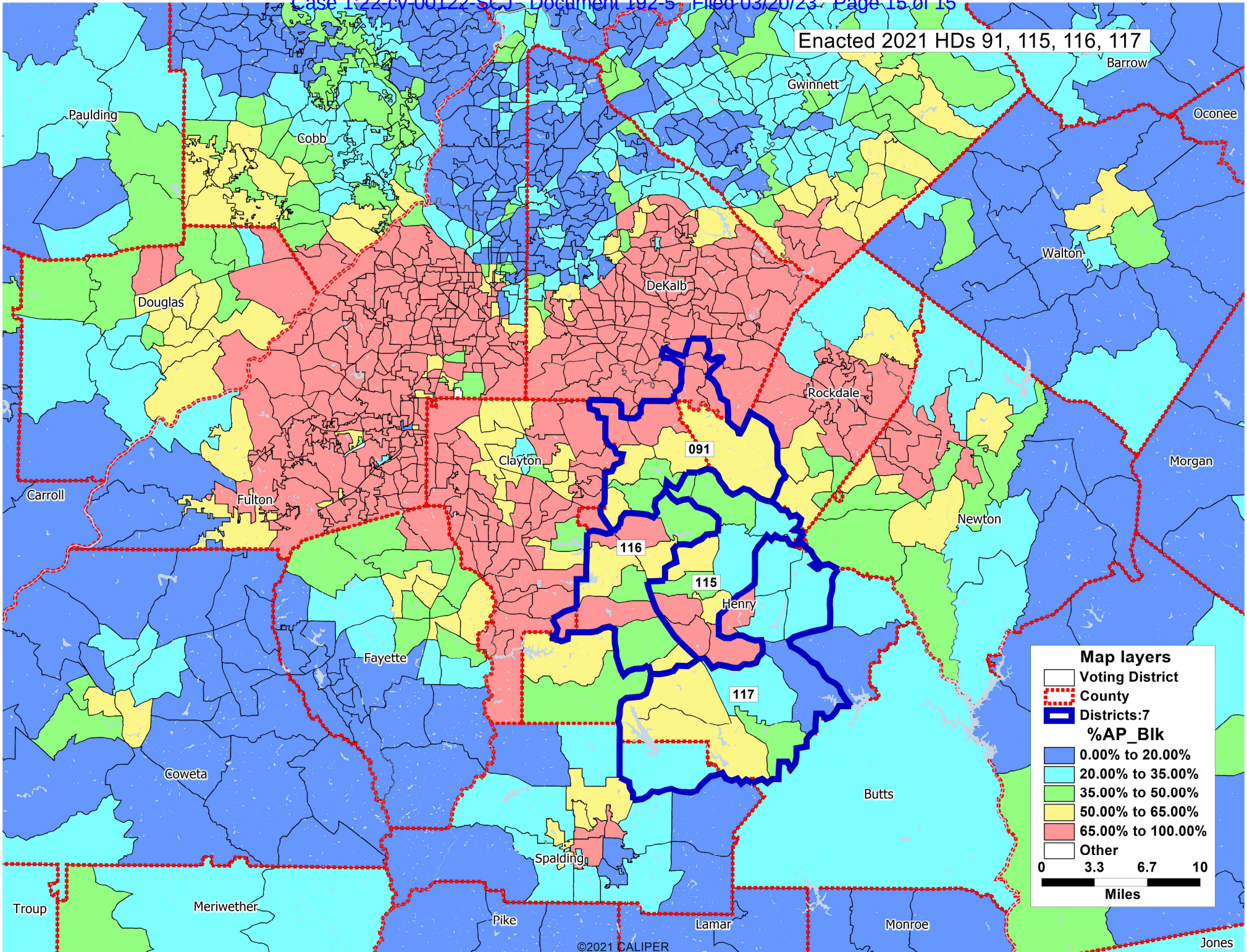


EXHIBIT 46

Enacted 2021 HDs 91, 115, 116, 117



Map layers

- Voting District
- County
- Districts:7
- %AP_BIK
- 0.00% to 20.00%
- 20.00% to 35.00%
- 35.00% to 50.00%
- 50.00% to 65.00%
- 65.00% to 100.00%
- Other

0 3.3 6.7 10
Miles

EXHIBIT D

**IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION**

ALPHA PHI ALPHA FRATERNITY
INC., et al.,

Plaintiffs,

vs.

BRAD RAFFENSPERGER, in his
official capacity as Secretary of State of
Georgia.

Defendant.

Civ. No. 21-5337

DECLARATION OF WILLIAM S. COOPER

WILLIAM S. COOPER, acting in accordance with 28 U.S.C. § 1746, Federal Rule of Civil Procedure 26(a)(2)(B), and Federal Rules of Evidence 702 and 703, does hereby declare and say:

I. INTRODUCTION

1. My name is William S. Cooper. I have a B.A. in Economics from Davidson College. As a private consultant, I serve as a demographic and redistricting expert for the Plaintiffs.

2. I have testified at trial as an expert witness on redistricting and demographics in federal courts in about 50 voting rights cases since the late 1980s. Over 25 of the cases led to changes in local election district plans. Five of the cases

resulted in changes to statewide legislative boundaries: *Rural West Tennessee African-American Affairs Council, Inc. v. McWherter*, No. 92-cv-2407 (W.D. Tenn. 1995); *Old Person v. Brown*, No. 96-cv-0004 (D. Mont. 2002); *Bone Shirt v. Hazeltine*, No. 01-cv-3032 (D.S.D. 2004); *Alabama Legislative Black Caucus v. Alabama*, No. 12-cv-691 (M.D. Ala. 2017), and *Thomas v. Reeves* (S.D. Miss. 2019). In *Bone Shirt v. Hazeltine*, the court adopted the remedial plan I developed.

3. I served as the *Gingles* 1 expert for two post-2010 local-level Section 2 cases in Georgia, *NAACP v. Fayette County* and *NAACP v. Emanuel County*. In both cases, the parties settled on redistricting plans that I developed (with input from the respective defendants). In the latter part of the decade, I served as the *Gingles* 1 expert in three additional Section 2 cases in Georgia, which were all voluntarily dismissed after the 2018 elections: *Georgia NAACP v. Gwinnett County*, No. 1:16-cv-02852-AT; *Thompson v. Kemp*, No. 1:17-cv-01427 (N.D. Ga. 2018); and *Dwight v. Kemp*, No. 1:18-cv-2869 (N.D. Ga. 2018).

4. In 2022, I have testified as an expert in redistricting and demographics in six cases challenging district boundaries under Section 2 of the Voting Rights Act: *Caster v. Merrill*, No. 21-1356-AMM (N.D. Ala.), *Pendergrass v. Raffensperger*, No. 21-05337-SCJ (N.D. Ga.), *Alpha Phi Alpha Fraternity v. Raffensperger*, No. 21-05339-SCJ (N.D. Ga.), *NAACP v Baltimore County*, No.21-cv-03232-LKG (Md.), *Christian Ministerial Alliance v. Hutchinson* No. 4:19-cv-402-JM (E.D.

Ark.), and *Robinson v Ardoin*, No. 3:22-cv-00211-SDD-SDJ (M.D. La.). I also testified at trial this year as an expert on demographics in *NAACP v. Lee*, No. 4:21-cv-187-MW/MAF (N.D. Fla.), a case involving recent changes to Florida election law.

5. Since the release of the 2020 Census, three county commission-level plans I developed as a private consultant have been adopted by local governments in San Juan County, Utah, Bolivar County, Mississippi, and Washington County, Mississippi. In addition, a school board plan I developed was adopted by the Jefferson County, Alabama Board of Education subsequent to my expert work in the long-running case of *Stout v. Jefferson County Board of Education*, No. 2:65-cv-00396-MHH (N.D. Ala.).

6. My redistricting experience is further documented in my curriculum vitae, which is attached as **Exhibit A**.

A. Purpose of Declaration

7. The attorneys for the Plaintiffs in this case asked me to determine whether the African-American¹ population in Georgia is “sufficiently large and

¹ In this report, “African-American” refers to persons who are single-race Black or Any Part Black (i.e. persons of two or more races and some part Black), including Hispanic Black. In some instances (e.g. for historical comparisons) numerical or percentage references identify single-race Black as “SR Black” and Any Part Black as “AP Black.” Unless noted otherwise, “Black” means AP Black. It is my understanding that following the U.S. Supreme Court decision

geographically compact” to allow for the creation, consistent with traditional redistricting principles, of additional majority-Black Senate and House districts beyond those created in the legislative plans that were signed into law by Governor Kemp on December 30, 2021—in other words, districts that meet the first *Gingles* precondition (“*Gingles 1*”).²

8. For purposes of the *Gingles 1* analysis in this report, and unless otherwise noted, I define majority-Black districts as those that are majority-Black voting age (“BVAP”). I also report whether districts are majority-Black citizen voting age (“BCVAP”).³

in *Georgia v. Ashcroft*, 539 U.S. 461 (2003), the “Any Part” definition is an appropriate Census classification to use in most Section 2 cases.

Throughout this report, I refer to the two legislative plans signed into law by Governor Kemp as the “2021 Senate Plan” and the “2021 House Plan,” respectively.

² See *Thornburg v. Gingles*, 478 U.S. 30, 50 (1986).

³ The CVAP levels reported herein are estimates based on block group level information published by the U.S. Census Bureau’s American Communities Survey (ACS). Unless noted otherwise, the CVAP estimates I report here count only persons who are non-Hispanic (“NH”) SR Black – and are therefore the most conservative measure of Black citizenship. In the summary population exhibits that I have prepared for each plan, I also report the NH DOJ Black CVAP metric. The NH DOJ Black CVAP category includes voting age citizens who are either NH SR Black or NH Black and White. An “Any Part Black CVAP” category which would include Black Hispanics cannot be calculated from the 5-Year ACS Census Bureau Special Tabulation.

The most current ACS data available is from the 2016-2020 ACS Special Tabulation, with a survey midpoint of July, 1 2018. <https://www.census.gov/programs-surveys/decennial-census/about/voting-rights/cvap.html>. The 2016-2020 estimates reflect Census 2020 population distribution. The 2017-2021 Special Tabulation will be released by the Census Bureau in early 2023, which could require updates to the number of majority-BCVAP districts by plan.

9. The two illustrative plans that I have prepared (one for the State House and one for the State Senate) demonstrate that Georgia’s Black population is sufficiently numerous and geographically compact to allow for the creation of at least three additional majority-Black Senate districts and at least five additional majority-Black House districts.

10. The illustrative plans comply with traditional redistricting principles, including population equality, compactness, contiguity, respect for communities of interest, and the non-dilution of minority voting strength.

11. The illustrative plans are drawn to follow, to the extent possible, county and VTD⁴ boundaries. Where counties are split to comply with one-person one-vote requirements or to avoid pairing incumbents, I have generally used whole 2020 Census VTDs as sub-county components. Where VTDs are split, I have followed census block boundaries that are aligned with roads, natural features, census block groups, municipal boundaries, and/or current county commission districts.

12. **Exhibit B** describes the sources and methodology I have employed in the preparation of this report and the illustrative plans. Briefly, I used the Maptitude software program as well as data and shapefiles from the U.S. Census Bureau and the Georgia Legislative and Congressional Reapportionment Office, among other

⁴ “VTD” is a Census Bureau term meaning “voting tabulation district.” VTDs generally correspond to precincts. Statewide, there are 2,698 2020 VTDs.

sources. I also used official incumbent address information supplied to Plaintiffs' attorneys by Defendants in January 2022, as well as another potential database of incumbent address information following the November 2022 General Election using the 2021 Plans, which I understand is largely based on the address information contained in the candidate qualifying materials of successful State House and State Senate candidates.

B. Summary of Expert Conclusions

13. Based on my *Gingles* 1 analysis, I conclude the following:

State Senate

- The 2021 Senate Plan contains 14 majority-Black districts that are BVAP majority (15 are BCVAP majority).
- As shown in the Plaintiffs' Illustrative Senate Plan, a statewide Senate plan can be drawn with 18 majority-Black districts, including two additional majority-Black districts in south Metro Atlanta and an additional majority-Black district anchored in the eastern portion of Georgia's Black Belt (encompassing part of Augusta-Richmond County and extending west to Twiggs County).⁵

⁵ The Illustrative Senate Plan described *infra* also creates an additional majority- Black Senate district in the counties of Cobb and Fulton (District 33), for a total of 18 statewide.

- The Black population in south Metro Atlanta is sufficiently numerous and geographically compact to allow for the creation of at least two additional compact majority-Black Senate districts, while adhering to traditional redistricting principles.
- The Black population in and around Georgia's eastern Black Belt counties is sufficiently numerous and geographically compact to form an additional majority-Black Senate district, while adhering to traditional redistricting principles.

State House

- The 2021 House Plan contains 49 majority-Black districts (47 of which are also majority BCVAP).
- As shown in the Plaintiffs' Illustrative House Plan, a statewide House Plan can be drawn with at least 54 majority-Black districts (53 that are both BVAP and BCVAP majority), including five additional majority-Black districts. Two of the additional majority Black districts are anchored in south Metro Atlanta, two are in Georgia's Black Belt (one in the eastern end of the Black Belt and one in the western end, in Southwest Georgia), and one is in metropolitan Macon.

- The Black population in south Metro Atlanta is sufficiently numerous and geographically compact to allow for the creation of at least two additional majority-Black House districts in Metro Atlanta, while adhering to traditional redistricting principles.
- The Black population in and around the eastern Black Belt counties is sufficiently numerous and geographically compact to form an additional majority-Black House district, while adhering to traditional redistricting principles.
- The Black population in and around the western Black Belt counties is sufficiently numerous and geographically compact to form an additional majority-Black House district, while adhering to traditional redistricting principles.
- The Black population in metropolitan Macon is sufficiently numerous and geographically compact to form an additional majority-Black district, while adhering to traditional redistricting principles.

C. Gingles 1 Analysis – Focus Areas

14. According to the data collected in the 2020 Census, and as discussed in further detail below, Georgia’s Black population has grown significantly since 2010. The State’s Black population is up by 484,848 persons, the equivalent of 2.5

100% Black State Senate districts or eight 100% Black State House districts. By contrast, the State’s non-Hispanic (“NH”) White population actually declined during that same period. Yet despite the significant growth in Georgia’s Black population since 2010, almost no additional majority-Black districts are created in Georgia’s 2021 Senate and House Plans.⁶

15. The 2021 Senate Plan merely maintains the status quo, with 14 majority-Black districts, the same number as in the previous plan which was enacted in 2012 and first used in 2014 during mid-decade redistricting (the “2014 Benchmark Senate Plan”).⁷

16. The 2021 House Plan has two more majority-Black districts than the previous plan, which was enacted in 2015 (the “2015 Benchmark House Plan”) (and which in turn incorporated a discrete set of changes to the plan enacted in

⁶ The ideal population size for a Senate district is 191,284 and 59,511 for a House district. Those numbers are derived from the State’s total population and the number of seats in each body.

⁷ I am counting Senate District 41 (DeKalb County) as majority-Black under the 2014 Benchmark Senate Plan. That district, which was 51.4% BVAP when drawn under the 2010 Census, slipped to 49.76% BVAP according to the 2020 Census. It remained a BCVAP-majority district at 57.22% BCVAP, according to the 2015-19 ACS.

Notably, Senate District 2 (Chatham County) in the 2014 Benchmark Senate Plan was similarly drawn at 50.94% BVAP based on 2010 Census data, but had fallen to 47.09% BVAP under the 2020 Census. District 2 is no longer majority-BVAP (46.86% in the 2021 Senate Plan and 46.33% under the Illustrative Senate Plan *infra*) but remains majority-BCVAP in both plans. I am not counting Senate District 2 as majority-Black under the 2014 Benchmark Senate Plan, though I note that doing so would result in the 2021 Senate Plan having one *fewer* majority-Black Senate district than its predecessor plan (14 under the 2021 Senate Plan versus 15 under the 2014 Benchmark Senate Plan).

2012).⁸ That small increase is nowhere near commensurate with the significant growth of Georgia’s Black population during that period.

17. Under the 2021 Senate Plan, 10 of the 14 majority-Black districts are in Metro Atlanta. Under the 2021 House Plan, 33 of the 49 majority-Black districts are in Metro Atlanta.⁹

18. To determine where additional majority-Black districts could be drawn, I focused on areas with substantial Black populations, in particular:

(1) Metro Atlanta counties (as defined by the Atlanta-Sandy Springs-Alpharetta Metropolitan Statistical Area (“MSA”) boundaries) shown in the Census Bureau’s map in **Exhibit C**;

(2) Georgia’s Black Belt, as illustrated by the Georgia Budget and Policy

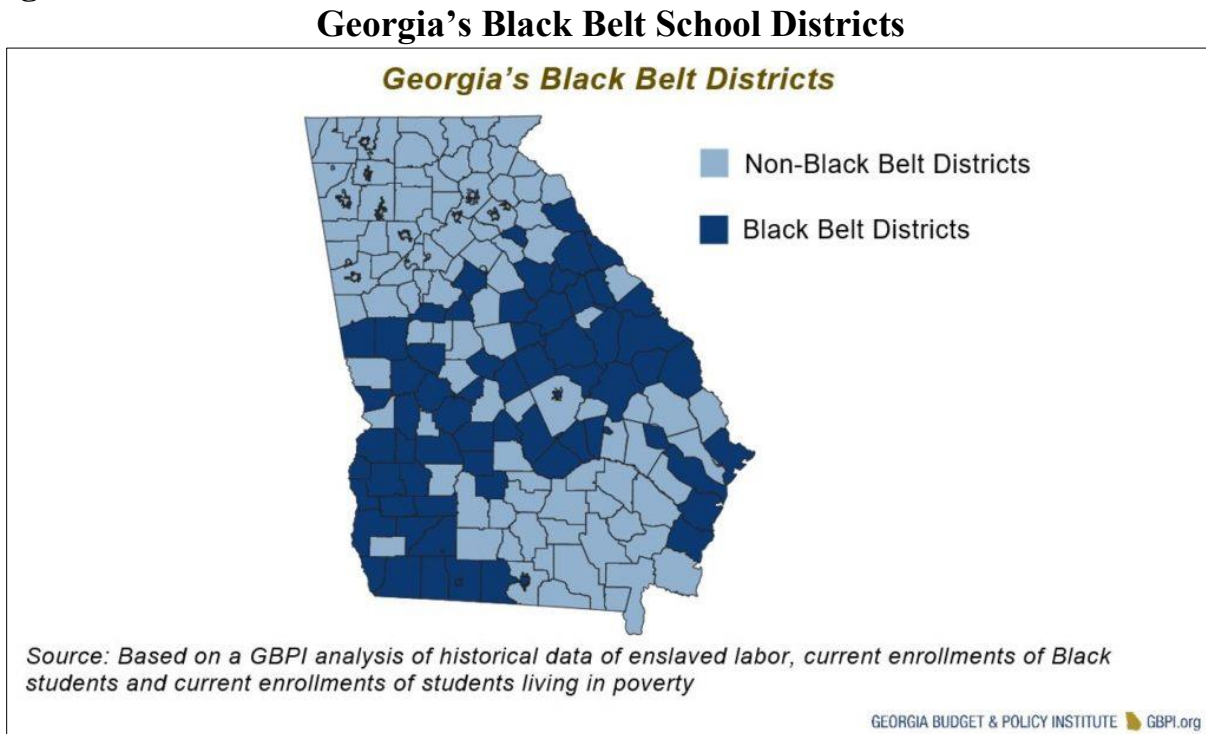
⁸ The Senate and House plans initially enacted after the 2010 Census are included in **Exhibits I-2** and **V-2**, *infra*. These historical plans are not substantially different than the Benchmark plans with respect to the number of majority-Black districts. The prior Senate and House maps, enacted in 2006, are also included in **Exhibits I-3** and **V-3**, respectively.

⁹ In this report, Metro Atlanta refers to the 29-county Atlanta Metropolitan Statistical Area (“MSA”) defined by the U.S. Office of Management and Budget. It includes the Counties of Barrow, Bartow, Butts, Carroll, Cherokee, Clayton, Cobb, Coweta, Dawson, DeKalb, Douglas, Fayette, Forsyth, Fulton, Gwinnett, Haralson, Heard, Henry, Jasper, Lamar, Meriwether, Morgan, Newton, Paulding, Pickens, Pike, Rockdale, Spalding, and Walton.

MSA is an abbreviation for “metropolitan statistical area.” Metropolitan statistical areas are defined by the U.S. Office of Management and Budget and reported in historical and current census data produced by the Census Bureau. MSAs “consist of the county or counties (or equivalent entities) associated with at least one urbanized area of at least 50,000 population, plus adjacent counties having a high degree of social and economic integration with the core as measured through commuting ties.” U.S. Census Bureau, “About,” <https://www.census.gov/programs-surveys/metro-micro/about.html>.

Institute (“GBPI”) map in **Figure 1**.¹⁰ **Exhibit D** is an excerpt from the GBPI report (Appendix A) identifying the Black Belt counties and school districts depicted in **Figure 1**.

Figure 1



19. More broadly, and as the GBPI report explains, the term “Black Belt” refers to a swath of the American South that historically had large numbers of enslaved Black persons, and that today continues to have substantial Black populations. In Georgia, the area comprising the Black Belt extends roughly

¹⁰ For a current and historical analysis of Georgia’s Black Belt, see Stephen Owens, *Education in Georgia’s Black Belt: Policy Solutions to Help Overcome a History of Exclusion* (GBPI October 10, 2019), <https://gbpi.org/education-in-georgias-black-belt>.

southwest from the area around Augusta through Macon and Middle Georgia and on to the southwest corner of the State.

20. Upon review, I narrowed my focus to four regions within those larger areas (as illustrated by the maps in **Exhibit E** and **Figure 4**, *infra*):

21. **(Region A) South Metro Atlanta:** suburban /exurban counties in a significantly Black, racially diverse, and geographically compact region that has emerged over the past quarter of a century—specifically, the counties of Fayette, Spalding, Henry, Rockdale, and Newton.

22. The Georgia Governor’s Office of Planning and Budget projects that this 5-county region will have 725,000 residents by the time of the 2030 Census – up by about 92,000 persons over the Census 2020 enumeration, of whom 61% will be non-White. African-Americans are projected to account for about 60% of the non-White population increase.¹¹

23. Under the 2021 Senate Plan, parts of three majority-Black districts are in the south Metro counties—Senate Districts 10, 34, and 43.

24. Under the 2021 House Plan, parts of seven majority-Black House districts are in these five south Metro counties.

¹¹ Georgia Governor’s Office of Planning and Budget, “Population Projections,” <https://opb.georgia.gov/census-data/population-projections>.

25. **(Region B) Eastern Black Belt:** urban Black Belt Richmond County (Augusta) plus a group of rural Black Belt counties in a geographically compact area. Several of the rural counties are home to long-standing Black communities that have not been in a majority-Black Senate district since the passage of the 1965 Voting Rights Act.

26. All of the Region B counties are part of the Central Savannah River Area Regional Commission, as shown in **Exhibit F** on the regional commission map prepared by the Georgia Department of Community Affairs (“GDCA”). Georgia’s Regional Commissions are “public agencies created and established by the Georgia Planning Act (O.C.G.A. 50-8-32) in order to assist local governments on a regional basis and to develop, promote and assist in establishing coordinated and comprehensive planning in the state.”¹²

27. Region B encompasses the following Central Savannah River Area Regional Commission counties: (counter clockwise from east to west) Jenkins, Burke, Richmond, Jefferson, McDuffie, Wilkes, Taliaferro, Glascock, Warren, Washington, and Hancock. Ten of these 11 contiguous counties—excluding Glascock (pop. 2,884)—are identified as part of Georgia’s Black Belt by GBPI.

¹² See Georgia Department of Community Affairs, “Regional Commissions,” <https://www.dca.ga.gov/local-government-assistance/planning/regional-planning/regional-commissions>; New Georgia Encyclopedia, “Regional Commissions of Georgia,” <https://www.georgiaencyclopedia.org/articles/government-politics/regional-commissions-of-georgia/>.

Moreover, additional adjacent counties, such as Baldwin County, lie outside the Central Savannah River Area Regional Commission area but are also identified as part of the Black Belt by GBPI and have substantial Black populations.

28. The 2021 Senate Plan includes one majority-Black district in Region B—Senate District 22 (56.5% BVAP)—in Augusta-Richmond County, and a small part of another majority Black district—Senate District 26 (56.99% BVAP)—anchored in Macon-Bibb County.

29. The 2021 House Plan contains five majority-Black districts in the Region B area.

30. **(Region C) Western Black Belt:** urban Black Belt Dougherty County (Albany) plus a group of southwest Georgia rural Black Belt counties in a geographically compact area, implicitly identified in the area encompassed by majority-Black Senate District 12 (57.97% BVAP) in the 2021 Senate Plan. Region C encompasses part of the Southwest Georgia and Valley River Area Regional Commission areas depicted on the GDCA map in **Exhibit F**.

31. The 2021 House Plan contains just two majority-Black House districts in Region C, even though there is obviously sufficient Black population to create three districts in an area generally circumscribed by majority-Black Senate District

12 in the 2021 Senate Plan. (This is obvious because Senate Districts are just over three times the size of House Districts.)

32. Senate District 12 encompasses 13 counties: (counter clockwise from north to south on the GDCA map) Sumter, Webster, Stewart, Quitman, Randolph, Terrell, Clay, Calhoun, Dougherty, Early, Miller, Baker, and Mitchell. Twelve of the 13 counties—excluding Miller (pop. 6,000)—are identified by GBPI as Black Belt counties.¹³ Moreover, additional adjacent counties, such as Thomas County, lie outside of Senate District 12 in the 2021 Senate Plan but are also identified as part of the Black Belt by GBPI and have substantial Black populations.

33. **(Region D): Metropolitan Macon:** a seven-county region in Middle Georgia defined by the combined MSAs of Macon-Bibb and Warner Robins. Three of the Macon area counties are identified as part of Georgia's Black Belt by

¹³ Plaintiffs' Illustrative Senate Plan also contains a majority-Black Senate District in the same general area of southwest Georgia, Illustrative Senate District 12 (57.97% BVAP).

GBPI—Macon-Bibb, Peach, and Twiggs, encompassing about 59% of the Black population (177,269) in the seven-county region.¹⁴

34. As shown in the map in **Exhibit F**, these seven MSA counties form the core of the Middle Georgia Regional Commission.

35. As is the case with Region C, the 2021 House Plan contains just two majority-Black House districts in Region D, even though there is obviously sufficient Black population to create three House districts in an area generally circumscribed by the Macon-Bibb Warner Robins portion of majority-Black Senate District 26 in the 2021 Senate Plan.¹⁵

D. Organization of Declaration

36. The remainder of this report is organized as follows: **Section II** reviews state and regional demographics since 1990. **Section III** reviews the benchmark 2014 Senate Plan and the 2021 Senate Plan. **Section IV** presents the Illustrative Senate Plan that I have prepared, containing 18 majority-Black districts. **Section V** reviews the benchmark 2015 House Plan and the enacted 2021 House Plan. **Section**

¹⁴ The Macon-Bibb MSA includes the Counties of Twiggs, Macon-Bibb, Jones, Monroe, and Crawford. The adjacent Warner Robins MSA encompasses Houston and Peach Counties. As noted *supra*, MSAs are in part defined by “counties having a high degree of social and economic integration with the core as measured through commuting ties.”

¹⁵ The Illustrative Senate Plan *infra* also contains a majority-Black Senate District in the same general area of metropolitan Macon, Illustrative Senate District 12 (52.81% BVAP), in the counties of Macon-Bibb and Houston.

VI presents the Illustrative House Plan that I have prepared, containing 54 majority-Black districts.

37. An **Appendix** at the end of my report contains maps and population summaries overlaying the challenged districts in the 2021 House and Senate Plans onto historical plans that were in effect from the late 1990s to 2021. I prepared the maps and population summaries in the Appendix at the request of the attorneys for the Plaintiffs. The maps and accompanying population data show how the population living in the area of the challenged districts has been divided and distributed into historical districts under legislative plans from the 1990s to the present day.

II. DEMOGRAPHIC PROFILE – STATEWIDE AND REGIONAL

38. This section provides current and historical population summaries for Georgia, Metro Atlanta, and for the four distinct areas where additional majority-Black legislative districts can be created—generally defined by **(Region A)** the 5-county south Metro Atlanta area, **(Region B)** the 11-county area in the eastern Black Belt within the Augusta/Central Savannah River Regional Commission area, **(Region C)** the 13-county western Black Belt around Albany and Southwest Georgia, and **(Region D)** the 7-county combined Macon-Bibb Warner Robins MSAs within the larger geographic area defined by the Middle Georgia Regional Commission.

A. 2010 to 2020: A Decade of Minority Population Growth in Georgia

39. According to the 2020 Census, Georgia has a total population of 10,711,908—up by 1.02 million since 2010. Georgia’s population growth since 2010 can be attributed entirely to gains in the overall minority population.

40. Between 2010 and 2020, nearly half (47.26%) of the State’s population gain is attributed to Black population growth.

41. **Figure 2** reveals that Georgia’s Black population, as a share of the overall statewide population, increased between 2010 and 2020 from **31.53%** Black in 2010 to **33.03%** in 2020. Over the 2010 to 2020 decade, the Black population in Georgia increased by 484,048 persons—an increase of nearly 16% from the 2010 baseline. By contrast, between 2010 and 2020, the NH White population fell by - 51,764 persons.

Figure 2

**Georgia – 2010 Census to 2020 Census
Population by Race and Ethnicity**

	2010 Number	Percent	2020 Number	Percent	2010 - 2020 Change	% 2010 - 2020 Change
Total Population	9,687,653	100.0%	10,711,908	100.00%	1,024,255	9.56%
NH White*	5,413,920	55.88%	5,362,156	50.06%	-51,764	-0.48%
Total Minority Pop.	4,273,733	44.12%	5,349,752	49.94%	1,076,019	10.05%
Latino	853,689	8.81%	1,123,457	10.49%	269,768	2.52%
NH Black*	2,910,800	30.05%	3,278,119	30.60%	367,319	3.43%
NH Asian*	311,692	3.22%	475,680	4.44%	163,988	1.53%
NH Hawaiian and PI*	5,152	0.05%	6,101	0.06%	949	0.01%
NH American Indian and Alaska Native*	21,279	0.22%	20,375	0.19%	-904	-0.01%
NH Other*	19,141	0.20%	55,887	0.52%	36,746	0.34%
NH Two or More Races	151,980	1.57%	390,133	3.65%	238,153	2.22%
SR Black (Single-race Black)	2,950,435	30.46%	3,320,513	31.00%	370,078	3.45%
AP Black (Any Part Black)	3,054,098	31.53%	3,538,146	33.03%	484,048	4.52%
NH Any Part Black	2,997,627	30.94%	3,455,484	32.26%	457,857	4.27%

* Single-race, non-Hispanic.

42. Non-Hispanic Whites are a razor-thin majority of the 2020 population (50.06%). Black Georgians account for one-third (33.03%) of the population and comprise the largest minority population, followed by Latinos (10.49%).

B. Voting Age and Citizen Voting Age Populations in Georgia

43. As shown in **Figure 3**, African Americans in Georgia constitute a slightly smaller percentage of the voting age population (VAP) than the total population. According to the 2020 Census, Georgia has a total VAP of 8,220,274 – of whom 2,607,986 (31.73%) are AP Black. The NH White VAP is 4,342,333 (52.82%).

Figure 3**Georgia – 2020 Voting Age Population & 2021 Estimated Citizen Voting Age Population by Race and Ethnicity¹⁶**

	2020 VAP	2020 VAP Percent	2021 CVAP Percent
Total	8,220,274	100.00%	100.00%
NH White 18+	4,342,333	52.82%	55.7%
Total Minority 18+	3,877,941	47.18%	44.3%
Latino 18+	742,918	9.04%	5.9%
Single-race Black (Including Black Hispanics) 18+	2,488,419	30.27%	31.4%
Any Part Black (Including Black Hispanics) 18+	2,607,986	31.73%	33.3%

44. The rightmost column in **Figure 3** reveals that both the Black and NH White population comprise a higher percentage of CVAP than the corresponding VAP, owing to higher non-citizenship rates among other minority populations.

45. According to estimates from the 2021 1-year *American Community Survey* (“ACS”), African Americans represent 33.3% of the statewide CVAP—about 1.5 percentage points higher than the 2020 AP Black VAP. The NH White CVAP is 55.7%, nearly 3 points higher than NH White VAP in the 2020 Census.

¹⁶ Sources:

PL94-171 Redistricting File (Census 2020);

Table S2901 -- CITIZEN, VOTING-AGE POPULATION BY SELECTED CHARACTERISTICS (1-year 2021 ACS)

<https://data.census.gov/cedsci/table?q=S2901&g=0400000US13&tid=ACSST1Y2021.S2901>

2021 ACS 1-Year Estimates Public Use Microdata Sample

<https://data.census.gov/mdat/#/search?ds=ACSPUMS1Y2021&vv=AGEP%2800,18%3A99%29&cv=RACBLK%281%29&rv=ucgid,CIT%281,2,3,4,%29&wt=PWGTP&g=0400000US13>

46. The Black CVAP in Georgia is poised to go up this decade. According to the 2021 1-year ACS, Black citizens of all ages represent 34.45% of all citizens.¹⁷

C. 2020 Census Spatial Distribution of Georgia's Black Population

47. The map in **Figure 4** below depicts the 2020 Black population percentage for Georgia's 159 counties. 67 are in the 20% to 40% range, 33 are 40% to 60%, and 8 are between 60% and 73%. The bold black boundary identifies the Atlanta MSA.

48. Color lines on the **Figure 4** map demarcate the areas I focused on in considering prospects for additional majority-Black House districts: **Region A** (blue outline), which is south Metro Atlanta; **Region B** (red outline), a group of Black Belt counties around Augusta (Richmond County); **Region C** (green outline), a group of Black Belt counties around Albany (Dougherty County) comprising 2021 Senate District 12; and **Region D** (purple outline), the seven counties in Middle Georgia (Macon-Warner Robins MSAs). A high-resolution version of the **Figure 4** map is in **Exhibit E**.

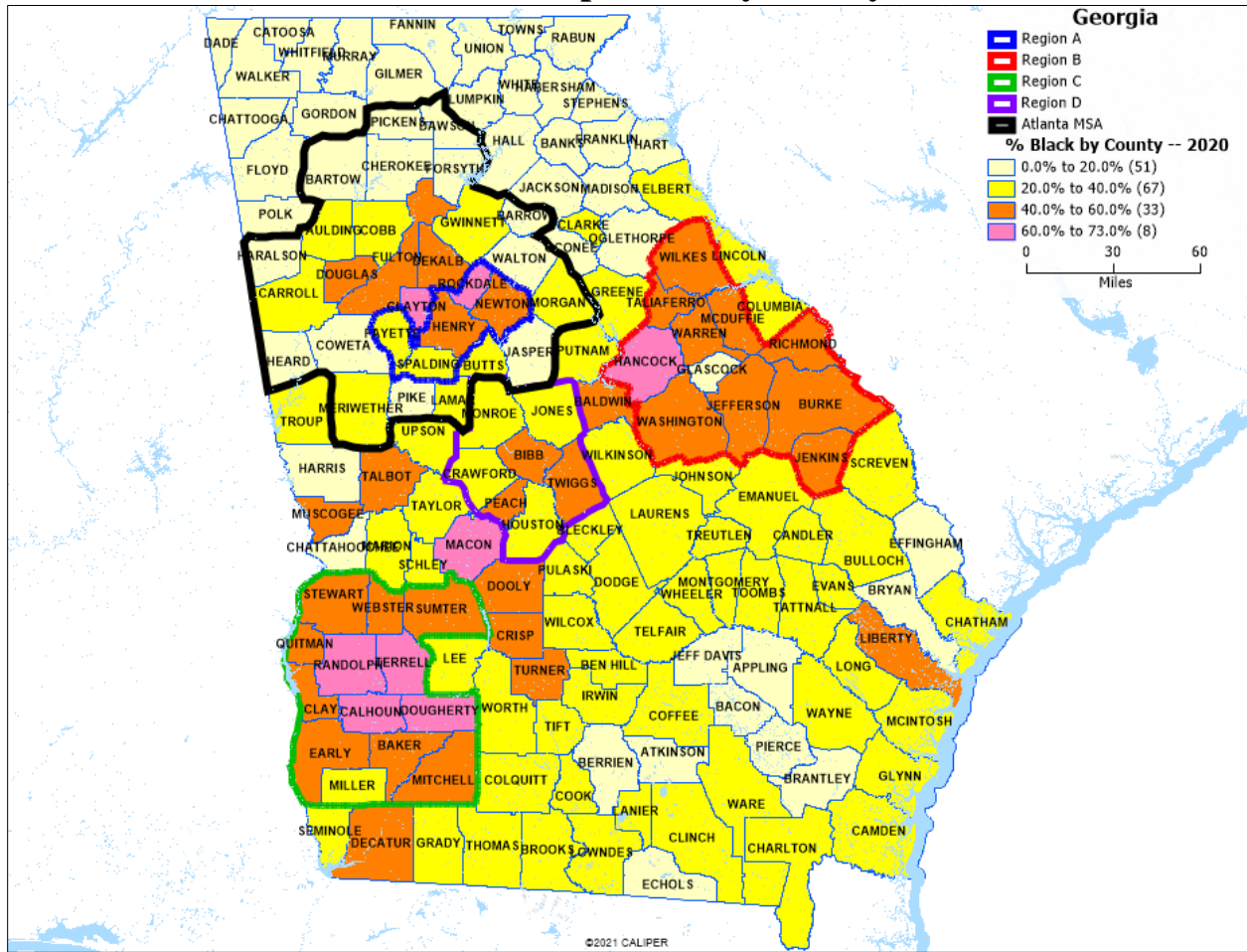
¹⁷ Source:

2021 ACS 1-Year Estimates Public Use Microdata Sample

<https://data.census.gov/mdat/#/search?ds=ACSPUMS1Y2021&vv=AGEP&cv=RACBLK%281%29&rv=ucgid,CIT%281,2,3,4%29&wt=PWGTP&g=0400000US13>

Figure 4

2020 Census -- Black Population by County



49. **Exhibit G-1** is a table showing 2010 and 2020 county populations by race and ethnicity, with the population change between 2010 and 2020. **Exhibit G-2** is a table 2000 and 2010 county populations by race and ethnicity, with population change between 2000 and 2010. **Exhibit G-3** is a table showing 1990 and 2000 county populations by race and ethnicity, with population change between 1990 and 2000. **Exhibit G-4** is a table showing the percentage BVAP by county between 1990 and 2020.

D. Black Population as a Component of Total Population from 1990 to 2020**(1) Georgia – Statewide**

50. As shown in **Figure 5**, Georgia’s Black population has increased significantly in absolute and percentage terms since 1990, from about 27% in 1990 to 33% in 2020. Over the same time period, the percentage of the population identifying as NH White has dropped from 70% to 50%.

Figure 5

**Georgia – 1990 Census to 2020 Census
Population by Race and Ethnicity**

	1990 Number	Percent	2000 Number	Percent	2010 Number	Percent	2020 Number	Percent
Total Population	6,478,216	100.00%	8,186,453	100.00%	9,687,653	100.0%	10,711,908	100.00%
NH White	4,543,425	70.13%	5,128,661	62.65%	5,413,920	55.88%	5,362,156	50.06%
Total Minority Pop.	1,934,791	29.87%	3,057,792	37.35%	4,273,733	44.12%	5,349,752	49.94%
Latino	108,922	1.68%	435,227	5.32%	853,689	8.81%	1,123,457	10.49%
Black*	1,746,565	26.96%	2,393,425	29.24%	3,054,098	31.53%	3,538,146	33.03%

* SR Black in 1990 -- AP Black 2000-2020

(2) Metro Atlanta – 29-County MSA

51. **Figure 6** summarizes the obvious. The key driver of population growth in Georgia this century has been Metro Atlanta, led in no small measure by a large increase in the Black population in the area. (See **Exhibit C** depicting the 29-county MSA area with bold green lines).

