

IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF TEXAS
EL PASO DIVISION

LEAGUE OF UNITED LATIN AMERICAN
CITIZENS (LULAC), et al.,

Plaintiffs,

v.

GREG ABBOTT, et al.,

Defendants.

Civil Action No. 3:21-cv-259
(DCG-JES-JVB)
(consolidated cases)

UNITED STATES' OPPOSITION TO TEXAS'S MOTION TO DISMISS

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INTRODUCTION

In 2021, Texas enacted redistricting plans that discriminate against minority voters, just as it had in every redistricting cycle since the 1970s. This Court has already concluded that the United States has stated valid claims against Texas's Congressional and State House plans. *See* MTD Order, ECF No. 307; Clarification, ECF No. 312. Texas seeks dismissal of three claims in the United States' amended complaint—including one this Court already declined to dismiss—by injecting novel and unfounded requirements into the discriminatory results test and asserting unsupported contentions outside of the complaint. Tex. Mot., ECF No. 397. For example, Texas claims that, to challenge the Harris County Congressional configuration, the United States must allege facts establishing that the *Gingles* preconditions are met in existing opportunity districts. Under *Gingles* and this Court's prior order, however, the United States need allege such facts only with respect to the challenged district. To challenge the South Texas and El Paso/West Texas House configurations, the United States must allege polarized voting in the most probative elections but need not allege polarization in contests between Anglo candidates. Texas's other arguments similarly fail, and so the State's motion to dismiss should be denied.

PROCEDURAL BACKGROUND

The United States has alleged that Texas's 2021 Congressional Plan and 2021 House Plan violate Section 2 of the Voting Rights Act of 1965, 52 U.S.C. § 10301. Compl., *United States v. Texas*, No. 3:21-cv-299 (W.D. Tex. Dec. 6, 2021). The State of Texas and Texas Secretary of State John Scott moved to dismiss, which this Court denied with respect to the United States' discriminatory intent claims against the Congressional plan and the United States' discriminatory results claim against the El Paso/West Texas House configuration. MTD Order at 29, 50-52; Clarification Order, ECF No. 312. The Court dismissed without prejudice the United

States' discriminatory results claims concerning Congressional District (CD) 23, the Harris County Congressional configuration, House District (HD) 118, and HD 31. MTD Order at 60.

The United States' Amended Complaint (Amended Complaint) presents highly detailed allegations against the Congressional and State House plans. Am. Compl., ECF No. 318. In the Congressional plan, the United States challenges CD 23 in West Texas for its discriminatory purpose and discriminatory result, Am. Compl. ¶¶ 40-62; the Dallas-Fort Worth (DFW) configuration for its discriminatory purpose, Am. Compl. ¶¶ 63-86; and the Harris County configuration for its discriminatory result, Am. Compl. ¶¶ 87-108. In the House plan, the United States challenges HD 118 in Bexar County, Am. Compl. ¶¶ 119-137; HD 31 in South Texas, Am. Compl. ¶¶ 138-155; and the El Paso/West Texas configuration, U.S. Am. Compl. ¶¶ 156-179, all for their discriminatory results. Defendants have moved to dismiss the discriminatory results claims against the Harris County Congressional configuration and HD 31 in South Texas, and in essence, Defendants ask for reconsideration of the Court's decision not to dismiss the El Paso/West Texas House claim. Tex. Mot., ECF No. 397.

STATUTORY BACKGROUND

Section 2 of the Voting Rights Act, 52 U.S.C. § 10301, imposes a "permanent, nationwide ban on racial discrimination in voting." *Shelby Cnty. v. Holder*, 570 U.S. 529, 557 (2013). While Section 2 encompasses claims based on discriminatory intent, a violation can "be established by proof of discriminatory results alone." *Chisom v. Roemer*, 501 U.S. 380, 394 n.21, 404 (1991); *see also, e.g., Veasey v. Abbott*, 830 F.3d 216, 243 (5th Cir. 2016) (en banc). Section 2 prohibits vote dilution, such as the use of redistricting plans that "minimize or cancel out the voting strength of racial [minorities in] the voting population." *Thornburg v. Gingles*, 478 U.S. 30, 47 (1986) (internal citations and quotation marks omitted).

In *Gingles*, the Supreme Court set out three preconditions to a vote dilution claim. *See, e.g., Abbott v. Perez*, 138 S. Ct. 2305, 2330-31 (2018). “First, the minority group must be able to demonstrate that it is sufficiently large and geographically compact to constitute a majority in a single-member district.” *Gingles*, 478 U.S. at 50; *see also* MTD Order at 31 & n.20 (requiring that “the minority group must be able to constitute a majority by CVAP . . . in the proposed district” and must be “culturally compact”). “Second, the minority group must be able to show that it is politically cohesive.” *Gingles*, 478 U.S. at 51; *see also* MTD Order at 33 (requiring this showing in a “proposed district”). “Third, the minority must be able to demonstrate that the white majority votes sufficiently as a bloc to enable it—in the absence of special circumstances, such as the minority candidate running unopposed—usually to defeat the minority’s preferred candidate.” *Gingles*, 478 U.S. at 51 (internal citations omitted); *see also* MTD Order at 33 (requiring this showing in “the *challenged* districting”). If a plaintiff establishes all three preconditions, consideration proceeds to the totality of the circumstances analysis, which incorporates factors enumerated in the Senate Report that accompanied the 1982 Voting Rights Act Amendments (Senate Factors), as well as other relevant evidence. *See Perez*, 138 S. Ct. at 2331; *Gingles*, 478 U.S. at 36-37 (quoting S. Rep. No. 97-417, at 28-29 (1982)); *see also, e.g., LULAC v. Perry*, 548 U.S. 399, 425-26, 436-41 (2006); MTD Order at 31. Ultimately, a plaintiff must prove that an “alternative to the districting decision at issue would . . . enhance the ability of minority voters to elect the candidates of their choice.” *Perez*, 138 S. Ct. at 2332.

LEGAL STANDARD

“To survive a motion to dismiss, a complaint must contain sufficient factual matter, accepted as true, to state a claim to relief that is plausible on its face.” *Ashcroft v. Iqbal*, 556 U.S. 662, 678 (2009) (cleaned up); *see also Scanlan v. Tex. A&M Univ.*, 343 F.3d 533, 536 (5th

Cir. 2003) (directing district courts to “accept all well-pleaded facts as true, viewing those facts most favorably to the plaintiff”). “[C]ourts must consider the complaint in its entirety, as well as other sources courts ordinarily examine when ruling on Rule 12(b)(6) motions to dismiss, in particular, documents incorporated into the complaint by reference, and matters of which a court may take judicial notice.” *Tellabs, Inc. v. Makor Issues & Rights, Ltd.*, 551 U.S. 308, 322 (2007); *see also Funk v. Stryker Corp.*, 631 F.3d 777, 783 (5th Cir. 2011) (permitting consideration of “publicly-available documents and transcripts”). The motion to dismiss must be denied so long as the “plaintiff pleads factual content that allows the court to draw the reasonable inference that the defendant is liable.” *Iqbal*, 556 U.S. at 678.

ARGUMENT

I. The United States Has Adequately Alleged that the 2021 Congressional Plan Has a Discriminatory Result in Harris County.

The United States has adequately pled that the Harris County Congressional configuration violates Section 2. The United States specifically challenges the creation of a new, majority Anglo Congressional District (CD) 38 in northwest Harris County, rather than a majority Latino CD 38 in southeast Harris County. Am. Compl. ¶¶ 87-108. As alleged in the Amended Complaint, using the most recent U.S. Census data, it is possible to draw an illustrative CD 38* that connects “growing Latino communities on the east and southeast side of Houston and along the Houston Ship Channel,” yielding a 50.8% estimated Latino CVAP concentration and meeting the first *Gingles* precondition. Am. Compl. ¶¶ 104-05.¹ In contested statewide contests including Latino candidates between 2014 and 2020, over 80% of Latino voters in this illustrative CD 38* preferred the same candidates, meeting the second precondition. In those

¹ The United States denotes districts in illustrative plans with an asterisk, *e.g.*, CD 38*.

same contests, less than 20% of Anglo voters in challenged districts overlapping with illustrative CD 38*—CD 2, CD 22, and CD 36—supported the Latino-preferred candidates in these contests, enabling them usually to defeat the minority’s preferred candidate, meeting the third precondition. Am. Compl. ¶¶ 101, 106-07. The Amended Complaint also includes allegations addressing the Senate Factors. Am. Compl. ¶¶ 103, 108, 180-93. Finally, illustrative CD 38* would create a new minority electoral opportunity district without undermining the minority existing opportunity to elect in CD 29, reconfigured in part as illustrative CD 29*. Am. Compl. ¶ 104 & n.5. Therefore, the United States has stated a claim upon which relief can be granted.