Figure 6

**29-County MSA – Metro Atlanta – 1990 to 2020
Population by Race and Ethnicity**

	1990 Number	Percent	2000 Number	Percent	2010 Number	Percent	2020 Number	Percent
Total Population	3,082,308	100.00%	4,263,438	100.00%	5,286,728	100.00%	6,089,815	100.00%
NH White	2,190,859	71.08%	2,576,109	60.42%	2,684,571	50.78%	2,661,835	43.71%
Total Minority Pop.	891,449	28.92%	1,687,329	39.58%	2,602,157	49.22%	3,427,980	56.29%
Latino	58,917	1.91%	270,655	6.35%	547,894	10.36%	730,470	11.99%
Black*	779,134	25.28%	1,248,809	29.29%	1,776,888	33.61%	2,186,815	35.91%

* SR Black in 1990, AP Black 2000-2020

52. Under the 1990 Census, today’s 29 county-MSA was 25.28% Black, increasing to 35.91% in 2020. Since 2000, the Black population in Metro Atlanta has climbed by 75%, from 1,248,809 to 2,186,815 in 2020.

53. According to the 2020 Census, 56.29% of Metro Atlanta residents are non-White—a major shift compared to the previous decade. In 2010, NH Whites represented 50.78% of the population.

54. According to the 2020 Census, the 11 core counties comprising the Atlanta Regional Commission (“ARC”) area¹⁸ account for more than half (54.7%) of the statewide Black population. After expanding the Metro Atlanta area to include the 29 counties in the Atlanta MSA (including the 11 ARC counties), Metro Atlanta encompasses 61.81% of the state’s Black population.

¹⁸ Atlanta Regional Commission, “About the Atlanta Region,” <https://atlantaregional.org/atlanta-region/about-the-atlanta-region>.

(3) Region A – 5-County South Metro Atlanta

55. The table in **Figure 7** presents similar 1990 to 2020 population details for the five south Metro Atlanta counties (**Region A**), where I have determined that two additional majority-Black Senate districts and at least two additional majority-Black House districts can be drawn.

Figure 7

**Region A – 5-County South Metro Atlanta – 1990 to 2020
Population by Race and Ethnicity**

	1990 Number	Percent	2000 Number	Percent	2010 Number	Percent	2020 Number	Percent
Total Population	271,512	100.00%	401,133	100.00%	559,735	100.00%	633,265	100.00%
NH White	227,297	83.72%	305,779	76.23%	305,092	54.51%	262,792	41.50%
Total Minority Pop.	44,215	16.28%	95,354	23.77%	254,643	45.49%	370,473	58.50%
Latino	2,757	1.02%	11,560	2.88%	33,722	6.02%	48,287	7.63%
Black*	38,945	14.34%	74,249	18.51%	205,426	36.70%	294,914	46.57%

* SR Black in 1990, AP Black 2000-2020

56. As is readily apparent from the **Figure 7** timeline, south Metro Atlanta (comprising Fayette, Henry, Spalding, Newton, and Rockdale Counties) has undergone a dramatic demographic transformation over the past 30 years. In 1990, just 14.34% of the population in the 5-county south Metro Atlanta area was Black. By 2010, the Black population had more than doubled to reach 36.70% of the overall population, then climbing to 46.57% in 2020.

57. Between 2000 and 2020, the Black population in the 5-county south Metro Atlanta region quadrupled, from 74,249 to 294,914. The NH White population in the region actually decreased during the same period.

(4) Region B – Eastern Black Belt

58. In contrast to south Metro Atlanta, the Black Belt counties in and around the Augusta area have experienced a slight overall population decline since 1990, from 331,615 to 325,164 in 2020. However, the Black population in the region has grown. **Figure 8** reveals that a 19% increase in the Black population since 1990 has been offset by a 28.7% decline in the NH White population.

Figure 8

Region B – Eastern Black Belt Area - 1990 to 2020 Population by Race and Ethnicity

	1990 Number	Percent	2000 Number	Percent	2010 Number	Percent	2020 Number	Percent
Total Population	331,615	100.00%	321,998	100.00%	322,852	100.00%	325,164	100.00%
NH White	174,163	52.52%	146,870	45.61%	133,467	41.34%	124,115	38.17%
Total Minority Pop.	157,452	47.48%	175,128	54.39%	189,385	58.66%	201,049	61.83%
Latino	4,412	1.33%	7,173	2.23%	11,179	3.46%	14,751	4.54%
Black*	149,307	45.02%	163,130	50.66%	173,238	53.66%	177,610	54.62%

* SR Black in 1990, AP Black 2000-2020

59. In 1990, the Black population in Region B represented 45.02% of the total population, climbing to 54.62% in 2020.

60. The total 2020 population in the 11-county area that I identified as Region B is sufficient to form about 1.7 Senate districts or 5.5 House districts, which is below what would be necessary to create a second majority-Black Senate

district or a sixth majority-Black House district. However, as shown in the Illustrative Senate and House Plans discussed in this report, this population deficit can be overcome, and additional majority-Black Senate and House districts can be drawn, by including contiguous, demographically similar Black Belt counties such as Baldwin, Twiggs, and Wilkinson in the additional districts.

(5) Region C – Western Black Belt

61. As shown in **Figure 9**, the western Black Belt has experienced a population decline since 2010, after holding relatively stable between 1990 and 2010. All of the population loss can be attributed to a steady decline in the NH White population over the past several decades

Figure 9

Region C – Western Black Belt Area - 1990 to 2020 Population by Race and Ethnicity

	1990 Number	Percent	2000 Number	Percent	2010 Number	Percent	2020 Number	Percent
Total Population	205,742	100.00%	214,686	100.00%	209,747	100.00%	190,819	100.00%
NH White	100,751	48.97%	90,946	42.36%	76,748	36.59%	64,553	33.83%
Total Minority Pop.	104,991	51.03%	123,740	57.64%	132,999	63.41%	126,266	66.17%
Latino	1,485	0.72%	3,588	1.67%	7,377	3.52%	7,429	3.89%
Black*	102,728	49.93%	118,786	55.33%	123,663	58.96%	115,621	60.59%

* SR Black in 1990, AP Black 2000-2020

62. In 1990, NH Whites constituted about half of the overall population. By 2020, NH Whites comprised only about one-third. Over the same time period, the Black population grew in absolute terms from 102,728 to 115,621, representing just under half the population in 1990, but 60.6% of the population by 2020.

63. There is insufficient population to create an additional majority-Black Senate district in Region C and the counties immediately adjacent to Region C in the western Black Belt. However, as shown in the Illustrative House Plan discussed in this report, an additional House district can be drawn in the area.

(6) Region D – Metropolitan Macon (Macon-Bibb Warner Robins MSAs)

64. As shown in **Figure 10**, metropolitan Macon has experienced steady population growth over the past 30 years. Almost all of the growth is attributed to a near-doubling in the non-White population from 113,653 in 1990 to 216,918 in 2020 (+90.86%).

Figure 10

**Region D – Metropolitan Macon - 1990 to 2020
Population by Race and Ethnicity**

	1990 Number	Percent	2000 Number	Percent	2010 Number	Percent	2020 Number	Percent
Total Population	317,013	100.00%	356,801	100.00%	399,888	100.00%	425,416	100.00%
NH White	203,360	64.15%	211,927	59.40%	216,968	54.26%	208,498	49.01%
Total Minority Pop.	113,653	35.85%	144,874	40.60%	182,920	45.74%	216,918	50.99%
Latino	3,123	0.99%	7,247	2.03%	16,069	4.02%	22,820	5.36%
Black*	109,958	34.69%	131,627	36.89%	157,470	39.38%	177,269	41.67%

* SR Black in 1990, AP Black 2000-2020

65. The Black population comprised about one-third of the population in the Macon area in 1990 (34.69%), climbing to 41.67% in 2020. Non-Hispanic Whites represented 64.15% of the regional population in 1990, slipping to 49.01% in 2020.

66. The seven counties in the combined Macon-Bibb Warner Robins MSAs are Macon-Bibb, Crawford, Houston, Jones, Monroe, Peach, and Twiggs. According to the GBPI analysis (**Exhibit D**), three of the seven counties in metropolitan Macon are part of the contemporary Black Belt—Macon-Bibb, Peach, and Twiggs.

67. Based on the 2020 Census, about seven House districts (7.15) can be drawn in metropolitan Macon. With a Black population of 177,269 according to the 2020 Census, there is clearly sufficient Black population in the 7-county Macon area to encompass three majority-Black House districts rather than just two as under the 2021 Enacted House Plan.

E. County and Municipal Socioeconomic Characteristics

68. For background on socioeconomic characteristics by race and ethnicity at the county, municipal, and community levels in Georgia, I have prepared charts based on the 5-year 2015-2019 ACS. That data is available online¹⁹ and has also been included in a compact-disk as **Exhibit CD**.

69. In addition, **Exhibit CD** contains charts and statistical summaries of socioeconomic characteristics from the 1-Year 2021 ACS for Georgia, the two most

¹⁹The county level data is available at: http://www.fairdata2000.com/ACS_2015_19/Georgia/

The community-level data is available at:
http://www.fairdata2000.com/ACS_2015_19/Georgia/00_Places_2500+/

populous MSAs in the state—Atlanta and Augusta-Richmond County²⁰, and the four most populous counties of the Atlanta MSA—Cobb, Dekalb, Fulton, and Gwinnett. Statistics for other less populous counties are not available in the S0201 series.²¹

III. SENATE – HISTORICAL BENCHMARK PLANS AND 2021 PLAN

A. Majority-Black Senate Districts – 1990s Plan to 2021 Plan

70. As shown in **Figure 11**, despite the significant growth in Georgia’s Black population since 2000—climbing by 1.2 million persons—the number of majority-Black Senate districts has only inched up to 14 from 13 in the 2006 Plan, and has remained static for the last decade.

Figure 11

Number of Majority-Black Senate Districts by Plan – 2000 to 2021

²⁰ The August-Richmond MSA encompasses the Counties of Augusta-Richmond, Burke, Columbia, Lincoln, McDuffie, Wilkes, Jefferson, Warren, Jenkins and Screven.

²¹ Available via: http://www.fairdata2000.com/ACS_2021/Georgia. Source: **U.S. Census Bureau, “S0201 Selected Population Profile in the United States,”** https://data.census.gov/cedsci/table?text=s0201&t=001%3A005%3A451&g=0400000US13,13%240500000_0500000US13067,13089,13121,13135_310XX00US12060,12260&y=2021

Senate Plans²²	Statewide Majority-Black Districts	Metro Atlanta Majority-Black Districts
1990s Plan – 2000 Census	12	7
2006 Plan – 2010 Census	13	10
2014 Plan – 2020 Census	14	10
2021 Plan – 2020 Census	14	10

71. As **Figure 12** reveals, despite the major changes in the composition of the State’s population, the percentage of Black Georgians of voting age in majority-Black Senate districts has hovered around 50% since the mid-2000s, while the percentage of the NH White VAP in majority-White districts has stayed above 80% over the same timeframe—indicating that Black populations are disproportionately “cracked” or divided into majority-White districts rather than placed in majority-Black districts.²³

Figure 12

Same Race VAP in Majority-Black and Majority NH White Districts 2000 to 2021

²² As discussed *supra* n.7, I am including Senate District 41 (DeKalb County) as majority-Black under the 2014 Benchmark Senate Plan, even though it had fallen to 49.76% BVAP by the 2020 Census. Notably, when the 2014 Benchmark Senate Plan was drawn, it had 15 total BVAP-majority districts under the 2010 Census, including both Senate District 41 and Senate District 2 in Savannah. In that sense, the 2021 Senate Plan actually represents a *diminution* of one majority-Black district from the last districting effort.

²³ “Packing” describes election districts where a minority population is unnecessarily concentrated, resulting in an overall dilution of minority voting strength in the voting plan. “Cracking” describes election plans with one or more districts that fragment or divide the minority population, also resulting in an overall dilution of minority voting strength in the voting plan.

Senate Plans	Statewide % Black VAP in Majority- Black Districts*	Statewide %NH White VAP in Majority- White Districts
1990s Plan – 2000 Census	43.51%	90.51%
2006 Plan – 2010 Census	53.84%	83.88%
2014 Plan – 2020 Census	52.29%	80.64%
2021 Plan – 2020 Census	52.45%	80.54%

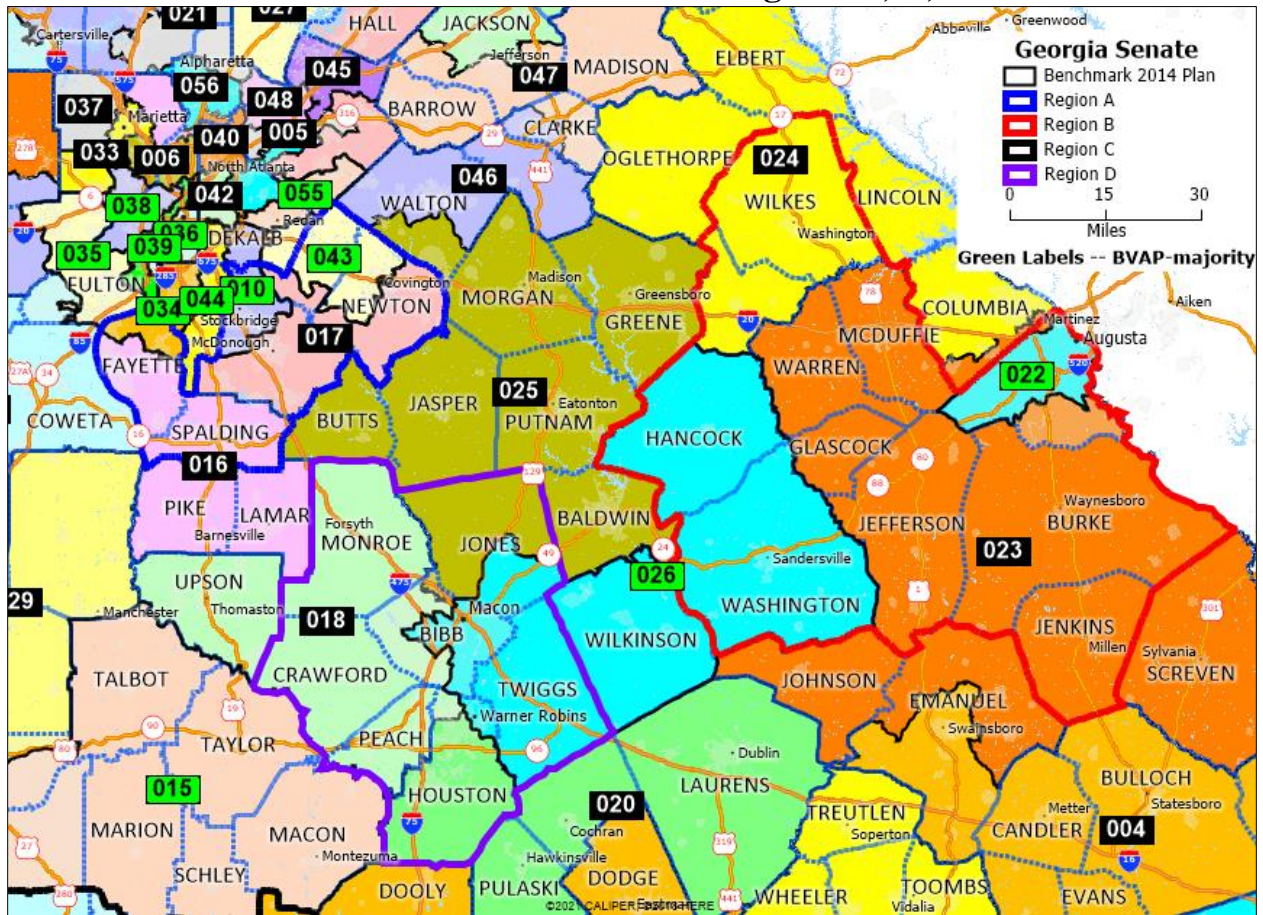
* including Senate District 2 for all years and Senate District 41 for 2014 and 2021

B. 2014 Benchmark Senate Plan

72. The map in **Figure 13** displays 2014 Benchmark Senate Plan districts in south Metro Atlanta (Region A), the eastern Black Belt (Region B) and metropolitan Macon (Region D.) Labels on the map display the district number. Green labels identify majority-Black districts. **Exhibit H** is a higher resolution version of the **Figure 13** map.

Figure 13

2014 Benchmark Senate Plan – Regions A, B, and D



73. **Exhibit I-1** contains a map packet depicting the 2014 Benchmark Senate Plan, with corresponding Census 2010 statistics, prepared by the Georgia Legislative & Congressional Reapportionment Office (“GLCRO”). **Exhibit I-2** shows the map for the prior 2011-enacted Senate plan, and **Exhibit I-3** shows the map for the Senate plan enacted in 2006.

74. **Exhibit J-1** is a table reporting Census 2020 population statistics for the 56 districts in the 2014 Benchmark Senate Plan, as well as CVAP estimates from

the 5-year 2015-2019 Special Tabulation.²⁴ **Exhibits J-2** and **J-3** provide similar population data for the prior 2011-enacted and 2006-enacted plans.

75. As a result of the dramatic population shifts in Georgia since 2010, the 2014 Benchmark Senate Plan was severely malapportioned upon release of the 2020 Census, with an overall deviation of 47.75%.

76. Including Senate District 41 in Metro Atlanta (see *supra* nn.7 & 22), the 2014 Benchmark Senate Plan contained 14 majority-Black districts. Fifteen districts in the 2014 Benchmark Plan were BCVAP-majority (the 14 BVAP majority ones plus Senate District 2 in Chatham County). Seventeen were majority NH Black + Latino + NH Asian (“B+L+A”) CVAP (*i.e.*, majority minority by CVAP).

77. Additional 2014 Benchmark Senate Plan information regarding compactness scores and jurisdictional splits is reported *infra* for comparison with the 2021 Senate Plan and Illustrative Senate Plan metrics.

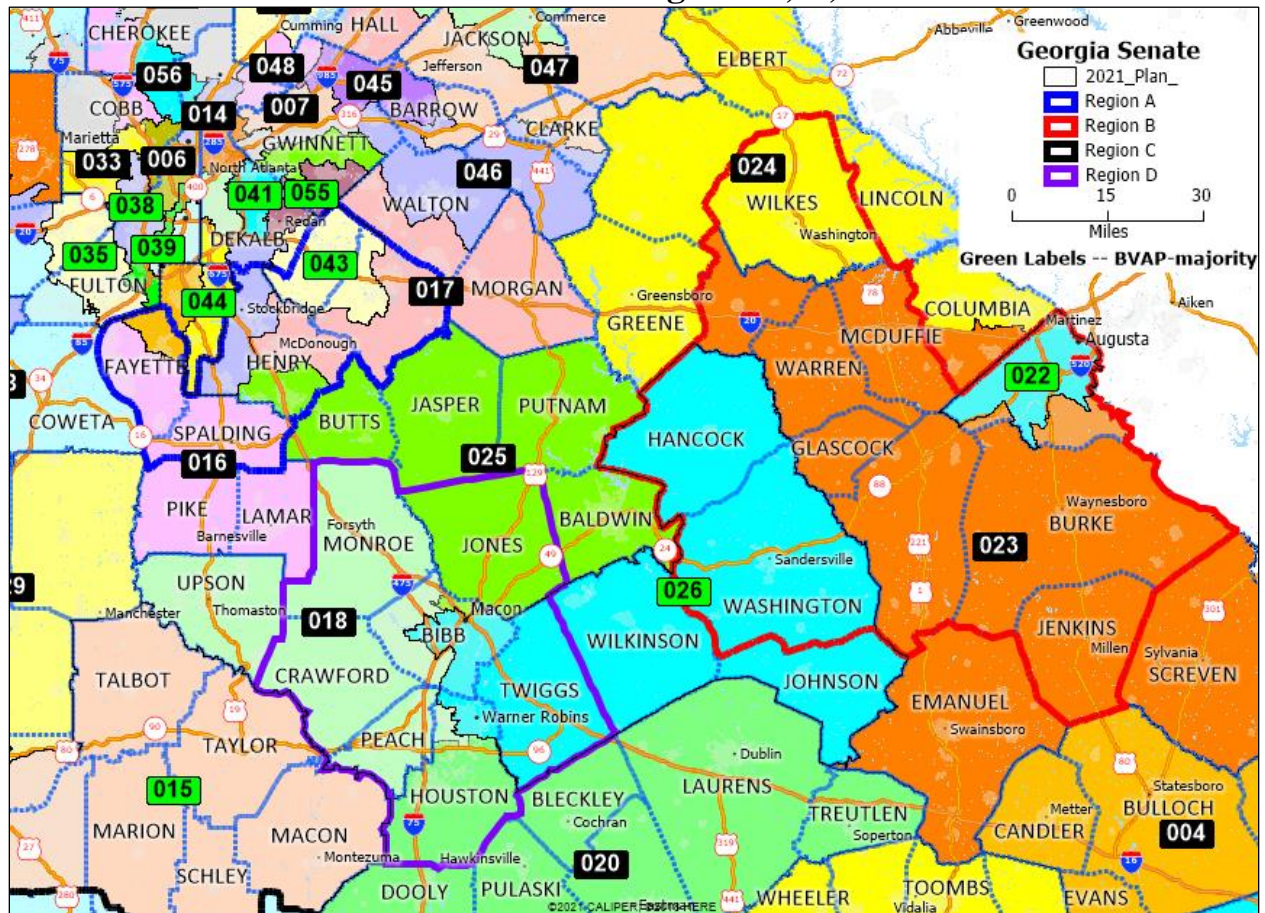
C. 2021 Senate Plan

78. The map in **Figure 14** displays 2021 Senate Plan districts in south Metro Atlanta (Region A) and in the eastern Black Belt (Region B). Green labels identify majority-Black districts. **Exhibit K** is a higher resolution version of the **Figure 14** map.

²⁴ See U.S. Census Bureau, Citizen Voting Age Population by Race and Ethnicity,” <https://www.census.gov/programs-surveys/decennial-census/about/voting-rights/cvap.html>.

Figure 14

2021 Senate Plan – Regions A, B, and D



79. **Exhibit L** contains a map packet depicting the 2021 Senate Plan, with corresponding Census 2020 statistics, prepared by GLCRO.

80. **Exhibit M-1** is a table reporting Census 2020 population statistics for the 56 districts in the 2021 Plan, as well as CVAP estimates from the 5-year 2016-2020 Special Tabulation.

81. **Exhibit M-2** breaks out the county population components for the 56 districts in the 2021 Senate Plan.

82. **Exhibit M-3** is a set of 12 sub-state maps of the 2021 Plan organized by regional commission areas.

83. The 2021 Senate Plan contains 14 majority-Black districts (BVAP). Fifteen are BCVAP majority (the 14 BVAP-majority districts plus Senate District 2 in Chatham County). Eighteen districts in the 2021 Senate Plan are majority B+L+ACVAP.

84. Supplemental 2021 Senate Plan information regarding compactness scores, VTD splits, county splits, municipal splits, and regional splits is reported *infra* for comparison with the Illustrative Senate Plan.

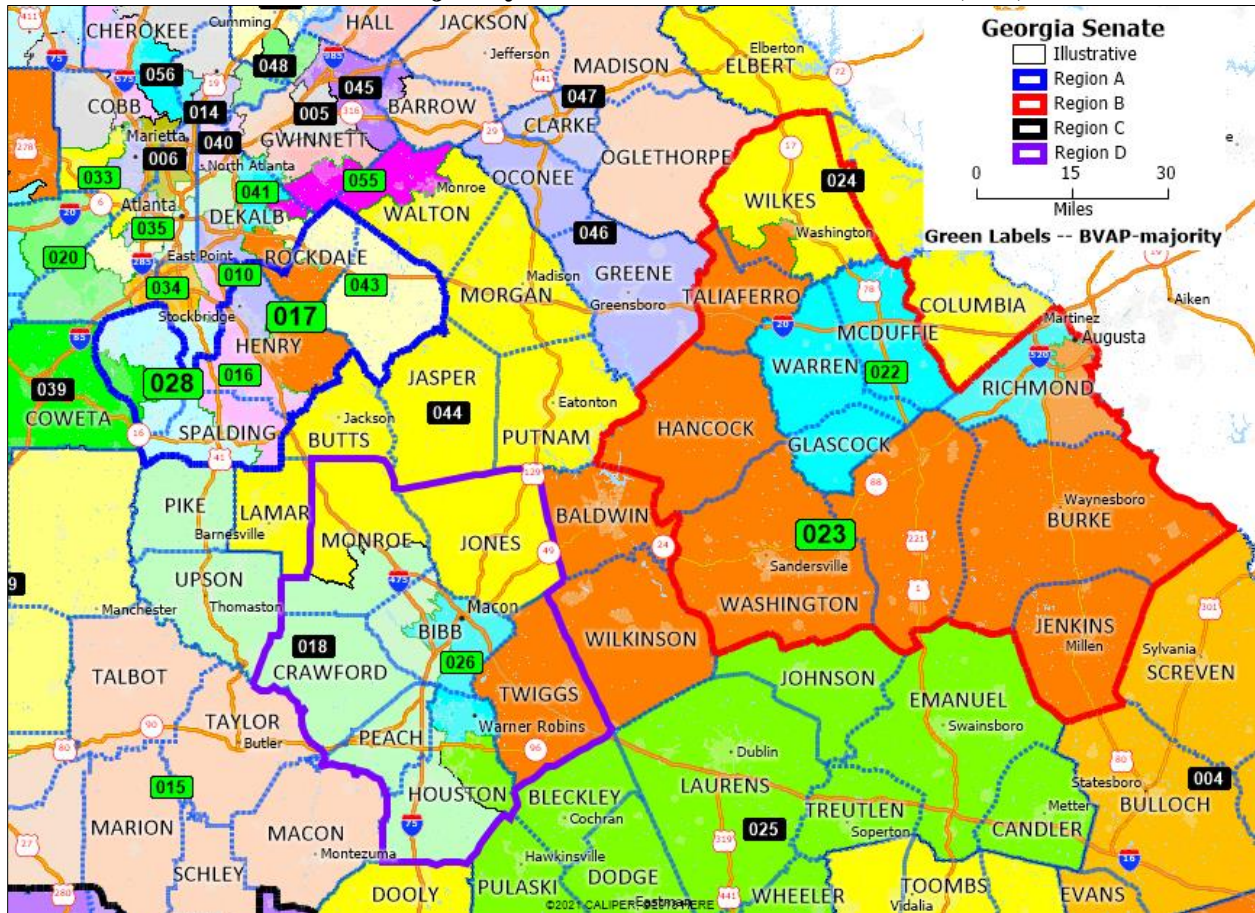
IV. ILLUSTRATIVE SENATE PLAN

A. State-level Perspective

85. The map in **Figure 15** displays Illustrative Senate Plan districts, with the map zoomed to identify the three additional majority-Black districts (large green labels) in south Metro Atlanta (Region A) and in the eastern Black Belt (Region B). **Exhibit N** is a higher resolution version of the **Figure 15** map.

Figure 15

Additional Majority-Black Senate Districts – 17, 23, and 28



86. The additional majority-Black Senate districts are:

Region A –South Metro Atlanta

District 17: in the Counties of Clayton (part), Fayette (part), and Spalding (part)

District 28: in the Counties of Clayton (part) and Henry (part)

Region B – Eastern Black Belt/Central Savannah River Area

District 23: in the Counties of Augusta-Richmond (part), Jenkins, Burke, Jefferson, Washington, Taliaferro, Hancock, Wilkes (part), Baldwin, Wilkinson, and Twiggs.

87. The Illustrative Senate Plan contains 18 majority-Black (BVAP)

districts. As with the 2014 Benchmark Senate and 2021 Senate Plans, District 2

(45.44% BVAP) in Chatham County is majority-BCVAP. Nineteen districts in the Illustrative Senate Plan are majority-NH DOJ BCVAP.²⁵ Twenty-two districts in the Illustrative Senate Plan are majority B+L+ACVAP.

88. **Exhibit O-1** is a table reporting Census 2020 population statistics for the 56 districts in the Illustrative Senate Plan, as well as CVAP estimates from the 5-year 2016-2020 Special Tabulation.

89. **Exhibit O-2** breaks out the county population components for the 56 districts in the Illustrative Senate Plan.

90. **Exhibit O-3** is a set of 12 sub-state maps of the Illustrative Plan organized by regional commission areas.

91. **Exhibit O-4** is a statewide map showing the 18 majority Black Senate districts (green) under the Illustrative Plan, with the three additional majority-Black districts shaded light green.

92. **Exhibit O-5** zooms on each of the three additional majority-Black districts in the Illustrative Senate Plan.

93. **Exhibit O-6** is a core constituencies report, showing population shifts by district from the 2021 Senate Plan to the Illustrative Senate Plan.

²⁵ See *supra* n.3. NH DOJ BCVAP is the sum of voting age citizens who are single-race NH Black or of 2 races (NH Black and NH White).

94. The text descriptions of the additional majority-Black Senate districts in the Illustrative Senate Plan set forth below are illustrated with side-by-side comparison maps, depicting the Illustrative Senate Plan and 2021 Senate Plan at the same scale. Higher resolution versions of these side-by-side pairings are also included in exhibits in the **Exhibit P**, **Exhibit Q**, and **Exhibit R** series, as marked below. The county-level population change data discussed below is reflected in **Exhibits G-1, G-2, and G-4**.

95. The side-by-side maps are occasionally interspersed with maps depicting Illustrative Senate Plan boundaries in counties that are split in the process of creating the additional majority Black districts—*e.g.*, Spalding and Wilkes Counties, which are not split in the 2021 Plan. The county-level maps reveal that the splits are reasonable, and especially so within the context of Georgia’s oftentimes irregularly shaped municipal and VTD boundaries. Notably, the Illustrative Senate Plan overall splits *fewer* counties than the 2021 Senate Plan, as reported *infra*.

B. District-by-District Analysis

(1) South Metro Atlanta (Region A)

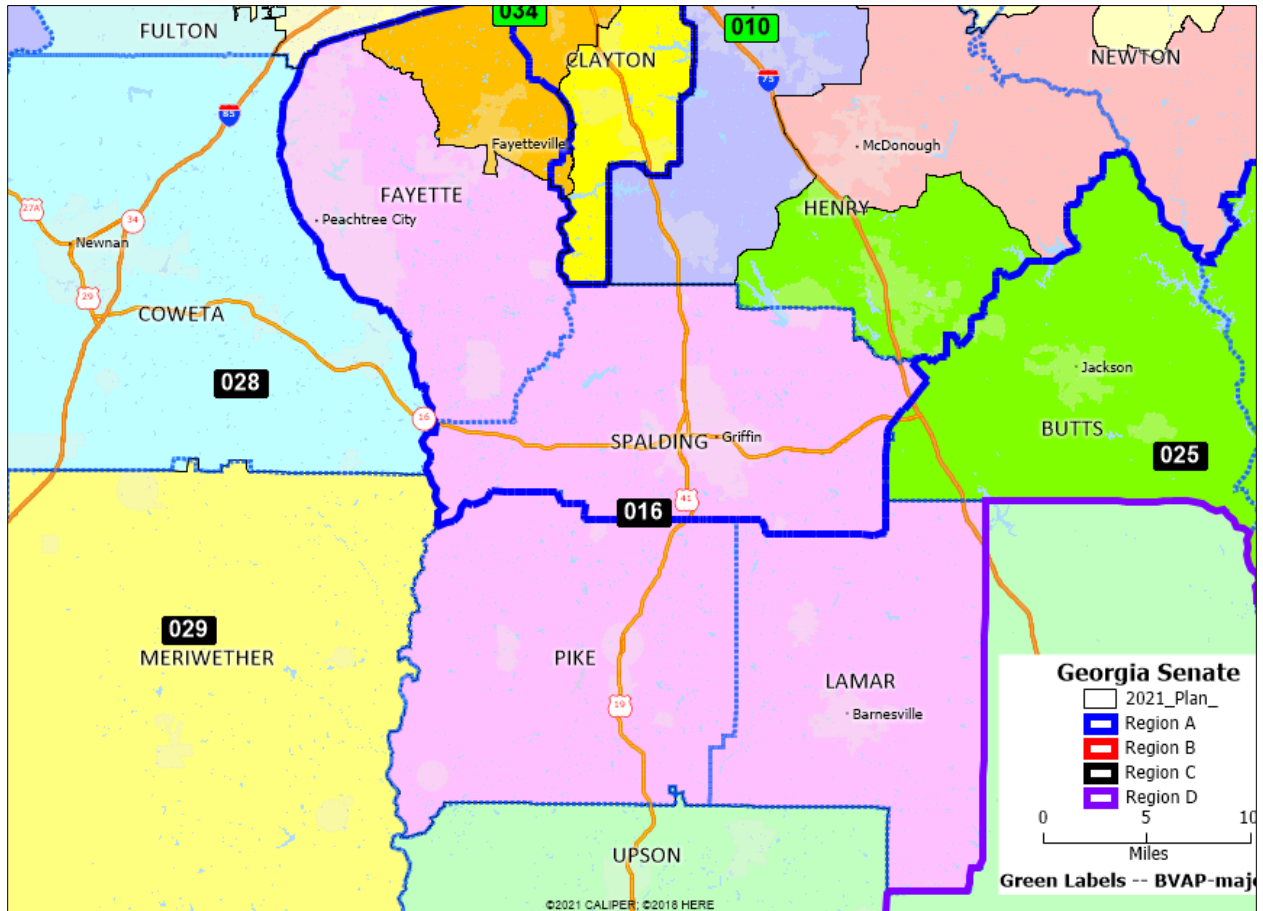
(a) 2021 Senate District 16 (Exhibit P-1)

96. As shown in **Figure 16**, District 16 in the 2021 Senate Plan lies in the south and southwestern part of the Atlanta Metro area. It includes part of Fayette

County, extending south to encompass Spalding, Lamar and Pike Counties (partially displayed on the map).

Figure 16

2021 Senate District 16 and vicinity



97. Both Fayette and Spalding Counties have seen significant, double-digit growth in their Black populations over the last decade. The Black VAP in Fayette County increased by 54.5% between 2010 and 2020 (from 15,355 to 23,728) even as the NH White VAP fell slightly. Spalding County saw its Black VAP grow by 18.5% over the decade, with virtually no change in the White VAP.

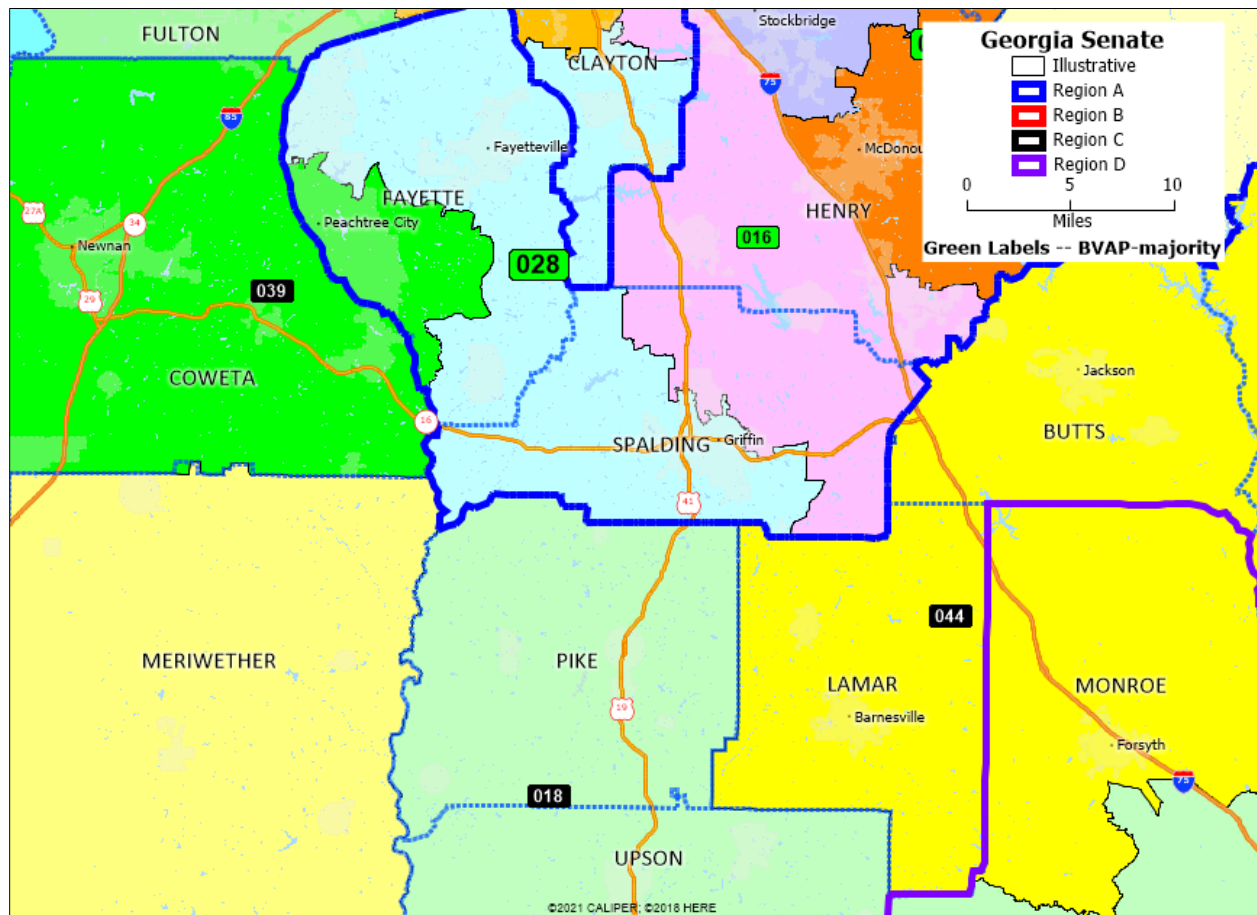
98. Neighboring Clayton County, which borders Fayette and Spalding Counties, is majority-Black, and also has increasing Black population (30% increase since 2010). Senate District 16 is nevertheless drawn with a BVAP of 23% by packing majority-Black neighborhoods in northeast Fayette County into Senate District 34 (a neighboring, 69.54% BVAP district anchored in Clayton County), and then joining the remaining areas of Fayette County with Spalding County and Pike and Lamar Counties on the outer ring of Metro Atlanta.

(b) Illustrative Senate District 28 (Exhibit P-2)

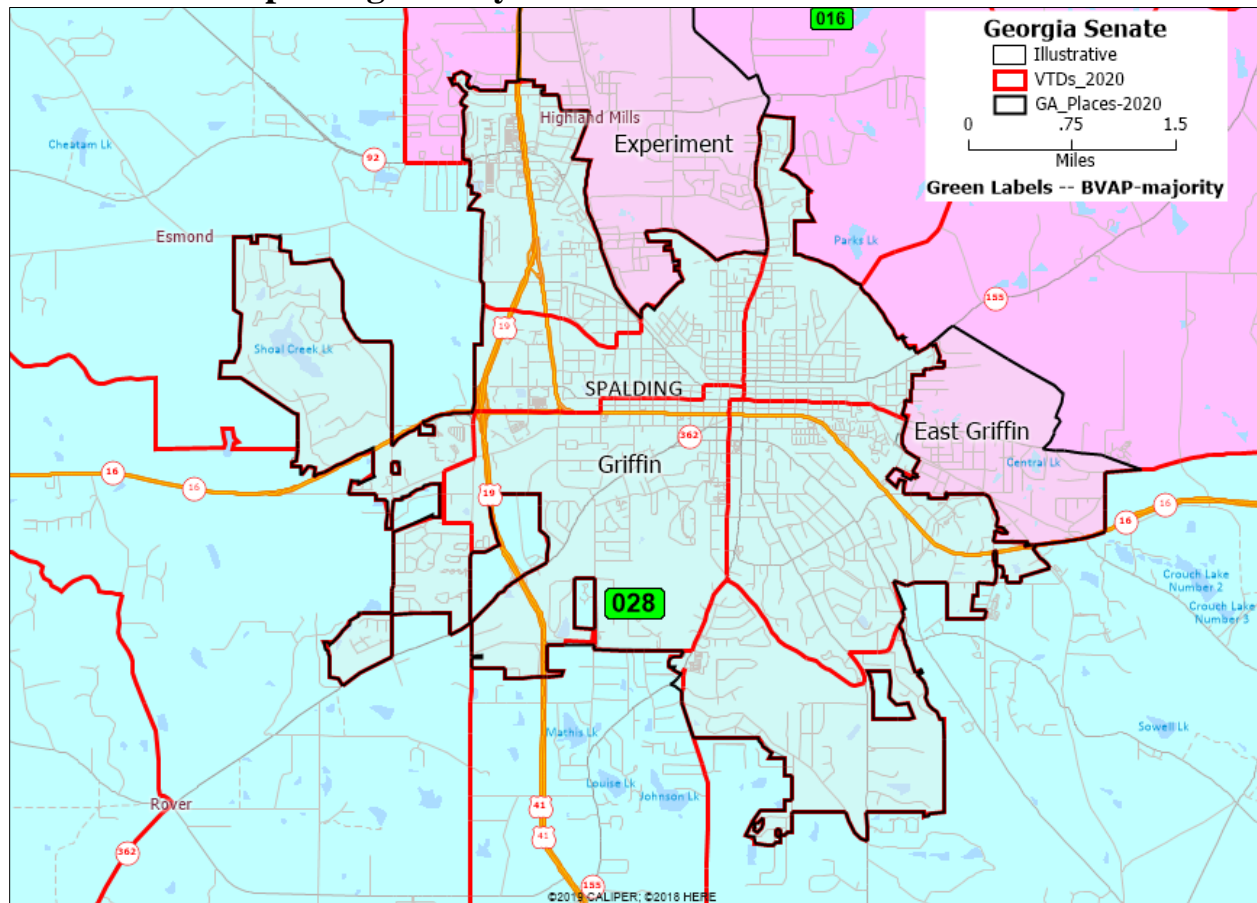
99. As **Figure 17A** reveals, a majority-Black District 28 (51.32% BVAP) can be drawn in the vicinity of 2021 Senate District 16 by joining adjacent portions of Fayette, Spalding, and Clayton Counties, and unpacking some of the Black population in neighboring Senate District 34 (parts of Clayton and Fayette Counties) as well as Senate District 44 (which also stretches into the adjacent portion of Clayton County). In the 2021 Senate Plan, the BVAP in these two packed neighboring districts stands at about 70%.