A. The *Gingles* Preconditions Do Not Apply to Existing Opportunity Districts.

Texas contends that the United States must also allege that the first and second *Gingles* preconditions are met with respect to the existing Latino opportunity district in Harris County, Tex. Mot. 3-4. In so doing, Texas ignores that the Court has already clarified that the “preconditions are necessary to show that the *Gingles* theory describes *the proposed district*.” MTD Order at 31 (emphasis added); *see also Bartlett v. Strickland*, 556 U.S. 1, 3 (2009) (plurality opinion) (explaining that a “party asserting § 2 liability must show . . . that the minority population in the potential election district is greater than 50 percent”). Section 2 does not require plaintiffs to plead facts establishing the preconditions in an existing opportunity district. Further, because the United States has not alleged that Anglos vote as a bloc to defeat Latino-preferred candidates in enacted CD 29, the third *Gingles* precondition, it makes little sense to require allegations of the first and second preconditions. *See also Bartlett*, 556 U.S. at 14-15 (explaining that the first precondition establishes that “a wrong” can be remedied (quoting *Gingles*, 478 U.S. at 41)); *Gingles*, 478 U.S. at 51 (explaining that the second precondition proves that “an electoral structure thwarts distinctive minority group interests”).

Even if Section 2 results claims required allegations establishing the first two *Gingles* preconditions with respect to adjusted configurations of existing opportunity districts—and they do not—the Amended Complaint meets these requirements. This Court already concluded that the United States’ original complaint established the first precondition with respect to the Harris County claim. MTD Order at 47. The Amended Complaint specifically alleges that the Latino community in “Harris County is sufficiently large and geographically compact to constitute a majority in a second single-member district.” Am. Compl. ¶ 104. The substantial Latino CVAP majority in enacted CD 29, the map of illustrative CD 29*, and the Latino CVAP concentrations in the enacted districts from which illustrative CD 29* draws population are enough to confirm that illustrative CD 29* retains its Latino CVAP majority. *See* MTD Order at 47 (addressing data from common geography); TMF MTD Order at 5, ECF No. 468 (same); Am. Compl. ¶¶ 93-98, tbl. 3, & fig. 10; Tex. Mot. 1 (CVAP); *see also, e.g., Lujan v. Defenders of Wildlife*, 504 U.S. 555, 561 (1992) (“At the pleading stage, general factual allegations of injury resulting from the defendant’s conduct may suffice, for on a motion to dismiss we presume that general allegations embrace those specific facts that are necessary to support the claim.” (cleaned up)).²

Contrary to the State’s assertion, Tex. Mot. 4-5, illustrative CD 29* is also a reasonably compact district, situated entirely within Harris County. *See* Am. Compl. ¶ 104 & n.5, fig.10. The configuration is a far cry from the district deemed non-compact in *LULAC v. Perry*, which joined “Austin and Mexican-border communities,” crossing “enormous geographical distance” to

² Similarly, though attempts to craft an opportunity district may have ripple effects, *see Perez*, 138 S. Ct. at 2332 (addressing circumstances where it is “not possible to [craft] more than one performing Latino district”); *cf. Harding v. Cnty. of Dallas*, 948 F.3d 302, 309 (5th Cir. 2020) (rejecting plan that would “lessen the potential for . . . voters to elect a second county commissioner”), the United States has alleged that eliminating vote dilution in southeast Harris County does not undermine the existing opportunity in CD 29. Am. Compl. ¶ 104 & n.5.

join areas with distinct cultures and needs. 548 U.S. at 435. Many features of which the State complains—connecting the Greater Fifth Ward, the Second Ward, and Aldine—are retained elements of enacted CD 29. *See* Am. Compl. figs. 9-10. Adding adjacent “growing Latino communities” still within Harris County—in effect substituting Latino neighborhoods outside of Loop 610 to the west for those to the east, Am. Compl. ¶ 104 n.5, figs. 9-10—does not undermine cultural compactness. *See Robinson v. Ardoin*, 37 F.4th 208, 218-19 (5th Cir. 2022) (affirming cultural compactness between two distinct regions on factors including shared media markets, sports teams, and economic interests), *cert. granted*, No. 21-1596, 2022 WL 2312680 (U.S. June 28, 2022).³ When compared to the last two decades of Harris County and DFW Congressional configurations, illustrative CD 29* is more compact than a number of those districts and is comparable to enacted CD 29. *See* U.S. Compl. figs. 6-9; *see also Jeffers v. Clinton*, 730 F. Supp. 196, 207 (E.D. Ark. 1989) (three-judge court) (comparing illustrative map to “the present apportionment plan”), *aff’d*, 498 U.S. 1019 (1991). Rather, illustrative CD 29* joins communities of interest. *See* Am. Compl. ¶ 104 n.5; *see also, e.g.*, Tex. Educ. Code § 130.182(1) (joining Spring Branch ISD and Katy ISD with Houston ISD in a common community college district); Spring Branch Community Health Center, *Our Locations*, <https://perma.cc/824U-8L9Z> (describing health provider for low-income residents of Spring Branch, West Houston, Katy, and nearby areas). “In some cases members of a racial group [even] in different areas . . . share similar interests and therefore form a compact district if the

³ *See also La Comb v. Growe*, 541 F. Supp. 145, 148 (D. Minn.) (three-judge court) (recognizing “the community of interests that metropolitan residents share”), *aff’d sub nom. Orwoll v. LaComb*, 456 U.S. 966 (1982); Daniel R. Ortiz, *Cultural Compactness*, 105 Mich. L. Rev. First Impressions 48, 50 (2006) (“[*LULAC v. Perry*] suggests that [cultural compactness] applies only across geographically compact subgroups that are themselves geographically dispersed, not within the overall dispersed group.”).

areas are in reasonably close proximity.” *LULAC v. Perry*, 548 U.S. at 435; *see also Kumar v. Frisco ISD*, 476 F. Supp. 3d 439, 494-97 (E.D. Tex. 2020) (finding an illustrative district that joined multiple “concentrations of minorities” to be compact).

Although Texas also argues that Latino voters in illustrative CD 29* are not cohesive, Tex. Mot. 4, the State’s concession that enacted CD 29 is an opportunity district, Tex. Mot. 3, is fatal to the argument. The concession sets adequate Latino cohesion in enacted CD 29 as a baseline, and changes to that district to form illustrative CD 29* should not be presumed to undermine cohesion. Rather, the United States has alleged that “approximately 85% of Latino voters in Harris County voted for the same candidates” in contested statewide elections between Latino and Anglo candidates from 2014 to 2020. Am. Compl. ¶ 100; *cf.* MTD Order at 47 (drawing on overlap between different plans); TMF MTD Order at 5 (same).⁴ Therefore, the United States’ complaint sufficiently alleges Latino cohesion in illustrative CD 29*.

In addition, expert reports served before the instant motion, which this Court may also consider, reinforce the plausible allegation that Illustrative CD 29* does not undermine existing Latino majorities or electoral cohesion.⁵ Illustrative CD 29* has a 50.7% Latino CVAP

⁴ Although Latino cohesion is lower in enacted CD 2 and enacted CD 22, *see* Tex. Mot. 4, neither district overlaps with illustrative CD 29*. *See* Am. Compl. figs. 9-10.