Figure 17A

Illustrative Senate District 28 and vicinity



100. **Figure 17B** zooms in on the City of Griffin (pop. 23,470) in Spalding County, displaying municipal and VTD boundaries. The majority-Black City of Griffin is placed in Illustrative District 28, with Griffin’s municipal lines serving as a border between District 28 and District 16.

Figure 17B**Griffin/Spalding County Detail – Illustrative Districts 28 and 16**

101. To recap, unpacking 2021 Plan District 34 and District 44 allows a majority-Black Illustrative Senate District 28 to be drawn in Fayette, Spalding, and a neighboring part of majority-Black Clayton County, while “uncracking” the surrounding Black population that is drawn into 2021 Senate District 16.

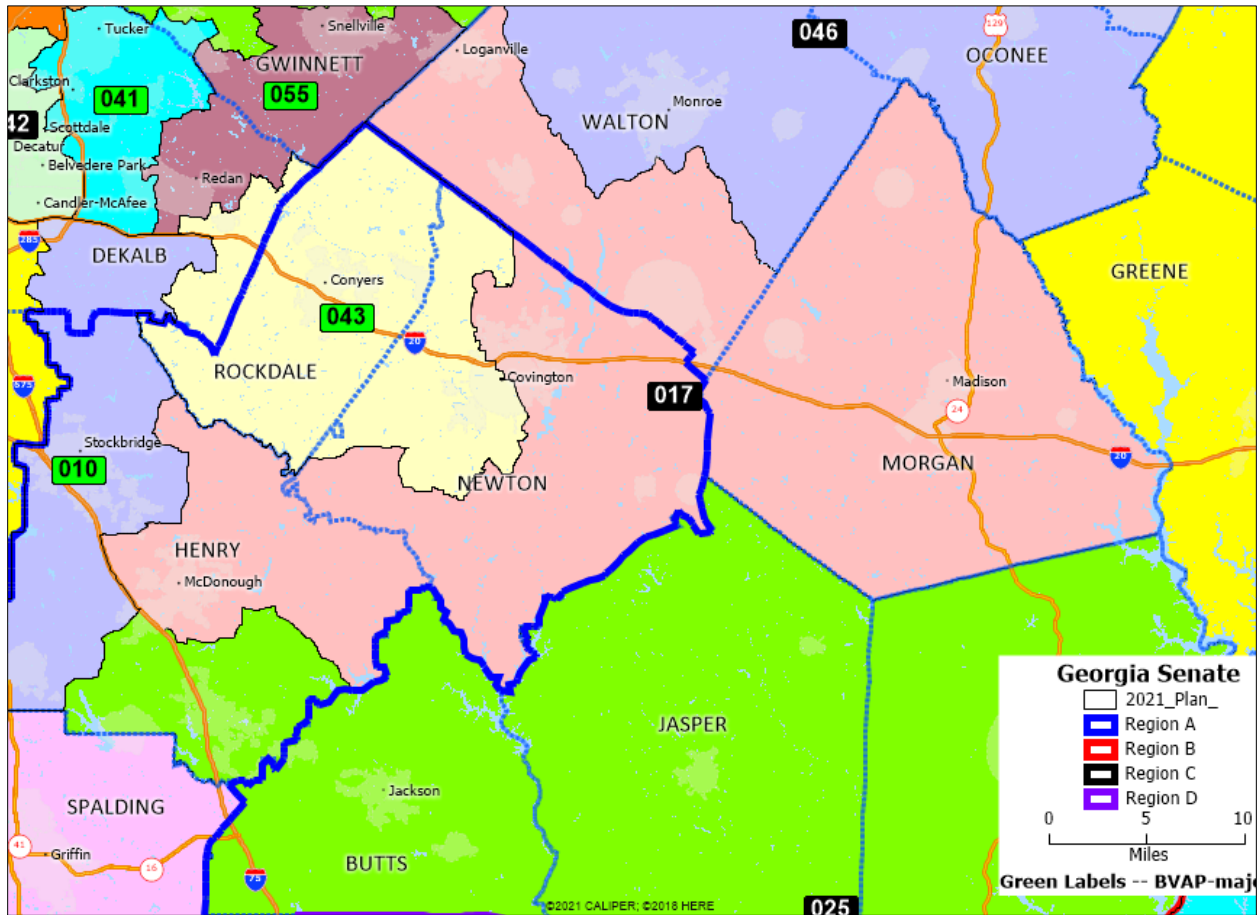
(c) 2021 Senate District 17 (Exhibit Q-1)

102. As shown in **Figure 17C**, Senate District 17, as drawn in the 2021 Senate Plan, includes parts of Henry, Newton, and Walton Counties, and all of Morgan County. Of the counties in 2021 Senate District 17: Henry County’s

BVAP increased by almost 75% in the last decade (to reach almost 50% of the county VAP) and Newton County’s BVAP increased by more than 45% to reach almost 50% of the total VAP of the county.

Figure 17C

2021 Senate District 17 and vicinity



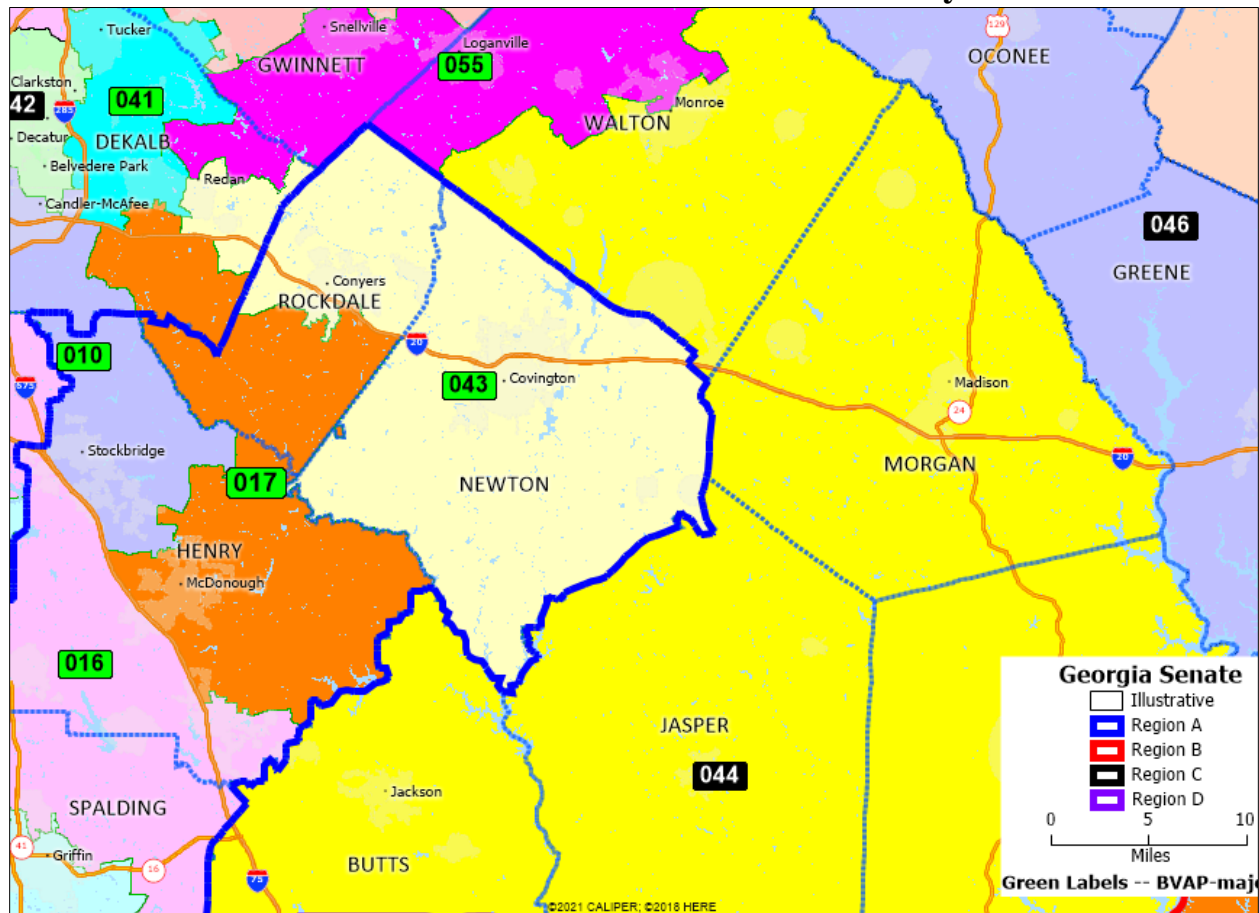
103. Neighboring Dekalb and Rockdale Counties, which border Henry and Newton Counties, also have substantial Black populations. For example, Rockdale County is majority Black (58.6% BVAP) and the county’s BVAP increased by 53% over the last decade. Senate District 17 is nevertheless drawn in the 2021 Plan with a BVAP under 34%, cracking the Black population in central and eastern Henry

County as well as in parts of Newton County by extending the district out into predominantly white and more rural Walton and Morgan counties outside the South Metro area, splitting multiple counties in the process. Meanwhile, the 2021 Senate Plan packs the Black population in Senate Districts 10 and 43 (which include parts of Henry, Rockdale, and Newton Counties), drawing those districts with BVAPs of over 70% and almost 65%, respectively.

(d) Illustrative Senate District 17 (Exhibit Q-2)

104. As shown in **Figure 17D**, a majority-Black Senate District 17 can be drawn in the vicinity of 2021 Senate District 17 by unpacking the Black population in a number of neighboring districts, including 2021 Senate Districts 10 and 43.²⁶

²⁶ The Illustrative Senate Plan places the booming Black population of Newton County in majority-Black District 43.

Figure 17D**Illustrative Senate District 17 and vicinity**

105. By unpacking 2021 Senate Districts 10 and 43 and uncracking the Black population in central and eastern Henry County (which the 2021 Senate Plan places in majority-White Senate District 17), a majority-Black Illustrative Senate District 17 can be drawn in Henry, Rockdale, and DeKalb Counties. As Figure 17C and Figure 17D make clear, Illustrative Senate District 17 is much more compact than the sprawling 2021 District 17.

106. **Figures 17E and 17F (Exhibits P-3 and P-4)** show the broader South Metro Region under both the 2021 Senate Plan and the Illustrative Senate Plan. As

shown in those figures, the 2021 Senate Plan repeatedly cracks the growing and diversifying South Metro Region by submerging it in districts that stretch out into more rural outlying counties in the outer ring of the Atlanta MSA and beyond. By contrast, the Illustrative Plan includes districts that are firmly anchored in the South Metro and are combined with similarly growing and diverse counties closer to the urban core.

Figure 17E

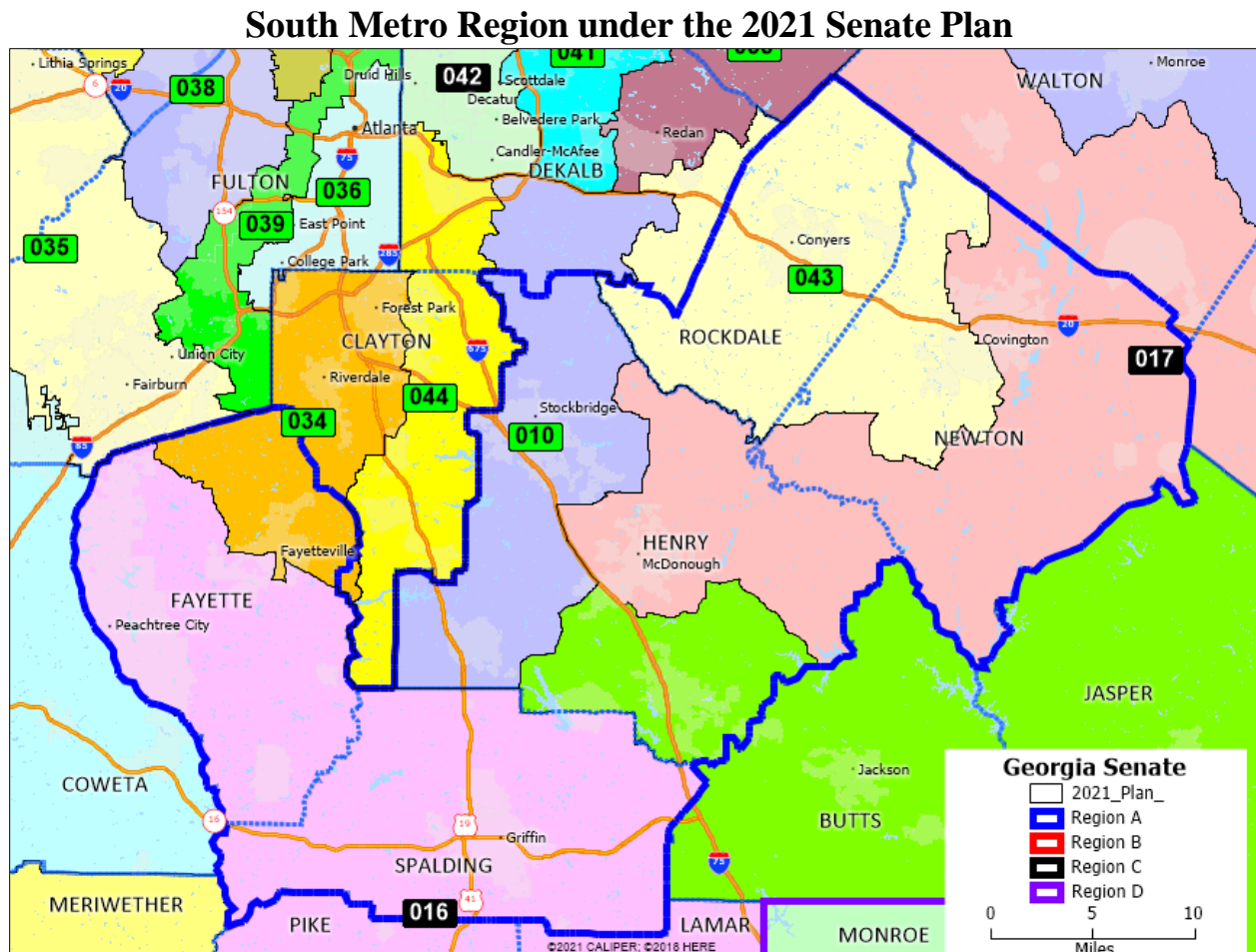
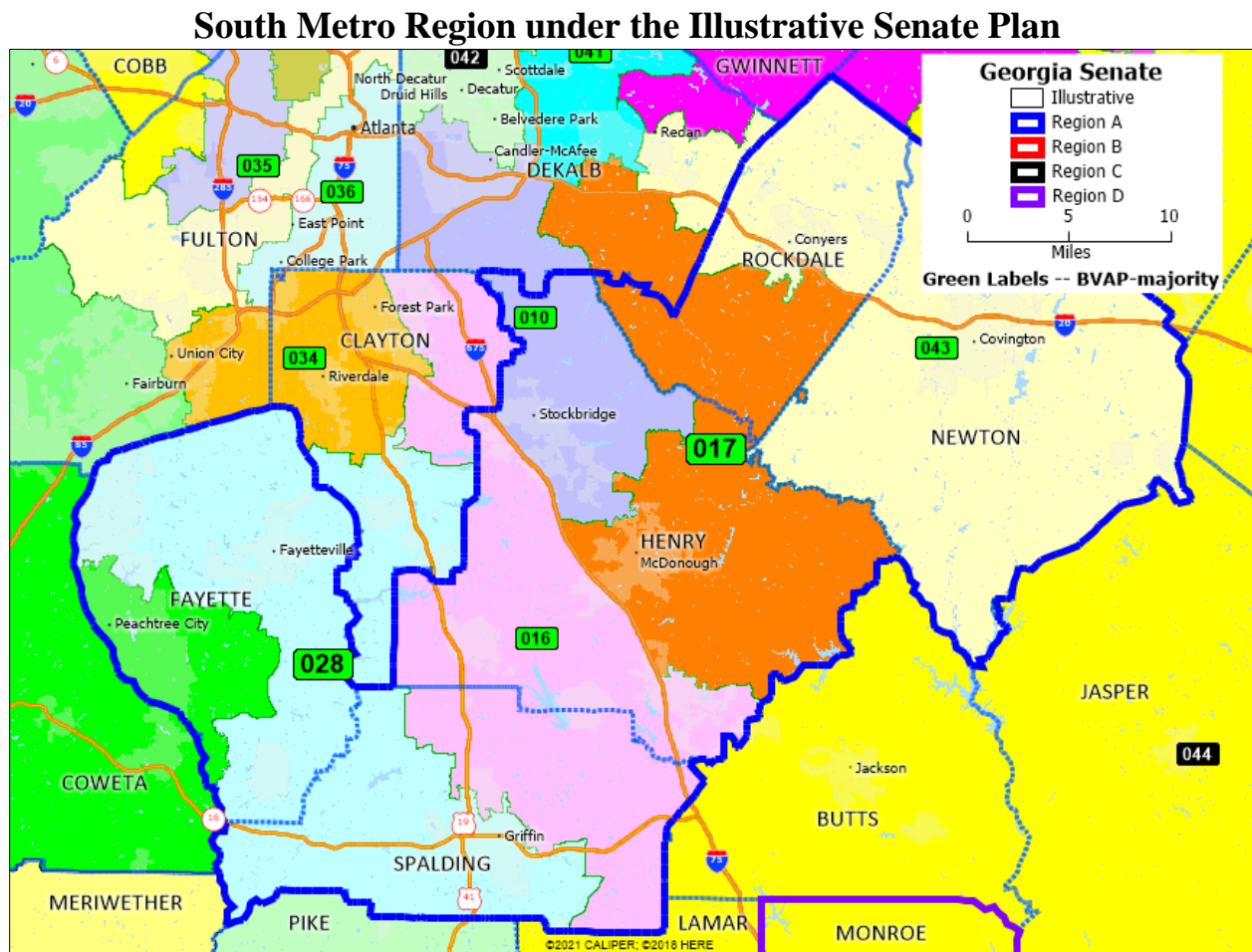
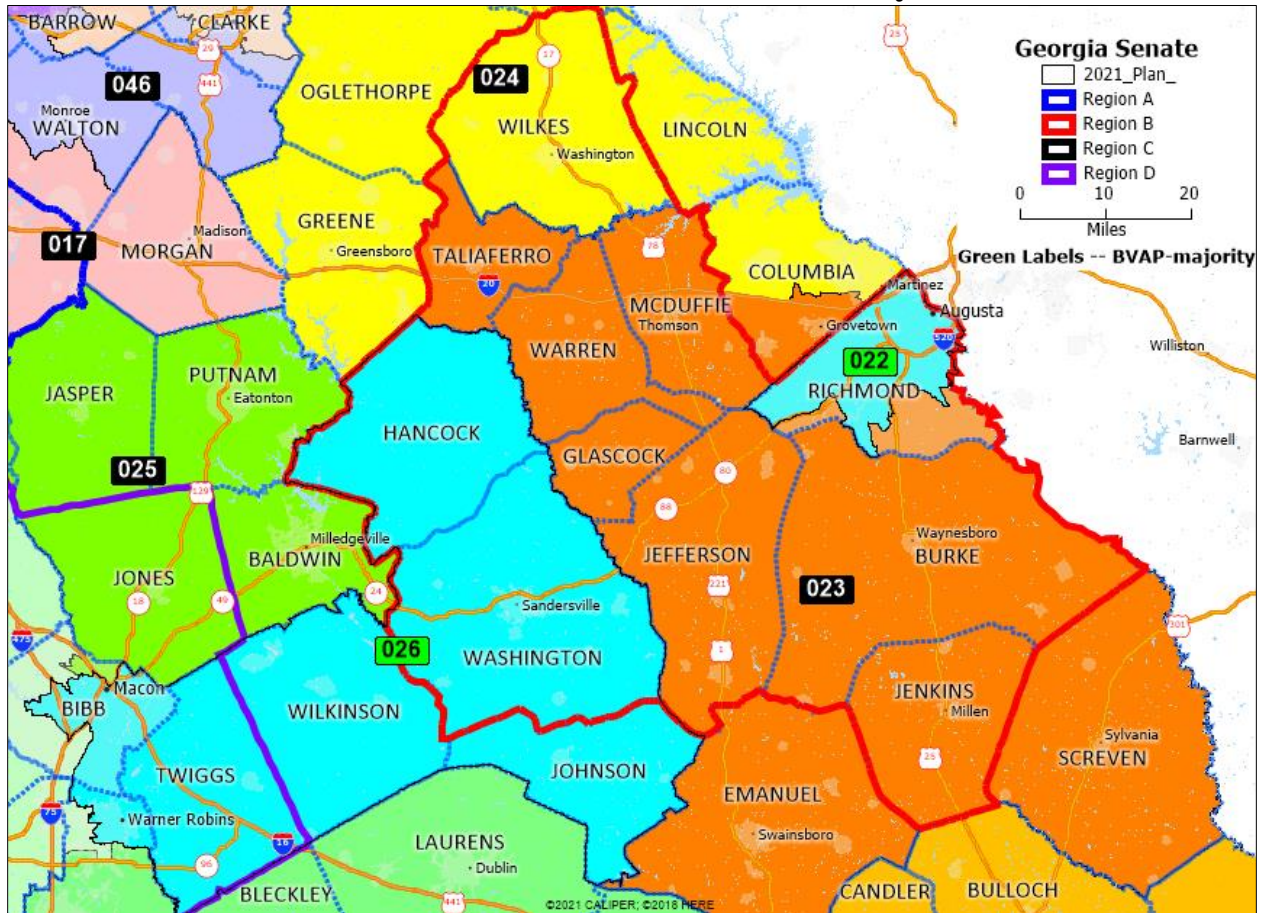
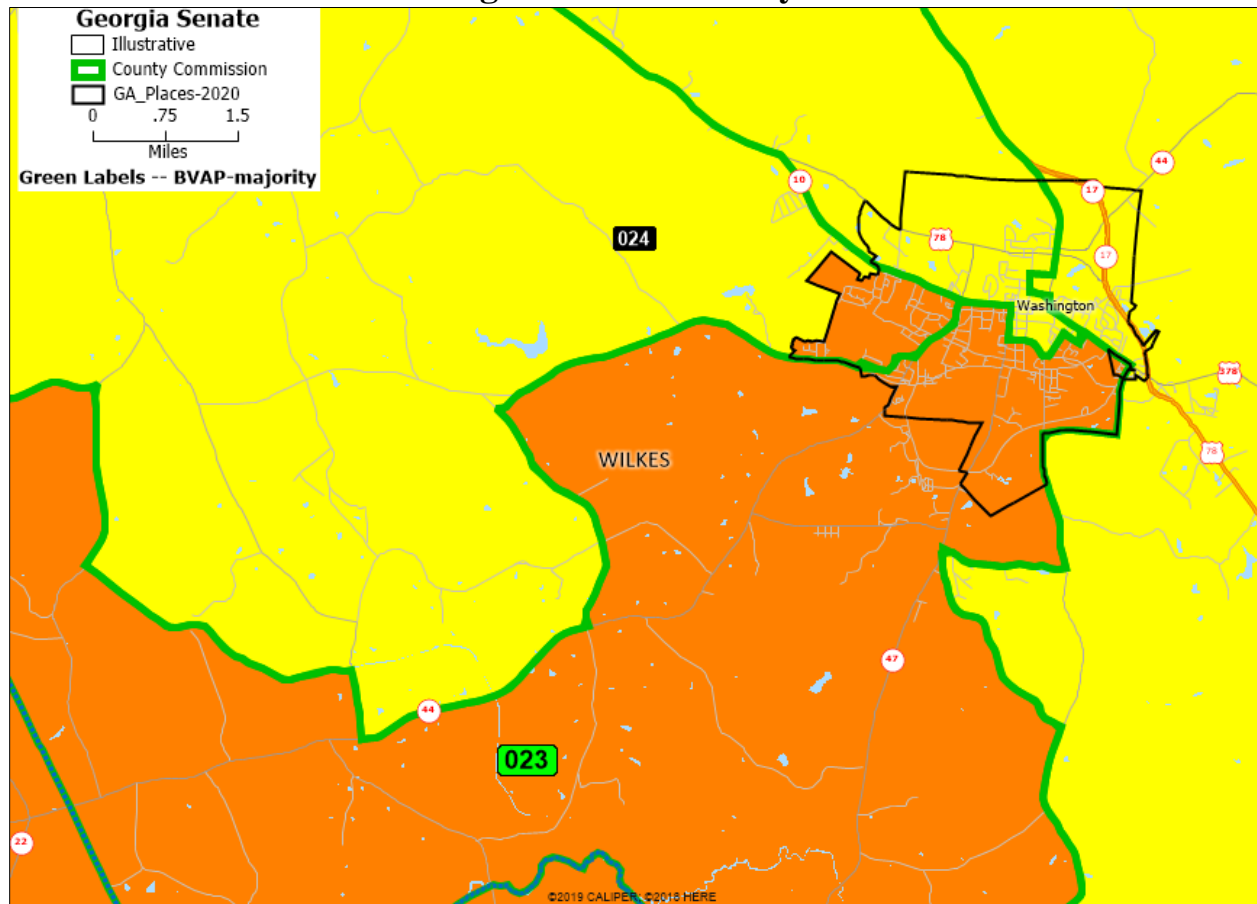


Figure 17F

107. Senate District 23 under the 2021 Plan is drawn with a BVAP under 36%. As shown in **Figure 18**, 2021 Senate District 23 lies around Augusta, including outlying parts of Augusta-Richmond County and a number of surrounding Black Belt counties in the larger Central Savannah River region, including Burke, Jefferson, Warren, and Taliaferro Counties.

Figure 18**2021 Senate District 23 and Vicinity****(b) Illustrative District 23 (Exhibit R-2)**

108. As shown in **Figure 19A**, an additional majority-Black Senate district can be drawn in the eastern Black Belt region by unpacking the Black population in both 2021 Senate District 22 (central Augusta-Richmond County) and 2021 Senate District 26 (which includes Black Belt counties to the west, such as Hancock County), and by uncracking the Black populations in 2021 Senate District 23 and in 2021 Senate District 25 (which include additional contiguous Black Belt counties such as Baldwin County).

Figure 19B**Washington/Wilkes County Detail**

110. To recap, an east-west configuration of counties across the eastern Black Belt allows a majority-Black Illustrative Senate District 23 to be drawn in an area that includes part of Augusta-Richmond County and most of the Black Belt area counties between Augusta and Macon.

C. Supplemental Plan Information

(1) Population Equality

111. As demonstrated by the district-by-district population statistics in **Exhibits O-1** and **M-1**, the Illustrative Senate Plan matches the 2021 Senate Plan

by staying within a stringent 1% population deviation limit for each district (*i.e.*, no district is more than 1% away from ideal population size).

(2) Compactness

112. Compactness scores for the Illustrative Senate Plan are within the norm for a typical legislative Plan. **Exhibit S-1** contains district-by-district compactness scores generated by Maptitude for all districts in the Illustrative Senate Plan, alongside scores for the 2014 Benchmark Senate Plan (**Exhibit S-2**) and the 2021 Senate Plan (**Exhibit S-3**).

113. The table in **Figure 20** (condensed from the **Exhibit S** series) reports mean and minimum Reock²⁷ and Polsby-Popper²⁸ scores for the Illustrative Senate Plan, the 2014 Benchmark Senate Plan, and the 2021 Senate Plan.

114. On balance, the Illustrative Senate Plan and 2021 Senate Plan score about the same on the widely referenced Reock and Polsby-Popper measures. If

²⁷ “The Reock test is an area-based measure that compares each district to a circle, which is considered to be the most compact shape possible. For each district, the Reock test computes the ratio of the area of the district to the area of the minimum enclosing circle for the district. The measure is always between 0 and 1, with 1 being the most compact. The Reock test computes one number for each district and the minimum, maximum, mean and standard deviation for the plan.” Caliper Corporation, *Maptitude For Redistricting* Software Documentation.

²⁸ The Polsby-Popper test computes the ratio of the district area to the area of a circle with the same perimeter: $4\pi\text{Area}/(\text{Perimeter}^2)$. The measure is always between 0 and 1, with 1 being the most compact. The Polsby-Popper test computes one number for each district and the minimum, maximum, mean and standard deviation for the plan. *See* Caliper Corporation, *Maptitude For Redistricting* Software Documentation.

anything, the Illustrative Plan scores better inasmuch as its least compact district by Reock scores .22, compared to .17 for the 2021 Senate Plan.

Figure 20

**Compactness Scores
Illustrative Senate Plan and 2014 Benchmark and 2021 Senate Plans**

	Reock			Polsby-Popper	
	Mean	Low		Mean	Low
Illustrative Senate Plan	.43	.22		.28	.14
2014 Benchmark Senate Plan	.43	.14		.27	.11
2021 Senate Plan	.42	.17		.29	.13

(3) Jurisdictional Splits

115. The **Exhibit T** series contains Maptitude generated reports for splits of key geographic areas in Georgia—from VTDs to regional commissions—under the Illustrative Senate Plan, the 2014 Benchmark Plan, and the 2021 Senate Plan.

116. The table in **Figure 21** summarizes split counts for counties, 2020 VTDs, and municipalities. The Illustrative Senate Plan scores better than the 2021 Plan across all six categories.

Figure 21

**County and VTD Splits/Whole Municipalities –
Illustrative Plan versus 2014 Benchmark and 2021 Senate Plans**

	Split Counties	Total County Splits*	2020 VTD Splits*	Single-County Whole City/Towns (478)#	Single and Multi County Whole City/Towns (531#)	Total City/Town Splits*
Illustrative Senate	28	57	38	437	464	166
2014 Benchmark	38	65	86	422	448	198
2021 Senate	29	60	40	434	463	169

*Populated splits only

Higher is better

117. **Exhibit T-1** contains a county and VTD split report for the Illustrative Senate Plan. **Exhibit T-2** reports on the 2014 Benchmark Senate Plan and **Exhibit T-3** reports on the 2021 Senate Plan.

118. **Exhibit T-4** contains a split report for all 531 municipalities (including the 53 cities and towns that spill over into another county) for the Illustrative Senate Plan. **Exhibit T-5** reports on the 2014 Benchmark Senate Plan and **Exhibit T-6** reports on the 2021 Senate Plan.

(4) Regional Splits

119. The table in **Figure 22** shows regional splits, defined by the 12 state-designated regional commissions and the 39 federally-designated core-based statistical areas (“CBSAs”), which include MSAs and micropolitan statistical areas.²⁹

²⁹ As the Census Bureau has explained “Micropolitan statistical areas consist of the county or counties (or equivalent entities) associated with at least one urban cluster of at least 10,000 but less than 50,000 population, plus adjacent counties having a high degree of social and economic integration with the core as measured through commuting ties.” *See also supra* n.9.

Figure 22

**Split Regional Commissions and CBSAs
Illustrative Plan versus 2014 Benchmark and 2021 Senate Plans**

	Regional Commission Splits	Whole CBSAs	CBSA Splits
Illustrative Senate	83	23	72
2014 Benchmark Senate	84	21	78
2021 Senate	89	20	79

120. Again, the Illustrative Senate Plan scores higher than the 2021 Senate Plan across the three categories.

(5) Incumbents

121. The Illustrative Senate Plan modifies 35 of the 56 districts as drawn in the 2021 Senate Plan.

122. Based on January 2022 incumbent address information given to Plaintiffs' attorneys by the Defendants in the form of a geocoded shapefile, Illustrative Senate District 4 has an incumbent conflict. Also, as in the 2021 Plan, Senate Districts 13 and 52 have paired incumbents. Based on the preliminary analysis of incumbent address information following the November 2022 general election pursuant to the 2021 House Plan, three districts in the Illustrative Senate Plan may have incumbent conflicts: 4, 5, and 35.

D. Comparative Socioeconomic Analysis

123. This section of my report briefly highlights charts and tables that I prepared from the 2015-2019 American Community Survey found on **Exhibit CD** or via: http://www.fairdata2000.com/ACS_2015_19/Georgia/.

124. The datasets available in these ACS-based documents facilitate comparisons by race/ethnicity and other socioeconomic measurements across counties that are included in relevant districts in the Illustrative Senate Plan and the 2021 Senate Plan, which can help identify commonalities and communities of interest in the relevant areas.

125. For example, the counties within Illustrative Senate District 28 share socioeconomic characteristics that make them similar to one another. A relatively high proportion of Black residents are in the labor force in Fayette, Spalding, and Clayton Counties (64.3%, 58.2%, and 69.5% respectively). (See **Exhibit CD Reports for Fayette, Spalding, and Clayton Counties at pp. 53-55.**)³⁰

126. By comparison, the labor force participation rates for Black residents in Pike and Lamar Counties (which are contained within 2021 Senate District 16 along with Spalding County and part of Fayette County) are lower than the

³⁰ Page references to Exhibit CD in this section refer to the county-specific or place-specific documents in Exhibit CD entitled “Single-Race African Americans and Latinos vis-à-vis Non-Hispanic Whites – Selected Socio-Economic Data,” which are based on the 2015-2019 ACS 5-Year Estimates. See *supra* ¶¶ 68-69.

counties contained within Illustrative Senate District 28. The Black labor force participation rates in Pike and Lamar Counties are 51.3% and 48.0% respectively. (See **Exhibit CD** Reports for Pike and Lamar Counties at pp. 53-55.)

127. The counties within Illustrative Senate District 17 share socioeconomic characteristics that make them similar to one another. For example, the counties that comprise Illustrative Senate District 17 are similar when educational attainment rates among Black residents are compared across the counties. A significant proportion of Black residents in Henry, Rockdale, and Dekalb Counties have received a bachelor's degree or higher (34.5%, 29.2%, and 29.2% respectively). (See **Exhibit CD** Reports for Henry, Rockdale, and Dekalb Counties at pp. 21-22.)

128. On the other hand, the counties that comprise 2021 Senate District 17 do not share these commonalities with respect to educational attainment characteristics. Walton and Morgan Counties are especially different. White residents in Walton and Morgan Counties (77.5% and 74.0% White) are less likely to have received a bachelor's degree or higher than Black residents in majority-non-White Henry County (14.1% in Walton County and 7.0% in Morgan County, compared to 34.5% in Henry County). (See **Exhibit CD** Reports for Walton and Morgan Counties at pp. 21-22.)

129. The counties within Illustrative Senate District 23 also share certain socioeconomic characteristics that make them similar to one another. For example, a significant proportion of Black residents across the Illustrative Senate District 23 counties had incomes that fell below the poverty line (ranging from 20.1% of the Black population to 38.4% of the Black population) (*See Exhibit CD Reports for relevant counties at pp. 25-29.*)

E. Online Interactive Maps

130. The Illustrative Senate Plan can also be viewed online in detail on the *Dave's Redistricting Application* (DRA) website via this link:

<https://davesredistricting.org/maps#viewmap::fe5932c5-df77-4a66-b242-1112a9666e60>.

131. For comparison, the 2021 Senate Plan can be viewed via this link:
<https://davesredistricting.org/join/52efcc99-481d-4b95-8e17-daddf279a59e>.

V. HOUSE – HISTORICAL BENCHMARK PLANS AND 2021 PLAN

A. Majority-Black House Districts – 1990s Plan to 2021 Plan

132. As shown in **Figure 23**, and despite the significant growth in Georgia's Black population over the past two decades discussed earlier in this report, the number of majority-Black House districts has climbed by just four districts from 45 (25% of districts) in the 2006 plan to 49 (27.2%) in the 2021 Plan, and has remained more or less static for the last decade.

Figure 23**Number of Majority- Black House Districts by Plan –2000 to 2021**

House Plans	Statewide Majority-Black Districts	Metro Atlanta Majority-Black Districts
1990s Plan -- 2000 Census	37	22
2006 Plan -- 2010 Census	45	30
2012 Plan -- 2010 Census	48	32
2015 Plan -- 2020 Census	47	31
2021 Plan -- 2020 Census	49	33

133. Since the enactment of the 2006 Plan, just three majority-Black districts have been added in Metro Atlanta, even as the Black population in the 29-county area has climbed by over 400,00 persons—the equivalent of nearly entire seven House districts based on the 2020 ideal district size.

134. Despite the nominal increase in majority-Black House districts since 2006, **Figure 24** reveals that the percentage of Black Georgians of voting age in majority-Black House districts is only slightly higher than in the 1990s (52% versus 45%). Under the 2021 Plan, the percentage of the NH White population in majority-White districts is down from the 1990s (76% versus 90%). Still, as with the Senate, the 25-point Black-White gap demonstrates that Black populations are disproportionately “cracked” or divided into majority-White districts in the House.

Figure 24**Same Race VAP in Majority-Black and Majority NH White Districts
2000 to 2021**

House Plans	Statewide % Black VAP in Majority- Black Districts*	Statewide %NH White VAP in Majority-White Districts
1990s Plan – 2000 Census	44.81%	90.49%
2006 Plan – 2010 Census	44.61%	83.73%
2015 Plan – 2020 Census	47.94%	77.6%
2021 Plan – 2020 Census	51.65%	76.16%

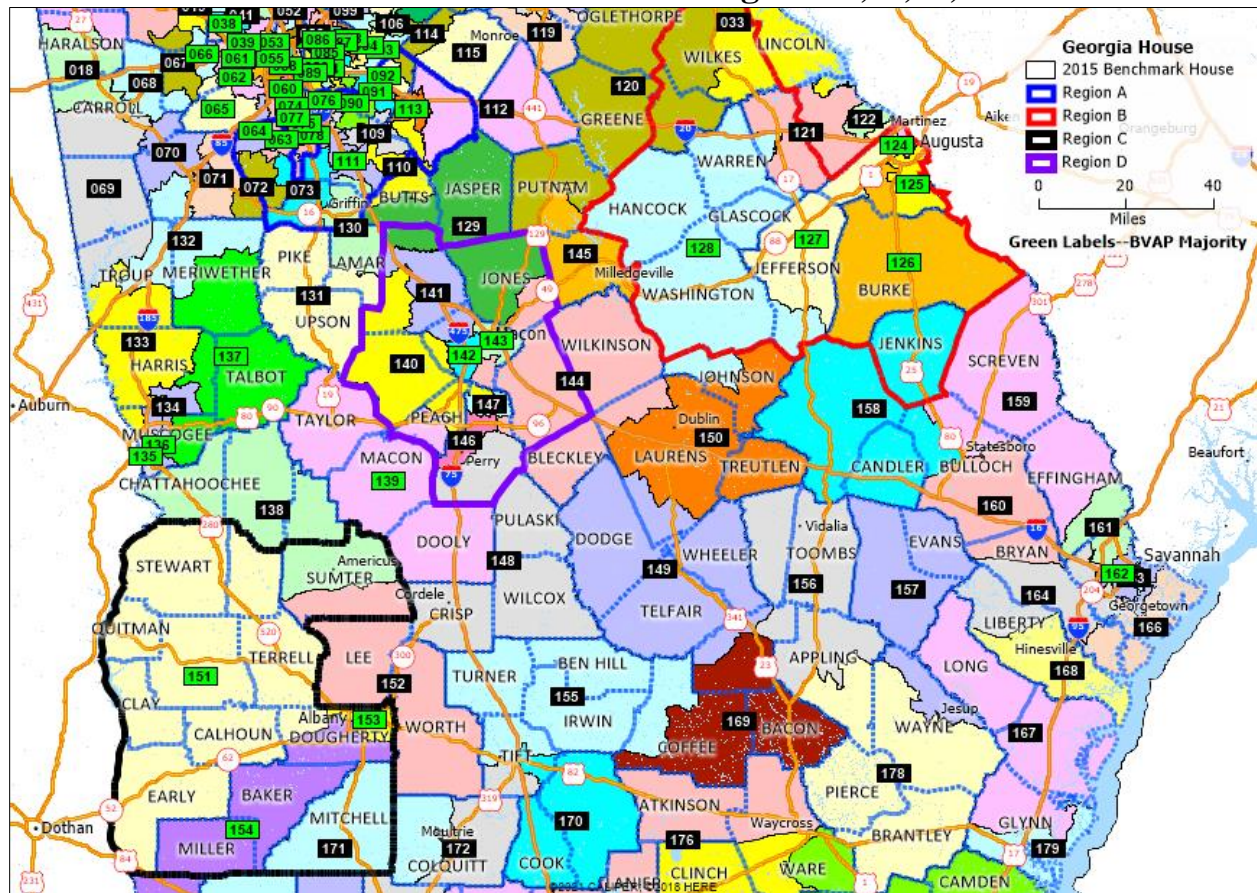
* including Districts that are BVAP- and/or BCVAP-majority

B. 2015 Benchmark House Plan

135. The map in **Figure 25** displays 2015 Benchmark House Plan districts in south Metro Atlanta (Region A) and in the eastern and western Black Belt (Regions B and C) and metropolitan Macon (Region D). Labels on the map display the district number. Green labels identify majority-Black districts.

Figure 25

2015 Benchmark House Plan – Regions A, B, C, and D



136. The map depicted in **Figure 25** is also included as **Exhibit U**.

137. **Exhibit V-1** contains a map packet depicting the Benchmark 2015 House Plan, with corresponding Census 2010 statistics, prepared by GLCRO.

Exhibit V-2 shows the map for the prior 2012-enacted House plan, and **Exhibit V-3** shows the map for the House plan enacted in 2006.

138. **Exhibit W-1** is a table reporting Census 2020 population statistics for the 180 districts in the 2015 Benchmark House Plan, as well as CVAP estimates

from the 5-year 2015-2019 Special Tabulation.³¹ **Exhibits W-2** and **W-3** provide similar population information for the prior, 2012-enacted and 2006-enacted plans.

139. As a result of the dramatic population shifts in Georgia since 2010, the 2015 Benchmark House Plan was severely malapportioned, with an overall deviation of 56.66%, according to the 2020 Census.

140. The 2015 Benchmark House Plan contains 47 majority-Black districts, with 48 BCVAP-majority districts and 62 districts that are B+L+ACVAP majority.

141. For comparison, additional 2015 Benchmark House Plan information regarding compactness scores, county splits, VTD splits, and municipal splits is reported *infra*.

C. 2021 House Plan

142. The map in **Figure 26** displays 2021 House Plan districts in south Metro Atlanta (Region A), in the eastern and western Black Belt (Regions B and C) and metropolitan Macon (Region D). Green labels identify majority-Black districts.

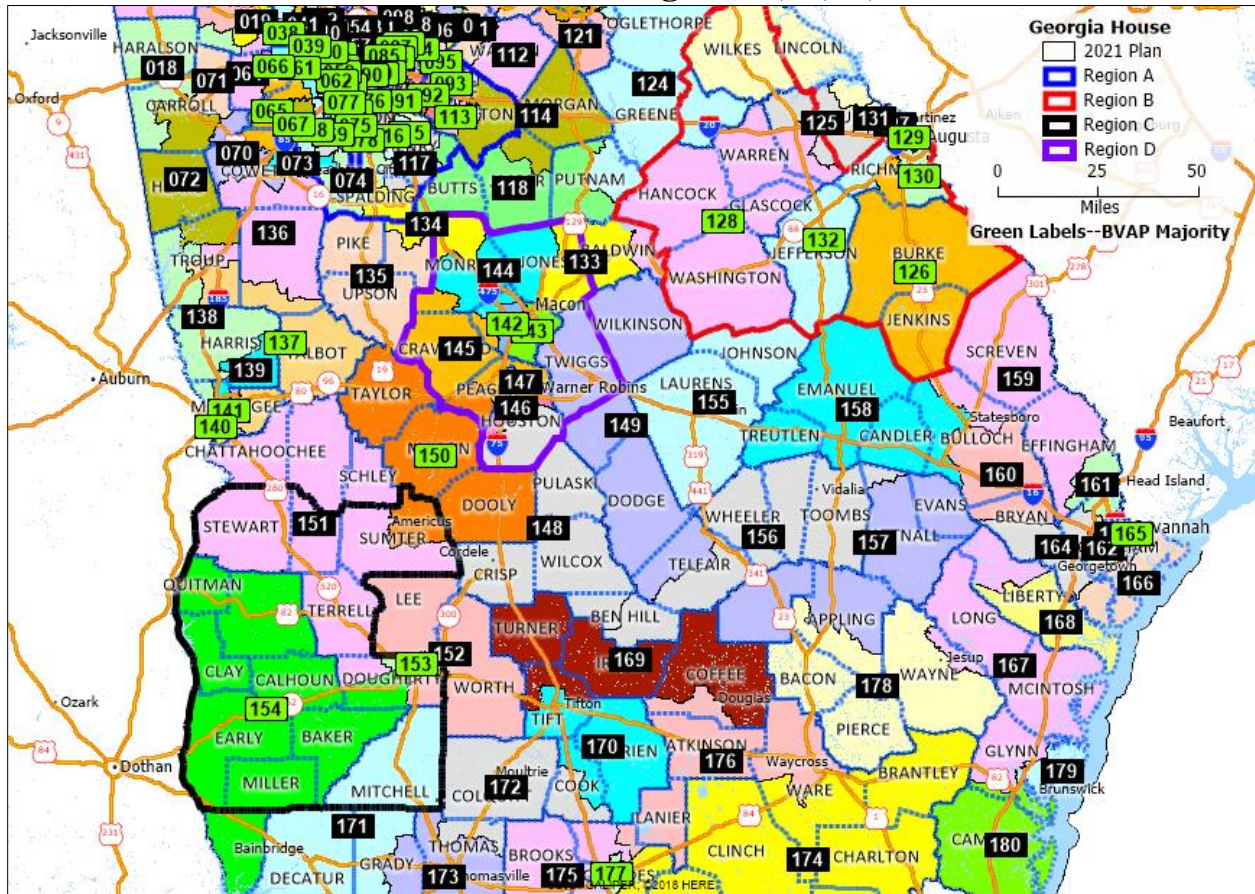
Exhibit X is a higher resolution version of the **Figure 26** map.

143. For comparison, additional 2021 House Plan information regarding compactness scores, county splits, VTD splits, and municipal splits is reported *infra*.

³¹ See U.S. Census Bureau, Citizen Voting Age Population by Race and Ethnicity,” <https://www.census.gov/programs-surveys/decennial-census/about/voting-rights/cvap.html>.

Figure 26

2021 House Plan – Regions A, B, C, and D



144. **Exhibit Y** contains a map packet depicting the 2021 House Plan, with corresponding Census 2020 statistics, prepared by GLCRO.

145. **Exhibit Z-1** is a table reporting Census 2020 population statistics for the 180 districts in the 2021 House Plan, as well as CVAP estimates from the 5-year 2016-2020 Special Tabulation.

146. **Exhibit Z-2** breaks out the county population components for the 180 districts in the 2021 House Plan.

147. **Exhibit Z-3** is a set of 12 sub-state maps of the 2021 House Plan organized by regional commission areas.

148. A higher resolution version of Figure 26 is included as **Exhibit Z-4**.

149. The 2021 House Plan contains 49 majority-Black districts, with 49 BCVAP-majority districts. Sixty-two districts in the 2021 House Plan are majority B+L+ACVAP.

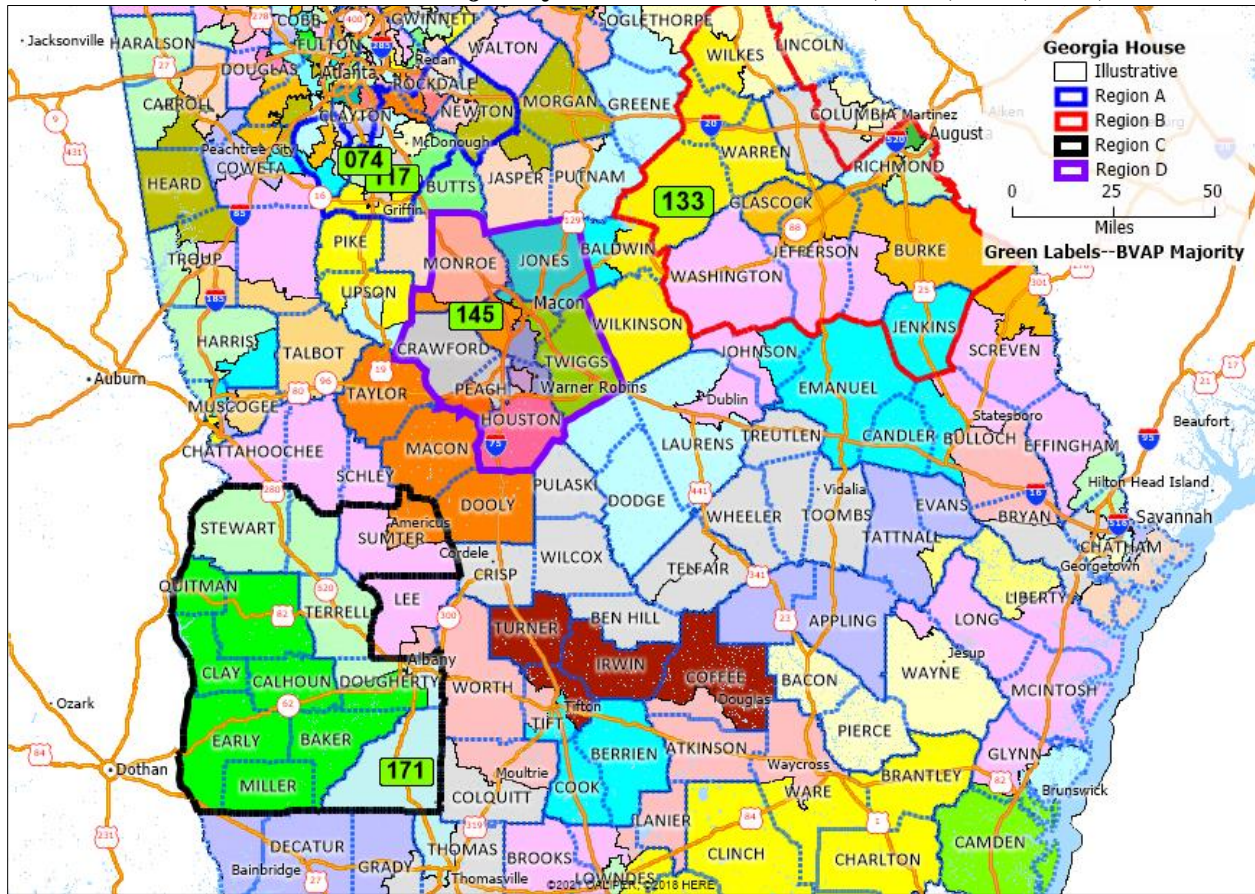
150. Supplemental 2021 House Plan information regarding compactness scores, VTD splits, county splits, municipal splits, and regional splits is reported *infra* for comparison with the Illustrative House Plan.

VI. ILLUSTRATIVE HOUSE PLAN

A. State-level Perspective

151. The map in **Figure 27** displays Illustrative House Plan districts, identifying five additional majority Black districts (large green labels) in south Metro Atlanta (Region A), in the Black Belt (Regions B and C), and in metropolitan Macon (Region D). **Exhibit AA** is a higher resolution version of the **Figure 27** map.

Figure 27
Illustrative House – New Majority-Black Districts –74, 117, 133, 145, and 171



152. The Illustrative House Plan contains 54 majority-Black districts (BVAP), with 54 majority-BCVAP districts and 53 that are both BVAP and BCVAP-majority. Sixty-seven districts in the Illustrative House Plan are majority B+L+ACVAP.

153. The five additional majority-Black House districts are:

Region A –South Metro Atlanta

District 74: in the Counties of Clayton (part), Henry (part), and Spalding (part)

District 117: in the Counties of Henry (part) and Spalding (part)

Region B – Eastern Black Belt/Central Savannah River Area

District 133: (north to south) in the Counties of Wilkes (part), Taliaferro, Warren,

Hancock, Baldwin (part), and Wilkinson

Region C – Western Black Belt

District 171: in the Counties of Dougherty (part), Mitchell, and Thomas (part)

Region D – Metropolitan Macon

District 145: in the Counties of Macon-Bibb (part) and Monroe (part)

154. **Exhibit AA-1** is a table reporting Census 2020 population statistics for the 180 districts in the Illustrative House Plan, as well as CVAP estimates from the 5-year 2016-2020 Special Tabulation.

155. **Exhibit AA-2** breaks out the county population components for the 180 districts in the Illustrative House Plan.

156. **Exhibit AA-3** is a set of 12 sub-state maps of the Illustrative House Plan organized by regional commission areas.

157. **Exhibit AA-4** is a statewide map showing the 54 majority Black House districts (green) under the Illustrative Plan, with the five additional majority-Black districts shaded light green.

158. **Exhibit AA-5** zooms on each of the five additional majority-Black districts in the Illustrative House Plan

159. **Exhibit AA-6** is a core constituencies report, showing population shifts by district from the 2021 House Plan to the Illustrative House Plan.

160. The text descriptions of the five additional majority-Black districts in the Illustrative House Plan set forth below are illustrated with paired comparison

map exhibits, depicting the Illustrative House Plan and 2021 House Plan at the same scale. Higher resolution versions of these side-by-side pairings are also included in exhibits in the **Exhibit AB**, **Exhibit AC**, **Exhibit AD**, **Exhibit AE**, and **Exhibit AF** series, as marked below. The county-level population change data discussed below is reflected in **Exhibits G-1**, **G-2**, and **G-4**.

161. The side-by-side maps are occasionally interspersed with maps depicting Illustrative House Plan boundaries in a few counties that are split in the process of creating the additional majority Black districts—*e.g.*, Spalding and Wilkes—but are not split in the 2021 Plan. These county-level maps reveal that the splits are reasonable, especially within the context of Georgia’s oftentimes irregularly shaped municipal and VTD boundaries. Notably, the Illustrative House Plan overall splits *fewer* counties than the 2021 Senate Plan, as reported *infra*.

B. District-by-District Analysis

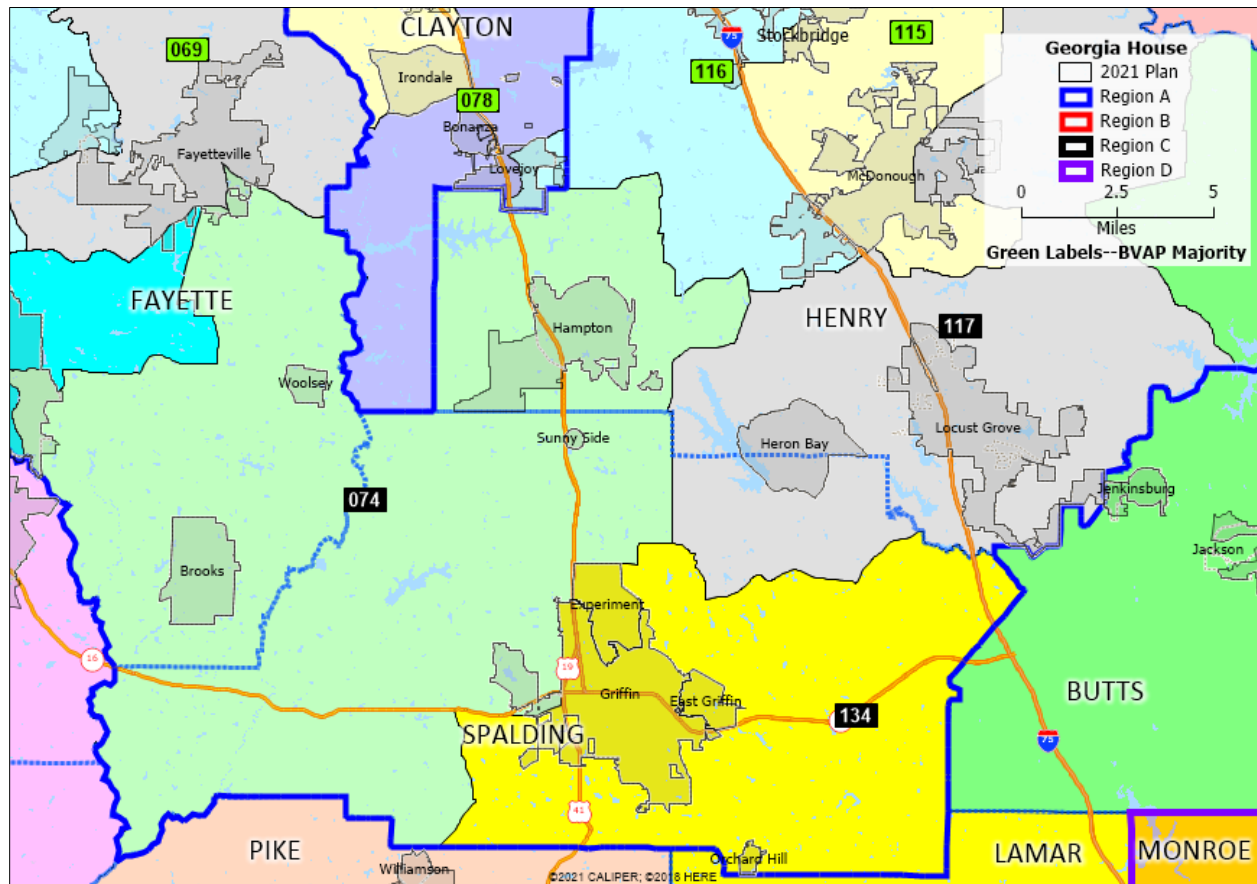
(1) South Metro Atlanta (Region A)

(a) 2021 House District 74 (Exhibit AB-1)

162. As shown in **Figure 28**, District 74 in the 2021 House Plan lies in the south Metro Atlanta area and combines parts of Fayette, Spalding, and Henry Counties. The BVAP of the district as drawn is under 26%.

Figure 28

2021 House Plan District 74 and vicinity

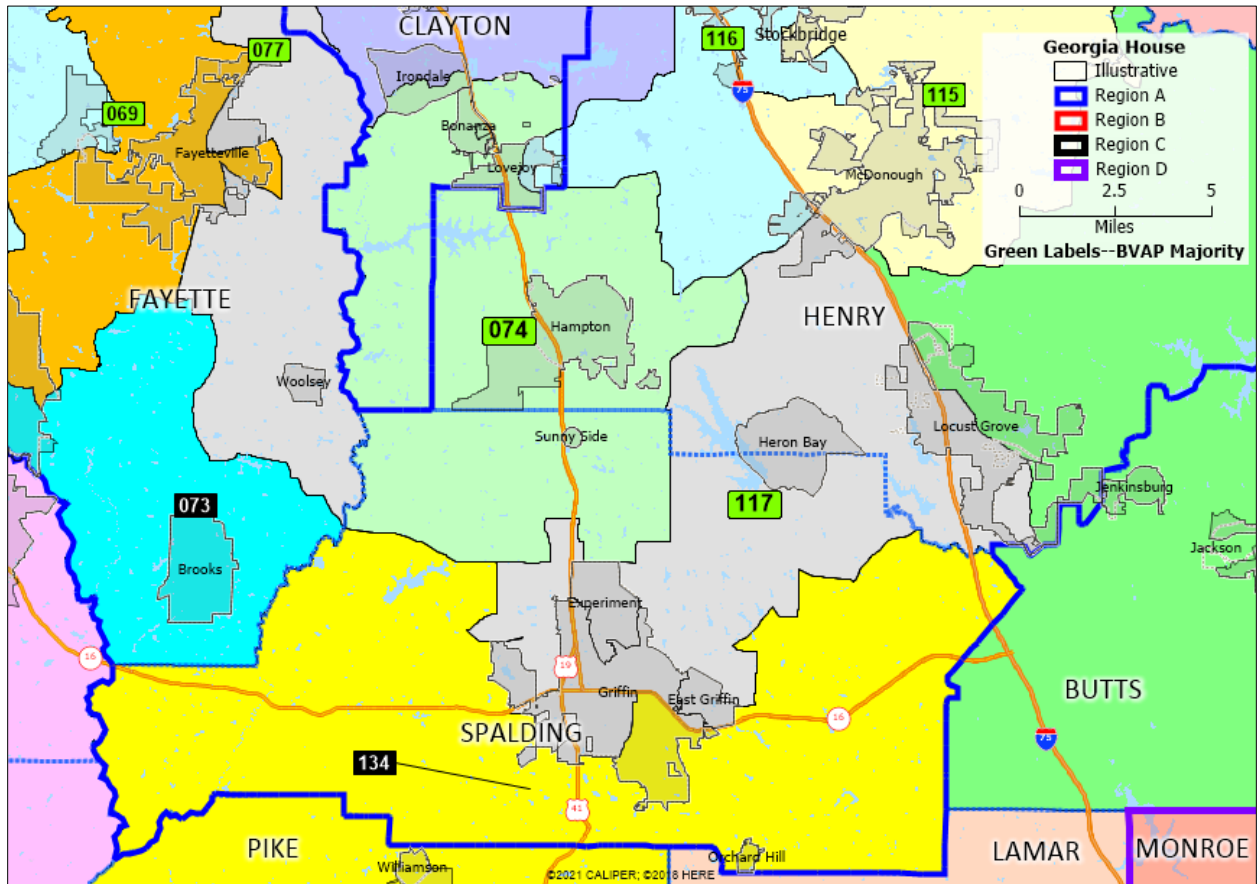
**(b) Illustrative District 74 (Exhibit AB-2)**

163. An additional majority-Black House District can be drawn in this area by unpacking the Black population in adjacent 2021 House District 78 (which is anchored in neighboring Clayton County, and is 71.58% BVAP under the 2021 House Plan) and uncracking the Black population in House District 74, which includes areas in Henry County and Spalding County that have experienced substantial Black population growth over the past two decades, as shown in the **Exhibit G** series and associated discussion *supra*.

164. As shown in **Figure 29**, unpacking those districts allows a majority-Black Illustrative House District 74 to be drawn in Henry, Spalding, and the neighboring part of Clayton County.

Figure 29

Illustrative Plan District 74 and vicinity



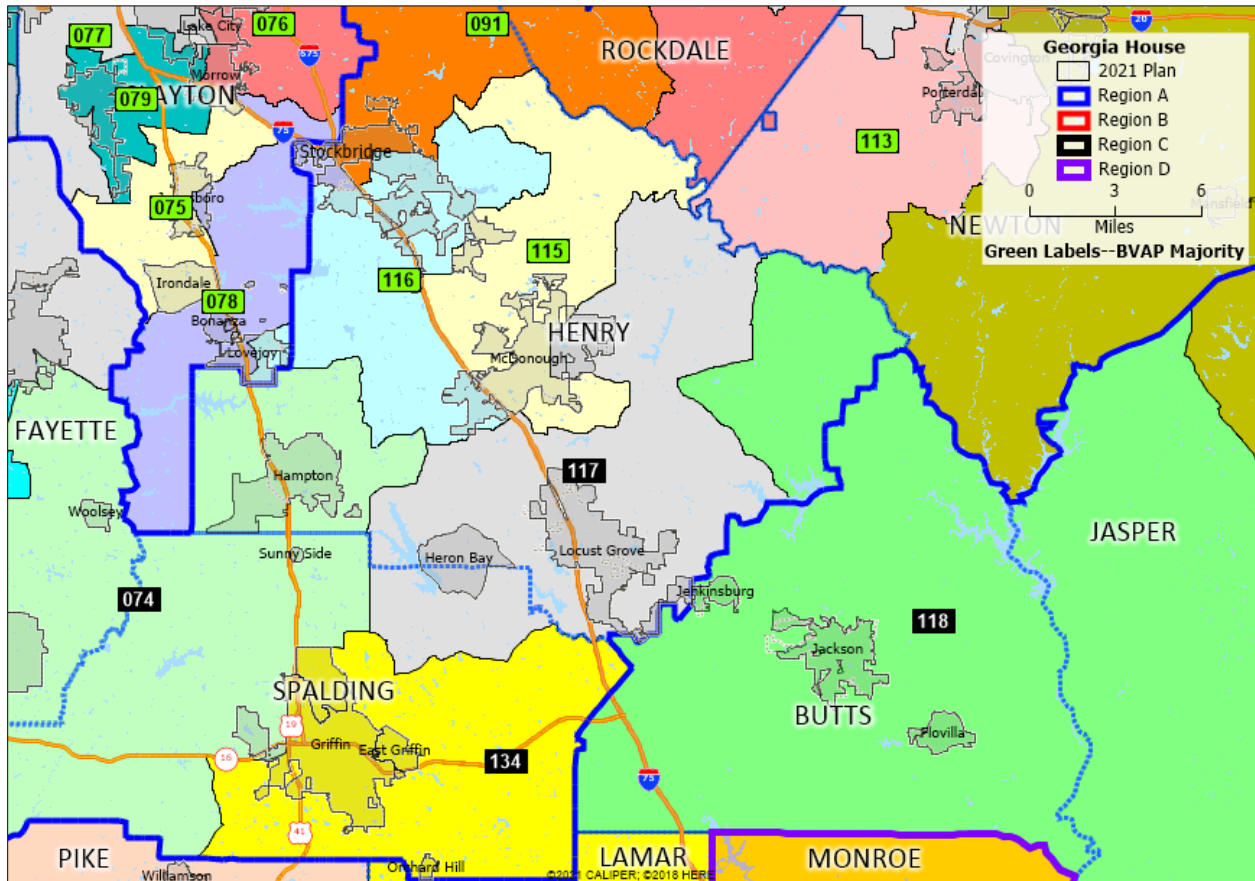
(c) 2021 House District 117 (Exhibit AC-1)

165. In the same general area, another additional majority-Black House district can be drawn around where District 117 in the 2021 House Plan is drawn. As shown in zoomed-in **Figure 29A**, displaying municipal boundaries, House District 117 in the 2021 House Plan lies in the south Metro Atlanta area and

includes parts of Henry and Spalding Counties. The BVAP of the district as drawn is just under 37%, and the BVAP of the neighboring district that includes the rest of Spalding County, District 134, is about 34%.

Figure 29A

2021 House Plan District 117 and vicinity



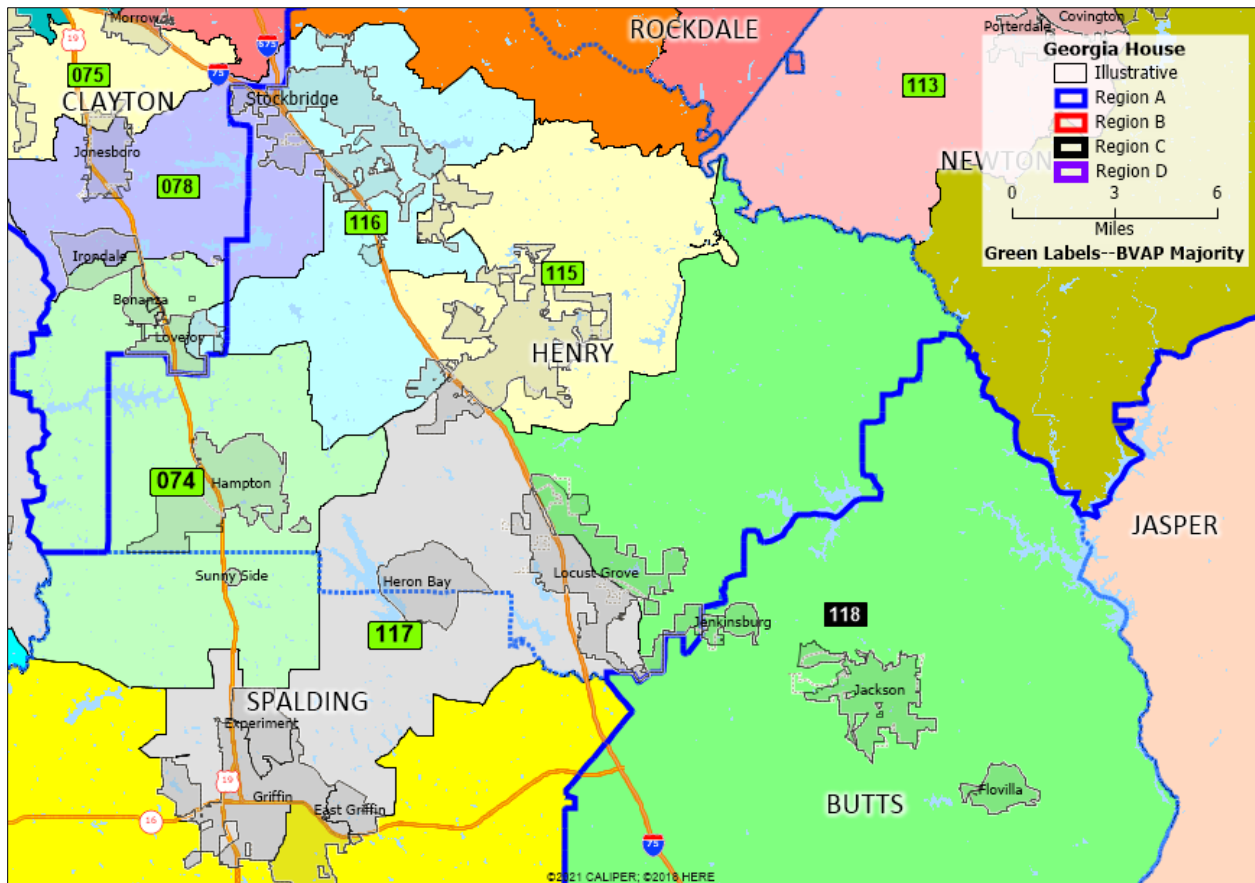
(d) Illustrative District 117 (Exhibit AC-2)

166. At least one additional majority-Black House District can be drawn in the area around 2021 House District 117 by unpacking the Black population in 2021 House District 116 (which includes part of Henry County just to the north, closer in to the center of the Metro Atlanta area) and uncracking the Black

populations in House Districts 117 and 134, bringing more of the growing Black populations in Henry and Spalding Counties into majority-Black districts. As demonstrated in **Figure 29B**, unpacking those districts allows for a majority-Black Illustrative House District 117 to be drawn in Henry and Spalding Counties.

Figure 29A

2021 House Plan District 117 and vicinity



167. **Figures 29B and 29C (Exhibits AC-3 and AC-4)** show the broader South Metro Region, including House Districts 74 and 117, in both the 2021 House Plan and the Illustrative Plan.

Figure 29B

South Metro Region under the 2021 House Plan

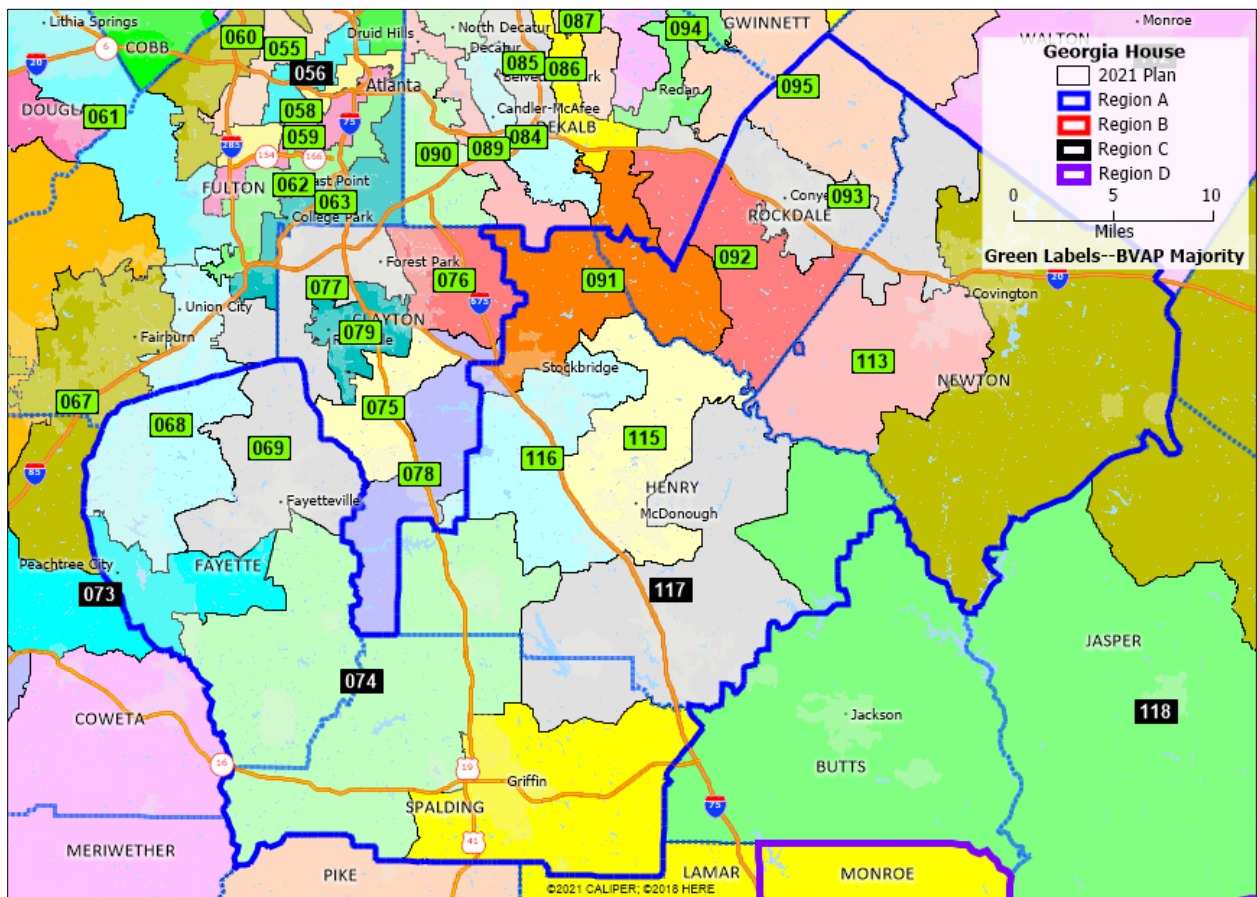
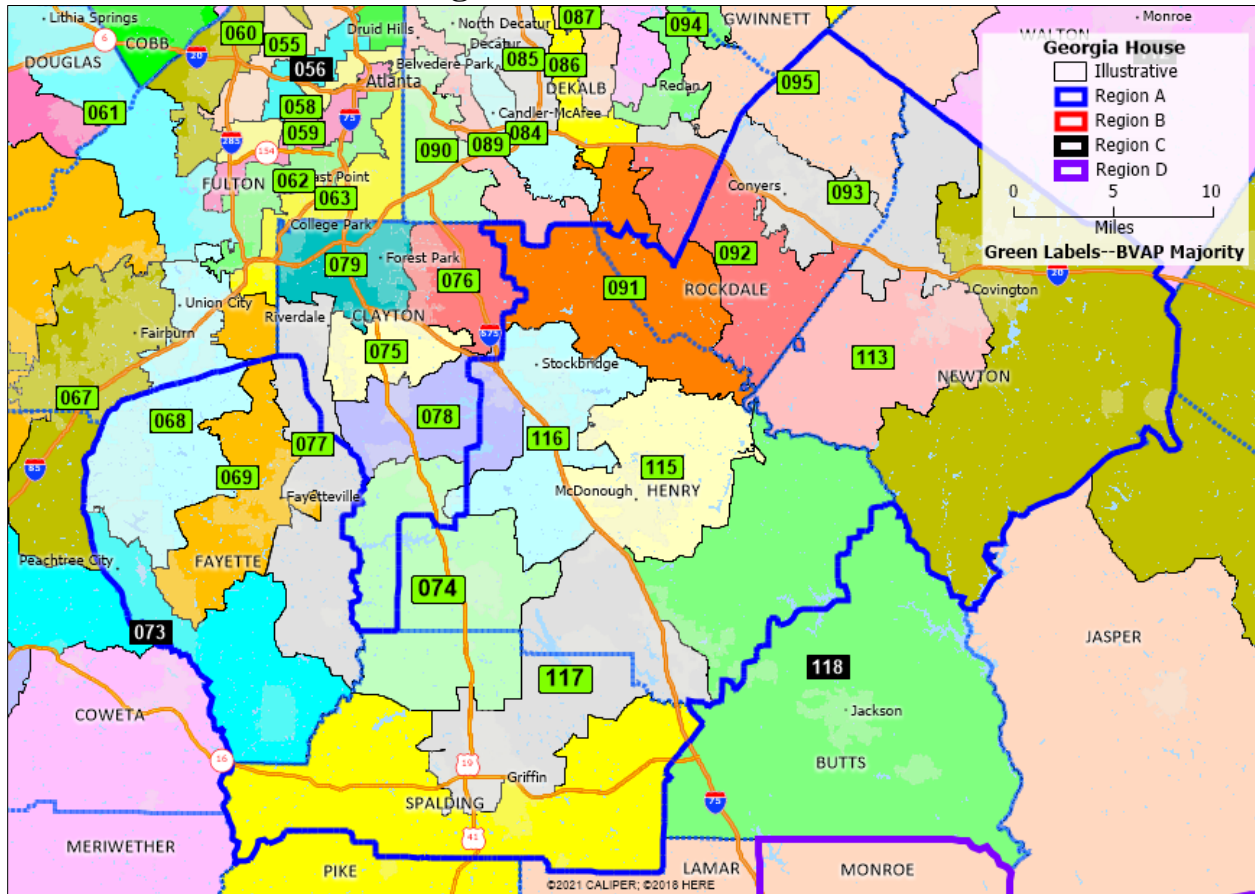


Figure 29C

South Metro Region under the Illustrative House Plan



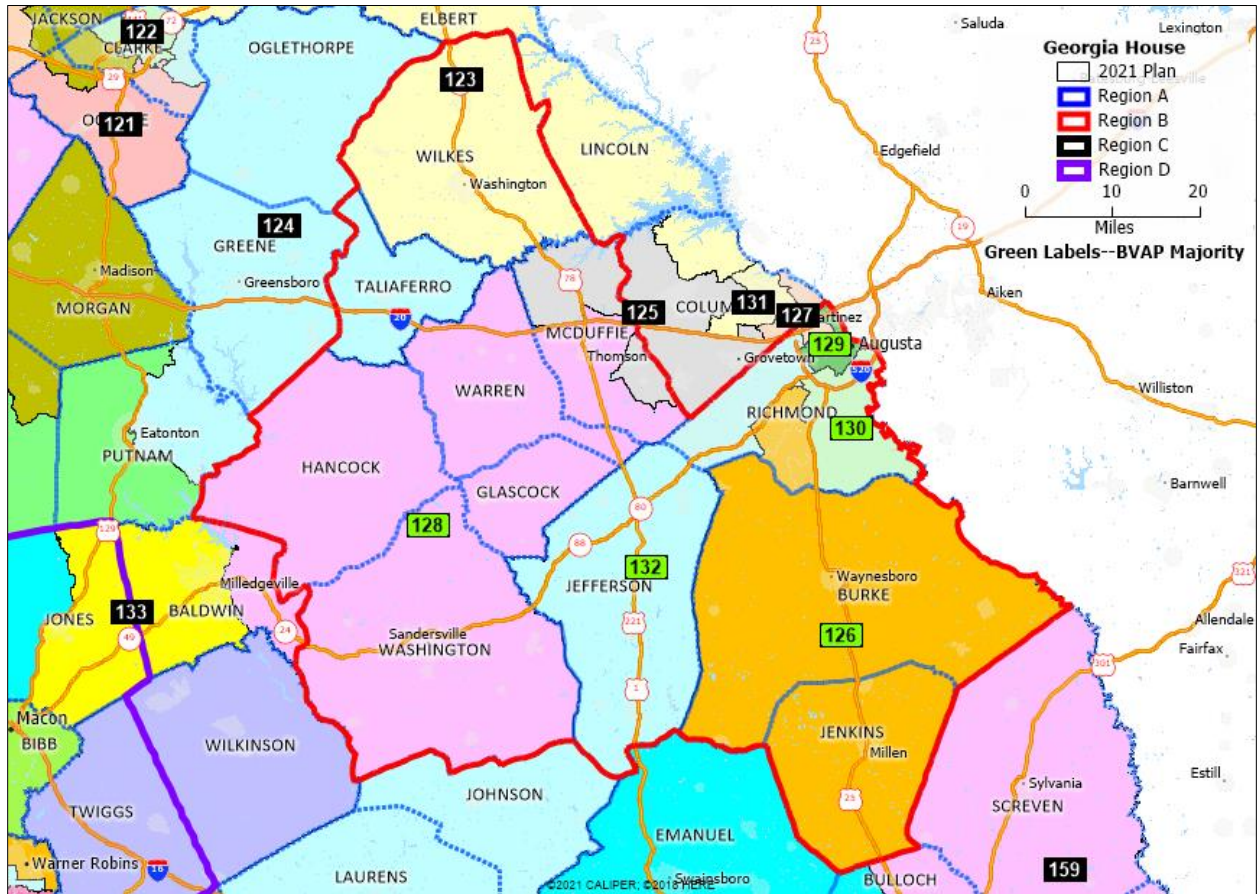
(2) Eastern Black Belt (Region B)

(a) 2021 Plan Eastern Black Belt Districts (Exhibit AD-1)

168. As shown in **Figure 30**, an additional majority-Black House District can also be drawn in the area in and around Augusta, including a number of Black Belt-area counties such as Baldwin, Wilkinson, and Taliaferro that are not within majority-Black districts under the 2021 House Plan.