⁵ Particularly where expert reports predate the instant motion, this Court should “take into account documents . . . integral to the claim,” *Meyers v. Textron, Inc.*, 540 F. App’x 408, 409 (5th Cir. 2013), including “sworn expert analysis,” *Barrie v. Intervoice-Brite, Inc.*, 397 F.3d 249, 257-58, *modified and reh’g denied*, 409 F.3d 653 (5th Cir. 2005). *See also, e.g., Chambers v. Time Warner, Inc.*, 282 F.3d 147, 153 (2d Cir. 2002) (permitting consideration of “documents plaintiffs had either in [their] possession or had knowledge of and upon which they relied in bringing suit” (internal quotation marks and citation omitted)); *Diebler v. SanMedica Int’l, LLC*, 488 F. Supp. 3d 169, 179 (D.N.J. 2020) (considering expert reports “[t]o the extent that these expert reports contain factual allegations rather than conclusory statements, opinions, or legal conclusions”); *Carter v. First Nat’l Collection Bureau*, 135 F. Supp. 3d 565, 574 (S.D. Tex. 2015) (relying on an “expert report [that] supports the plausibility of Plaintiff’s contentions” in denying a motion to dismiss). There is no functional distinction between a sworn statement by

concentration, based on the most recent U.S. Census data. *See* Corrected Report of Dr. John Logan at 12-13 & tbl. 1 (May 20, 2022, corrected June 14, 2022) (Ex. 1).⁶ An additional map demonstrates the overlap between the urban cores of enacted CD 29 and illustrative CD 29*, *see id.* at 12 map 1C, and quantitative compactness scores illustrate that illustrative CD 29* is twice as compact as the least compact district in the enacted plan and more compact than others as well. *Id.* at App. 10; Tex. Leg. Council, *Compactness Analysis: Plan C2193*, <https://perma.cc/MHK2-CEJT> (providing comparable perimeter-to-area measurements). Finally, 87% of Latino voters in Illustrative CD 29* preferred the same candidates in contested statewide contests including Latino candidates between 2014 and 2020, establishing that that the Latino community is highly cohesive. Supplemental Report of Dr. Ryan Enos (June 14, 2022) (Ex. 2).

B. Discriminatory Results Claims May Rely on the Latest U.S. Census Data.

The State separately argues that this Court must disregard the United States’ specific allegation that an additional majority-Latino Congressional District may be drawn in Harris County with 50.8% Latino CVAP, Am. Compl. ¶ 105, because the allegation is based on 2016-2020 American Community Survey (ACS) data rather than 2015-2019 data available during the 2021 redistricting process, Tex. Mot. 5-6, but this assertion has no basis in logic or precedent.⁷

an expert witness made prior to a motion to dismiss, *see* Fed. R. Civ. P. 26(b)(2), and “transcripts,” which may be considered, *Funk*, 631 F.3d at 783. Fundamentally, it makes little sense under this Court’s expedited scheduling order to require the United States to replead its allegations with the materials in these reports converted into numbered paragraphs. *See, e.g., Bell Atl. Corp. v. Twombly*, 550 U.S. 544, 555 (2007) (describing the purpose of a complaint as providing “fair notice of what the . . . claim is and the grounds upon which it rests” (alteration in original) (quoting *Conley v. Gibson*, 355 U.S. 41, 47 (1957))).

⁶ Remarkably, the State asserts that “an additional Latino-majority congressional district cannot be created without eliminating the Latino majority in CD29.” Tex. Mot. 4. Dr. Logan’s report establishes that this claim is untrue.

⁷ The ACS is a nationwide survey conducted by the U.S. Census Bureau to provide reliable and timely demographic, social, economic, and housing data. U.S. Census Bureau, *A Compass to*

The results test requires a “practical evaluation of past and present reality,” *Gingles*, 478 U.S. at 65 (quoting S. Rep. No. 97-417, at 30); it does not merely question whether a challenged district was discriminatory at its origin. *Cf. Rogers v. Lodge*, 458 U.S. 613, 616 (1982) (addressing whether a method of election “racially neutral when adopted” was “being *maintained* for invidious purposes” (emphasis in original)). Thus, liability turns on the “best available data before th[e] court,” not the best available data before the legislature at enactment. *Perez v. Pasadena ISD*, 958 F. Supp. 1196, 1228-29 (S.D. Tex. 1997), *aff’d*, 165 F.3d 368 (5th Cir. 1999); *see also Valdespino v. Alamo Heights ISD*, 168 F.3d 848, 853-55 (5th Cir. 1999).⁸ This is particularly the case with ACS citizenship data, which lags in time significantly behind the decennial census. *See, e.g., Benavidez v. Irving ISD*, No. 3:13-cv-87, 2014 WL 4055366, at *2, *15 (N.D. Tex. Aug. 15, 2014) (relying on “two sets of pooled five-year data—the 2007-2011 five year ACS data and the 2008-2012 five-year ACS data” not available during challenged 2012 redistricting); *see also Perez v. Abbott*, 274 F. Supp. 3d 624, 638 n.19 (W.D. Tex. 2017) (three-judge court) (“[E]vidence that best reflects the population at the time of redistricting should be considered to determine whether vote dilution resulted from the districting plans, regardless of whether the evidence or data was available to the Legislature at the time of redistricting.”), *rev’d on other grounds*, 138 S. Ct. 2305 (2018). As a result, courts typically apply the most recent

Understanding and Using American Community Survey Data iv (2009), <https://perma.cc/EYS8-XLXU>. The annual ACS release includes five-year and one-year period estimates of citizen voting-age population, *see* U.S. Census Bureau, *Citizen Voting Age Population by Race and Ethnicity* (2022), <https://perma.cc/T2D8-PQYP>, in contrast to the point estimates of population and voting age population in the decennial census, *see A Compass to Understanding* at 3.

⁸ This is a necessity in the quintessential Section 2 results claim: a vote dilution challenge to a longstanding at-large election scheme. *See, e.g., Westwego Citizens for Better Gov’t v. City of Westwego*, 906 F.2d 1042, 1046 (5th Cir. 1990) (permitting consideration of current “[m]inority voting age population data” and “minority voter registration data”).

available ACS data when addressing the first *Gingles* precondition. *See, e.g., Rodriguez v. Harris Cnty.*, 964 F. Supp. 2d 686, 732-33 (S.D. Tex. 2013), *aff'd sub nom. Gonzalez v. Harris Cnty.*, 601 F. App'x 255 (5th Cir. 2015); *Perez v. Abbott*, No. 5:11-cv-360, 2017 WL 962686, at *166 (W.D. Tex. Mar. 10, 2017) (three-judge court); *see also Perez v. Abbott*, 253 F. Supp. 3d 864, 920 (W.D. Tex. 2017) (three-judge court) (“[P]arties may use non-census data . . . to prove that the CVAP is sufficiently changed from . . . data used at redistricting.”).⁹

Ignoring this binding precedent, Texas attempts to fix population statistics across the decade by shoehorning one-person, one-vote jurisprudence into a Section 2 results claim. Tex. Mot. 5-6. In any case, the analogy does not hold. Malapportionment claims are constitutional and therefore rest in part on subjective considerations of lawmakers, *see, e.g., Harris v. Ariz. Independent Redistricting Comm’n*, 578 U.S. 253, 259 (2016), whereas the Section 2 results test at issue here is principally based on current considerations, even including elections conducted after enactment under a challenged plan. *See, e.g., Gingles*, 478 U.S. at 58-61. Moreover, Congressional redistricting requires population equality, and the decennial Census is the only actual enumeration of population at the requisite level of detail, making it the “best population data available.” *Karcher v. Daggett*, 462 U.S. 725, 731-34 (1983). In contrast, the first *Gingles* precondition may rely on ACS data released on an annual basis. Moreover, the most accurate local data are five-year ACS estimates, which incorporate older data at the time of release. *See*

⁹ *See also, e.g., Kumar*, 476 F. Supp. 3d at 478; *Harding v. Cnty. of Dallas*, 336 F. Supp. 3d 677, 689-90 (N.D. Tex. 2018), *aff'd*, 948 F.3d 302 (5th Cir. 2020); *Patiño v. City of Pasadena*, 230 F. Supp. 3d 667, 687 (S.D. Tex. 2017); *Cisneros v. Pasadena ISD*, No. 4:12-cv-2579, 2014 WL 1668500, at *5 (S.D. Tex. Apr. 25, 2014); *Fabela v. City of Farmers Branch*, No. 3:10-cv-1425, 2012 WL 3135545, at *4 (N.D. Tex. Aug. 2, 2012).

Dep't of Commerce v. New York, 139 S. Ct. 2551, 2562 (2019).¹⁰ Ultimately, no factfinder has ever rejected the most recent, reliable data when assessing the first *Gingles* precondition.¹¹

II. The United States Has Adequately Alleged that the 2021 House Plan Has a Discriminatory Result in South Texas.

The United States has also adequately pled that House District (HD) 31 in South Texas violates Section 2 by unnecessarily eliminating a Latino electoral opportunity. Am. Compl. ¶¶ 138-55. Using the most recent U.S. Census data, it is possible to draw an illustrative HD 31* that “combines rural South Texas counties into a compact district” with a Latino CVAP concentration of 79.7%, meeting the first *Gingles* precondition. Am. Compl. ¶¶ 151-52. 80% of Latino voters in illustrative HD 31* preferred the same candidates in contested statewide elections including Latino candidates between 2014 and 2020, meeting the second precondition. Am. Compl. ¶ 153. In those same contests, less than 10% of Anglo voters in enacted HD 31 supported the Latino-preferred candidates, enabling these higher turnout voters usually to defeat the minority’s preferred candidate and meeting the third precondition. Am. Compl. ¶ 148. The Amended Complaint also sets out statewide and localized Senate Factor allegations, Am. Compl. ¶¶ 103, 155, 180-193, and illustrative HD 31* would create a new minority electoral opportunity district, Am. Compl. ¶ 154. Again, the United States has stated a claim.