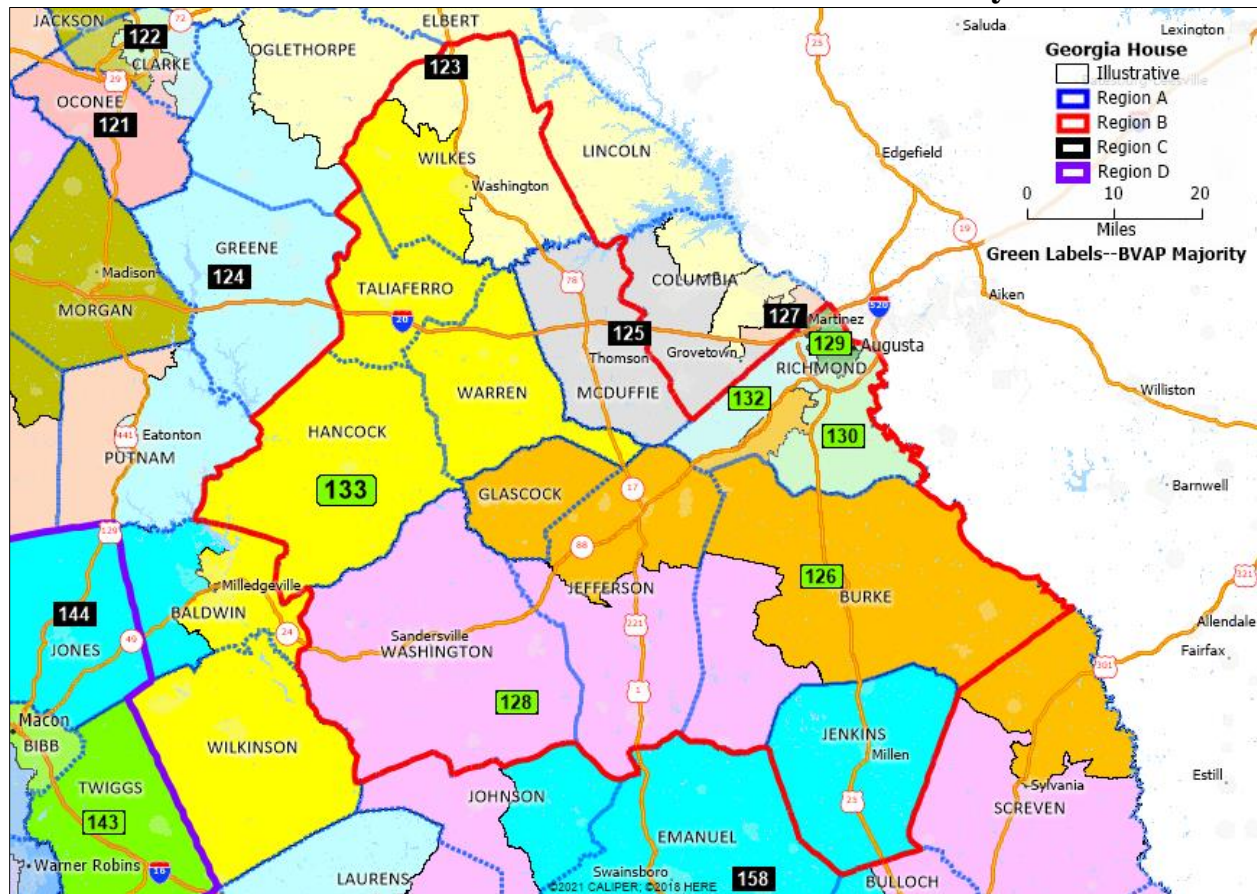
Figure 30

2021 House Plan District 133 and the eastern Black Belt



(b) Illustrative Plan District 133 (Exhibit AD-2)

169. As shown in **Figure 31**, in the 2021 House Plan, the area in and around Augusta includes five majority-Black districts: Districts 129 and 130 (entirely within Richmond County), as well as Districts 128, 131, and 132. An additional majority-Black district can be drawn in the outlying area by unpacking the Black populations of those five majority-Black districts in the 2021 House Plan.

Figure 31**Illustrative House Plan District 133 and vicinity**

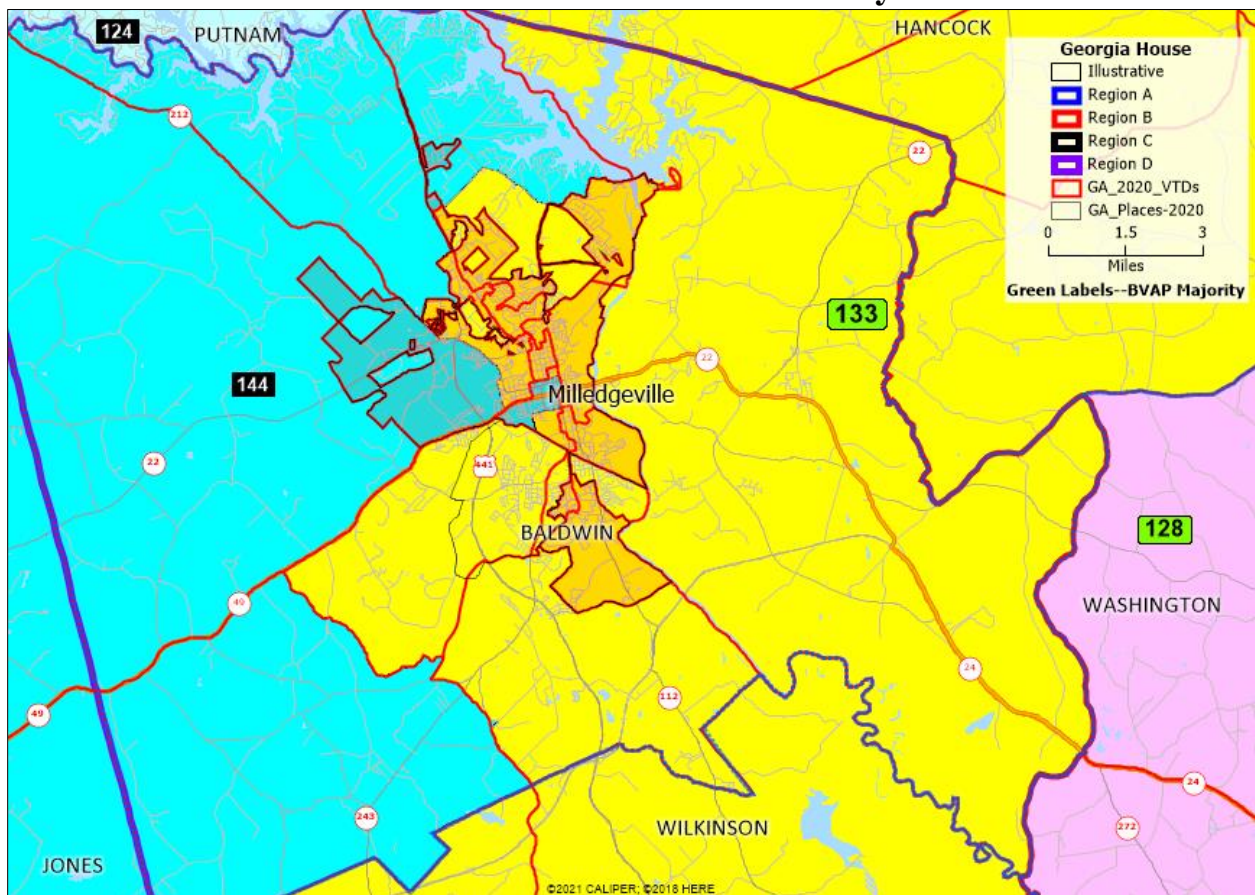
170. Looking at the Augusta region as a whole (Region B, outlined in red, plus adjacent counties), a sixth majority-Black district (Illustrative District 133) can be drawn in an area extending south-to-north from Wilkinson County to Baldwin County and on to Wilkes County.

171. Baldwin County is already split in the 2021 House Plan, but most of the Black population in the county lives in Milledgeville and is submerged in majority-White 2021 House District 133.

172. The map in zoomed-in **Figure 31B** demonstrates that Baldwin County can be split in a reasonable fashion along VTD and municipal lines to include most of oddly-shaped Milledgeville in Illustrative District 133. (The municipal boundary of Milledgeville is shaded in the **Figure 31B**. As shown below, there are unincorporated parts of Baldwin County contained within the Milledgeville city limits, some which are not contiguous or barely contiguous with the rest of the municipality.)

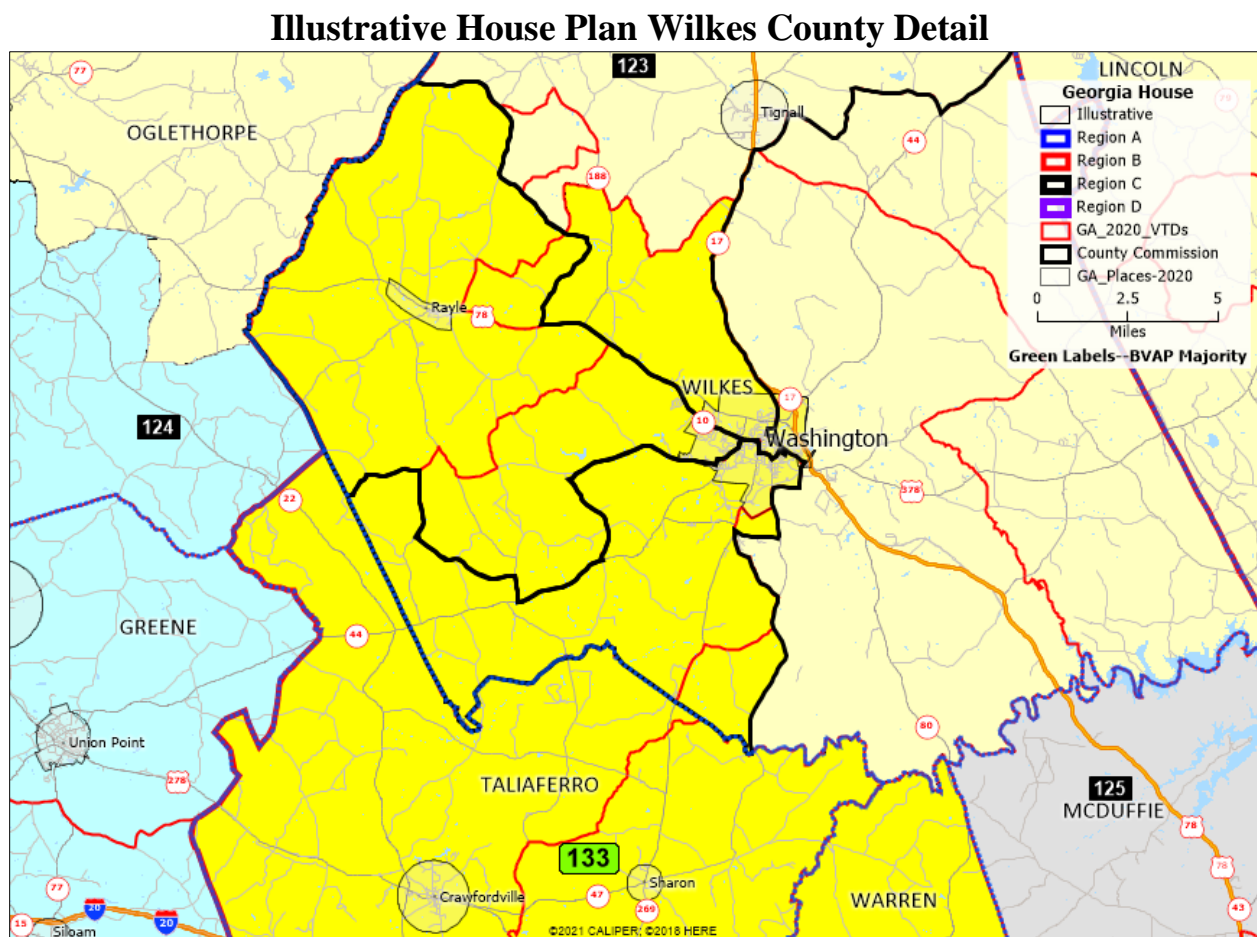
Figure 31B

Illustrative House Plan Baldwin County Detail



173. The map in **Figure 31C** shows that Wilkes County can be divided following county commission and municipal lines in forming Illustrative House District 133. A single VTD that is partly in the City of Washington forms the remainder of the perimeter. All of the City of Washington is in Illustrative District 133.

Figure 31



174. To recap, the Illustrative Plan draws six majority-Black House districts in the Eastern Black Belt—House Districts 124, 125, 126, 127, 128, and 133—where there are just five in the 2021 Plan.

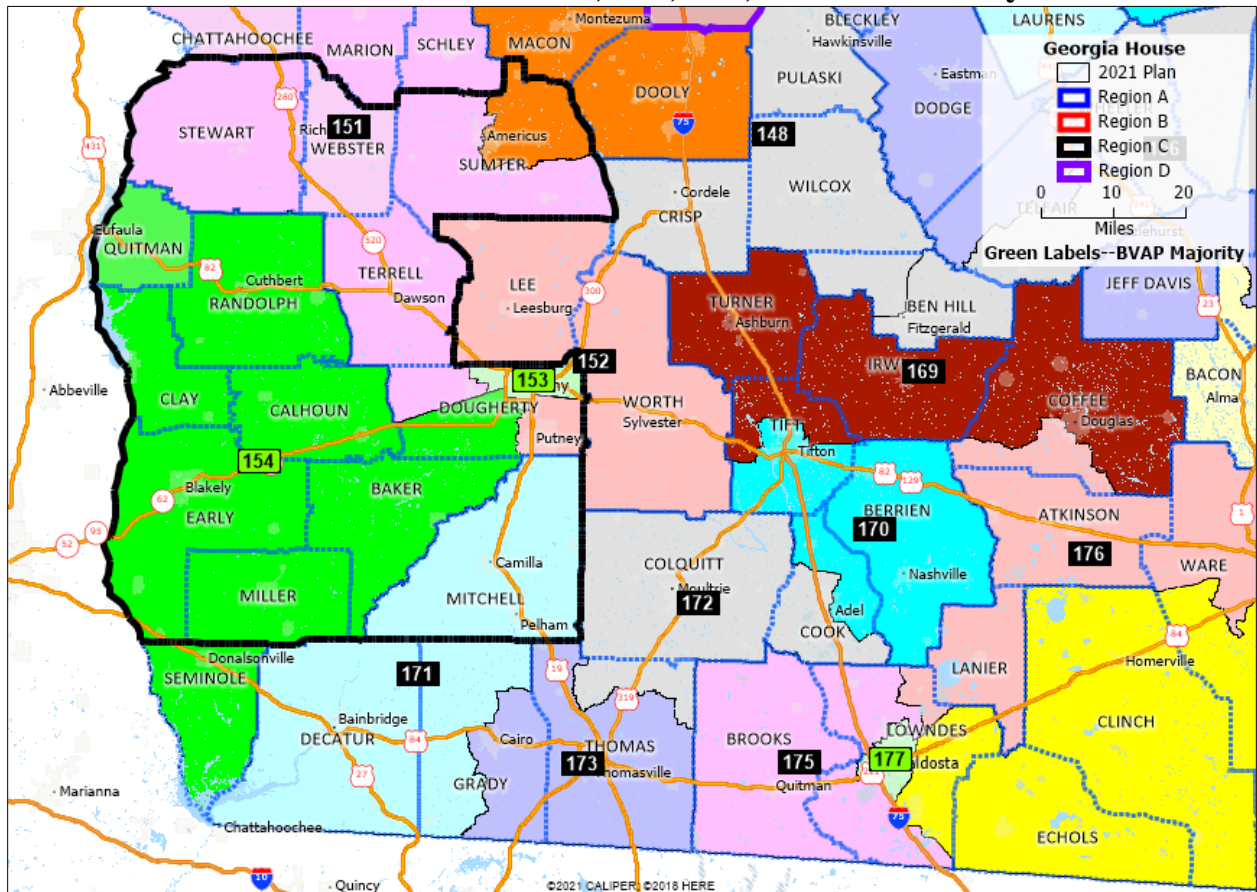
(3) Western Black Belt (Region C)

(a) 2021 Plan District 171 (Exhibit AE-1)

175. An additional majority-Black House District can also be drawn in the area along the historic U.S. Highway 19 corridor between Albany and Thomasville—unpacking and uncracking the Black population in and around the two cities. As shown in **Figure 32**, the 2021 House Plan includes only two majority-Black House Districts in the same general area as 2021 Senate District 12 in the southwest corner of the state (depicted with black lines as Region C).

Figure 32

2021 Plan: District 151, 153, 171, 173 and Vicinity



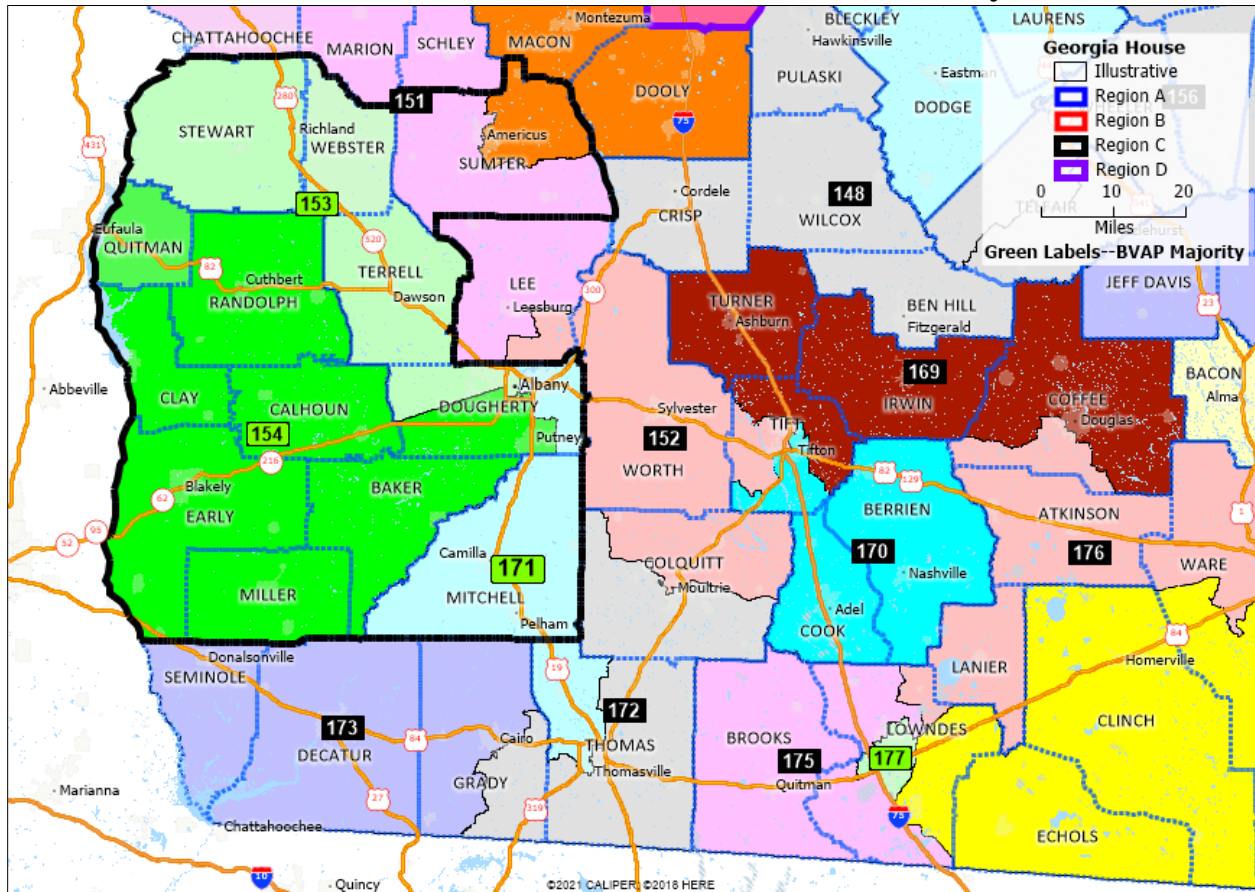
176. The BVAP of 2021 House District 171, which contains Mitchell County, is about 40%. In addition, the BVAP of neighboring 2021 House District 173, which includes Thomas County, is just over 36%. And nearby Dougherty County, which contains the majority-Black City of Albany, is split among four districts in the 2021 House Plan—including 2021 House District 153, which is packed with Black voters (68% BVAP).

(b) Illustrative District 171 (Exhibit AE-2)

177. As shown in **Figure 33**, an additional majority-Black House District can be drawn in southwest Georgia by unpacking the Black population in 2021 House District 153 and uncracking the Black populations in 2021 House Districts 171 and 173. Unpacking those districts allows a majority-Black Illustrative House District 171 to be drawn in part of Dougherty, Mitchell, and Thomas Counties around where majority-Black 2021 Senate District 12 is drawn.

Figure 33

Illustrative House Plan District 171 and vicinity



178. In addition to creating an additional majority-Black House district in the western Black Belt, the district unites the areas that comprise the Albany-Thomasville corridor. This economic, cultural, and historical transportation corridor runs along the western division of the historic Dixie Highway from

Albany to Thomasville, and has been recognized by the Southwest Georgia Regional Commission.³²

179. Moreover, the inclusion of Thomas County in majority-Black Illustrative House District 171 adds part of a second majority-Black district to the band of Black Belt counties in Southwest Georgia that extend as far east as the City of Valdosta and Lowndes County, as depicted in the GBPI map in **Figure 4**, *supra*. Majority-Black 2021 House District 177 in Valdosta is unchanged in the Illustrative Plan.

180. To recap, the Illustrative House Plan includes a third majority-Black district in the same general area as 2021 Senate District 12 in the southwest corner of the state, whereas the 2021 House Plan only includes two such districts.

(4) Metropolitan Macon (Region D)

(a) 2021 Plan (Exhibit AF-1)

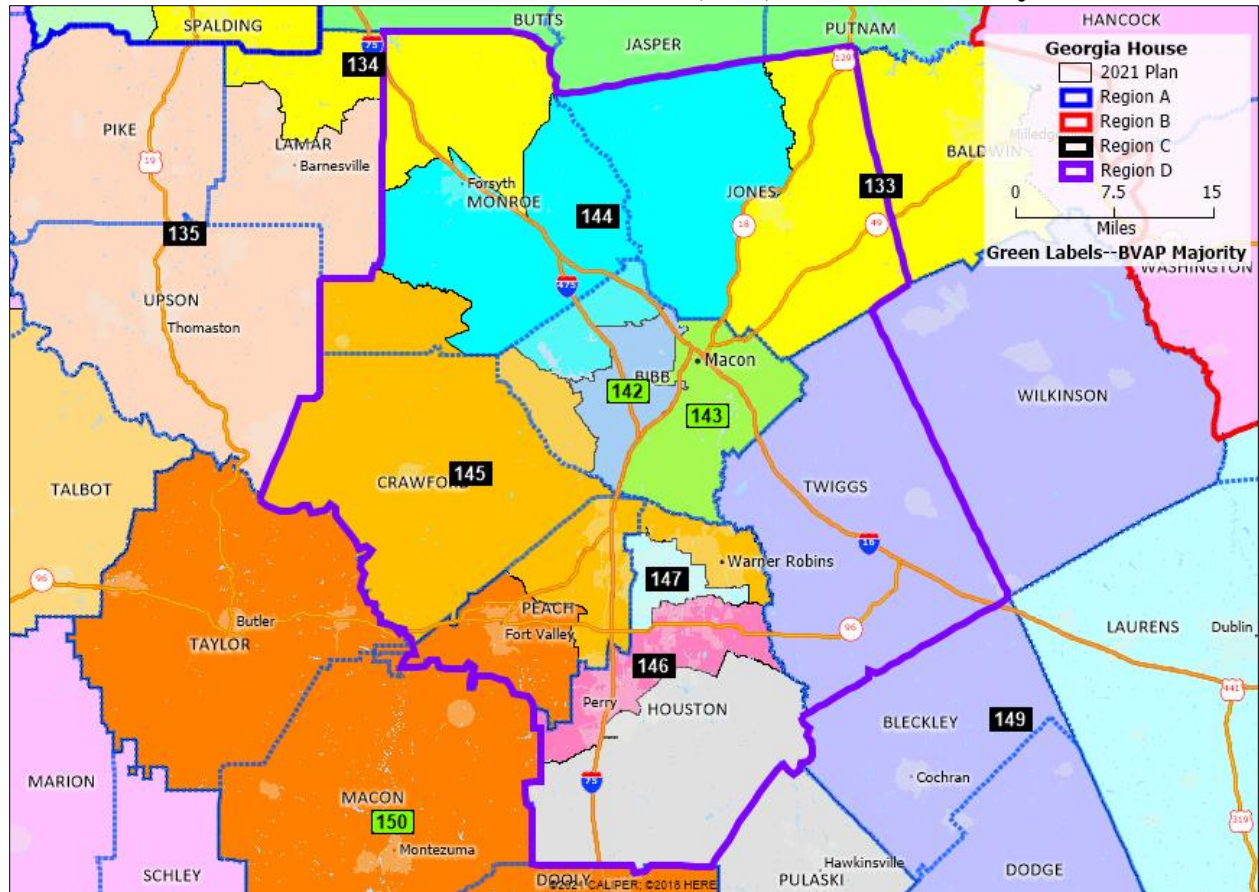
181. An additional majority-Black district can also be drawn in the Macon area by unpacking the Black population in the two majority-Black districts—2021 House District 142 (59.5% BVAP) and 2021 House District 143 (60.79% BVAP).

³² Southwest Georgia Regional Commission, *Corridor Management Plan* (2014), <http://www.dot.ga.gov/DriveSmart/Travel/ScenicByways/HistoricDixieHwy/HDH-CorridorManagementPlan.pdf>

182. As illustrated in **Figure 34**, under the 2021 House Plan, House District 145 includes parts of five different counties (Houston, Peach, Macon-Bibb, Crawford, and Monroe). The BVAP of 2021 House District 145 is 35.67%. Under the 2021 House Plan, there are two majority-Black districts in counties comprising the combined Macon-Bibb Warner Robins MSAs, even though the Black population there is more than sufficient to support a third.

Figure 34

2021 House Plan Districts 142,143, 145 and vicinity

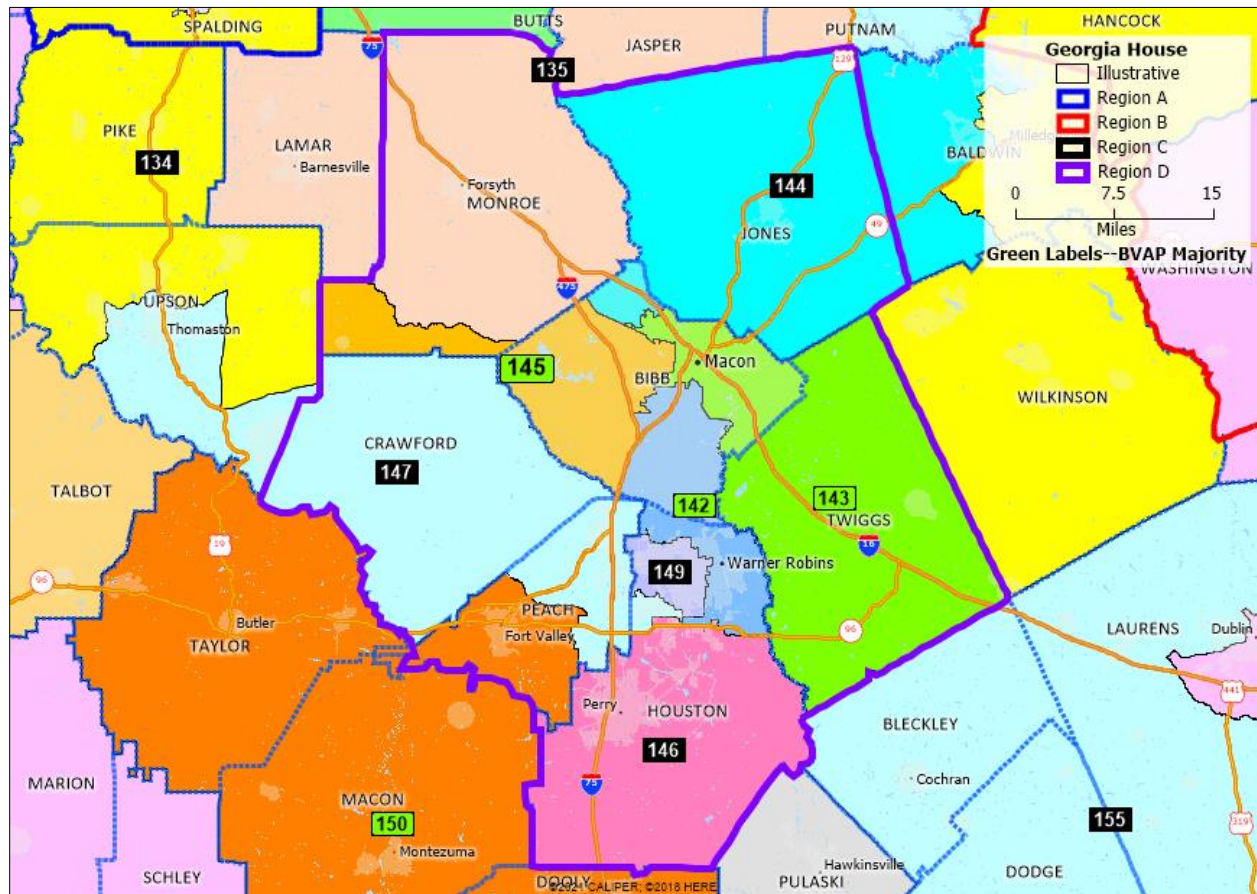


(b) Illustrative House District 145 (Exhibit AF-2)

183. Under the Illustrative Plan, majority-Black House District 145 (50.2% BVAP) is anchored in Macon and combined with the southern part of Monroe County, which is also split in the same general area in the 2021 House Plan.

Figure 35

Illustrative House District 145 and Vicinity



C. Supplemental Plan Information

(1) Population Equality

184. As demonstrated by the district-by-district population statistics in **Exhibits AA-1 and Z-1**, the Illustrative House Plan matches the 2021 Senate Plan

by staying within a stringent 1.5% population deviation limit for each district (*i.e.*, no district is more than 1.5% away from ideal population size).

(2) Compactness

185. Compactness scores for the Illustrative House Plan are within the norm. **Exhibit AG-1** contains compactness scores generated by Maptitude for all districts in the Illustrative House Plan, alongside scores for the 2015 Benchmark House Plan (**Exhibit AG-2**) and the 2021 House Plan (**Exhibit AG-3**).

186. The table in **Figure 37** (condensed from the **Exhibit AG** series) reports Reock and Polsby-Popper scores for the Illustrative House Plan, alongside scores for the 2015 Benchmark House Plan and the 2021 House Plan.

Figure 36

Compactness Scores Illustrative House Plan versus 2015 Benchmark and 2021 House Plans

	Reock			Polsby-Popper	
	Mean	Low		Mean	Low
Illustrative House Plan	.39	.16		.27	.11
2015 Benchmark House Plan	.39	.13		.27	.09
2021 House Plan	.39	.12		.28	.10

187. On balance, the Illustrative House Plan and 2021 House Plan score about the same on the widely referenced Reock and Polsby-Popper measures. If anything, the Illustrative Plan scores better inasmuch as its least compact district by Reock scores .16, compared to .12 for the 2021 House Plan.

(3) Jurisdictional Splits

188. The **Exhibit AH** series contains Maptitude-generated reports for splits of key geographic areas in Georgia—from VTDs to regional commissions—under the Illustrative House Plan, the 2015 Benchmark Plan, and the 2021 House Plan.

189. The table in **Figure 38** summarizes split counts for counties, 2020 VTDs, and municipalities. On balance, the Illustrative House Plan and the 2021 House Plan score about the same on county and VTD splits. The 2021 House Plan has a slight edge on municipal splits (although the Illustrative House Plan keeps more single-county municipalities whole).

Figure 37

**County and VTD splits/Whole Municipalities
Illustrative House Plan versus
2015 Benchmark and 2021 House Plans**

	Split Counties	Total County Splits*	2020 VTD Splits*	Single-County Whole City/Towns (478)#	Single and Multi County Whole City/Towns (538)#	Total City/Town Splits*
Illustrative House	68	209	179	393	402	361
2015 Benchmark	73	215	268	381	402	378
2021 House	69	209	179	384	412	344

*Populated splits only

Higher is better

190. **Exhibit AH-1** contains a county and VTD split report generated by Maptitude for all districts in the Illustrative House Plan. **Exhibit AH-2** reports for

the 2015 Benchmark House Plan and **Exhibit AH-3** reports for the 2021 House Plan.

191. **Exhibit AH-4** contains a split report for all 531 municipalities, including the 43 cities and towns that spill over into another county. See also **Exhibit AH-5** reports for the 2015 Benchmark House Plan and **Exhibit AH-6** reports for the 2021 House Plan.

(4) Regional Splits

192. The table in **Figure 39** shows summaries of Maptitude-generated regional splits, defined by the 12 state-designated regional commissions and the 39 federally-designated (“CBSAs”), which include MSAs and micropolitan areas.

Figure 38

**Split Regional Commissions and CBSAs
Illustrative House Plan versus
2014 Benchmark and 2021 House Plans**

	Regional Commission Splits	Whole CBSAs	CBSA Splits
Illustrative House Plan	223	10	218
2014 Benchmark House Plan	220	8	217
2021 House Plan	225	10	214

193. On balance, the Illustrative House Plan and 2021 Plan score about the same across the three regional categories.

(5) Incumbents

194. The Illustrative House Plan modifies about half (92) of the districts as drawn in the 2021 House Plan.

195. Based on January 2022 incumbent address information given to Plaintiffs' attorneys by the Defendants in the form of a geocoded shapefile, the following seven districts in the Illustrative House Plan may have incumbent conflicts: 106, 134, 154, 155, 167, 172, and 176. Based on the preliminary analysis of incumbent address information following the November 2022 general election pursuant to the 2021 House Plan, eight districts in the Illustrative House Plan may have incumbent conflicts: 65, 118, 134, 147, 155, 167, 171, 172.

E. Comparative Socioeconomic Analysis

196. This section of my report briefly highlights charts and tables that I prepared from the 2015-2019 American Community Survey found on **Exhibit CD** or via: http://www.fairdata2000.com/ACS_2015_19/Georgia/.

197. The datasets available in these ACS-based documents facilitate comparisons by race/ethnicity across counties and communities under the Illustrative House Plan and the 2021 House Plan, which can help identify commonalities and communities of interest in the relevant areas.

198. For example, Illustrative House District 74 includes parts of Henry, Spalding, and Clayton Counties and Illustrative House District 117 includes parts of

Henry and Spalding Counties. The counties within Illustrative House Districts 74 and 117 share socioeconomic characteristics that make them similar to one another. As one example, and as noted *supra* with respect to Illustrative Senate District 28, a similar proportion of Black residents in Henry, Spalding, and Clayton counties are in the labor force (71.0%, 58.2%, and 69.5% respectively). (See **Exhibit CD** Reports for Henry, Spalding, and Clayton Counties at pp. 53-55.)³³

199. In addition to being part of the eastern Black Belt region as discussed *supra*, counties within Illustrative House District 133 share socioeconomic characteristics that make them similar to one another. For example, a comparatively low proportion of Black residents in Illustrative District 133 counties have received a bachelor's degree or higher (ranging from 5.7% to 12.7% of the Black population ages 25 and over). (See **Exhibit CD** Reports for relevant counties at pp. 21-22.)

200. Illustrative House District 171 includes parts of Dougherty and Thomas Counties, and all of Mitchell County. Poverty rates are comparatively high for the Black population in all three counties. (See **Exhibit CD** Reports for Dougherty, Thomas, and Mitchell Counties at pp. 25-29.)

³³ Page references to Exhibit CD in this section refer to the county-specific or place-specific documents in Exhibit CD entitled "Single-Race African Americans and Latinos vis-à-vis Non-Hispanic Whites – Selected Socio-Economic Data," which are based on the 2015-2019 ACS 5-Year Estimates. See *supra* ¶¶ 68-69.

201. Illustrative House District 145 is in Macon-Bibb County and Monroe County. About 91% of all persons and 96% of Black persons in Illustrative House District 145 are Macon-Bibb residents. With the creation of a third Macon-centric district, Black voters in the consolidated city would potentially have a stronger voice in the State House to address shared socio-economic issues. For example, one-third of the Black population and nearly half (47.5%) of Black children in Macon-Bibb live in poverty. By contrast, 11.6% of the White population in Macon-Bibb and 14.1% of White children in live in poverty. (See **Exhibit CD** Report for Macon-Bibb County at pp. 25-29.)

E. Online Interactive Maps

202. The Illustrative House Plan can also be viewed online in detail on the *Dave's Redistricting Application* (DRA) website via the link below.

<https://davesredistricting.org/maps#viewmap::b9272e37-d718-49e8-b079-41f8331c9fa7>.

203. For comparison, the 2021 House Plan can be viewed via this link.

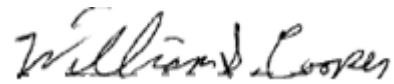
<https://davesredistricting.org/join/40c422df-0e13-4933-b3bb-5c661a9fc565>

###

I reserve the right to continue to supplement my declaration in light of additional facts, testimony and/or materials that may come to light.

Pursuant to 28 U.S.C. § 1746, I declare under penalty of perjury of the laws of the United States that the foregoing is true and correct according to the best of my knowledge, information and belief.

Executed on December 5, 2022.

A handwritten signature in cursive script, reading "William S. Cooper", is positioned above a horizontal line.

WILLIAM S. COOPER

EXHIBIT E

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UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

ANNIE LOIS-GRANT et al.,)
)
Plaintiffs,)
)
vs.) CIVIL ACTION FILE
) NO. 1:22-CV-00122-SCJ
BRAD RAFFENSPERGER, in his)
)
official capacity as the)
Georgia Secretary of State,)
et al.,)
)
Defendants.)
_____)

Deposition of Blakeman Esselstyn
(Signature is reserved.)
February 16, 2023
9:00 a.m.

Remote via Zoom technology

Reported by: Carla J. Hopson, RPR, CCR-1816

1 (Recess.)

2 Q (By Mr. Tyson) All right.

3 A I remember one question that I had meant
4 to ask at the beginning. I'm just curious. It his
5 being recorded other than the -- by the court
6 reporter.

7 (Off-record discussion.)