¹⁰ See also *A Compass to Understanding* at 3, 7-8, 11-2.

¹¹ Reliance on the most recent ACS data also will not require “constant redistricting.” Tex. Mot. 6 n.2 (quoting *LULAC v. Perry*, 548 U.S. at 421). Section 2 only requires jurisdictions to draw minority opportunity districts where the *Gingles* preconditions are present and the current plan gives minority voters “less opportunity than other members of the electorate to participate in the political process and to elect representatives of their choice,” under the “totality of circumstances.” 52 U.S.C. § 10301(b). Here, Texas ignored proposals to craft a second opportunity district for Latino voters in Harris County, despite population growth, persistent findings of racial polarization, underrepresentation, and other Senate Factor evidence. Am. Compl. ¶¶ 94, 102-03, 108, 181-93; see also *Rodriguez*, 964 F. Supp. 2d at 754-77 (polarization).

A. The State Cannot Undermine the South Texas Claim with Allegations Concerning Future Elections.

The Voting Rights Act claim here addresses minority voters' opportunity to elect preferred candidates under a challenged redistricting plan, not the likely outcome of a single contest. *See, e.g., Gingles*, 478 U.S. at 57 (“[L]oss of political power through vote dilution is distinct from the mere inability to win a particular election.” (citing *Whitcomb v. Chavis*, 403 U.S. 124, 153 (1971))). Texas attempts to undermine the relevant allegations through prospective speculation regarding the upcoming 2022 election, which is both improper and unsupported. The State cannot know whether the incumbent, Representative Ryan Guillen, will be the Latino candidate of choice next November merely because he was the candidate of choice prior to changing parties post-redistricting and running on a different party platform. *See* Tex. Mot. 7-8; *see also, e.g.,* Tex. H.J., 87th Leg., Reg. Sess. 2721 (2021), <https://perma.cc/L6KW-ZQJ5> (voting against ban on “critical race theory”); Tex. H.J., 82d Leg., Reg. Sess. 1039 (2011), <https://perma.cc/EC6B-SBFJ> (voting against photographic voter ID requirements). The State also cannot know whether “Guillen is poised to be re-elected in the Fall” merely because he narrowly escaped a Republican primary run-off. Tex. Mot. 7. The United States has made sufficient allegations concerning facts that can be known to support its claim.¹²

¹² To the extent that Guillen is reelected as a Latino candidate of choice, the contest would occur under quintessential “special circumstances” that discount its relevance. *Gingles*, 478 U.S. at 51. The reelection of a twenty-year incumbent who has switched parties, Am. Compl. ¶¶ 138, 141, 149, received new endorsements and massive contributions from prominent Anglo politicians, *see, e.g.,* TransparencyUSA, *Ryan Guillen*, <https://perma.cc/89V4-WTRC> (noting \$137,400 in donations from Speaker Phelan), and deterred donations to his Democratic challenger, *see, e.g.,* TransparencyUSA, *Texas House of Representatives District 31*, <https://perma.cc/H3SN-W2GZ> (noting over \$1,100,000 in campaign spending), says little about the “usual predictability” of the Latino community’s opportunity to elect its preferred candidate in enacted House District 31. *See Gingles*, 478 U.S. at 51, 57 (including “the absence of an opponent” and “incumbency” as factors favoring a finding of special circumstances); *id.* at 76 (discounting an “election that occurred after the instant lawsuit had been filed”); *see also LULAC v. Perry*, 548 U.S. at 434

B. Cohesion Allegations May Rest on only the Most Relevant Elections.

The State also contends that the United States has failed to plead the second *Gingles* precondition regarding HD 31, Tex. Mot. 8-9, despite detailed allegations concerning the most relevant elections. The allegation of minority cohesion rests on elections in which Latino voters have the opportunity to vote for Latino candidates. Am. Compl. ¶¶ 142, 147, 153. Texas argues that the second precondition requires an examination of all elections to assess Latino political cohesion, Tex. Mot. 9, but that is not the law. When assessing minority cohesion, “the most probative elections are generally those in which a minority candidate runs against a white candidate.” *Magnolia Bar Ass’n, Inc. v. Lee*, 994 F.2d 1143, 1149 (5th Cir. 1993).¹³ In fact, *Gingles* relied only on interracial contests to determine whether minority voters were cohesive. *See* 478 U.S. at 80-82. To prove the second *Gingles* precondition, there is no need for the United States to rely upon cohesion in contests solely between Anglo candidates, let alone to prove cohesion in those contests as a separate matter, as the State suggests. Tex. Mot. 9.

Nor does the fact that the 2022 general election in HD 31 will feature two Latino candidates change the legal framework. Tex. Mot. 9. And as a factual matter, analysis of “contests including Latino candidates,” Am. Compl. ¶¶ 147, 153, is not perforce limited “to elections in which a Latino candidate runs against a non-Latino candidate.” Tex. Mot. 8. It makes little sense to require analysis of races between non-Latino candidates to prove that Latino voters are cohesive in races between Latino candidates. *See* Tex. Mot. 7-8.

(noting that a reconfigured district “could make it more difficult for thinly financed Latino-preferred candidates to achieve electoral success and to provide adequate and responsive representation once elected” (internal citation and quotation marks omitted)).

¹³ *See also, e.g., LULAC v. Clements*, 999 F.2d 831, 864 (5th Cir. 1993) (en banc); *Westwego Citizens for Better Gov’t v. City of Westwego*, 946 F.2d 1109, 1119 n.15 (5th Cir. 1991); *Campos v. City of Baytown*, 840 F.2d 1240, 1245 (5th Cir. 1988); *Citizens for a Better Gretna v. City of Gretna*, 834 F.2d 496, 503 (5th Cir. 1987).

C. The United States Need Not Offer Detailed Allegations Concerning Unchallenged Districts that Do Not Provide Minority Electoral Opportunities.

The United States has alleged that enacted HD 43—another South Texas district east of HD 31—is not a Latino opportunity district in the enacted plan, and HD 43* continues not to be a Latino opportunity district in the United States’ illustrative plan. Am. Compl. ¶ 49 n.8. The State argues that the United States makes an “assumption” to this effect, Tex. Mot. 9, but this fundamentally misunderstands the function of a motion to dismiss. *See, e.g., Scanlan*, 343 F.3d at 536 (“The district court can grant a motion to dismiss only if it appears beyond doubt that the plaintiff can prove no set of facts in support of his claim that would entitle him to relief.”).

Texas may attempt to prove that enacted HD 43 is a Latino opportunity district as a defense at trial, but it may not simply assert that to be the case here. Moreover, it is far from implausible that enacted HD 43, in which Latino voters make up less than 50% of voters who cast ballots even in high-turnout elections, does not provide Latino voters with the opportunity to elect their preferred candidates. *See* Tex. Leg. Council, *Hispanic Population Profile: Plan H2316*, <https://perma.cc/E5BA-BT3E> (46.9% Spanish Surname Turnout in November 2020). This is particularly true given the extreme level of Anglo bloc voting in South Texas, including in the portion of enacted HD 43 moved into illustrative HD 31*. *See* Am. Compl. ¶¶ 148, 154.