8 Q (By Mr. Tyson) All right, Mr. Esselstyn,
9 let's turn from your background into your work on
10 this case. So I wanted to ask you first, how first
11 hear about the Grant case?

12 A I don't -- I'm not sure honestly. I'm
13 not -- I'm not sure.

14 Q Do you recall who first reached out to
15 you about participating in this case?

16 A Counsel.

17 Q Mr. Hawley or somebody else?

18 A I think the first contact may have been
19 from somebody else.

20 Q Okay. And do you recall who that was?

21 A Olivia, I believe, is her first name.

22 Q And do you recall --

23 A I should -- I should remember her last
24 name. But I'm sorry. I -- I'm blanking on the last
25 name. Sedgwick. Sedgwick? Something like that. I

1 think Olivia Sedgwick.

2 Q Do you recall approximately when Ms.
3 Sedgwick reached out to you?

4 A The fall of 2021, I think.

5 Q Do you know if it was before or after
6 the General Assembly had completed drawing its
7 redistricting plans for the State House and State
8 Senate?

9 A I believe it was before.

10 Q And do you recall when you were
11 officially retained to serve as an expert in this
12 case?

13 A I think also in the fall of 2021.

14 Q Was it shortly after Ms. Sedgwick
15 reached out to you?

16 A I'm -- so I'm not -- I'm not sure. I --
17 I think -- I don't know if this is -- I had had
18 conversations with Ms. Sedgwick about other cases,
19 and so I think the time between our talking about
20 this case and my having been retained may be --

21 When you say -- your question was
22 relatively short time?

23 Q Yes.

24 A Yeah. Less than a month.

25 Q If you were just to put into your own

1 enacted plans.

2 A Yes.

3 Q Now, the -- just also to kind of cabin
4 where we are, as I count you've drawn two
5 illustrative State House plans and two illustrative
6 State Senate plans. One House and Senate plan each
7 were included with your PI report, and then one each
8 of the illustrative plans for House and Senate were
9 included with your December 5th report, is that
10 right?

11 A Yes.

12 Q In terms of the maps that you've drawn
13 for this case, is it fair to say that your goal for
14 all of the plans you draw was to increase the name
15 of majority Black districts over the number drawn by
16 the General Assembly in Georgia?

17 A I would say I would not characterize it
18 that way.

19 Q Okay. What would you characterize as
20 your goal then in drawing the illustrative plans in
21 this case?

22 A I would say it was to ascertain
23 whether additional majority Black districts could be
24 drawn while also keeping -- complying with the
25 traditional redistricting guidelines, principles,

1 criterial.

2 Q Were the three additional State Senate
3 districts that are majority Black on the
4 illustrative plan the most additional majority Black
5 districts you drew for Georgia State Senate plans?

6 MR. HAWLEY: Objection to the extent
7 that this implicates protected draft maps and
8 draft reports. Mr. Esselstyn, you can respond
9 to the extent that it doesn't implicate any
10 draft reports or maps you prepared in this
11 litigation.

12 A The answer is no.

13 Q And you have not submitted any plans in
14 this case that draws more than three additional
15 majority Black districts for the State Senate in
16 Georgia, right?

17 A Correct.

18 Q And so the same caveat Mr. Hawley
19 mentioned for State House. Have you drawn any plans
20 for the State House in Georgia that have more than
21 five additional majority Black districts over that
22 enacted by the General Assembly?

23 A No.

24 Q And in this case you have not submitted
25 any plans that draw more majority Black districts on

1 the State House than five, correct?

2 A Correct.

3 Q Prior to your work in this case, had you
4 ever drawn statewide legislative plans for any
5 state?

6 A Probably not.

7 Q You don't recall today?

8 A Not that I recall. No, I don't think
9 so.

10 Q So just a few more things before we get
11 into some maps, which I know is the main reason why
12 we're here today. I just wanted to get some
13 additional terminology down. You've used the term
14 majority Black district in your work in
15 redistricting, right?

16 A (Nodding.)

17 Q Is that a yes?

18 A I'm sorry. Yes. Yes.

19 Q And what is the definition that you use
20 of a majority Black district?

21 A I'm going to reference my report because
22 I believe it's spelled out in either the text of the
23 body of the report or in footnotes. There are kind
24 of two pieces of it, and one is -- I'm looking at
25 Page 8.

1 to for majority black. So majority Black on total
2 population, majority Black on voting age population,
3 majority black on non-Hispanic black population or
4 any part black population. Do you recall that?

5 A Yes.

6 Q But in all of those cases the black
7 population being referenced, whichever particular
8 field it is, is over 50 percent, right?

9 A If I were referring to a majority black
10 instance.

11 Q What about the term -- I'm sorry.

12 A I -- I would say yes in -- if there were
13 a majority black instance, I agree.

14 Q And so next I want to ask you about the
15 term majority minority district. Is that a term
16 that you use in your redistricting work?

17 A I imagine that I have. I -- I, you
18 know, earlier today it was in one of the blog posts
19 that we looked at.

20 Q So is my majority minority district the
21 same definition in your mind as a majority black
22 district?

23 A No.

24 Q And what is the -- what is a majority
25 minority district in your usage then?

1 A Typically I would say it is taking count
2 of the population that does not identify as single
3 race, non-Hispanic white and classifying those
4 persons as minority.

5 And so a majority minority district
6 or administrative region, census region,
7 whatever collection of people that I might be
8 characterizing as majority minority would be over 50
9 percent coming from that group I described earlier.

10 Q So it would be fair to say that a
11 majority minority district in your reference would
12 be a district where the single race non-Hispanic
13 white number is 50 percent, is that right?

14 A Yes. And now that we've talked about
15 this a little more, I know there -- because of the
16 different ways that the Census Bureau classifies
17 folks and the way that some software works or just
18 the way that some clients, some audiences think more
19 about race than ethnicity, and historically
20 ethnicity wasn't consider as much of this picture,
21 there are some times when is it just considering
22 race and not ethnicity.

23 So that would be a slightly
24 different take on a similar situation.

25 Q And I understand what you mean by that,

1 drawing a plan, right?

2 A I would say at some level, yes.

3 Q When you're drawing redistricting plans
4 for jurisdictions like the 16 North Carolina
5 earlier, do you use the features of the software
6 that you referenced to display racial information
7 while you're drawing those maps.

8 A I'm literally thinking back to my
9 process. Not certainly. Not always. I can think
10 of some where I did not or at least -- yeah, at
11 least one where I didn't. The -- and there's sort
12 of a distinction that -- in the software I was
13 using.

14 The columns you specify at the beginning
15 of the process are going to be the columns that get
16 exported when you provide a table -- a summary table
17 of the demographics.

18 So -- but I -- I am quite certain that
19 there are multiple cases where I was not looking at
20 race when I was drawing the redistricting plans.

21 Q And when you were drawing the
22 illustrative plans in this case, at any point did
23 you display racial information of the underlying
24 geography on your screen?

25 A Yes.

1 Q And what kind of racial information
2 would you display while you were drawing the
3 illustrative plans?

4 A For the underlying geography, I would --
5 it would be the black percentage of the population
6 meaning the -- any part black voting age percent.

7 Q And did you use a theme or a shading of
8 precincts or counties to look at that any part black
9 population while you were drawing?

10 A I think so. I think that I -- I think
11 that I may have. I'm not a hundred percent sure,
12 but I think that I may have, yes.

13 Q And did you utilize that display of
14 racial information about the underlying geography
15 while you were drawing the illustrative plans for
16 House and Senate?

17 A The shading?

18 Q Yes.

19 A I'm not totally sure.

20 Q Did you utilize any of the racial
21 information that you displayed on the screen while
22 you were drawing the illustrative plans to inform
23 the decisions you made about which parts of
24 districts went in and out of a particular districts?

25 A Yes.

1 Q Did you turn on racial shading or
2 features to determine where black voters were
3 located as part of your initial process of deciding
4 where to begin?

5 A I don't recall. Maybe.

6 Q I'm assuming you focused on areas where
7 were higher concentrations of black voters in terms
8 of looking for where new districts could be drawn,
9 right?

10 A Yes.

11 Q So at the end of Paragraph 13 you have
12 this phrase, in accordance with traditional
13 redistricting principles. What does that phrase
14 mean in the context of Paragraph 13?

15 A That phrase is mostly referencing the
16 other guidelines that were adopted by the two
17 chambers in the General Assembly. And I would say
18 that the guidelines that the chambers adopted are
19 fairly typical of the types of guidelines that are
20 used traditionally in other jurisdictions.

21 Q So when you're using the phrase
22 traditional redistricting principles there, you're
23 referring to the principles outlined in the Georgia
24 General Assembly's guidelines involving
25 redistricting?

1 example, in Paragraph 15 -- yes. Yes. I think the
2 answer to your question is yes.

3 Q Okay. And in Footnote 4 of the last
4 part of that you say that you -- it is your
5 understanding that the alone or in combination
6 designation is the appropriate measure for most
7 Voting Rights Act Section 2 consideration. Do you
8 see that?

9 A Yes.

10 Q What is the basis for that understanding
11 that you have?

12 A Conversations with attorneys over the
13 years and probably sessions at conferences and
14 things like that and stuff I read just -- things
15 I've learned, as I said, either from conversations,
16 presentations, reading. I can't point to
17 one specific source.

18 Q Great. And in Paragraph 17 you note
19 that the any part black voting age population in
20 Georgia went up by 2 percentage points from 2010 to
21 2020, right?

22 A Could you repeat the question, please?

23 Q Yes. In Paragraph 17 --

24 A Yep.

25 Q -- you note that the black voting age

1 population in Georgia increased by 2 points between
2 2010 and 2020, right?

3 A The percentage, yes. The proportion of
4 the population, yes.

5 Q So moving to the next section. You talk
6 about the geographic distribution of the black
7 population in Georgia. And the way I -- the way I
8 read this, and I want to make sure I have this right
9 is, it sounds like you're saying that are generally
10 two primary location for black individuals in
11 Georgia. One is metro Atlanta and the other is the,
12 as you call it, the so-called Black Belt, right?

13 A Correct.

14 Q So why do you have so-called in front of
15 Black Belt in Paragraph 19?

16 A That's a good question. I'm
17 just re-reading the sentence with those two words or
18 that hyphenated expression removed.

19 I guess I just used that modifier to
20 indicate that this is a term that people use. It
21 may not be familiar to every reader of the document
22 and sort of to say that this is a -- I think it has
23 been given a name that is sort of fairly common in
24 people talking about geography or demography of the
25 state.

1 A And, yeah, if you can just be able to
2 refer back to that wording as we -- as we go to
3 another exhibit because, again, I just wanted to
4 make sure I understand the just kind of mathematical
5 relationship you're describing.

6 Q Certainly. We're going to look at a
7 chart.

8 A Okay.

9 Q I just introduced Exhibit Number 9,
10 which is Mr. Morgan's report in this case.

11 A Yep.

12 Q And I'd like for us to go to Page number
13 17. Let me know when you're there.

14 A 17, yes.

15 Q And I believe you said you reviewed Mr.
16 Morgan's report as part of your preparation for this
17 deposition.

18 A Yes.

19 Q So on page 17 there's a chart for --
20 that has each of the five-county split with a
21 portion in District 23 and outside of District 23.
22 Do you see that?

23 A Yes.

24 Q And in each case the portion of the
25 county in District Senate 23 has a higher AP Black

1 VAP percentage in the portion outside of Senate
2 District 23 on the illustrative plan, right?

3 A Yes.

4 Q And were you aware that -- I think you
5 said you weren't -- that every county split you made
6 in Senate District 23 had this type of racial
7 differentiation on the population?

8 A Okay. I misunderstood your question. I
9 thought you were talking about the -- you said
10 something about the highest concentration, and I
11 thought you were saying that I had somehow selected
12 the highest concentration possible in isolating one
13 section of a county from the other section.

14 You used that superlative term highest,
15 and I thought you were saying that I had taken --
16 like if I was taking precincts, that there's no
17 other combination of precincts that I could have
18 taken that would have been higher than what I took.

19 So that's what I understood. And that's
20 why I wanted to maybe refer back to the way you had
21 asked the question.

22 So, yes, I have looked at this chart.
23 There is something that I don't agree with in terms
24 of Mr. Morgan's characterization here. In the
25 preceding paragraph he says that I took the lion's

1 illustrative plan, is that right?

2 A The discussion of the communities in
3 Columbia County that were largely inhabited by
4 people with a connection to Fort Gordon is something
5 I partially learned from the public comment from
6 the -- I believe it was actually in Columbia County.
7 That hearing was held in Columbia County, I think.
8 If not, it was northern Richmond County.

9 That's more to do, I guess you could
10 say, with the configuration of District 22 than 23.
11 So I did learn about some of the concerns in that
12 area, but I did not -- I don't remember hearing a
13 comment that specifically would have, you know, been
14 consistent with the choice I made in drawing Senate
15 District 23.

16 And you -- the other one you said was
17 17?

18 Q Yes.

19 A Yeah. I don't remember one related to
20 17 as well. I'm just looking at it on Figure 5 now
21 to see if jobs my memory.

22 I'm sorry. That was a no, I don't.

23 Q And again, you didn't watch videos of
24 public comment or read transcripts of it -- of those
25 comments until you had drawn the illustrative plan,

1 is that right?

2 A So -- after I'd drawn the first
3 illustrative plan. So the area in Bibb County did
4 not change from the PI plan to the December '22
5 plan. Baldwin County did change a little bit. So
6 my review of the comments and such was in late 2022.

7 Q Thank you. We've been going about an
8 hour and half and I'm going to move to District 25.
9 Do you want to take a break at this point, Mr.
10 Esselstyn?

11 A Sure. Sounds good.

12 MR. TYSON: We can go off the record.

13 (Recess.)

14 Q (By Mr. Tyson) All right, Mr. Esselstyn.
15 I want to turn next to Senate District 25, which is
16 on Figure 6, Page 13 of your report. Do you see
17 that?

18 A Yes.

19 Q And looking at Senate District 25 as
20 drawn on the illustrative plan, it includes portions
21 of Clayton County and portions of Henry County,
22 right?

23 A That's correct.

24 Q So in terms of the decision to connect
25 this part of Clayton with Henry County, can you tell

1 me what factors went into putting those two counties
2 together in District 25?

3 A I'm trying to recall. Again, this is
4 one that I did not -- I altered part of Fayette
5 County for the December 2022 plan but did not change
6 the orientation or the alignment of District 25.

7 Let me look back at what it looked like
8 under the enacted plan.

9 Yeah, I don't recall specific reasons
10 other than the kind of trial and error, as I
11 mentioned, that a lot of this is kind of iterative
12 in. I would have maybe looked at different
13 possibilities, and this one seemed to be the best
14 combination.

15 Q Okay. And creating District 25 where
16 you have -- I know we talked earlier about District
17 10 that runs down that eastern side of Henry County
18 to Butts County.

19 A Yes.

20 Q Do you see that? Are you aware of the
21 racial makeup of the components of Districts 10, the
22 different counties that you included in District 10?

23 A I'm sorry. Could you ask the -- repeat
24 the question? And I aware --

25 Q Sure.

1 what the plan components report is for Maptitude?

2 A Yes. So this goes district by district,
3 and for each district it provides the portions of,
4 in this case, counties that comprise that district
5 and some statistics related to that.

6 Q So if we go down to Page 24. That's the
7 beginning at the bottom of the page there, District
8 10 onto Page 25. Do you see that?

9 A Yes.

10 Q And looking at the voting age -- the
11 black voting age population percentage of the
12 portion of each county included in Districts 10,
13 you'd agree that on Black voting age population only
14 DeKalb County is a majority black voting population
15 for the portion in Districts 10, right?

16 A I'm just -- so this column says AP black
17 which I presume means any part black. And it's not
18 clear whether it is the --

19 Oh, I see. You've got -- and then -- my
20 bad. The voting age population is indicated there.
21 So I need to look at that part.

22 Yes. So Rockdale -- the total
23 population is majority any part black but not a
24 voting age population.

25 Q And so you'd agree that the only county

1 portion on this report with a majority black voting
2 age population is DeKalb County in District 10,
3 right?

4 A Yes.

5 Q And from our conversation earlier,
6 you're not able to identify any communities of
7 interest between south DeKalb County and Butts
8 County in Districts 10, right?

9 A Correct.

10 Q Let's move on your report over to
11 District 28. And that's on Page 14 of your report.
12 And this is an additional district in southwestern
13 metro Atlanta that you included as a new majority
14 black district, correct?

15 A I'm just getting there. Yes. Correct.

16 Q And this district connects parts of
17 Clayton County with north Fayette, south Fulton and
18 Coweta County down into Newnan, right?

19 A Yes.

20 Q Would you consider Coweta County to be a
21 more rural or a more urban county?

22 A More -- it's more rural than the other
23 three counties that you mentioned.

24 Q And Clayton County is a fairly urban
25 county, isn't it?

1 A I believe so.

2 Q So can you tell me about anything the
3 geography encompassed on this Senate District 28 has
4 in common besides the racial makeup of the people in
5 it?

6 A So again, when I'm looking at
7 communities of interest and the communities of
8 interest principle, I'm not trying to make sure that
9 every piece of a district has some unifying factor.
10 So I will say I remember, for example, that the
11 shape of the part that goes down into Coweta is
12 trying to keep most of -- it's either Newton or
13 Newman.

14 Q Newnan, yes.

15 A Newnan. Thank you.

16 -- keep most of that in one district.
17 So that was an example. That's kind of the -- in
18 thinking about communities of interest trying not
19 to, you know, cut that community in half. So that
20 was a consideration.

21 But as far as trying to ensure that
22 every -- every corner has something in common with
23 every other corner, that was not part of my
24 calculus.

25 Q And you'd agree that Newnan was whole on

1 the enacted Senate plan in 28 as well, right,
2 because Coweta was whole as a county?

3 A I think that's right. Just let me
4 quickly check Figure 3.

5 Yes. But I think that Douglas County
6 was divided. I may be getting this confused with
7 the House plan. But I believe that Douglas County
8 was divided in the enacted plan but is made whole in
9 the illustrative plan.

10 Q Which one? Douglas County?

11 A I think so.

12 Q Okay. And in the illustrative plan,
13 District 35 you know makes Douglas whole but it also
14 connects portions of Fulton County with parts of
15 south Paulding County, right?

16 A Right.

17 Q Do you know the racial makeup of that
18 part of south Paulding County?

19 A No. I mean do I know? I don't know it
20 off the top of my head. There are -- probably one
21 of the exhibits we could look at would give me a
22 clue but -- or a better informed answer.

23 Q Okay. Were you aware of any connections
24 between Paulding County and Fulton County when you
25 configured illustrative District 35 this way?

1 A I believe that some of the definitions
2 of metro Atlanta include Paulding County. And so in
3 that sense they would be considered generally part
4 of metro Atlanta. I think there was one of the
5 witnesses at the PI stage kind of testified about
6 how, you know, parts of southwest metro Atlanta or
7 western metro Atlanta would have shared concerns, be
8 they about traffic or development or that kind of
9 thing.

10 That is reasonable to think of that as
11 being a community -- the metro Atlanta community
12 and, you know, some slice of the metro Atlanta
13 community.

14 Q Let's move to the comparative
15 characteristics for the Senate plan. I know we've
16 talked about some of this already. What I want to
17 do is go through a little bit more detail on some of
18 these specifically. So first on the population
19 equality number.

20 A Yes.

21 Q You would agree with me that the
22 deviation range on the illustrative plan -- or
23 rather I should say the total deviation on the
24 illustrative plan is almost double the deviation
25 range used on the enacted Senate plan, right?

1 A I would want to look at the numbers. I
2 don't --

3 Q Okay.

4 A Go ahead.

5 Q I believe if we go back to your
6 appendices you have the deviation ranges broken out,
7 is that right?

8 A Yep. If you get to the page number
9 before I do, that might speed up.

10 Q All I have is Attachment H. I'm using
11 paper, so I don't have the pdf pages numbers.

12 A Oh, okay. G. Here we go. H.

13 Q And so the enacted plan total deviation
14 is 2.01 from minus 1.03 to plus 0.98 and the
15 illustrative plan deviation, total deviation is 3.57
16 from minus 1.67 to a plus 1.9. Is that right?

17 A Yes.

18 Q And you didn't report that increase in
19 total deviation in your written report, did you?

20 A I did not. Getting back to your earlier
21 question, almost double. I mean, it's -- it's less
22 than 1.8 times. So almost double? I'm not sure I
23 agree with that.

24 Q Okay.

25 A That's a fuzzy description.

1 Q But you would agree it's 1.56 points
2 higher on total deviation, right?

3 A Yes.

4 Q And even though it's a higher total
5 deviation on the illustrative plan versus the
6 enacted plan, you determined that it still complied
7 with the traditional principles of population
8 equality, it being the illustrative plan?

9 A Yes.

10 Q In Paragraph 36, to go back to where
11 were on Page 15 --

12 A Just for the record, that was Page 77,
13 if we're going back to look at something like that.

14 Q Okay.

15 A You said now Page 15?

16 Q Right. It's the downside of one of us
17 using paper and one uses electronic, I suppose.

18 A Okay. I'm on page 15.

19 Q Okay. So this is the discussion of
20 compactness and the reporting of compactness
21 metrics, correct?

22 A Yes.

23 Q And you report the average compactness
24 scores for the enacted and the illustrative plans,
25 but this includes -- the average score includes all

1 56 districts, not just the ones that were changed,
2 right?

3 A Right.

4 Q And you didn't run a compactness score
5 report only for the districts that were changed to
6 compare those with the enacted plan; correct?

7 A Correct.

8 Q Do you know if the districts that you
9 changed on the illustrative plan from the enacted
10 plan are more or less compact as a whole than the
11 enacted plan?

12 A So compactness depends on which metric
13 you just. You know, some -- some districts can be
14 more compact based on one metric and less compact on
15 another. So, again, repeating the question was
16 whether I know whether the districts I changed were
17 on the whole more compact or less compact?

18 Q Yes.

19 A I don't -- I don't know. I can guess,
20 but I don't think I can say with certainty.

21 Q So let's look at Figure 8. Can you just
22 explain to me what Figure 8 shows?

23 A Yes. So Figure 8 is a series of sorted
24 bar charts basically, and for the four measures,
25 compactness measures, that can be applied to

1 individual districts, the four that I reference in
2 the previous page, Reock, Schwartzberg,
3 Polsby-Popper and Area/Convex Hull, what it does is
4 take the compactness scores for the enacted plan and
5 put them in order from most compact to least
6 compact, left to right.

7 And then specifically for the districts
8 that are additional majority black districts in the
9 illustrative plan, it places those basically within
10 this sorted order so that you can see how the
11 compactness -- the various compactness stores for
12 those three districts kind of compares to the
13 distribution of compactness scores for the entirety
14 of the enacted plan.

15 Q So the only illustrative plan districts
16 that are included on Figure 8 are the colored lines,
17 the white or the grayish lines are enacted plan
18 districts, is that right?

19 A That's write.

20 Q So you didn't score, for example, Senate
21 Districts 20 or Senate District 17 on the
22 illustrative plan as part of Figure 8, right?

23 A Right.

24 Q Let's like next at Paragraph 39, county
25 splits. And you'd agree that the illustrative plan

1 splits more counties than the enacted plan; correct?

2 A Correct.

3 Q And it splits more precincts than the
4 enacted plan, right?

5 A Correct. Yes.

6 Q And so how did you determine the
7 illustrative plan complies with the legislative
8 principle about boundaries of counties and precincts
9 it splits more counties and VTDs than the enacted
10 plan?

11 A So the -- so the language of the
12 guideline adopted in this case by the Senate is not
13 explicit. It just says that the boundaries of
14 counties and precincts should be considered. And I
15 mentioned that in the first sentence of Paragraph
16 39. The following sentence says that typically
17 that's taken to mean that counties should be kept
18 intact to the extent possible.

19 Another consideration that I have seen
20 and sometimes one of the -- one of the reports that
21 you can generate in Maptitude shows not only the
22 county divisions but the number of people in each
23 portion of the county in a split county.

24 So one thing -- and this came up, I
25 think, during our conversation in the PI phase was

1 offering any opinions about whether these particular
2 districts will elect candidates of choice in the
3 black community. You're just drawing the districts
4 as majority black districts; right?

5 A Correct.

6 Q And looking at District 77 and District
7 86 on Table 5, those districts are 76.13 percent and
8 75.05 percent black VAP respectively. Do you
9 consider those districts to be packed districts with
10 Black voters?

11 A Again, you know, I probably spend a
12 couple of minutes answering the question when you
13 asked a similar question about one of the Senate
14 districts in the metro Atlanta area.

15 And again, I'll say that in my -- the
16 way that I would typically define packed has to do
17 with trying to disadvantage a group or focusing on
18 one aspect of the demographics or the political
19 makeup while ignoring other considerations.

20 That was not my -- how I was operating.
21 So I hesitate to characterize these as packed. If
22 someone wanted to say that they were accidentally
23 configured so as to have high concentrations of the
24 black voting age population, yeah. They're just --
25 packed is a loaded term.

1 Q And not to keep beating a dead horse on
2 this one, but when you say packed is a loaded term,
3 what do you mean, loaded term? I'm not sure I've
4 heard you use that up to this point.

5 A It's often used in conjunction with maps
6 that have been found to be gerrymandering, racial
7 gerrymandering or partisan gerrymandering.

8 So I hesitate to characterize districts
9 in a plan that I drew as packed because, as I said,
10 that often has associations with plans that were
11 drawn to disadvantage a group or to focus
12 exclusively or primarily on, you know, one -- one
13 factor at the expense of others.

14 Q So looking back at Figure 13, the
15 locations of the new majority black districts you've
16 drawn --

17 A Yeah.

18 Q -- you didn't draw any new majority
19 black districts in southwest Georgia, right?

20 A That's right.

21 Q And you didn't draw any new majority
22 black districts for the House plan over in east
23 Georgia toward Augusta, right?

24 A That's right.

25 Q So in terms of where these districts are

1 A Yeah.

2 Q And in the House plan here Douglas
3 County is divided to allow District 64 to connect
4 these pieces of Fulton and south Paulding, right?

5 A Yeah. I mean, if we were to look back
6 at how it was -- it's hard to see in Figure 12. But
7 I might say that there is a portion of Douglas
8 County included in the district which serves as a
9 connection between Fulton and Paulding Counties, the
10 portions in Fulton and Paulding Counties.

11 And this is an example of -- the smaller
12 population size of these districts means that I
13 don't think I could have kept Douglas County whole
14 because, as I recall, its population is around
15 145,000 people and these districts are 60,000, so --

16 Q And aside from being in the Atlanta
17 metro area, as you identified, for connecting parts
18 of Fulton and Paulding in the Senate plan, is there
19 anything else you can identify -- a community that's
20 kept whole in Senate District -- I mean, House
21 District 64?

22 A Not that I can recall. There -- not
23 that I can recall.

24 Q So let's move over to south Metro,
25 Paragraph 50. And here we have two districts.

1 First District 74 that connects portions of Clayton
2 with portions of Fayette, is that right?

3 A Yes.

4 Q Do you know if the portion of Fayette in
5 that district is majority black?

6 A I don't.

7 Q Would it surprise you if it was 16.01 AP
8 black VAP in Fayette County in District 74?

9 A That's lower than I would expect. But I
10 -- I don't know that it wouldn't surprise me.

11 Q Do you consider the south part of
12 Fayette County to be a rural area?

13 A I don't have an opinion on that.

14 Q Okay. And so can you identify any
15 communities that are kept whole in House District
16 74?

17 A None that I can recall there. I think
18 -- is this the one where we talked about Irondale?
19 I -- I believe there were -- in the area in Clayton
20 County, I believe it was a census-designated place,
21 maybe not an incorporated one, but I have a, again,
22 somewhat hazy recollection that there is a community
23 that this was drawn to keep mostly intact.

24 Q Okay. Do you recall if that
25 census-designated place was in Clayton or Fayette

1 County?

2 A Not with certainty.

3 Q Are you aware of any other reason to
4 connect Clayton and Fayette Counties the way
5 District 74 does on the illustrative plan?

6 A I'm just seeing if looking at the
7 enacted arrangement will jog my memory. Yeah, it's
8 been -- it's been a while since I -- this is not one
9 of the areas that I changed for the December 2022
10 plan, so it's far enough back that I don't have a
11 recollection.

12 Q Okay. And moving over, you also changed
13 House District 78 on the way to 116 and 117, right?

14 A Are you just saying on the way to 116
15 and 117 as a -- just sort of a geographic --

16 Q I'm sorry. I'm moving from west to
17 east. So the next district to the east is District
18 78, is that right?

19 A Yes, and 78 changed. I just wasn't sure
20 if you were saying that I changed it on the way, if
21 it -- if "on the way" was modifying my action of
22 changing it.

23 Okay. I'm -- yes, I'm pretty certain
24 that 78 was changed as well.

25 Q Okay. And do you have an opinion about

1 whether the part of 78 that's in Spalding County is
2 a rural of Georgia?

3 A I would have to look to say with any
4 kind of confidence. I -- and there's no one
5 definition of rural, but -- so I'm -- I don't have
6 an opinion.

7 Q And it appears from the boundaries here
8 that the city of Griffin is not in District 78. Do
9 you recall whether you included the city of Griffin
10 in that district or not?

11 A I don't recall.

12 Q And District 117 -- or actually, I'm
13 sorry. Let's do District 116, the next district to
14 the east. And it crosses over the interstate. Do
15 you recall the conversation we had at the PI hearing
16 about 116 crossing the interstate?

17 A I do, yes. Not super clearly, but I do
18 remember that was a topic of conversation.

19 Q And District 116 includes a small
20 portion of Clayton County in that district, right?

21 A Yes.

22 Q And then one more district to the west,
23 District 117, the new district and you've identified
24 as whole in Henry County, right?

25 A That's right.

1 Q And you don't know because you didn't
2 look at political data if Districts 117 and 74
3 currently have Republican incumbents?

4 A I did not.

5 Q Is there any community you can identify
6 in District 117 that is being kept whole in its
7 configuration on the illustrative plan?

8 A Not with the information I have in front
9 of me or based on memory, but there may be some. I
10 just -- I don't have -- as I said, not based on what
11 I have in my mind or in front of me.

12 Q Who would you need to have to determine
13 that?

14 A Maps of things like incorporated areas
15 or census-designated places, other campus-type
16 things, whether they are educational institutions
17 or military facilities, that sort of thing, other
18 parks, those -- those kinds of communities of
19 interest that have clearly defined boundaries as
20 opposed to the kind that --

21 Well, that would be a layer, if they
22 were also a layer of kind of community -- defined
23 communities, that would be another thing I could
24 look at and specify.

25 Perhaps minority groups, if -- sometimes

1 there might be a smaller pocket of one of the less
2 populous minority groups, for example, major
3 employers. There are a lot of things that people
4 consider communities of interest.

5 Q But you didn't list any communities that
6 you considered to keep whole in District 117 in your
7 report, right?

8 A That's correct.

9 Q Let move down to Macon and take a look
10 at this area.

11 A Okay.

12 Q So in Paragraph 51 you reference a
13 comment from Ms. Wright, the director of the General
14 Assembly's reapportionment office -- excuse me --
15 about this area being a community of interest. Do
16 you see that?

17 A Yes.

18 Q And specifically were you referring to
19 the connection between Macon-Bibb and counties
20 surrounding it or Macon-Bibb and Twiggs and
21 Wilkinson particularly?

22 A The -- Twiggs and Wilkinson Counties are
23 what she identified as a -- constituting a single
24 community of interest.

25 Q And that was in reference to the way

1 Q And was this also a public comment that
2 you located after you drawn Districts 145 and 149 in
3 at least the PI plan in 2021?

4 A Yes.

5 Q You say in the language --

6 A Again, I'm sorry -- yes, that particular
7 comment was identified after -- afterwards, yes.

8 Q In Paragraph 51 you also state the
9 orientation of Districts 142 and 143 ensures that
10 the northern portions of Macon-Bibb County stay in a
11 Macon-Bibb County district with portions of Macon
12 rather than being put in a district with a more
13 rural neighboring county like McGriff, right?

14 A Yes.

15 Q And District 149, as you've configured
16 it, puts portions of south Macon into a district
17 within more rural neighboring counties like Twiggs
18 and Wilkinson, right?

19 A Yes.

20 Q What was the basis for choosing to push
21 south Macon districts into more rural neighboring
22 counties while -- and not placing northern Macon
23 districts into more rural neighboring counties?

24 A Can you say the final part of your
25 question again? What was the decision? What was

1 the --

2 Q What was the reason for why you followed
3 this public comment that you've cited for Districts
4 142 and 143 but not for District 149?

5 A So the public, as I recall, was
6 specifically about northern Macon-Bibb County and
7 specifically mentioned, I believe, Monroe County.
8 So that -- in that sense, this person was
9 specifically talking about that portion of
10 Macon-Bibb County.

11 And then -- so you could say that it
12 didn't really apply to south Macon-Bibb County.
13 That's -- that's not what the commenter was talking
14 about.

15 And then as far as the reason, I think I
16 gave a similar answer before and it's -- I don't
17 feel comfortable specifying a reason for any
18 decision. There are a multitude of reasons, and
19 it's a part of this multi-layered puzzle with lots
20 of considerations and so on.

21 Q And just so I understand, I mean,
22 these -- you'd agree all these districts centered on
23 Macon are all very close to 50 percent majority
24 black, right?

25 A They're all close to 50 percent, yes.

1 adjust the split in Baldwin County, is that right?

2 A I apologize. But if you could repeat
3 the question.

4 Q Sure. Looking at Figure 13 of your PI
5 report, which had District 149 --

6 A Yeah.

7 Q -- and comparing that to Figure 16 of
8 your 12/5 report, it appears to pierce me the only
9 change in this area was adjusting the split of
10 Baldwin County in District 149 in the 12/5 plan. I
11 that correct?

12 A There's actually a tiny change or two
13 changes really between Districts 145 and 147. So
14 when you say "in this area," the area shown in
15 Figure 13 does include a small change between 145
16 and 147, which was done to prevent the pairing of
17 incumbents.

18 Q Okay. But you agree that you changed
19 the split of Baldwin County between the PI plan and
20 the 12/5 report in District 149, right?

21 A Yes. Yes. Yes. But it's not the
22 only -- yeah. And just to be clear, there were --
23 when you say "the split," there are three districts
24 that were affected. One in a very tiny way. It was
25 a change of five people, but it actually meant that

1 the -- I think that's District 128 to the northeast
2 of 149 -- was not changed.

3 So -- well, when I say was not changed,
4 it was changed from my PI plan to my December 2022
5 plan in such a way that the district in the December
6 2022 plan is identical to the way it is in the
7 enacted plan.

8 I probably could have described that
9 more succinctly. But -- and that would be very hard
10 to see in Figure 13 or comparing Figure 13 in the
11 older document versus the Figure 16.

12 Q And you identify the connection between
13 Milledgeville and Macon as -- or, actually, I'm
14 sorry. You identify District 149 as generally
15 following the orientation of the Georgia fall line
16 geological feature, is that right? In paragraph 52.

17 A So I'm going back. That sounds right.
18 I just want to see it before agreeing.

19 Yes.

20 Q You'd agree that Augusta is also part of
21 the Georgia fall line, right?

22 A Yes.

23 Q And the Columbus is also on the fall
24 line?

25 A Yes.

1 division, that -- those relationships, if you will.

2 Q Looking at District 145, did you make
3 any changes aside from the change to -- between 145
4 and 147 between the PI plan and the December 5th
5 report?

6 A I did not.

7 Q So let's move to the comparative
8 characteristics of the House plan. And you'd agree
9 that the total deviation of the illustrative House
10 plan is higher than the total deviation on the
11 enacted House plan, is that right?

12 A So the total deviation I would need to
13 look at the -- I'm pretty sure it's the case, but I
14 don't want to reply with certainty.

15 Q Attachment L?

16 A Okay. Thank you.

17 Q I think it's Page 134.

18 A Yes. Okay. Total deviation, yes.

19 Q So you'd agree the illustrative plan
20 total deviation is higher than the enacted plan?

21 A Yes.

22 Q And it's more than a point higher from
23 2.74 to 3.85, right?

24 A That's right.

25 Q And you didn't include that total

1 deviation number in your written report, just in the
2 exhibits, right?

3 A That's right.

4 Q Is the way that you determined that the
5 illustrative plan complied with the traditional
6 principle of population equality for the House the
7 same as the methods you used for making that
8 determination for the Senate illustrative plan?

9 A I think generally, yes.

10 Q In paragraph 57 you talk about
11 compactness. And we, again, have the average scores
12 for four of the five metrics and then a cut edge
13 score. Would you expect average compaction scores
14 to be the same if 155 of the 180 districts on a plan
15 are the same?

16 A No. I mean, it could be. But --

17 Q Okay.

18 A -- that's saying that --

19 Q Okay. So you didn't break out the
20 compactness scores for the 25 districts that you
21 changed. You only reported here in Table 6 the
22 average for all 180 districts for four of those five
23 measures, and then over on Table 7 the scores for
24 just the new majority black districts, right?

25 A That's right. In the text of the

1 report. But the -- the attachments include
2 compactness scores for all the districts in both
3 enacted and illustrative as well as other summary
4 and metrics.

5 Q And was your method of determining that
6 the plan complied with the traditional principle of
7 compactness generally the same process for the House
8 illustrative plan as for the Senate Illustrative
9 plan?

10 A Yes.

11 Q And for Figure 17, like the Senate,
12 these charts -- the only districts on these four
13 charts that are from the illustrative plan are the
14 colored lines. And the gray lines are districts on
15 the enacted plan, right?

16 A That's right.

17 I'm sorry. If you -- if you wouldn't
18 mind repeating that question again. I just tuned
19 out for a moment.

20 Q Sure. In Figure 17, the --

21 A Yes.

22 Q -- in all four charts the only districts
23 from the illustrative plan on those charts are the
24 colored lines. The gray lines refer or are
25 districts on the enacted plan, right?

1 A That's right.

2 Q And in Table 7 when you reported the
3 various compactness scores for the new majority
4 black districts, you didn't show the compactness
5 scores for the enacted plan districts that
6 correspond to those districts, right?

7 A That's right.

8 Q And in Paragraph 59, Table 8, you'd
9 agree that the illustrative plan -- I'm sorry.

10 A Just a second. When you say the
11 districts that correspond, meaning the districts
12 that have the same number?

13 Q Either the districts that have the same
14 number or that are in the same general geographic
15 area. You didn't report either of those compactness
16 scores, right?

17 A Yes. Right.

18 Q In Paragraph 59, Table 8, you'd agree
19 that the illustrative plan splits one more county
20 and one more VTD in the enacted plan, right?

21 A Yes.

22 Q Then in Paragraph 60 we get to
23 communities of interest, and I see again a reference
24 to the two campuses of Georgia College and the
25 central community of Milledgeville. Are there are

1 A No.

2 Q Were you ever instructed to maximize the
3 number of majority black districts in either the
4 State Senate or House map?

5 A I was not.

6 Q And is it your opinion that you
7 illustrative maps that you have submitted along with
8 your December 5th report are complete and finalized
9 enough that they could be adopted and implemented by
10 the State of Georgia in future elections?

11 A Yes.

12 MR. HAWLEY: All right. Thank you, Mr.
13 Esselstyn. That's all I have, Mr. Tyson,
14 unless you have anything.

15 Yes? It looks like a yes.

16 MR. TYSON: Just a few more, Mr.
17 Esselstyn.

18 FURTHER EXAMINATION

19 Q (By Mr. Tyson) Mr. Hawley was asking you
20 about shading information on racial data and various
21 questions on that. Do you recall those questions?

22 A I do.

23 Q And just to confirm, you only had census
24 data, not any political data available to you when
25 you were drawing your illustrative plans, right?

1 A That's correct.

2 Q And did you -- I'm sorry?

3 A When I say available, I mean, I could
4 have downloaded it. It's not like it's unavailable
5 data. I did not use it. I didn't have it installed
6 on my computer. I didn't consider it at all.

7 Q Thank you. Did you ever use Maptitude
8 features or labels that would display racial data
9 about different levels of geography in Georgia when
10 you were working on your illustrative plans?

11 A Yes.

12 Q Mr. Hawley asked you about sacrificing
13 traditional redistricting principles for packing.
14 Do you recall those questions?

15 A Yes.

16 Q What -- what do you mean by packing
17 would involve sacrificing traditional redistricting
18 principles. I'm not sure I followed that
19 conversation.