In fact, an expert report served long before the instant motion to dismiss confirms that enacted HD 43 is not a Latino opportunity district. *See* Report of Dr. Ryan Enos ¶ 44 (May 20, 2022) (Ex. 3). Although more than 80% of Latino voters in enacted HD 43 preferred the same candidates in contested statewide elections, including Latino candidates between 2014 and 2020, less than 10% of Anglo voters supported the Latino-preferred candidates in these contests. *See id.* at 32 tbl. A9. As a result, the Latino-preferred candidate was defeated within the district in each such election. *See id.* at 19 tbl. 4. Moreover, in HD 43 prior to the 2021 redistricting—

which consisted of four of the six counties that make up enacted HD 43—incumbent Representative J.M. Lozano was not the Latino candidate of choice in any contested elections between 2014 and 2020. *See id.* at 32 tbl. A9; *see also* Tex. Leg. Council, *Plan H2316 Comparison to Plan H2100*, <https://perma.cc/S56D-JG75> (illustrating overlap). Rather, Lozano won his elections on nearly uniform support among Anglo voters. *See* Enos Rep. at 32 tbl. A9.¹⁴

In sum, changes to HD 43 that restore Latino electoral opportunity in HD 31 do not eliminate an existing Latino electoral opportunity. *Cf. Perez*, 138 S. Ct. at 2332. Once again, “[a]t the pleading stage, general factual allegations of injury” are sufficient insofar as they may “embrace . . . specific facts,” *Lujan*, 504 U.S. at 561 (cleaned up), and plaintiffs need not allege facts to rebut potential defenses, *see, e.g., Gomez v. Toledo*, 446 U.S. 635, 640-41 (1980).

III. The United States Has Adequately Alleged that the 2021 House Plan Has a Discriminatory Result in El Paso County and West Texas.

The United States has adequately pled that the El Paso and West Texas House configuration violates Section 2. *See* MTD Opinion at 50-52. The United States specifically challenges the removal of a Latino opportunity district from El Paso County and West Texas, which the State achieved by packing and overpopulating the remaining opportunity districts and underpopulating Anglo-controlled seats across West Texas. Am. Compl. ¶¶ 156-79. Using the most recent U.S. Census data, it is possible to draw six illustrative Latino opportunity districts in West Texas with Latino CVAP concentrations above 70%. *See* Am. Compl. ¶ 176 (illustrative HDs 74*, 75*, 77*, 78*, 79* and 81*). Illustrative HDs 75*, 77*, 78*, and 79* are entirely

¹⁴ The State incorrectly asserts that Lozano “has represented HD 43 since 2012.” Tex. Mot. 9. Lozano was first elected in 2010, as a Democrat. *See* Tex. Sec’y of State, *Race Summary Report: 2010 General Election*, <https://perma.cc/7VRZ-5P3H>. Much like Guillen, Lozano changed parties after his district was reconfigured northward, adding high-turnout Anglo voters. *See, e.g.,* Melissa del Bosque, *Portrait of a Party-Switcher*, Tex. Observer, May 14, 2012, <https://perma.cc/75KQ-Y4P3>.

within El Paso County. Am. Compl. ¶ 174 & fig. 22. Illustrative HD 74* retains most of its border counties, while regaining Pecos County and adding neighboring Latino communities in and around Odessa. Am. Compl. ¶ 174, figs. 17, 21. Finally, illustrative HD 81* includes portions of El Paso County and rural counties to the east along the Texas/New Mexico border. Am. Compl. ¶ 175, figs. 21-22. Thus, these reasonably compact districts meet the first *Gingles* precondition. Moreover, over 70% of Latino voters in each illustrative district preferred the same candidates in contested statewide contests including Latino candidates between 2014 and 2020, meeting the second precondition. Am. Compl. 177 & n.10. However, in these same contests, less than 10% of Anglo voters in enacted HD 81 supported the Latino-preferred candidates, meeting the third precondition. Am. Compl. ¶ 172.¹⁵ The Amended Complaint also sets out additional statewide and localized Senate Factor allegations, Am. Compl. ¶¶ 179, 180-193, and the illustrative configuration would restore six Latino opportunity districts to the region. Am. Compl. ¶ 178. Therefore, the United States has stated a claim.¹⁶

A. Reconsideration of this Court's Order Concerning the El Paso Claim Is Unwarranted.

This Court has already concluded that the United States has stated a Section 2 claim concerning the El Paso/West Texas House configuration. MTD Order at 50-52. In effect, the State's challenge to the more detailed allegations in the Amended Complaint, Tex. Mot. 10-14, requests reconsideration of that decision, given the consistent core allegations. *Compare* Compl. ¶¶ 131-46, *with* Am. Compl. ¶¶ 156-79. The United States has not "amend[ed] its theory,

¹⁵ Enacted HD 81 overlaps significantly with illustrative HD 81*. Relevant candidates of choice are those preferred by cohesive minority voters in illustrative HD 81*. *See* MTD Order at 32-33.

¹⁶ The United States does not assert a *Larios* claim. Tex. Mot. 13-14. Rather, overpopulation of minority opportunity districts and underpopulation of Anglo-controlled districts is the mechanism by which Texas diluted minority voting strength. Am. Compl. ¶¶ 156, 164-65.

alleging that House District 81 . . . denies Latinos the opportunity to elect their candidates of choice.” Tex. Mot. 10. The United States alleged the same in its original complaint. *See* Compl. ¶ 145 (“Latino voters . . . in Districts 53 and 81 . . . will not be able to elect their preferred candidates.”); *see also* MTD Order at 52 (“So the United States’ *Gingles* claim really pertains to Hispanic voters in the West Texas counties in HDs 53 and 81 that border HD 74.”).

Reconsideration is unwarranted here.¹⁷ The discretion to grant reconsideration should “be exercised sparingly in order to forestall the perpetual reexamination of orders and the resulting burdens and delays.” *Tolleson v. Livingston*, No. 2:12-cv-201, 2014 WL 1386319, at *2 (S.D. Tex. Apr. 9, 2014). A request for reconsideration should not be employed “to relitigate old issues, to advance new theories, or to secure a rehearing on the merits.” *Fontenot v. Mesa Petroleum Co.*, 791 F.2d 1207, 1219 (5th Cir. 1986). By raising new arguments not addressed in its initial motion concerning cultural compactness, minority cohesion, and Anglo bloc voting, the State lodges a second attack on allegations already deemed sufficient. *Compare* 1st Tex. Mot. 22-24, ECF No. 111, *with* Tex. Mot. 10-14. It is within this Court’s discretion to deny the motion with respect to the El Paso and West Texas House districts on these grounds alone.

B. The Amended Complaint Establishes the *Gingles* Preconditions in HD 81.

In its second motion to dismiss, Texas seeks to undermine allegations concerning the *Gingles* preconditions in HD 81, but the Amended Complaint, reasonable inferences, and other materials on which this Court may rely all firmly establish the prerequisites to Section 2 liability.

¹⁷ Federal Rule of Civil Procedure 54(b) governs a motion for reconsideration of an interlocutory order. *See Austin v. Kroger Tex., L.P.*, 864 F.3d 326, 336 (5th Cir. 2017). Rule 54(b) provides that “any order or other decision . . . that adjudicates fewer than all the claims . . . may be revised at any time before the entry of a judgment.” Fed. R. Civ. P. 54(b). Whether to grant reconsideration under Rule 54(b) is “committed to the discretion of the District Court.” *Austin*, 864 F.3d at 337 (internal quotation marks and citation omitted).

Illustrative HD 81* is a reasonably compact district that combines portions of northeast El Paso County, Hudspeth County, Culberson County, and Reeves County, as in enacted HD 74, before continuing east to additional rural areas “with shared economic interests, including in the oil and gas industry.” Am. Compl. ¶¶ 174-75, figs. 19-22. The State asserts that the portion of El Paso County within illustrative HD 81* “suggests that the United States added the sliver in El Paso for the sole purpose of picking up Hispanic voters.” Tex. Mot. 10. This is incorrect. First, El Paso County provides more than half of HD 81*’s population, not a few scattered voters.¹⁸ Second, the configuration in the El Paso portion of illustrative HD 81* prevents the pairing of an incumbent living near the intersection of I-10 and Loop 375. *See* Logan Rep. ¶ 23. Making sure incumbents were not paired has been listed as a redistricting priority for the State, but the enacted House plan paired returning Latina incumbents in El Paso County. *See* Am. Compl. ¶ 156. It is also not necessary to plead the location of “a major refinery” or the share of residents in a “small portion” of the district who work in a common industry, Tex. Mot. 10-12, to establish that residents of El Paso County and nearby counties are culturally compact. *See, e.g., Iqbal*, 556 U.S. at 678 (cautioning against requiring “detailed factual allegations”).

For the reasons already discussed, this Court should also reject the State’s contention that allegations concerning “contests including Latino candidates” are insufficient to establish minority cohesion or Anglo bloc voting. Tex. Mot. 12; *see also* Section II.B, *supra*. The State

¹⁸ Enacted HD 74 also includes a portion of El Paso County, including portions of the City of El Paso, *see* Am. Compl. fig. 20, but because the United States’ illustrative plan does not uniformly overpopulate the four districts wholly within El Paso County, illustrative HD 81* includes substantially more of El Paso County than enacted HD 74 does. Specifically, illustrative HD 81* includes 117,446 El Paso County residents, *see* Logan Rep. tbl. 3 (HD 81* and other districts wholly within El Paso County); U.S. Census Bureau, *QuickFacts: El Paso County, Texas*, <https://perma.cc/8E9P-RTTZ> (total population), whereas enacted HD 74 contains only 56,066 El Paso County residents, *see* Tex. Leg. Council, *District Population Analysis with County Subtotals: Plan H2316*, at 12, <https://perma.cc/LX93-FW29>.

provides no support for the notion that plaintiffs must analyze contests solely between Anglo candidates. While such contests may be considered, they are not a necessary component of a Section 2 claim. *See, e.g., LULAC v. Clements*, 999 F.2d at 864.

Finally, the infrequency of minority candidates in the former and enacted configurations of HD 81 does not undercut the United States' allegation that the Latino preferred candidate will usually be defeated by Anglo bloc voting. Tex. Mot. 12-14. If anything, it is evidence that Latino voters lack the opportunity to elect their candidates of choice. In 2018, the minority candidate who ran in former HD 81 was defeated despite cohesive Latino support. Am. Compl. ¶ 170.¹⁹ Sophisticated candidates are unlikely to run again after such a defeat. *See, e.g., McMillan v. Escambia Cnty.*, 748 F.2d 1037, 1045 (Former 5th Cir. 1984) (“[T]he lack of black candidates is a likely result of a racially discriminatory system.”); *see also Westwego Citizens for Better Gov't v. City of Westwego*, 872 F.2d 1201, 1207-10 (5th Cir. 1989) (holding that plaintiffs could prove a Section 2 violation even when “there have been no black candidates”). And it cannot be that the absence of a Latino challenger only in 2022 forecloses a vote dilution claim, as the State suggests. *See, e.g., Gingles*, 478 U.S. at 57 n.25 (“Where a minority group has never been able to sponsor a candidate, courts must rely on other factors that tend to prove unequal access to the electoral process.”).²⁰

CONCLUSION

For the foregoing reasons, Texas's motion to dismiss should be denied.

¹⁹ That highly probative contest cannot be excluded as occurring under “special circumstances.” Tex. Mot. 13. Under *Gingles*, special circumstances occur in contests where minority candidates succeed based on “running unopposed,” “incumbency,” or “lack of opposition,” not those where they are defeated due to Anglo bloc voting. 478 U.S. at 51, 54, 57.

²⁰ Nor should this Court apply a heightened burden to prove polarization in this district, where Latino voters make up only 43.7% of registered voters and only 36.5% of voters who cast ballots in November 2020. *See Hispanic Population Profile: Plan H2316, supra*.

Date: July 25, 2022

JOHNATHAN SMITH
Acting Principal Deputy Assistant Attorney General
Civil Rights Division

REBECCA B. BOND
Acting Deputy Assistant Attorney General
Civil Rights Division

/s/ Daniel J. Freeman

T. CHRISTIAN HERREN, JR.
TIMOTHY F. MELLETT
DANIEL J. FREEMAN
JANIE ALLISON (JAYE) SITTON
MICHELLE RUPP
JACKI L. ANDERSON
JASMIN LOTT
HOLLY F.B. BERLIN
Attorneys, Voting Section
Civil Rights Division
U.S. Department of Justice
950 Pennsylvania Avenue NW
Washington, D.C. 20530
(800) 253-3931
daniel.freeman@usdoj.gov

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CERTIFICATE OF SERVICE

I hereby certify that on July 25, 2022, I electronically filed the foregoing with the Clerk of the court using the CM/ECF system, which will send notification of this filing to counsel of record.

/s/ Daniel J. Freeman

Daniel J. Freeman
Civil Rights Division
U.S. Department of Justice
950 Pennsylvania Ave, NW
Washington, DC 20530
(202) 305-4355
daniel.freeman@usdoj.gov

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EXHIBIT

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Corrected Expert Report

John R. Logan, Ph.D.

League of United Latin American Citizens (LULAC), et al. v. Greg Abbott, et al.

United States District Court for the Western District of Texas, El Paso Division

Civil Action No. 3:21-cv-299

I. Introduction

1. I have been retained as an expert by counsel for the United States in the above captioned litigation. I have prepared this report pursuant to Federal Rule of Civil Procedure 26(a)(2)(B). I have been asked to analyze the population composition of Congressional and State House Districts in several areas of Texas and suggest possible revisions in several instances. In order to accomplish this task, I refined and implemented a method for estimating citizen voting-age population in electoral districts in Texas using data from the American Community Survey and Census 2020. I have also been asked to evaluate the extent of socioeconomic disparities between racial and ethnic groups in areas of Texas.

II. Professional Qualifications

2. I earned my BA degree in Social Science from the University of California, Berkeley in 1968, MA in Sociology from Columbia University in 1969, and PhD in Sociology from the University of California, Berkeley in 1974. I am a sociologist, specializing in urban sociology, political sociology, and social demography. Urban sociology includes research on the spatial structure of urban areas (including patterns of segregation by race, ethnicity, and social class); disparities across neighborhoods along such dimensions as schools, policing, health, and

political influence; local politics and public policy that influence how local areas develop and change over time; and the social connections and networks among residents. Political sociology deals with patterns of power, influence, and political participation both within the U.S. and across the globe, often linking political processes to socioeconomic cleavages within communities and nations. Social demography deals with a wide range of population processes, and I have worked mainly in the areas of race and ethnicity, migration and immigration, and population distribution.

3. I have taught undergraduate and graduate courses in all of these areas since 1972. I have also developed competence and taught courses in quantitative research methods and spatial analysis. At the University at Albany (1980-2004), I was jointly appointed as a tenured professor in the Departments of Sociology and Public Administration and Policy, and I was appointed as a SUNY-wide Distinguished Professor in 2000. At Brown University (2004-present), I am Professor of Sociology with tenure, and until 2016 I served as the founding director of the research initiative on Spatial Structures in the Social Sciences.

4. I have served as Vice President of the American Sociological Association (“ASA”), as Chair of the Community and Urban Sociology Section of the ASA, and as President of the Research Committee on Urban and Regional Development of the International Sociological Association. I have been honored with three book awards from the ASA: the Robert E. Park Award (1988), the Award for a Distinguished Scholarly Publication (1990), and the William J. Goode Award (1997). I also received the Robert and Helen Lynd Lifetime Achievement Award (2008).

5. I am recognized as a leading international scholar on topics that are relevant to this case, including residential segregation and neighborhood disparities that affect racial and ethnic

minorities and immigrants, measuring disparities in socioeconomic characteristics of group members, estimating area characteristics using published census data, applying Geographic Information Systems (GIS) methods to the analysis of spatial data, and evaluating demographic and public policy factors that affect minority political participation and representation. My scholarly publications have been cited by other researchers more than 36,000 times, and my reports based on analyses of census data have been the basis of many articles in major U.S. news media. I was the director of a multidisciplinary project funded by the Russell Sage Foundation to examine social, economic, and political changes in American society revealed by the 2010 Census. I direct projects at Brown University that provide estimates of census tract population data from 1970 through 2020 within constant 2010 census tract boundaries (downloaded more than 10,000 times by a wide variety of researchers, public agencies, and non-profit organizations), as well as measures of residential segregation from 1980 through 2020 for metropolitan areas and cities that are also widely used.

6. Exhibit 1 to this report is a curriculum vitae setting forth my professional background, which includes a list of all publications that I have authored. These include two books, seven edited books and special issues of professional journals, and over 220 peer-reviewed journal articles and book chapters. My research on dealing with changing census administrative boundaries and varying sample sizes in census data over time prepares me for the estimation approaches that I use in this report. Relevant recent articles were published in *The Professional Geographer* (2014), *Annals of the American Association of Geographers* (2016), *American Journal of Sociology* (2018), *Geographical Analysis* (2020), *Demography* (2020), and *Applied Geography* (2021). My articles on the relationship between socioeconomic characteristics of persons in different racial/ethnic groups and their voter registration and

turnout are especially relevant to my analysis of socioeconomic disparities. These include *Journal of Ethnic and Migration Studies* (2009), *Journal of Ethnic and Migration Studies* (2012), *Social Forces* (2012), and *Sociological Perspectives* (2021).

III. Compensation

7. I am being compensated \$300 per hour for my work in connection with this litigation.

My compensation is unaffected by the opinion and conclusions that I reach.