20 A Okay. And I think I said something
21 about typically or generally. A lot of the famous
22 examples of packed districts or cracked districts --
23 so we talked about North Carolina 12 before. That
24 was not a compact district. It split all kinds of
25 political subdivisions.

EXHIBIT F

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UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA

GEORGIA STATE CONFERENCE OF)	No.
NAACP, et al.,)	1:21-CV-5338-ELB-SCJ-
)	SDG
Plaintiff,)	
)	
vs.)	
)	
STATE OF GEORGIA, et al.,)	
)	
Defendant.)	
_____)	

VIDEOTAPED 30(b)(6) and 30(b)(1) DEPOSITION OF
 LEGISLATIVE AND CONGRESSIONAL REAPPORTIONMENT OFFICE
 (MS. GINA WRIGHT)
 January 26, 2023
 9:17 a.m.
 18 Capitol Square SW
 Atlanta, Georgia

Reported by: Marcella Daughtry, RPR, RMR
 CA CSR 14315
 GA No. 6595-1471-3597-5424

1 point, but I don't recall a specific e-mail with him.

2 Q The same reasons why you didn't really e-mail
3 the Congressional map?

4 A Yes.

5 Q Okay. Do you -- did -- I think you told me
6 that Chairman Kennedy provided you with specific
7 instructions about how the lines of the map should be
8 drawn?

9 A Say that one more time. I'm sorry.

10 Q Sure.

11 Did Chairman Kennedy provide you with specific
12 instructions about how the lines of the State Senate map
13 should be drawn?

14 A No.

15 Q Did you receive any specific instructions about
16 how the lines of the State Senate map should be drawn?

17 A Initially, no.

18 Q How did you make a determination about how to
19 draw the lines for the State Senate map?

20 A That was a -- basically a -- call it a blind
21 map, but it was a map, just a starting point map to
22 address the population changes in the state and make
23 adjustments to the districts as they were, to try and
24 have a starting point, a discussion map to -- to start
25 with.

1 you about Mr. Tyson's role?

2 A I believe so.

3 Q So Mr. Kennedy -- pardon me. Chairman Kennedy
4 sees the blind map, and then what happens? Does he
5 direct you to make changes to it?

6 A That being a starting point map, then yes, we
7 began to work within it to make adjustments for whatever
8 requests people wanted to try and modify the map, however
9 he wanted to try to best accommodate requests and things
10 that were brought to him.

11 Q And you had a lot of conversations with him?

12 A Yes.

13 Q A lot of conversations about modifying the
14 blind map?

15 A We did have conversations about modifying it,
16 yes.

17 Q Were those conversations ever in person?

18 A Yes.

19 Q Were they mostly in person?

20 A Yes.

21 Q When you had those conversations, was the map
22 projected onto a screen?

23 A Not necessarily.

24 Q But sometimes?

25 A Sometimes.

1 Q When you had the conversations when the map was
2 projected onto the screen, was it within Maptitude?

3 A If I'm looking at the map, it would have been
4 in Maptitude.

5 Q Okay. And you know how to use Maptitude?

6 A Yes.

7 Q Was data projected onto the screen?

8 A Sometimes it may have been. Not all the time.

9 Q Why would you look at a map without any data
10 related to it?

11 A You are just reviewing the geography. You
12 wouldn't necessarily be looking at the data. You are
13 looking at the composition of districts, the counties,
14 precincts and things.

15 Q When data was projected onto the screen, what
16 type of data was it?

17 A Typically, our data would include the total
18 population, the deviation, the percent deviation, voting
19 age population. Most of the fields that you see on our
20 population summary reports would be also included on
21 there, as well as political data.

22 Q I recall that there's data related to the race
23 of the population on those summary reports.

24 A Correct.

25 Q Was data related to the race of the populations

1 projected onto the screen?

2 A It could have been sometimes.

3 Q Most of the time?

4 A Most of the time. We usually projected all the
5 race data that we would use on the reports, as well as
6 the political data that they were reviewing. So both
7 together.

8 Q Was that data relevant to you making -- I'll
9 rephrase.

10 Did Chairman Kennedy consider that data when
11 making instructions about how to draw the lines?

12 A I would assume he did. I don't know what
13 Chairman Kennedy considered.

14 Q Was it sort of a collaborative conversation or
15 was it really just Chairman Kennedy giving you
16 instructions and you following them?

17 A Can you explain what you mean by that?

18 Q Yeah. I can imagine that Chairman Kennedy told
19 you you need to move this line in southeast Georgia and
20 then you did it. Or Chairman Kennedy could say, what
21 would happen if I moved -- you moved this line in
22 southeast Georgia? You could say, well, Chairman, this
23 or that.

24 A I'd say it's more like the second scenario.

25 Q Okay. What type of questions did he ask you?

1 Kennedy, Mr. Tyson and Ms. Paradise and other senators?

2 A The changes, I think, came at the request of
3 the senator, and then Chairman Kennedy authorized to try
4 and see if we could do what he had requested.

5 Q At the request of the senator, what senator are
6 you referring to?

7 A Senator Rhett.

8 Q So there was the map that was published first?

9 A Uh-huh.

10 Q And then Senator Rhett requested changes?

11 A Uh-huh.

12 Q And as a consequence of that, you made changes?

13 A Yes.

14 Q And then another map was published?

15 A Yes.

16 Q Were there any other changes requested?

17 A I cannot recall. That one stands out. I
18 remember doing that one. I don't recall if there were
19 others in that draft.

20 Q Why does it stand out?

21 A I have drawn a lot of maps, so...

22 Q Yeah. So why does that one stand out?

23 A Because in committee, I remember there was
24 discussion over the change, that that was in the
25 committee meeting, so that one sticks out. That may have

1 been the only one that went into that final version
2 because other -- other changes might have gone into the
3 other version, the first presented version before we got
4 to that, but there were members, you know, putting
5 changes in.

6 That one just jumps out at me. That may have
7 been the only one that went into that last version.

8 Q Did you speak with anyone else in addition to
9 the people you referred to for any reason about the State
10 Senate map?

11 A I probably spoke with a lot of senators
12 regarding that map.

13 Q Right. Right. Okay.

14 A So I don't want to list all 56 of the
15 members --

16 Q Yeah.

17 A -- that were here then, but I spoke with a lot
18 of members at that point, from the time -- especially
19 when the map was made public, those that requested
20 things.

21 Q Did you speak with anyone in the House about
22 drawing the State Senate map?

23 A I don't think so.

24 Q Did you speak with anyone outside of the
25 General Assembly about drawing the State Senate map?

1 look like?

2 A There was a lot of input everywhere.

3 Q And it was hard to look at all of it?

4 A Yes.

5 Q Right. You weren't able to look at all of it?

6 A I looked at a lot of it but not all of it.

7 Q Yeah. There was a lot you didn't look at?

8 A I don't know that I'd say there was a lot I
9 didn't look at.

10 Q Okay.

11 A But I did watch or attend every public hearing.

12 Q Okay. We have just been talking about the
13 State Senate map, and you described a blind -- I'm going
14 to call it a blind map process. Does that make sense if
15 I said it that way?

16 A Sure.

17 Q Yeah. I should back up. What was your role in
18 drawing the State House map which Governor Kemp signed
19 into law?

20 A It was the same as the House, or as the Senate
21 and Congressional.

22 Q Okay. And did you use the same blind map
23 process to draw the State House map?

24 A Yes.

25 Q Was Brian Knight involved at all in drawing the

1 Q Well, so -- sure. Let me rephrase.

2 You referred to having a working session with
3 Chairman Kennedy, Mr. Tyson, Ms. Paradise about the State
4 Senate map. Am I recalling that?

5 A Right. Well, we would have had several
6 meetings where we discussed the map. There wasn't one
7 session where we had other multiple senators involved at
8 the same time that I recall. So the Senate was a little
9 different in that respect.

10 Q You met with Chairman Rich regarding the State
11 Senate map?

12 A Yes.

13 Q Was it the same type of process that you had
14 with Senator Kennedy, where you had a blind map and then
15 you reviewed it with her?

16 A Yes.

17 Q And then she, as the sponsor of the map, would
18 either direct you to make changes or bring in other
19 members of the House who would make directions for
20 changes?

21 A Yes. It was my understanding both chairmen
22 were meeting with members and had opened up office time
23 and meeting time to take input from the members about the
24 map and their districts. And I don't know how many
25 members each of them met with, but they did have those

1 meetings and that frame of reference. So that when we
2 met together, they could use those meetings and the input
3 they received from members to make adjustments if the --
4 if the draft didn't look -- if they felt like this member
5 had requested this and we weren't -- if we could
6 accommodate things, we would try to accommodate those
7 things.

8 Q But you weren't involved in those meetings?

9 A I was not.

10 Q Was anyone in your office involved in those
11 meetings?

12 A No.

13 Q You just knew they existed?

14 A Right.

15 Q Would Chairman Rich mention them to you?

16 A Yes.

17 Q Sometimes specific meetings?

18 A Maybe.

19 Q Yeah.

20 We've been going about an hour, I think. Would
21 this be a good time to maybe take a 15-minute break?

22 A I'm -- whatever.

23 THE WITNESS: Patrick?

24 MR. JAUGSTETTER: Sure.

25 MR. CANTER: Thank you.

1 received directions from -- sorry, I'll rephrase.

2 You mentioned earlier that with regards to the
3 Senate map, you received directions on how to draw the
4 lines from -- either directly from Chairman Kennedy or
5 through Chairman Kennedy from other senators. Is that
6 basically right?

7 A Yes.

8 Q And it was the same process with the State
9 House map but with Chairman Rich, not Chairman Kennedy?

10 A Yes.

11 Q What was your process for receiving directions
12 on how to change the lines with regards to the
13 Congressional map?

14 A Well, I think we talked about the meeting,
15 jointly meeting with them, so same type of thing. Input
16 from whatever they had, conversations or whatnot. There
17 were also considerations, of course, from things we had
18 heard from public hearings and other things to try and
19 incorporate into those maps, so those decisions were made
20 in coordination with all of that together.

21 Q Did you use a blind map for the Congressional
22 map -- sorry, let me rephrase.

23 A Yeah.

24 Q You mentioned -- that's fair.

25 You had mentioned creating a blind Senate map

1 same thing?

2 A Right. The fewer the splits, the easier it
3 would be for them to assign voters, especially under a
4 compressed time frame.

5 Q Got it. I understand that's especially the
6 case with precinct splits?

7 A Yes.

8 Q As part of your analysis of the maps, what did
9 you do to confirm that they were in compliance with the
10 Voting Rights Act?

11 A So compliance with the Voting Rights Act is a
12 legal opinion, so my work on drawing the map would
13 create -- try and maintain districts that we had
14 previously had that were districts that had been
15 majority-minority population districts. We try not to
16 reduce the number that we had before, and I would try to
17 make sure that what we were drawing, to the best of my
18 ability, continued that, if possible, but then I would
19 also ask them to have those reviewed by counsel for that
20 compliance.

21 Q So would it be fair to say that as a nonlawyer,
22 you tried your best to ensure compliance, but ultimately
23 that wasn't a determination you were making?

24 A True.

25 Q Okay. And the way you tried your best was to

1 Q So is there racial data at the block level?

2 A Yes.

3 Q All right. Is there any other type of demo --
4 data at the block level?

5 A So when we build our precinct layer, we do
6 allocate the election data to the block level, so we have
7 that political data at that level. It's estimating,
8 based on the demographics in there, based on registered
9 voter demographics kind of corresponds the two and
10 allocates down to that level. So we do have estimate
11 political data at the block level when we do this.

12 Q When you are drawing a map and you are looking
13 at the block level --

14 A Uh-huh.

15 Q -- is data reflected on the screen?

16 A Yes.

17 Q And is the estimated election data on the
18 screen with the other data?

19 A Yes.

20 Q You agree that the line we're looking at here
21 splits through the precinct, right?

22 A At the time, Newton County was considering
23 precinct changes. We were working with several -- their
24 elections office, and we had a draft precinct layer that
25 they were considering, so it's possible that I referred

1 Q Yeah. Okay.

2 And then Chairman Rich came and provided
3 direction, either directly to you, or Chairman Rich spoke
4 to other members of the House and they provided direction
5 to you through Chairman Rich?

6 A Yes.

7 Q Am I missing anything about people who provided
8 direction to you about how to draw this House district?

9 A I'm not sure what you mean.

10 Q Are there other people that directed you on how
11 to draw the House plan that I haven't mentioned already?

12 A Counsel was involved in consulting on -- on the
13 drawing of the maps as well.

14 Q Anyone else other than your counsel or those
15 that I've mentioned?

16 A Not that I can recall.

17 Q When you are drawing at the House level, are
18 you more often looking at the block layer?

19 A It would depend on which part of the state you
20 were in. In the more rural parts of the state, as you
21 can see on the map, the districts are larger --

22 Q Sure.

23 A -- and made up of whole counties. So in those
24 cases, it's probably more county and precinct based in
25 terms of what you use.

1 Census data until the time when all three of the final
2 maps were published, so the maps that ultimately were
3 passed by Governor Kemp became public. So this is after
4 you --

5 A Can I ask you to clarify what you mean by a
6 "block equivalency file" to make sure we're on the same
7 page?

8 Q Yeah. So it's a spreadsheet that request --
9 that reflects block data.

10 A Like block with a district assignment?

11 Q Correct.

12 A Okay. Just making sure we're talking about the
13 same thing.

14 So during the process of the draft maps coming
15 out and being made available, yes, I did receive requests
16 for block equivalency files.

17 Q From whom?

18 A I know that Shalamar Parham asked for them.
19 And there -- I don't know if there were other people who
20 did, but those -- I know she communicated directly with
21 me. So I don't know if there were others. There may
22 have been, but I know she did.

23 Q Do you know why?

24 A Do I know why she wanted them?

25 Q Yeah.

1 A I figured she was going to re-create those in
2 her software or their office. She worked for the House
3 Democratic Caucus, so I figured that's what they would be
4 using them for.

5 Q Did anyone else ask for block equivalency
6 files?

7 A I don't recollect anyone else, but that could
8 have gone to other staff as well.

9 Q Other staff you mean in the LCRO?

10 A Yes.

11 Q So Mr. Knight?

12 A It could have -- any requests would come
13 through our office manager, and then she would hand them
14 or give them to staff --

15 Q Okay.

16 A -- to handle.

17 Q So it could have gone to Mr. Knight?

18 A Could have.

19 Q Could have gone to Mr. O'Connor?

20 A Could have. I would think if it was an
21 e-mailed request, it would have been provided already in
22 the documents.

23 Q What do you mean by that? Sorry.

24 A The way the -- all the information that was
25 discovery, all those documents, if there was a request

1 Q And when you answer that, is that just within
2 the redistricting period or is that even after the maps
3 were published?

4 A Even after. I mean, requests don't come to me
5 and then to them, so they -- like I said, they come
6 through our office manager. If someone asks for some
7 information, it could have been fielded out to anyone in
8 our office to provide the answer to that.

9 Q You mentioned that Ms. Shalamar?

10 A Shalamar Parham.

11 Q Yeah, Ms. Shalamar asked for block equivalency
12 data?

13 A Yes.

14 Q Did you give it to her?

15 A Yes.

16 Q Did she have any follow-up questions?

17 A No.

18 Q Can you recall providing block equivalency data
19 to anyone else?

20 A She's the only particular individual I recall
21 providing that or asking for that file.

22 Q So generally, do you recall other people asking
23 for block equivalency data?

24 A What is the distinction in the question?

25 Q Because you said particularly, and so I'm

1 A Well, as I mentioned earlier, the inclusion of
2 an educational video, that was actually my idea. I
3 wanted to provide the people who cared enough to come out
4 to the public hearings the opportunity to learn a little
5 bit about the process, rather than just come up and talk
6 about things without knowing some of the detail or the
7 reasons why we do this. So that video was a new feature
8 to add.

9 I also -- I don't know if related to the
10 hearings, per se, the Zoom platform is new. We didn't
11 have that before. We have two public hearings on Zoom at
12 this time. That was definitely not something we did ten
13 years before. To allow people to not just watch but also
14 participate from -- from that platform.

15 I think all of the public hearings were
16 streamed at this time, and I don't know that they were in
17 2011. They may have been recorded, but I don't know that
18 they were streamed to be able to watch it live as it was
19 taking place. So that was new this time.

20 And the comment portal we had on the website
21 was also a new feature at this time, to allow people to
22 submit comments, and those comments are actually posted
23 so that they were viewable throughout the whole process.
24 I think the comment portal was left up until through the
25 end of the year, even following the adoption of the maps.

1 And it actually might still be there now. I'm not even a
2 hundred percent sure if it's still active, but it might
3 be still active now, not to submit, but to at least
4 review comments.

5 So all of those things were new in 2021 that we
6 did not do or have the ability to do in 2011.

7 Q Do you recall if the special session timeline
8 was similar in 2011 to 2021, the actual time in special
9 session?

10 A 2011, the special session was in the summer.
11 It was August, I believe. It was around maybe two, two
12 and a half weeks. It was a relatively short time period.
13 I mean, it was, like I said, in the summer. So 2021, we
14 were in session. Maybe -- I don't know if it was exact.
15 Maybe a little longer than that or around that time
16 period, but it was in November as opposed to August, so
17 much later in the year.

18 Q Okay. What was generally your role in the
19 redistricting process in 2011?

20 A Similar to what it was this time. I worked on
21 drawing those maps, worked with the legislators to draw
22 the -- the statewide maps for the Senate and
23 Congressional and a large portion of the House map in
24 2011.

25 Q Did you follow a similar process in drawing the

1 A Traditionally, we renumber the House plan
2 following finalizing a map. And it follows a pattern
3 from the top left, moving towards the bottom right,
4 trying to, number one, if I can maintain the same
5 district numbers that were there previously, that does
6 help with a lot of things in the counties for the
7 elections, and also for the members. But I renumber to
8 try and keep delegations in similar numbering patterns
9 and things like that as it moves through. It's not a
10 perfect science, but that is traditionally what we do in
11 the House.

12 Q So is it unusual for House District numbers to
13 change for Georgia voters following a Census and a redraw
14 of the maps?

15 A No, that's not unusual.

16 Q You talked to Mr. Canter a little bit about the
17 political data that you had available and the process of,
18 I guess, disaggregating or imputing that data to blocks.

19 Do you recall that?

20 A Yes.

21 Q And so is it correct then that if you were
22 looking at Census block data, each Census block has
23 political data in it even though it's an estimate, right?

24 A Right. As you move blocks, you would see a
25 change in not just demographic data but also in political

1 data as you move those blocks.

2 Q And when drawing the maps, you talked about
3 different meetings with groups. Let's start with the --
4 the Senate groups that you met with. Was the political
5 data for each district an important consideration for the
6 members when they were drawing the maps?

7 A Yes.

8 Q And for the House maps, was that also -- was
9 political data also an important consideration?

10 A Yes.

11 Q And for the congressional maps in that
12 leadership meeting, was political data an important
13 consideration?

14 A Yes.

15 Q Mr. Canter talked with you about the -- the
16 different factors of redistricting that the committee
17 adopted.

18 Do you recall that?

19 A Yes.

20 Q Can you just describe briefly, as a map drawer,
21 how do you go about trying to balance -- because I'm
22 assuming there is a competing interest between a lot of
23 those different factors. How do you go about approaching
24 balancing those different factors?

25 A It's very difficult, and in certain situations

EXHIBIT G

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UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA

GEORGIA STATE CONFERENCE OF)	No.
NAACP, et al.,)	1:21-CV-5338-ELB-SCJ-
)	SDG
Plaintiff,)	
)	
vs.)	
)	
STATE OF GEORGIA, et al.,)	
)	
Defendant.)	
_____)	

VIDEOTAPED 30(b)(6) and 30(b)(1) DEPOSITION OF
SENATE REDISTRICTING & REAPPORTIONMENT COMMITTEE
(MR. JOHN F. KENNEDY)
January 20, 2023
9:03 a.m.
18 Capitol Square SW
Atlanta, Georgia

Reported by: Marcella Daughtry, RPR, RMR
CA CSR 14315
GA No. 6595-1471-3597-5424

1 data that she had, but I -- I can't tell you the software
2 she was using or, you know, that level of detail of what
3 she -- what she sourced her information from.

4 Q Okay. Was it -- did you tell Gina Wright that
5 it was important that she try to protect incumbents in
6 the first draft of the congressional map?

7 A We certainly may have. I'm just trying to
8 recall. I don't recall the specifics of any conversation
9 about -- about that issue. I don't think anybody got
10 drawn out of their district, so to speak, though, so
11 that's why I'm telling you that, yeah.

12 Q Did you tell Gina Wright that she should
13 consider demographic data when drafting the first
14 congressional map?

15 A What do you mean "demographic data"?

16 Q Let's start with racial demographic data.

17 A Again, your -- your question presupposes. It
18 kind of puts the cart before the horse in the sense of as
19 though I walked in and said, here's what I want you to do
20 and here is the consideration. She was the expert. She
21 knew that. She -- she was steeped in the requirements of
22 what one would have to do to do this correctly, legally,
23 and be compliant going forward.

24 And I would say it was something that was just
25 inherent in her process as she went forward. She knew

1 Q Were the Senate Committee guidelines approved
2 on August 30, 2021?

3 A I don't remember the date, but that sounds
4 about right.

5 Q What role did you have in creating the
6 redistricting guidelines?

7 A If I remember correctly, these are the same
8 principles that were utilized in the last redistricting
9 cycle. So I would have lifted them, if you will, from
10 that and utilized them and placed them with our materials
11 for presentation to the committee for consideration of
12 what the plans, or the principles for drafting plans
13 should be for our current cycle.

14 Q What is your understanding of -- sorry, could
15 you read the principle number 3, please?

16 A "All plans adopted by the Committee will comply
17 with Section 2 of the Voting Rights Act of 1965, as
18 amended."

19 Q And what is your understanding of this
20 principle?

21 A I would have relied upon counsel to advise us
22 as to what, one, we should do to make sure we're in
23 compliance.

24 Q How did you ensure the Senate Committee
25 complied with this principle?

1 passed -- excuse me. I don't have the map that was
2 passed committed to memory, so I can't answer that.

3 Q When did you first see -- let's just assume
4 that this is S.B. 2EX, which was enacted.

5 A Okay.

6 Q When did you first see this proposed map?

7 A I don't remember.

8 Q To your knowledge, who drew this map?

9 A I believe it would be Gina Wright.

10 Q Do you know whether this map took into account
11 submission -- into account public feedback?

12 A I couldn't --

13 Q Do you know whether this map took into account
14 public feedback?

15 A The mapping process included a lot of feedback
16 from the public, including the town hall meetings, the
17 receipt of information, the committee hearings which were
18 public in which the public was invited to. All of that
19 process fed into what was ultimately this map, so I would
20 answer your question that way.

21 Q Did you have any role in drawing any part of
22 this map?

23 A And by way of reminder, this is the one that we
24 passed?

25 Q Correct.

1 (Deposition Exhibit 13 was marked for
2 identification.)

3 THE WITNESS: So tab 11, Exhibit 13?

4 Q BY MR. GENBERG: Yes.

5 A Okay.

6 Q What does this appear to be after you read it?

7 A It appears to be a press release sent out on
8 behalf of or, presumably, at the request of myself as
9 chair of the Senate Redistricting Committee and
10 Representative Bonnie Rich, chair of the House
11 Redistricting Committee, identifying the dates and
12 locations of town hall meetings and that we would have
13 such meetings for the public for the purpose of receiving
14 public input on the redistricting process.

15 And my exhibit behind tab 11 is two pages, but
16 the second page is -- is blank except for just some small
17 print text at the top, so I don't know if I'm supposed to
18 have more on that page or not.

19 Q Do you see that the date, Monday, August 30,
20 2021, is crossed out for the Augusta hearing, and then in
21 parentheses it says, "Rescheduled to an earlier date -
22 August 11th"?

23 A Yes.

24 Q Do you have an understanding why that town hall
25 was changed from August 30th to August 11th?

1 A No, except I do remember one of the -- the
2 hearing dates and the town hall meetings were impacted, I
3 believe by a storm that came through and necessitated the
4 cancellation of one of our town hall meetings, and that
5 may have had -- have impacted, caused in whole or in part
6 this reshuffling that you are seeing on that. I just
7 don't remember enough about the specific dates.

8 That's the only thing that comes to mind as to
9 why some things had to be rescheduled. It could have
10 been other reasons, though.

11 Q Okay. We can take a break.

12 A Okay.

13 THE VIDEOGRAPHER: The time is 4:28 p.m. We
14 are now off the record.

15 (The deposition was at recess from 4:28 p.m. to
16 4:49 p.m.)

17 THE VIDEOGRAPHER: The time is 4:49 p.m., and
18 we are back on the record.

19 Q BY MR. GENBERG: Senator Kennedy, do you have
20 anything else to say that bears on the topics noticed in
21 the Senate Committee subpoena that we have not discussed?

22 A Well, I think I came here to answer your
23 questions, is how I would answer that, and nothing comes
24 to mind. I'm happy to answer questions that you pose. I
25 think that's the only way I can answer that. I'm happy

EXHIBIT H

1 A. I did.

2 Q. And I believe you said earlier, the
3 Democratic members except for a handful of them
4 didn't show up for meetings or try to meet with you.

5 A. Correct.

6 Q. And there was a portal that was made to
7 receive public comments as well?

8 A. Yes, that's correct.

9 Q. And you received, I guess, hundreds of
10 comments at that portal?

11 A. I think at last count it was in the 900s
12 and I thought it went over 1,000.

13 Q. And all those were made available to
14 members to review; right?

15 A. Yes.

16 Q. And you -- you reviewed those comments, as
17 you said?

18 A. Yes, I did.

19 Q. And we had some discussion about the
20 education data the committees hold.

21 Do you recall inviting a variety of
22 different groups interested in redistricting?

23 A. I did.

24 Q. In both political parties?

25 A. Yes, both parties.

1 Q. And the National Conference of State
2 Legislatures?

3 A. That is correct.

4 Q. And the guidelines for the committee were
5 adopted after that educational process; is that
6 right?

7 A. That is correct.

8 Q. In the map drawing process, I know you
9 talked about you primarily did that in the
10 Reapportionment Office with Ms. Wright or with
11 Mr. Knight; right?

12 A. Correct.

13 Q. Was political data generally displayed as
14 you looked at different districts?

15 A. The political data, if you mean the
16 election results, yes.

17 Q. And so it's fair to say you were aware of
18 the partisan impact of district lines and you looked
19 at various drafts?

20 A. Yes.

21 Q. When you held the committee meetings
22 during the special session, did you generally
23 receive public comment at those meetings as well?

24 A. I -- I did not at the very first meeting
25 where Leader Beverly and I both presented our maps

EXHIBIT I

1 were a member of the Georgia House of Representatives
2 during the 2021 special session for redistricting,
3 right?

4 A. That is correct.

5 Q. Was that the first time you were a member
6 of the legislature during a special session for
7 redistricting?

8 A. That is also correct.

9 Q. Okay. And, again, I'm not asking you what
10 was said, but did the Democratic caucus in the House
11 have its own lawyers during the special session?

12 A. That is correct.

13 Q. And do you recall who those lawyers were?

14 A. I can't recall the name of the law firm.

15 Q. And do you know if the democratic caucus in
16 the House during the special session had its own map
17 drawers as well?

18 A. Yes.

19 Q. And did the democratic caucus in the House
20 have its own map drawers?

21 A. Yes.

22 Q. Now, you were not on the redistricting
23 committee during the special session, correct?

24 A. That is correct. I was not on the
25 committee.

EXHIBIT J

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IN THE UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

ANNIE LOIS GRANT, et al.,)

Plaintiffs,)

v.) CIVIL ACTION FILE NO.
) 1:22-CV-00122-SCJ

BRAD RAFFENSPERGER, in his)
official capacity as the)
Georgia Secretary of State,)
et al.,)

Defendants.)

* * *

Remote Videoconference Deposition of
ANNIE LOIS GRANT

December 14, 2022

4:27 p.m.

By Marcia Arberman, CCR B-1059

1 located, giving your deposition today?

2 A Yes.

3 Q Is there anyone else in the room with you
4 right now?

5 A No, no.

6 Q And you mentioned that your address -- I
7 think you said that it's in Union Point. Do I have
8 that correct?

9 A Yes.

10 Q And, ma'am, is that in Greene County?

11 A Yes.

12 Q How long have you lived at that address?

13 A Ooh. 49 years.

14 Q Are you originally from Georgia?

15 MS. LAROSS: We've lost her video.

16 THE WITNESS: Yeah. Sure did. It went
17 out.

18 MS. LAROSS: Oh, boy.

19 THE WITNESS: Yeah, it went out.

20 THE REPORTER: Do you want to go off the
21 record of...

22 MS. LAROSS: Let's just go off the
23 record just for a moment.

24 (Off the record.)

25 (The record was read.)

1 Q And where did you register to vote first in
2 Georgia?

3 A In Fulton County.

4 Q And are you registered to vote at your
5 current address?

6 A I am.

7 Q And do you know what Senate district you
8 lived in before redistricting?

9 A I do want to say since I've been here, I was
10 in (audio broke up).

11 THE REPORTER: I'm sorry. You said,

12 "Since I've been here, I was in" what?

13 THE WITNESS: The question she just
14 asked is -- I really need her to reframe what
15 she's asking me.

16 BY MS. LAROSS:

17 Q Okay, that's fine. Yeah. I'm happy to
18 clarify that for you.

19 I understand that you currently reside in
20 Senate District 24. Does that sound correct?

21 A Yes, yes.

22 Q Okay, great. And also you reside in State
23 House District 124; is that correct?

24 A House District 124.

25 Q Okay, great. And for the Senate district,

1 THE REPORTER: Now I froze. You said,
2 "It's obvious from that."

3 BY MS. LAROSS:

4 Q Okay. Let me start the question again. I
5 will strike that question, and we'll start another
6 one.

7 I would understand then that you voted in
8 the November 2022 election. Would that be correct?

9 A Yes.

10 Q And did you also vote in the recent runoff
11 election?

12 A Yes.

13 Q Have you ever voted in any other state?

14 A No.

15 Q Have you voted in any other county other
16 than Greene County?

17 A Yes. When I first registered, I was in
18 Fulton County. And I'm sure I voted in DeKalb County
19 also.

20 Q Ms. Grant, do you consider yourself a member
21 of the Democrat Party?

22 A I do.

23 Q And since when have you been a member?

24 A Since the first time I registered.

25 Q And have you held any leadership positions

1 in the Democratic Party?

2 A Yes.

3 Q And what are those, ma'am?

4 A First I was voted in as an executive member,
5 and now I'm the chair of our Greene County Democratic
6 Party.

7 Q How long have you been the chair of the
8 Greene County Democratic Party?

9 A I'm thinking 11 years.

10 Q Other than being chair, have you served in
11 any other positions in the Greene County Democratic
12 Party?

13 A I was elected a state committee member.

14 Q Anything else other than what you've told us
15 about in terms of your work with the Greene County
16 Democratic Party?

17 A No.

18 Q Have you worked with the Democratic Party of
19 Georgia?

20 A As a state committee member, yes.

21 Q Okay. And when were you a state committee
22 member?

23 A I'll be going into my third term, I think.
24 I can't remember when I was elected.

25 Q Okay. And that was an elected position, I

1 Was that candidate -- was that candidate
2 white or black?

3 A He was white.

4 Q And it was a male, I think you said?

5 A Yes. The mayor. The seat for the mayor of
6 Atlanta. Fulton County.

7 Q Okay. And did the mayor -- sorry. Let's
8 strike that.

9 The candidate that you voted for for mayor
10 that you just described, did he win the election for
11 mayor?

12 A He did.

13 Q I think you mentioned that you voted for him
14 when you were in college. Do you remember what school
15 you were attending?

16 A At that time I think I was at Demorest
17 Junior College -- Business College.

18 Q Okay. Have you voted for any other
19 Republican candidates since --

20 A No.

21 Q -- you've been voting in Georgia?

22 A No.

23 Q Thank you. And have you worked on any
24 political campaigns?

25 A No, other than local, for local candidates.

1 Not really working. Just -- I don't know what you
2 mean by working because I go door-to-door. I do
3 educational information. So when you say working,
4 most of the time people think you're getting paid, so
5 I don't know what you mean by that.

6 Q Okay, yeah. So I do mean either paid or
7 unpaid, you know, as a volunteer.

8 Let me ask this question, if I may. You
9 mentioned activities that you've done. You've gone
10 door-to-door, and you mentioned a couple other
11 activities. Were those in connection with your -- the
12 positions that you've held with the Democratic Party,
13 or were those activities in connection with a specific
14 candidate's campaign?

15 A It was volunteering for candidates during
16 the election.

17 Q Okay. And what candidates have you
18 volunteered for?

19 A Well, each time that we have a Democratic
20 candidate running -- of course, there are those of us
21 who are Democrats. And I, as one, go out, educate
22 people on who the person is, their platform. And
23 that's what we do. That's what I do.

24 Q And how many candidates would you -- sorry.
25 Go ahead.

1 A Mainly just doing what everybody does:
2 Volunteering to get the word out to people and get
3 them ready to vote or giving them educational
4 information about whatever candidate they want to know
5 about. It doesn't have to be a Democrat. I share
6 (audio broke up) of what's going on.

7 THE REPORTER: My screen froze. I don't
8 know if anybody else's did. Did anybody
9 else's screen freeze?

10 Okay. "I share" -- something -- "of
11 what's going on." That's what I have.

12 MS. LAROSS: "I try to stay abreast of
13 what's going on."

14 THE REPORTER: Okay.

15 MS. LAROSS: I believe that was actually
16 the last sentence that she said.

17 THE REPORTER: Okay. Thank you.

18 BY MS. LAROSS:

19 Q So you mentioned that you've given -- you
20 give folks information about the candidates and that
21 you have given information concerning Republican
22 candidates. How often have you done that?

23 A Ma'am, I have no idea. If anyone asks me, I
24 try to stay abreast of what's going on, where it's
25 with a Democratic candidate or with a Republican

1 candidate because you have people who want to ask and
2 they want to know. If they don't know, they ask. And
3 if I have information or a website they can go to, I
4 give it to them. I don't discriminate when it comes
5 to that.

6 Q Okay. How long have you been doing that,
7 going out and educating folks about candidates?

8 A All I can tell you, I've been doing it a
9 long time. I don't know how many years it's been. I
10 just can't keep up with how many years I've done
11 certain work because I'm constantly educating people
12 of anything that I learn, anything they want to know
13 about that I know about, or where I can tell them to
14 get information. So when it comes to how long, I have
15 no idea. I've been doing it a long time.

16 Q Yeah. It sounds like it's the teacher in
17 you that is doing that.

18 Okay. And so I think you mentioned that
19 that work was for local candidates. Am I correct
20 about that?

21 A What I told you was we also -- you asked me
22 a question about who had I worked for. And I wanted
23 to clarify. I don't work. I volunteer. But we did
24 have three local candidates running in the last
25 election that I also did the same thing for.

1 Q Okay, all right. Have you done that for any
2 statewide races?

3 A Yes. We do it too for them.

4 Q Okay. And which races? Was that governor
5 or U.S. Senate or president?

6 A Whatever election is coming up, I begin to
7 learn as much as I can. I stay on conference calls.
8 I search information, and I just share it. I mean, as
9 the chair of the Democratic Party, that's part of my
10 job.

11 Q Okay. Do you participate in any voter
12 advocacy groups?

13 A Repeat that.

14 Q Do you participate with any voter advocacy
15 groups?

16 A No. I mean, it's depending what you mean by
17 participate. I get information.

18 Q So you get information from them. Is that
19 what you meant?

20 A I get information from all candidates, I
21 mean, whether it's by mail or sometimes by phone
22 calls. Sometimes it's through the media. But I think
23 we all get information.

24 Q Ms. Grant, I'm going to ask you some
25 questions about this lawsuit. When did you first hear

EXHIBIT K

Grant, Annie Lois, et al.v. Raffensperger, Brad, Et Al.

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IN THE UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

ANNIE LOIS GRANT, et al.,)

)

Plaintiffs,)

)

v.) CIVIL ACTION FILE NO.

) 1:22-CV-00122-SCJ

BRAD RAFFENSPERGER, in his)

official capacity as the)

Georgia Secretary of State,)

et al.,)

)

Defendants.)

* * *

Remote Videoconference Deposition of
QUENTIN T. HOWELL

December 14, 2022

1:03 p.m.

By Marcia Arberman, CCR B-1059

1 A Probably about when Obama got elected. So
2 we're looking at '07, '08. I don't know how long it
3 is off the top of my head, though.

4 Q Do you have any other homes or residences of
5 any kind in Baldwin County? That is Baldwin County,
6 correct?

7 A Yes, sir.

8 Q Do you have any --

9 A Yes, sir.

10 Q Okay. And where are they located?

11 A In Baldwin County.

12 Q No, but I mean, what's the address of those?

13 A Now, I don't live there. I just own them.
14 That's what you mean, right?

15 Q Yes, sir.

16 A [REDACTED] and [REDACTED]

17 Q So you own those properties, but you don't
18 live there? You use them for rentals?

19 A (Nods head affirmatively.)

20 Q Yes?

21 A Oh, yeah. I'm sorry. Yes, yes.

22 Q From what you've told me, you were living at
23 215 Stewart in January of this year, correct?

24 A Yes, sir.

25 Q And you were also living there in October of

1 A 100 Black Men of Milledgeville and Oconee.

2 You ready for the next one?

3 Q Yes, sir.

4 A You might need a long piece of paper now.

5 The Baldwin County Democratic Party.

6 Q Keep going.

7 A Georgia Association of Democratic Chairs.

8 Q What was the last word? Chairs?

9 A Yes.

10 Q Keep going.

11 A African-American Caucus of the Georgia

12 Democratic Party.

13 Q Next.

14 A Central Georgia Democratic Coalition.

15 Q What else?

16 A The SCLC is two different counties now. You
17 want both counties?

18 Q Yes, sir.

19 A Washington County and Baldwin County.

20 They're the only ones popping in my head
21 now. If I give it five minutes, I probably can think
22 of something else too, though.

23 Q Well, it's perfectly all right if something
24 pops in your head later. We can go back to it. You
25 can just let me know. That's perfectly fine.

1 is that right?

2 A Yes, sir.

3 Q Do you know when you first became a member
4 of the Democratic Party?

5 A You know, in Georgia, you don't -- it's
6 not -- it's like being a Christian: If you say you're
7 one, you're one. It's not one of them things where
8 you actually join. We don't have those laws in
9 Georgia, you know, with this and that. It's just
10 whatever you say you is, you are.

11 Q Have you ever held any leadership positions
12 within the Democratic Party in Georgia?

13 A Yes, sir.

14 Q What are those?

15 A Chairman. It's on the screen.

16 Q Okay. Chairman of what?

17 A All kinds of Democratic committees.

18 Q How long have you had that position?

19 A I'm going to estimate ten years. Can I
20 estimate like that?

21 Q All you can do is give your best...

22 A Yeah. Right around there, I think.

23 Q So what's involved in being chairman of a
24 Baldwin County Democratic Committee? What do you do?

25 A Thankless work. The main thing of the

EXHIBIT L

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UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

ANNIE LOIS GRANT, et al.,

Plaintiffs,

vs.

CIVIL ACTION FILE
NO. 1:22-CV-00122-SCJ

BRAD RAFFENSPERGER, in
his official capacity as
the Georgia Secretary of
State, et al.,
Defendants.

DEPOSITION OF ELROY TOLBERT
Taken by Remote Conference
February 9, 2023
9:04 a.m.

Valerie N. Almand, RPR, CRR, CRC

1 employment history all in one.

2 A. Good.

3 Q. All right. On to your voter registration
4 history. Are you registered to vote in Georgia?

5 A. Yes, I am.

6 Q. Do you remember where you registered to
7 vote?

8 A. In Bibb County.

9 Q. Okay. When did you register?

10 A. In '88.

11 Q. Okay. Have you ever registered anywhere
12 else?

13 A. No, I haven't.

14 Q. Are you registered to vote at your
15 current address?

16 A. Yes, I am.

17 Q. And do you know what district you resided
18 in before the recent redistricting took effect?

19 A. I can't remember right off of my head.
20 144, something like that.

21 Q. I think most people don't really know the
22 district numbers off the top of their heads. It's
23 something we can look into.