IV. Other Expert Testimony Given in Last 10 Years

8. I have mainly served as an expert in legal cases involving disparate impacts of public policy decisions, particularly related to housing and community development. In one earlier case (*Wallace v. Blanco*, No. 05-cv-5519, Eastern District of Louisiana), I provided an expert report and testimony on the demographic characteristics of persons who were displaced by Hurricane Katrina, which could be an obstacle to their participation in local elections in 2006. In a more recent federal voting rights case in 2019, I provided an expert report and testimony on the extent to which members of the Latino community in Islip, New York, bear the effects of discrimination in areas such as education, employment, and health, which hinder their ability to participate effectively in the political process (*Flores v. Town of Islip*, No. 2:18-cv-3549, Eastern District of New York).

9. I provided an expert report and deposition in *Fair Housing in Huntington Committee v. Town of Huntington*, No. 11-cv-1298, Eastern District of New York. I provided an expert report in *United States ex rel. Lockett v. City of Dallas*, No. 3:11-cv-3554, Northern District of Texas. I provided an expert report in an Administrative Complaint to the U.S. Department of Housing and Urban Development in *BNI, Inc. v. Baltimore County*, 2013.

V. Materials Relied on and Methodology

10. For the purpose of evaluating the composition of enacted and alternative illustrative districts, I relied on several resources. As described in more detail in Appendix A, I estimated the number of voting-age citizens in every census block in Texas using 1) the PL-94 block-level counts of population by race and Hispanic origin from Census 2020 and 2) the group-specific census tract estimates of the number of voting-age persons (VAP) and voting-age citizens (CVAP) from the five-year American Community Survey (ACS) for 2016-2020. For final estimates of CVAP percentage, I applied standard racial/ethnic categories: Hispanic (any race), non-Hispanic white (referred to in this report as “white”), and non-Hispanic black (black alone or in combination with any other race, referred to in this report as “black”). For each group, I applied the ACS tract-level estimates of the share of citizens among the voting age population to the actual counts of voting-age persons in every block that lies within that tract (HCVAP or BCVAP percentage).

11. In some cases my analysis is based on the current enacted plans or prior plans for Congressional and State House Districts. For reference, these maps are reproduced below. In three cases I propose an alternative set of boundaries to demonstrate the feasibility of providing minority voters with an opportunity to elect a candidate of their choice in Congressional Districts (the case of the Houston and San Antonio/El Paso Congressional Districts) and in State House Districts (the case of El Paso/West Texas State House Districts). Illustrative maps for these plans are also provided below.

12. In developing illustrative plans, I used GIS maps – including 2020 block, tract, precinct, and county boundaries, and location of major roads – downloadable from the Census Bureau or the national Historical GIS Project (<https://www.nhgis.org/gis-files>). I geocoded

addresses of Congressional and State House incumbents provided by Department of Justice staff. I also used prior, current enacted, and alternative districting plans available from the Texas State Capitol Data Portal. I used open source GIS software (QGIS) and a related open source redistricting program (Statto Software Redistricter, available at <https://plugins.qgis.org/plugins/qgis3redistricter-master/>) to keep track of the assignment of blocks to districts, and I used the commercial ArcMap program from ESRI to create the final versions of the illustrative maps.

13. I followed what I understand to be traditional redistricting principles:

- a) I deferred as much as possible to the current enacted plans, presuming that they take into account a local understanding of communities of interest based on such dimensions as urban/rural, coastal/interior, inner city/suburb, and important political and administrative areas. I limited my attention insofar as possible to the specific areas of interest in this case, and I did not recommend changes in adjacent outlying areas.
- b) Insofar as possible I defined Congressional Districts (CDs) based on whole precincts and State House Districts based on whole counties and (in West Texas) whole Voting Tabulation Districts (VTDs). Precincts are defined by county governments. VTDs are mostly based on precincts, but are defined by the Census Bureau to be aligned with census administrative areas. In some cases where a precinct is divided by a major road, I used the road instead of the precinct boundary to define the boundary of the district. In order to equalize populations, in CDs, it was also sometimes necessary to divide precincts along the CD boundaries based on where blocks with the requisite populations could be found.

c) I equalized populations in Congressional Districts, which required dividing some precincts into different CDs. I maintained a deviation within 5% of equal population sizes for State House Districts.

d) I sought to avoid narrow bridges connecting different portions of districts, keeping in mind the criterion of compactness.

e) Where possible I made use of major roadways as boundaries. In a small number of cases I split precincts that are divided by a major highway into different districts.

f) Outside of major city centers the population tends to be clustered in smaller suburbs and towns. I gave preference to keeping these communities wholly within the same district, because they often represent separate political units and communities of interest. When I divided them I sought to use a major highway or other topographical feature as a dividing line.

g) I took into account the racial/ethnic composition of the citizen voting-age population as I made choices about districting. I did this for two reasons: 1) African Americans and Hispanics are highly clustered in both urban and rural areas, and these clusters constitute important and longstanding communities of interest based on shared racial/ethnic identities and to a large extent also on common socioeconomic position, and 2) effective minority political representation is enhanced in districts where groups have a larger presence in the pool of eligible voters.

h) I was attentive to the home addresses of incumbents, and I sought to avoid including two incumbents in the same CD. In the Houston area this is difficult because several Congressional Representatives reside within a fairly narrow zone of the City of Houston. The current enacted Plan C2193 places Representatives Lee and Crenshaw in the same CD. My illustrative plan places Representatives Fletcher and Crenshaw in the same CD. In El Paso, the current enacted Plan H2316 places State Representatives Ordaz Perez and Ortega in the same district. In the

illustrative plan, Representatives Ordaz Perez and Fierro are in the same district, though I note that Representative Fierro lost in the March 2022 primary to Representative Ordaz Perez.

i) I did not analyze political party registration or partisan voting patterns in creating districts.

14. For the purpose of assessing socioeconomic disparities between whites, blacks, and Hispanics, I relied mainly on the 2015-2019 ACS Public Use Microdata Sample (“PUMS”). These microdata include a 5% sample of the population cumulated over a five-year period. I do not rely on the more recent 2016-2020 ACS microdata. Analyzing ACS microdata requires using person weights that the Census Bureau describes for 2020 as “experimental,” and it recommends not comparing results from ACS 2020 microdata with results from prior years. In contrast, the Census Bureau considers that 2016-2020 tabulations for block groups and larger geographies to be suited for public and government use. These tabulations merge data from all five years using a confidential system to make the 2020 areal tabulations consistent with those from prior years. I use these more recent 2016-2020 ACS tabulations in the estimation of CVAP because it better reflects trends in citizenship for minority groups.

15. The ACS microdata include a variety of standard socioeconomic characteristics including median household income, poverty, unemployment, education level, coverage by health insurance, and English-language ability. The microdata allow me to use the same racial/ethnic categories as in the analysis of CVAP: Hispanic (any race), non-Hispanic white (referred to in this report as “white”), and non-Hispanic black (black alone or in combination with any other race, referred to in this report as “black”). The microdata identify people’s location within the state only in terms of Public Use Microdata Areas (PUMAs), which average 100,000 population. As explained in more detail in Appendix B, I linked PUMAs as closely as

possible to the geographic areas of interest (i.e., counties and legislative districts) for the analyses of socioeconomic disparities.

16. For the analysis of disparities within the counties that are included in HD31, it was not possible to rely on the PUMS microdata because these small counties are not uniquely identifiable with the PUMA geography. For these counties I relied instead on the county-level tables published from ACS 2015-2019. Because HD31 is entirely comprised of whole counties, these data correspond exactly to its boundaries. Because of the small population size of these counties, there is considerable sampling error in the reported data. The black population sample size is especially small, and the tabulations either do not include any reported counts for some variables (e.g., black income and poverty data are omitted except for Wilson County), or the estimated margin of error is very large (e.g., black income per capita is reported as \$7,328 while its margin of error is estimated to be \$8,762). For this reason I only compare the data for non-Hispanic whites and Hispanics in HD31, and I interpret the size and consistent direction of differences between them as evidence of a pattern of disparities rather than as precise estimates.