24 A. All right.

25 Q. Have you voted in each election since

1 A. Do I know where I voted for the runoff?

2 Q. Yeah, where you voted for the runoff.

3 A. Where I voted?

4 Q. Yes, sir.

5 A. Like I said, one of those churches.

6 Mabel White, or either that other church since I
7 moved out here.

8 Q. Okay. And I know you said you've only
9 lived in Georgia, but have you ever voted in any
10 other state?

11 A. No.

12 Q. Okay. Do you consider yourself to be a
13 member of the Democratic party?

14 A. Yes, I am.

15 Q. And since when?

16 A. Since I started voting.

17 Q. And have you held any leadership position
18 in that party?

19 A. No, I haven't.

20 Q. Have you ever held any position or served
21 on any committee of the Democratic party?

22 A. No, I haven't.

23 Q. Have you participated in any activities
24 of the Democratic party?

25 A. Once.

1 Q. What would that have been?

2 A. I helped -- I tried to help register
3 voters.

4 Q. And when was that?

5 A. That had to be about at least 12 years
6 ago.

7 Q. Okay. Have you ever considered yourself
8 to be a member of the Republican party?

9 A. No.

10 Q. Is it fair to say you generally support
11 Democratic candidates for election in Georgia?

12 A. I do.

13 Q. Have you ever voted for a Republican
14 candidate?

15 A. Yes, I have.

16 Q. Do you remember who and when?

17 A. Yes, it was a governor election, it
18 was -- my mind just went blank then. Governor
19 Purdue.

20 Q. Okay. Do you remember what year that
21 was?

22 A. It was in the nineties.

23 Q. Okay. Have you ever been a member or
24 held a position in any other political party?

25 A. No, I haven't.

EXHIBIT M

Grant, Annie Lois, et al.v. Raffensperger, Brad, Et Al.

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IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

ANNIE LOIS GRANT, et al.,)
Plaintiffs,) CIVIL ACTION FILE NO.
v.) 1:22-CV-00122-SCJ
BRAD RAFFENSPERGER, in his)
official capacity as the)
Georgia Secretary of State,)
et al.,)
Defendants.)

COAKLEY PENDERGRASS, et al.,)
Plaintiffs,)
v.) CIVIL ACTION FILE NO.
BRAD RAFFENSPERGER, et al.,) 1:21-CV-05339-SCJ
Defendants.)

The DEPOSITION of:

TRIANA ARNOLD JAMES

Being taken pursuant to stipulations herein:

Before Kathryn Taylor, CCR

WEDNESDAY, DECEMBER 7, 2022 | Commencing at 4:00 p.m.

All parties, including the court reporter, appeared by
videoconference.

Job No. 5609351

1 keep them in a separate bucket.

2 MR. JONES: That's fine.

3 BY MR. JACOUTOT:

4 Q. Ms. James, sorry for that digression there.

5 Are you registered to vote in Georgia?

6 A. Yes.

7 Q. And where did you register to vote?

8 A. In Douglas County, state of Georgia.

9 Q. Okay. Were you registered also previously in
10 Cobb County when you lived there?

11 A. Yes.

12 Q. Okay. And what district did you reside in
13 for -- well, if you -- if you recall, do you know what
14 the senate district and house district, state house
15 district -- well, let me -- let me keep those separate.

16 So do you recall what senate district you
17 resided in prior to the recent redistricting?

18 A. In -- not U.S., but -- but state?

19 Q. Yes, state senate. Thank you.

20 A. I was in the 30th.

21 Q. Okay. And do you recall what house -- state
22 house district you resided in before the recent
23 redistricting?

24 A. The 67th.

25 Q. Okay. Have you voted in each election since

1 you've been registered to vote here in Georgia?

2 A. Yes.

3 Q. Okay. Would you include primaries along with
4 the -- with the -- with that answer?

5 A. Yes.

6 Q. Okay. Do you recall what precinct you voted
7 in in the November 2022 elections? So that would be
8 the elections that just occurred.

9 A. I don't know the precinct number, but
10 location --

11 Q. Yeah, sure. Do you -- do you know the
12 location?

13 A. Mirror -- Mirror Lake. Mirror Lake
14 Elementary.

15 Q. Now, I know you -- as a result of your
16 military service, you've lived in different states
17 periodically. Have you ever voted in any other state
18 outside of Georgia?

19 A. No. Never.

20 Q. Okay. So do you consider yourself to be a
21 member of the Democratic Party?

22 A. Yes.

23 Q. Where would you say you'd be -- would
24 start -- strike that.

25 When would you say you became a member of the

1 Q. Do you remember who that was?

2 A. Yes.

3 Q. Do you remember when that was?

4 A. The -- the last -- this last election, yes.

5 Q. Okay. Do you feel comfortable saying who
6 that Republican was?

7 A. No.

8 Q. Okay. Have you ever been a member or held a
9 position in any other political party, apart from the
10 Democratic Party?

11 A. No.

12 Q. And have you ever yourself run for office?

13 A. Yes.

14 Q. And when was that? Well, let's -- let me
15 rephrase that question.

16 When -- how many times have you run for
17 office?

18 A. Twice.

19 Q. And starting with -- I guess we'll just go
20 chronologically back from now. What office did you run
21 for most recently and when was that?

22 A. I guess, 2021.

23 Q. 2021?

24 A. No, no, no, I'm sorry. I -- I guess
25 2020/2021, I ran for senate.

1 Q. Would that be U.S. senate or state senate?

2 A. State.

3 Q. And what district did you run in?

4 A. 30.

5 Q. Okay. Did you run in the Democratic primary?

6 A. Yes.

7 Q. Okay. Were you successful in that primary?

8 A. No.

9 Q. Okay. And so the -- the office you ran for
10 before Senate 30, what office was that?

11 A. Lieutenant governor.

12 Q. Okay. And when was that?

13 A. 2018.

14 Q. Okay. And did you also run in the Democratic
15 primary for that election?

16 A. Yes.

17 Q. Were you successful in that primary?

18 A. No.

19 Q. Okay. Any other offices? I know you said
20 only two, but just -- you know, if that jogs your
21 memory or anything.

22 A. No.

23 Q. Okay. Now, apart from Georgia NOW, are you
24 involved in any voter advocacy groups?

25 A. No.

EXHIBIT N

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IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA

ATLANTA DIVISION

ANNIE LOIS GRANT, et al.,

Plaintiffs,

vs.

CIVIL ACTION FILE NO.:

1:22-CV-00122-SCJ

BRAD RAFFENSPERGER, in his
official capacity as the
Georgia Secretary of State,
et al.,

Defendants.

(Appearance via Video Conference)

DEPOSITION OF: EUNICE SYKES

DATE: December 14, 2022

TIME: 10:00 a.m.

LOCATION: Home of Eunice Sykes

[REDACTED]

Locust Grove, Georgia

TAKEN BY: Counsel for the Defendants

REPORTED BY: Mary K. Stepp, Court Reporter

(Appearance via Video Conference)

1 A. 2006.

2 Q. 2006. And what month was that?

3 A. July.

4 Q. July. And before 2006, were you still in
5 the state of Georgia?

6 A. No.

7 Q. Where did you move from?

8 A. Pennsylvania.

9 Q. What part of Pennsylvania?

10 A. Pittsburgh.

11 Q. Were you just moving to get away from the
12 cold weather?

13 A. I was retiring.

14 Q. Retiring. Congratulations, even though
15 it's been several years. What made you pick Georgia?

16 A. Better weather.

17 Q. For the most part, other than these gray,
18 rainy days.

19 A. We have more sunny, blue sky days here
20 than we do rainy days.

21 Q. Yeah, that's true. Have you resided at
22 any other addresses in Locust Grove or Henry County?

23 A. No.

24 Q. And just to state for the record, your
25 address, is it located in Henry County, Georgia?

1 A. Yes.

2 Q. Thank you. So during the time that you've
3 lived in Georgia, have you ever split your time
4 between residences? For instance, were you -- did
5 you have a home here, while you also had a home in
6 Pennsylvania or --

7 A. Can you excuse me for one minute?

8 Q. Yes, ma'am.

9 A. I'm sorry. I had the coffee pot on and it
10 was about to go off.

11 Q. Oh, that's okay. I'll repeat my question.

12 A. Okay.

13 Q. During the time that you've lived at your
14 residence in Henry County, did you ever split time
15 between residences, say here and Pennsylvania, or
16 were you solely here in Georgia?

17 A. I split time between here and
18 Pennsylvania --

19 Q. Okay.

20 A. -- for three months.

21 Q. What was that last bit?

22 A. For three months.

23 Q. For three months. And what time period
24 was that?

25 A. That was the summer of '06.

1 All right. And were you part time or full
2 time for these positions?

3 A. I was full time.

4 Q. For all of them?

5 A. Yes.

6 Q. All right. Moving on to your voter
7 registration history. Even more exciting than your
8 employment history. Are you registered to vote in
9 Georgia?

10 A. Yes.

11 Q. Do you remember where you registered to
12 vote?

13 A. Henry County.

14 Q. Was it in person, by mail?

15 A. In person.

16 Q. Okay.

17 A. Likely. It may have been by mail.

18 Q. Did you register when you immediately got
19 to Georgia?

20 A. Yes.

21 Q. So you registered in 2007?

22 A. Yes.

23 Q. Okay. Did you ever register anywhere else
24 you lived?

25 A. I have probably registered wherever I've

1 lived.

2 Q. Okay.

3 A. Uhm --

4 Q. Can you say with certainty any of the
5 locations in particular?

6 A. No, I cannot say with certainty.

7 Q. Okay. And are you registered to vote at
8 your current address?

9 A. Yes.

10 Q. All right. And do you know what district
11 you resided in before the recent redistricting took
12 effect?

13 A. No.

14 Q. And have you voted in each election since
15 you've been registered to vote in Georgia?

16 A. Yes.

17 Q. So have you voted in the presidential
18 primary elections?

19 A. Yes.

20 Q. Have you voted in general primary
21 elections?

22 A. Yes.

23 Q. Have you voted in special elections?

24 A. Yes.

25 Q. And do you know what precinct you voted in

1 A. No.

2 Q. Okay. Thank you. All right. Moving on
3 to your political affiliations. Are you currently
4 involved in any political or activist organizations?

5 A. No.

6 Q. So you have no leadership positions or
7 anything like that?

8 A. No.

9 Q. Okay. Do you consider yourself to be a
10 member of the Democratic party?

11 A. Yes.

12 Q. And since when?

13 A. All my life.

14 Q. And have you held any leadership positions
15 in the Democratic party?

16 A. No.

17 Q. Have you served on any committees for the
18 Democratic party?

19 A. No.

20 Q. Have you participated in any activities of
21 the Democratic party?

22 A. No.

23 Q. Have you ever considered yourself to be a
24 member of the Republican party?

25 A. No.

EXHIBIT O

Grant, Annie Lois, et al.v. Raffensperger, Brad, Et Al.

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IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

ANNIE LOIS GRANT, et al.,
Plaintiffs,

CIVIL ACTION FILE

vs.

NO. 1:22-CV-00122-SCJ

BRAD RAFFENSPERGER, in
his official capacity as
the Georgia Secretary of
State, et al.,

Defendants.

DEPOSITION OF ELBERT SOLOMON
TAKEN BY REMOTE VIDEOCONFERENCE

December 9, 2022
2:10 p.m.

REPORTED REMOTELY BY:
LAURA R. SINGLE, CCR-B-1343

1 A. Per month.

2 Q. Per month, okay.

3 I'm going to ask you about your voting
4 history and registration. Are you currently
5 registered to vote in Georgia?

6 A. Yes.

7 Q. Where did you register to vote?

8 A. First in Sumter County and, of course, in
9 2015 when I moved here to Spalding County.

10 Q. And you're currently registered to vote in
11 Spalding County?

12 A. Yes.

13 Q. What congressional district did you reside
14 in before the current redistricting?

15 A. 16. That's -- 134, I believe, before
16 redistricting.

17 Q. And now you reside in Senate District 16?

18 A. No; 117.

19 Q. Okay.

20 A. That's congressional senate 16.

21 Q. Okay. Great.

22 So 117 is your congressional district. Does
23 that sound right?

24 A. Correct. Correct.

25 Q. And before redistricting what was your

1 Georgia since moving to the state?

2 A. Yes.

3 Q. Did you vote in the November -- in the
4 November 2022 election?

5 A. Yes.

6 Q. Did you also vote in the runoff this past
7 week?

8 A. Yes.

9 Q. Have you voted in any other state?

10 A. Other than Mississippi when I lived there,
11 no other state.

12 Q. Okay.

13 A. Mississippi and Georgia.

14 Q. Okay. That was a poorly asked question.

15 When you resided in Mississippi, you voted
16 there; is that correct?

17 A. Yes, that's correct.

18 Q. Okay. Do you consider yourself a member of
19 the Democratic Party?

20 A. Yes.

21 Q. And how long have you been a member, sir?

22 A. Since I was 18 years old.

23 Q. While being a member of the Democratic
24 Party, have you held any leadership positions within
25 the party or associated with the party?

1 kind of events?

2 A. We have a monthly meeting.

3 Q. What is your role at the monthly meetings?

4 A. As an officer I served on the executive
5 committee that actually facilitates the meeting.

6 Q. Have you worked on any political campaigns?

7 A. No.

8 Q. Is it fair to say that you generally support
9 Democratic candidates for election in Georgia?

10 A. Not only in Georgia.

11 Q. So did you support Democratic candidates in
12 Mississippi as well as Georgia?

13 A. Yes.

14 Q. Have you ever voted for a Republican?

15 A. Yes.

16 Q. And who are the Republicans that you voted
17 for?

18 A. I voted many times because I had to choose
19 between the lesser of two evils. There were no
20 Democrats on the ballot.

21 Q. And was that in Mississippi or here in
22 Georgia?

23 A. In Georgia and Mississippi.

24 Q. Did you say on those occasions that you
25 voted for a Republican there was not a Democrat

EXHIBIT P

Grant, Annie Lois, et al.v. Raffensperger, Brad, Et Al.

Page 1

1 IN THE UNITED STATES DISTRICT COURT
2 FOR THE NORTHERN DISTRICT OF GEORGIA
3 ATLANTA DIVISION

4 ANNIE LOIS GRANT; QUENTIN T.
5 HOWELL; ELROY TOLBERT; THERON
6 BROWN; TRIANA ARNOLD JAMES; EUNICE
7 SYKES; ELBERT SOLOMON; DEXTER
8 WIMBISH; GARRETT REYNOLDS;
9 JACQUELINE FAYE ARBUTHNOT;
10 JACQUELINE BUSH; and
11 MARY NELL CONNER,
12 Plaintiffs,

CIVIL ACTION FILE

13 vs.

NO. 1:22-CV-00122-SCJ

14 BRAD RAFFENSPERGER, in his official
15 capacity as the Georgia Secretary
16 of State; WILLIAM S. DUFFY, JR.,
17 in his official capacity as chair
18 of the State Election Board;
19 MATTHEW MASHBURN, in his official
20 capacity as a member of the State
21 Election Board; EDWARD LINDSEY,
22 in his official capacity as a
23 member of the State Election Board;
24 and JANICE W. JOHNSTON, in her
25 official capacity as a member of
the State Election Board,
Defendants.

TAKEN BY REMOTE VIDEO-CONFERENCE
DEPOSITION OF DEXTER WIMBISH
December 6, 2022, 9:31 a.m.

Carolyn J. Smith, CCR, RPR, RMR, CCR-A-1361

1 A No.

2 Q Okay. Are you currently involved in any
3 political or activist organizations?

4 A Democratic Party of Spalding County.

5 Q Okay. And in what capacity do you serve
6 in the Democratic Party of Spalding County?

7 A Member.

8 Q And help me, uh, sort of understand what
9 being a member entails.

10 Is it similar to being a member of just
11 the Georgia Democratic Party or the National
12 Democratic Party? Or are there -- are there more,
13 um, activities in the -- in Spalding County?

14 A It means I gave them \$25, and I attend
15 Democratic meetings.

16 Q Got you. Thank you. And, um, we can just
17 go ahead and move on to your employment history.

18 Um, where do you currently work?

19 A I have -- um, I'm employed, self-employed
20 as a sole proprietor. Practice areas include
21 criminal law, personal injury, and general
22 litigation.

23 I am an adjunct professor for Mercer
24 University. I teach business ethics, uh, and
25 employment law. I've been there from 2013 to

1 A Uh, traffic tickets, minor possession
2 charges, and city ordinances.

3 Q And how many hours a week would you say
4 you devote to that job?

5 A Uh, four hours a month.

6 Q Four hours a month? Okay. Have you run
7 for any political office before?

8 A In 2021, I ran for the district attorney
9 for the Griffin Judicial Circuit, as a Democrat.

10 Q Okay, (nodded head affirmatively.) Did
11 you -- is there a primary process for that, or is it
12 a kind of -- a large pool regardless of party?

13 A It was a special runoff. Uh, it was a
14 special runoff that was held because the governor of
15 Georgia appointed the district attorney after the
16 previous district attorney, uh, moved up to a
17 Superior Court position.

18 Uh, it was a special -- it was a special
19 runoff that was mandated because of the Gonzales
20 decision in Athens-Clarke County where the governor
21 attempted to appoint a district attorney there
22 beyond, uh, the term, and the Supreme Court declared
23 that law to be unconstitutional.

24 Therefore, when our district attorney here
25 moved up to a Superior Court judge, a special

1 election was held. I decided to run because I did
2 not want the person who he had already appointed to
3 district attorney to run unopposed, because I feel
4 like every American has the right to participate in
5 the political process, and that district attorneys
6 are elected. And therefore we should have a choice
7 in an election.

8 Q Okay. Um, so it was -- in that election
9 was it just you and the other candidate who was --
10 let me just ask that way.

11 Was it just you and the other candidate?

12 A Republican incumbent was, (inaudible,
13 cutting out) --

14 THE COURT REPORTER: I'm sorry, can you
15 repeat your response, sir? I couldn't hear you.

16 A It was the Republican incumbent, Marie
17 Broder, B-R-O-D-E-R.

18 BY MR. JACOUTOT:

19 Q Thank you. And what -- what was the
20 result of that election?

21 A I got beat badly.

22 Q Okay. Any other political offices that
23 you've run for?

24 A No.

25 Q Have you served -- apart from the, uh,

1 and Republicans have two very distinct ideologies.
2 The ideologies -- ideologies of Democrats are more
3 in line, I believe, with most African-Americans and
4 other minorities because the Democrats promote
5 exclusion [sic], while Republicans promote
6 exclusion.

7 Q Okay. I'll move on to your voter
8 registration and history.

9 Um, are you registered to vote in Georgia?
10 Sounds like a silly question, but I do have to ask
11 you.

12 A I have been registered to vote since 1987.
13 Um, and in that time, that vote was -- our
14 registration was automatic. Uh, as I graduated --
15 when I turned high school -- turned 18 and graduated
16 high school.

17 And so I registered in 1987. I've voted
18 in every presidential election since that time. I
19 may missed one or two local elections, but I never
20 missed a presidential election.

21 Q Okay. And you -- you said you registered,
22 uh, sort of straight out of high school.

23 Was it, uh, through something that was
24 done -- it was automatic, but was -- was there any
25 voter fair that you had to attend, or was it your

1 when I came back in 1994.

2 Q And you -- you said you voted in every
3 presidential election for sure.

4 Uh, are you registered at your current
5 address, the -- the Spalding --

6 A 420.

7 Q -- County -- yeah.

8 A Yes.

9 Q Okay. Uh, what district -- actually,
10 before we get to that, hold on one second. I'll
11 save that question. You mentioned you voted in the
12 presidential elections basically since you've -- you
13 were originally registered.

14 Did you also vote in the primaries of
15 those elections?

16 A Yes.

17 Q What about the off year uh, gubernatorial
18 year elections?

19 A Yes, I voted in every gubernatorial race.

20 Q Okay. What precinct did you vote in for
21 the November 2022 election?

22 A I voted here at my precinct at the UGA
23 campus. I'm not sure of the precinct number.

24 Q Okay. That's -- that's fine. Have you
25 voted in, uh, this -- this current runoff?

EXHIBIT Q

1 IN THE UNITED STATES DISTRICT COURT
2 FOR THE NORTHERN DISTRICT OF GEORGIA
3 ATLANTA DIVISION

4
5 CIVIL ACTION NUMBER: 1:22-CV-00122-SCJ

6 ANNIE LOIS GRANT; et al.,

7 Plaintiff(s),

8 vs.

9 BRAD RAFFENSPERGER, in his
10 official capacity as the Georgia

11 Secretary of State, et al.,

12 Defendant(s).

13

14

15 DEPOSITION TESTIMONY OF:

16 GARRETT REYNOLDS

17 January 25, 2023

18 3 p.m. Eastern Time

19 VIA REMOTE VIDEO-CONFERENCE

20

21

22

23 COURT REPORTER:

24 Angela Smith McGalliard,

25 RPR, CRR, CCR

1 Q. Okay. Shifting gears, again, Mr.
2 Reynolds, can you please state your full
3 name for the Record?

4 A. Garrett Reynolds.

5 Q. What is your current address, Mr.
6 Reynolds?

7 A. [REDACTED] [REDACTED] [REDACTED] [REDACTED] Tyrone,
8 Georgia [REDACTED]

9 Q. What county is that in?

10 A. Fayette.

11 Q. And how long have you lived at
12 that address?

13 A. Little more than ten years.

14 Q. And have you lived anywhere else
15 in the past two years?

16 A. No.

17 Q. And where did you live before
18 moving to your current address?

19 A. [REDACTED] [REDACTED] [REDACTED] -- I cannot
20 recall if it was a [REDACTED] [REDACTED] [REDACTED]
21 Atlanta, Georgia [REDACTED]

22 Q. And how long did you live at that
23 address for, to the best of your
24 recollection?

25 A. Five, six years.

1 discussed, have you received any training
2 in any other area?

3 A. No.

4 Q. Now I'll shift along to talk
5 about organizations that you're currently
6 involved in. Are you currently a member of
7 any social organizations?

8 A. No.

9 Q. How about, are you currently a
10 member of any political organizations?

11 A. Yes.

12 Q. And what are those?

13 A. Fayette County Democratic
14 Committee.

15 Q. And how long have you been a
16 member of the Fayette County Democratic
17 Committee?

18 A. I joined when Donald Trump became
19 president, so that would be six years.

20 Q. So around 2016, 2017, then?

21 A. I believe he was elected -- I
22 believe he took office in 2017.

23 Q. Yeah.

24 A. And so that would be five, five
25 and a half years, six years.

1 are in a little bit greater detail?

2 A. Our organization's goal is to
3 locate and elect democrats to public
4 office.

5 Q. And since joining that committee,
6 has that always been your role or have you
7 held different roles within that
8 organization?

9 A. I have had different roles in
10 that organization.

11 Q. And what are those different
12 roles?

13 A. I was the former vice chair of --
14 we call it FCDC, Fayette County Democratic
15 Committee. I have also been a chair of the
16 field operations department.

17 Q. And, again, consistent with your
18 counsel's objection, and taking into
19 account the prior activities that you
20 identified in your present role, are there
21 any other -- Strike that.

22 Were there any other
23 responsibilities that you had in those
24 prior roles, that were publicly available,
25 that we haven't already discussed?

1 states in addition to Georgia, those were
2 Florida, California, and New York; is that
3 correct?

4 A. Yes.

5 Q. And do you recall what city you
6 voted in in Florida?

7 A. Key West.

8 Q. And that was the only one? Were
9 there any others in Florida?

10 A. That was the only one.

11 Q. And then same question for
12 California.

13 A. Alameda.

14 Q. That's the one that's close to
15 Oakland and San Francisco; correct?

16 A. Correct.

17 Q. And then how about for New York?

18 A. Rochester -- Well, Henrietta,
19 definitely and Henrietta only. I turned
20 eighteen in Henrietta.

21 Q. Now, we will shift along to
22 political affiliations. Mr. Reynolds, do
23 you consider yourself to be a member of the
24 Democratic Party?

25 A. Yes.

1 Q. How long have you considered
2 yourself to be a member of the Democratic
3 Party?

4 A. Since the day Donald Trump became
5 president.

6 Q. I'm fairly certain of this
7 answer, based on our prior discussion of
8 organizations you were involved in, but I
9 just want to confirm, that you've held
10 leadership positions in the Democratic
11 Party; is that correct?

12 A. Yes.

13 Q. Those were all the previous
14 positions we discussed earlier; right?

15 A. Yes.

16 Q. And with that -- The committee we
17 discussed earlier, was that the only
18 committee that you have served on with the
19 Democratic Party?

20 A. Yes.

21 Q. Aside from the discussions
22 earlier, and consistent with your counsel's
23 prior objection about only to discuss
24 publicly facing activities, have you
25 participated in any other activities with

1 the Democratic Party, other than those that
2 we've discussed previously?

3 A. No.

4 Q. Have you ever considered yourself
5 to be a member of the Republican Party?

6 A. No.

7 Q. Based on that, is it fair to say
8 that you generally support Democratic
9 candidates for election in Georgia?

10 A. Yes.

11 Q. Have you ever voted for a
12 Republican candidate?

13 A. Yes.

14 Q. And who was that?

15 A. John McCain for president.

16 Q. And I believe that would have
17 been the 2008 presidential election;
18 correct?

19 A. He ran twice. The first time.

20 Q. So that would have been -- So not
21 the time he ran against Barrack Obama, but
22 the time before that; correct?

23 A. Correct.

24 Q. Have you ever been a member or
25 held a position in any other political

EXHIBIT R

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IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

ANNIE LOIS GRANT, et al.,)
)
Plaintiffs,)
)
vs.) Civil Action No.
) 1:22-CV-00122-SCJ
BRAD RAFFENSPERGER, in his)
official capacity as the George)
Secretary of State,)
)
Defendant.)

DEPOSITION OF: JACQUELINE ARBUTHNOT
VOLUME II

S T I P U L A T I O N

IT IS STIPULATED AND AGREED by and between the parties through their respective counsel that the deposition of JACQUELINE ARBUTHNOT may be taken on January 24, 2023, before Anne E. Miller, Commissioner and Notary Public, remotely.

1 this time.

2 Q. And what do you base that on? Personal
3 experience, reading news sources? What is that based
4 on?

5 A. Based on reading resources, interacting with
6 friends, members in the community.

7 MR. WEIGEL: All right. I believe that
8 that covers all of my questions. Mr. Jones, did you
9 have any questions for your client?

10 MR. JONES: Just very briefly.

11 MR. WEIGEL: And did you want to take a
12 break at all or just get right into it? I'm good
13 without it.

14 MR. JONES: Yeah. Let's keep going.

15

16 EXAMINATION BY MR. JONES:

17 Q. Ms. Arbuthnot, did I hear you correctly say
18 earlier that you tend to support Democrats rather than
19 Republicans?

20 A. Yes.

21 Q. And why is that?

22 A. Well, I -- there seems to be more assistance,
23 more help, more resources that we have been able to

EXHIBIT S

Grant, Annie Lois, et al.v. Raffensperger, Brad, Et Al.

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IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

ANNIE LOIS GRANT, et al.,)
)
Plaintiffs,) CIVIL ACTION FILE
) NO. 1:22-CV-00122-SCJ
v.)
)
BRAD RAFFENSPERGER, in his)
official capacity as the)
Georgia Secretary of State,)
et al.,)

The deposition of JACQUELYN BUSH taken pursuant to the stipulations contained herein; all formalities waived, excluding the reading and signing of the deposition; before Heather D. Williams, CCR; taken on January 24th, 2023, via Zoom teleconference, commencing at 11:00 a.m.

1 Q Who's older?

2 A My son.

3 Q Okay. And when you worked at BellSouth, were you
4 full-time?

5 A Yes.

6 Q So would you say about 40 hours a week?

7 A Yes.

8 Q Okay. All right. Onto your voter registration and
9 history. Are you registered to vote in Georgia?

10 A Yes.

11 Q And do you remember where you registered to vote?

12 A Yes. I'm registered in Fayette County. You mean
13 where I went when I registered?

14 Q Yes, ma'am, where you first, you know, signed up to
15 vote.

16 A At the registration office in Fayette County.

17 Q Okay. Is College Park in Fayette County?

18 A No, it isn't. And I was registered to vote before
19 moving here, but when I moved here, I moved my registration. I
20 don't know where I initially registered in Georgia --

21 Q Uh-uh.

22 A -- but I had voted prior to voting in Fayette County.

23 Q Okay. Do you remember what location you would have
24 voted at that time?

25 A At that time, no.

1 Q All right. And when did you register in Fayette
2 County?

3 A I believe it was January of 1988. It was right after
4 I moved here.

5 Q And were you registered in Florida when you lived
6 there?

7 A Yes.

8 Q And are you registered to vote at your current
9 address?

10 A Yes.

11 Q Do you know what district you resided in before the
12 recent redistricting took effect?

13 A District for Senate -- 16, and the other was 74.

14 Q Okay. Do you know what you are now?

15 A No.

16 Q And do you know if you voted in each election in
17 Georgia?

18 A Yes, as far as I can remember. I don't recall missing
19 any --

20 Q Okay.

21 A -- however, when I looked at my voter's record,
22 probably a couple of years ago, it appeared to me that some
23 dates -- that one or two dates were missing.

24 Q Okay. Do you recall which two dates those would have
25 been?

1 A No.

2 Q All right. So I asked if you voted in each election.
3 Have you voted in the presidential primaries?

4 A Yes.

5 Q Have you voted in general elections?

6 A Yes.

7 Q Have you voted in special elections?

8 A Yes.

9 Q Okay. And do you know what precinct you voted for --
10 or voted in the November 2022 election?

11 A I actually voted by absentee ballot.

12 Q Okay.

13 A I don't know where my precinct is located, but prior
14 to that, I've been doing early voting. So I would go to the
15 registrar's office.

16 Q Okay. Where is your physical precinct's location?

17 A It's about a mile from me at Southside Baptist Church,
18 which is off 92 South.

19 Q All right. And where did you vote for the runoff --
20 in the runoff?

21 A I voted absentee.

22 Q Okay. Onto your political affiliations. Do you
23 consider yourself to be a member of the Democratic Party?

24 A Yes.

25 Q And since when?

1 A Since I initially registered to vote, so always.

2 Q And have you held any leadership positions in that
3 party?

4 A No.

5 Q Have you ever held any position or served on any
6 commission of the Democratic Party?

7 A No.

8 Q Have you participated in any activities of the
9 Democratic Party?

10 A I don't understand.

11 Q I think -- like voter registration drives, things like
12 that?

13 A Yes.

14 Q Okay. Can you explain what activities and when?

15 A Yes. In 2008, I did participate in going door-to-
16 door, getting people to register to vote.

17 Q Is there anything else?

18 A No.

19 Q Have you ever considered yourself to be a member of
20 the Republican Party?

21 A No.

22 Q Is it fair to say you generally support Democratic
23 candidates for elections in Georgia?

24 A Yes.

25 Q Have you ever voted for any Republican candidate?

1 A No, not that I recall.

2 Q Have you ever been a member or held any position in
3 any other political party?

4 A No.

5 Q Have you worked on any political campaigns?

6 A Yes.

7 Q Okay. Who would that have been?

8 A I worked on the presidential campaign for President
9 Obama.

10 Q Was that in 2008?

11 A Yes.

12 Q Any other campaigns?

13 A I worked to support Andrew Young's campaign.

14 Q And what year would that have been?

15 A I'm not sure.

16 Q And what kind of work did you do for President Obama's
17 campaign?

18 A I did Getting Out to Vote -- did phone banks.

19 Q That's tough work. Probably get a lot of people
20 hanging up. And then what kind of work did you do for Andrew
21 Young's campaign?

22 A The same.

23 Q All right. Are you involved with any voter advocacy
24 groups?

25 A No.

EXHIBIT T

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UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

ANNIE LOIS GRANT, et al.,

Plaintiffs,

vs.

CIVIL ACTION FILE
NO. 1:22-CV-00122-SCJ

BRAD RAFFENSPERGER, in
his official capacity as
the Georgia Secretary of
State, et al.,
Defendants.

DEPOSITION OF MARY NELL CONNER
Taken by Remote Conference
February 9, 2023
2:57 p.m.

Valerie N. Almand, RPR, CRR, CRC

1 Q. What year did you retire?

2 A. I retired in 2018.

3 Q. Where were you working before you
4 retired?

5 A. For the State of Georgia in the
6 department of revenue.

7 Q. What were you doing for them?

8 A. Reviewing income tax returns.

9 Q. What kind of training do you need to do
10 that?

11 A. They train you on the job.

12 Q. And when did you start there?

13 A. It was February of -- I'm trying to
14 think -- February of 2015.

15 Q. So February of 2015 to 2018 you were
16 working for the Georgia Department of Revenue?

17 A. Yes.

18 Q. Okay. And why did you leave that job?

19 A. I retired.

20 Q. Just time to be done?

21 A. Yes.

22 Q. All right. We'll move onto your voter
23 registration history. Are you registered to vote
24 in Georgia?

25 A. Yes.

1 Q. Do you remember where you registered to
2 vote?

3 A. I registered when I changed my license in
4 Clayton County, Georgia.

5 Q. Do you remember what year that was?

6 A. 2005.

7 Q. And have you ever registered anywhere
8 else to vote?

9 A. In Henry County.

10 Q. Have you registered in any other states?

11 A. No.

12 Q. And are you registered to vote at your
13 current address?

14 A. Yes.

15 Q. Do you know what district you resided in
16 before the recent redistricting took effect?

17 A. No, I do not.

18 Q. And have you voted in each election since
19 you've been registered to vote in Georgia?

20 A. Yes.

21 Q. Does that include special elections?

22 A. Yes. Any election that I can vote in, I
23 vote in it, in that election.

24 Q. Okay. Great. Do you know what precinct
25 you voted in for the November 2022 election?

1 A. No, I do not.

2 Q. Do you know the general location?

3 A. No. I go to my polling place, which is a
4 library. That's where I vote every time.

5 Q. Okay. What's the name of the library?

6 A. Locust Grove Library.

7 Q. Did you vote in that same location for
8 the runoff?

9 A. Yes.

10 Q. And do you consider yourself to be a
11 member of the Democratic party?

12 A. Yes.

13 Q. Since when?

14 A. Since 2005.

15 Q. And have you ever held a leadership
16 position in that party?

17 A. No.

18 Q. Have you ever held any position or served
19 on any committee of the Democratic party?

20 A. No.

21 Q. Have you participated in any activities
22 of the Democratic party?

23 A. No.

24 Q. Have you ever considered yourself to be a
25 member of the Republican party?

EXHIBIT U

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UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

ANNIE LOIS GRANT, et al.,

Plaintiffs,

v.

CIVIL ACTION FILE
NO. 1:22-CV-00122-SCJ

BRAD RAFFENSPERGER, in his
official capacity as the
Georgia Secretary of
State, et al.,

Defendants.

COAKLEY PENDERGRASS, et al.,

Plaintiffs,

v.

CIVIL ACTION FILE
NO. 1:21-CV-05339-SCJ

BRAD RAFFENSPERGER, et al.,
Defendants.

VIDEOTAPED ZOOM DEPOSITION OF
MAXWELL PALMER, Ph.D.

February 22, 2023
9:28 A.M.

Lee Ann Barnes, CCR-1852B, RPR, CRR, CRC

1 question, for the record.

2 BY MR. JACOUTOT:

3 Q. So let me ask you this: What is your
4 standard for determining racial polarization?

5 A. So determining racial polarization, to me,
6 comes in three parts.

7 First, I have to see if -- and just to
8 simplify, just for black and white voters as I'm
9 looking for here. If black voters vote
10 cohesively -- that is, do they -- do the large
11 majority of the black voters support the same
12 candidate -- then do white voters vote cohesively,
13 do a large majority of white voters support the same
14 candidate, and then are they different candidates or
15 not. So you first have to have a candidate of
16 choice for each group and then those have to be
17 different candidates.

18 Q. Okay. And how do you -- how do you define
19 cohesively as used in that standard?

20 A. I don't have a bright-line test. Here the
21 results are unambiguous regardless of any cutoff you
22 might want to use.

23 Q. And you didn't examine any primary data in
24 your analysis; right? It was strictly limited to
25 general elections and runoffs, I believe.

1 A. That's correct.

2 Q. Okay. Do you know if there's a -- and
3 this is just for how you operate personally in this
4 area.

5 But do you know if there is a cutoff, like
6 or a threshold level of support that you need to
7 achieve in order to find -- in order for you to find
8 that a -- a group voted cohesively in a given
9 election?

10 A. I don't have a bright-line cutoff.

11 Q. If a group voted 55 percent for the same
12 candidate, would you -- would you find that to be
13 cohesive voting of that group?

14 A. Generally weakly cohesive or not cohesive.

15 Q. Okay. And if there's weak cohesion --

16 A. Sorry. I -- I would say that's not
17 cohesive.

18 Q. Okay. What about 60 percent?

19 Have you ever seen a -- examined an
20 election contest where an indiv- -- a group that you
21 were analyzing voted 60 percent for a candidate -- a
22 given candidate, would you -- have you ever said
23 that that was sufficiently cohesive, in your
24 opinion, for your -- for purposes of your racial
25 polarization analysis?

EXHIBIT V

IN THE UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF GEORGIA
ATLANTA DIVISION

_____)
COAKLEY PENDERGRASS, et al.,)
))
Plaintiffs,)
vs.)
) Civil Action No.
BRAD RAFFENSPERGER, in his) 2:21-CV-05449-SCJ
official capacity as the)
Georgia Secretary of State,)
et al.,)
))
Defendants.)

_____)
ANNIE LOIS GRANT, et al.,)
))
Plaintiffs,)
vs.) Civil Action No.
) 1:22-CV-00122-SCJ
BRAD RAFFENSPERGER, in his)
official capacity as the)
Georgia Secretary of State,)
et al.,)
))
Defendants.)

Videotaped deposition of DR. JOHN ALFORD, taken remotely in the above-captioned cause, before Rachel F. Gard, CSR, RPR, CRR, commencing at the hour of 11:00 a.m. Eastern on Thursday, February 23, 2023.

DIGITAL EVIDENCE GROUP
1730 M Street, NW, Suite 812
Washington, D.C. 20036
(202) 232-0646

1 Dr. Palmer's expert report?

2 A It certainly -- I think it certainly goes
3 to some part of my discussion of Dr. Palmer's
4 report, but I would say it is primarily as a sort
5 of adjunct to the discussion of primaries in
6 Dr. Handley's report.

7 Q Okay. So in terms of your analysis of
8 Dr. Palmer's findings and conclusions, you
9 primarily relied on the analysis and data that he
10 himself provided in his report; Is that fair?

11 A So that's correct. But I'm also making
12 the point that because he has no primary analysis,
13 we really don't have anything other than the
14 general election setting to look at. And so I
15 think that's important to understand what we know
16 in that setting, although it's not in his report,
17 we can get that from, you know, sort of
18 comparable -- for time frame that's comparable
19 from Dr. Handley's report and my analysis of the
20 Republican primary, but it's not analysis that's
21 in my report as sort of checking his analysis,
22 something like that, because it's not analysis

1 that he does in his report.

2 Q Okay. So earlier you had mentioned that
3 in preparation for working on this case, you --
4 I'm not sure if you said, used the verb
5 "downloaded," but you procured more updated
6 election data as you -- in preparation for your
7 work in this case. Do you recall saying something
8 to that effect?

9 A Yes.

10 Q And then here, though, you specify that
11 you relied on the election and demographic data
12 provided by Dr. Palmer and Dr. Handley other than
13 the 2022 Republican primary data; is that right?

14 A That's correct.

15 Q So I guess my question is: Did you, in
16 your response to Dr. Palmer's report in
17 particular, did you utilize any data other than
18 the data that Dr. Palmer himself relied on
19 preparing his report?

20 A No.

21 Q Okay.

22 A The purpose of kind of preloading some of

1 black candidate, they could be elected. So if
2 blacks prefer to be elected -- or represented by a
3 black, the Voting Rights Act provided a mechanism
4 so that can happen rather than that choice always
5 being blocked.

6 Somebody someplace said this, that blacks
7 can have any candidates they want, as long as that
8 candidate was white. That was true throughout the
9 south, right. You could have any candidate you
10 wanted as black voters as long as the candidate
11 was white.

12 That's what we're trying to address here,
13 provide an equal footing in which if black voters
14 prefer a black candidate, they can elect that
15 candidate rather than just electing a white
16 candidate. So I just think that's a fundamental
17 question.

18 And what this data shows is that, it is
19 the case that black candidates that are supported
20 by black voters face exactly the same or produce
21 exactly the same voting pattern as do white
22 candidates favored by black voters. And so that's