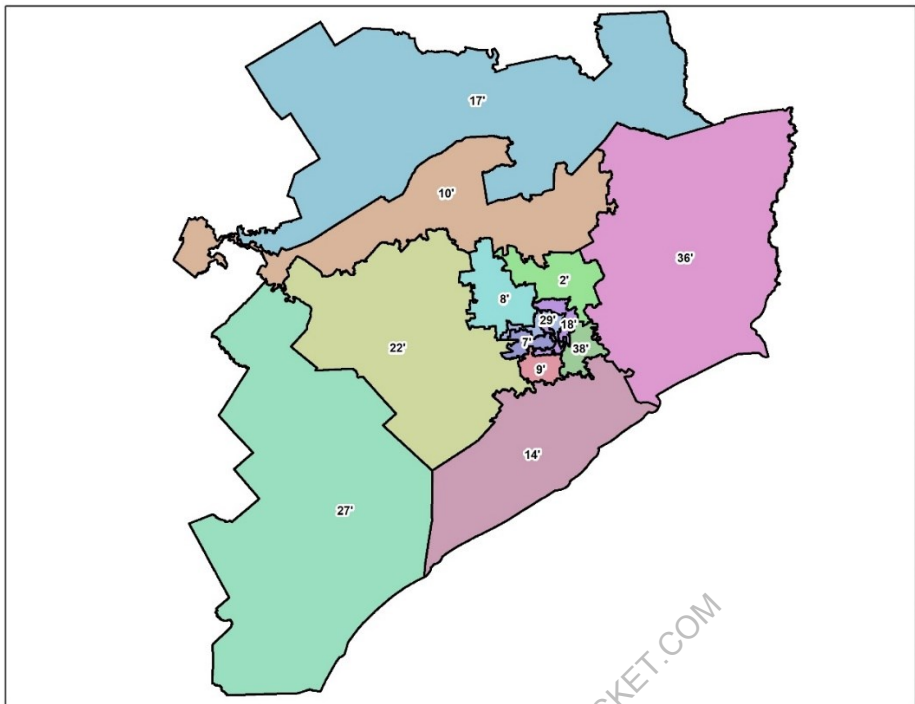
VI. Analysis of Enacted and Alternative District Maps

17. I have been asked to develop illustrative district maps in three areas: Congressional Districts in the Houston area, Congressional Districts in West Texas including the area that is currently CDs 16, 20, and 23, and State House Districts in West Texas in an area including El Paso, Odessa, and Eagle Pass. In the illustrative maps and tables for these areas, I have assigned a district number that corresponds approximately to the district number in the current enacted plan. On illustrative maps the illustrative district numbers include an apostrophe (') to clarify that they do not refer to the current district numbers. I have also been asked to provide information on the composition of the citizen voting-age population (CVAP) in three other areas

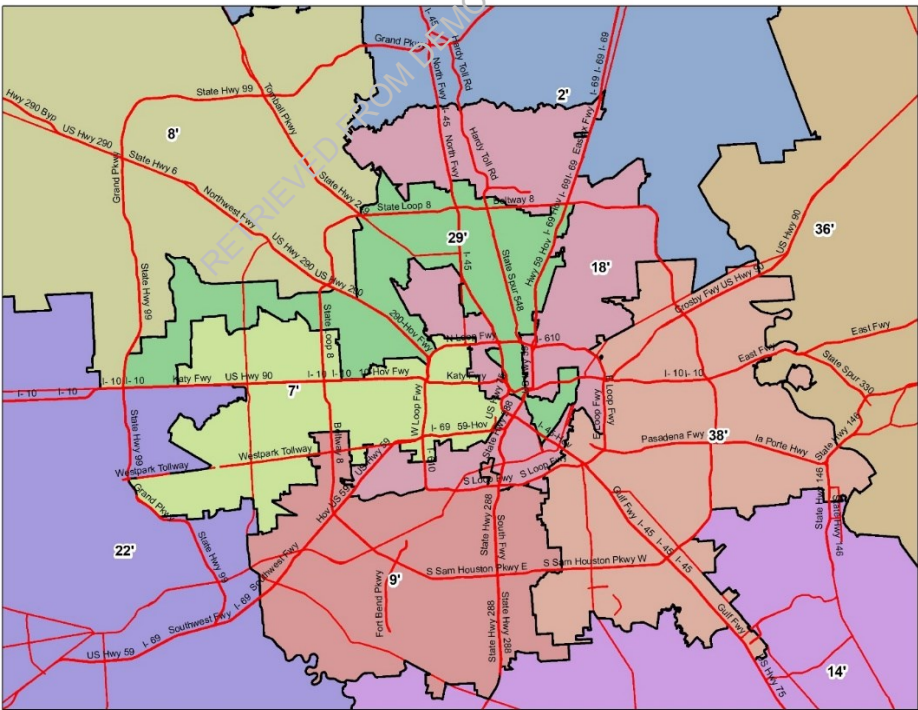
based on prior and current enacted maps and with some potential modifications. One of these is in Dallas-Fort Worth, where I have been asked to analyze 1) the composition of two components of CD6, the small area that reaches into Dallas and Tarrant Counties and the remaining area, and 2) CD24 in the previous and current enacted plans, identifying the composition of areas that were reallocated between these two plans. Another is current HD31 in South Texas, where I have been asked to describe the composition of the district as enacted and as it might be modified by replacing two currently included counties with two different adjacent counties. The third is in Bexar County, where I have been asked to compare the composition of HD118 in plan H2176 (the “committee plan”) and in Plan H2316 (the current enacted plan). This involves describing the composition of areas that were removed from HD118 by the current enacted plan and areas that were added to HD118 in that plan.

Houston Area Congressional Districts

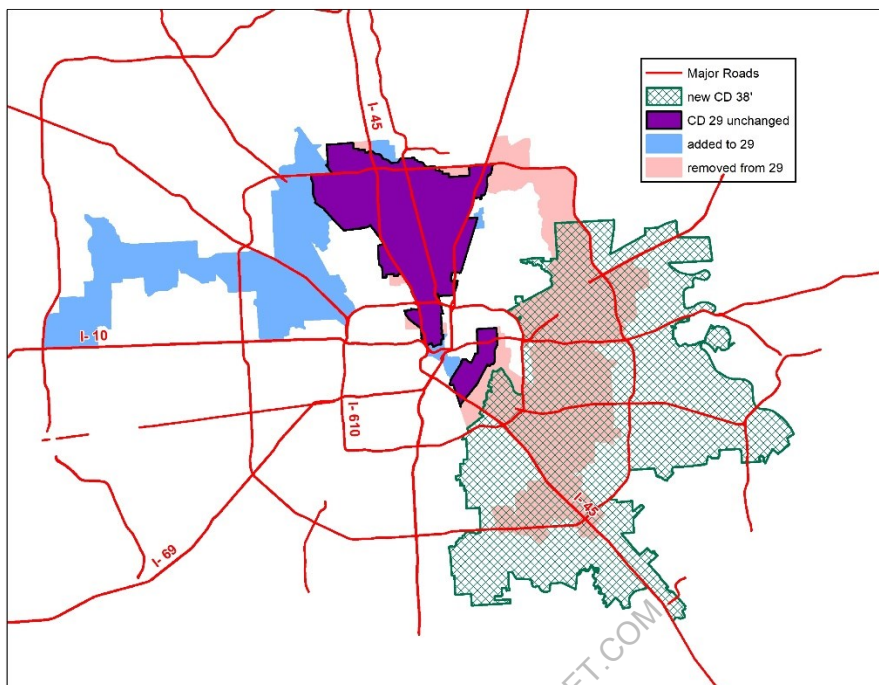
18. I developed an illustrative plan for Congressional Districts in the Houston area. The illustrative plan includes 13 districts that together encompass the same geographic area as districts in the enacted plan. CD17 and CD27 are unchanged from the current enacted plan. Map 1A illustrates all of the illustrative Congressional districts in the Houston area, including the portion of illustrative CD10’ that extends to the western suburbs of Austin and is also part of current enacted CD10. Map 1B is a close-up of the same map showing the boundaries of districts in the central urban area of Houston. Map 1C shows the relationship of illustrative districts 29’ and 38’ to the current enacted CD29.



Map 1A. Illustrative Congressional Districts in the Houston area



Map 1B. Close-up of illustrative Congressional Districts in the Houston area showing major roads



Map 1C. Relationship of the current enacted CD29 to the illustrative CD29' and CD38'

19. Table 1 provides population and CVAP estimates for the current enacted and illustrative Houston districts. The current enacted plan has one Hispanic majority district (CD29). I was asked if it were possible to draw an illustrative plan with two Hispanic majority districts that meet traditional redistricting criteria. The table shows two illustrative districts, CD29' and CD38', that meet these criteria, with HCVAP percentages of 50.7% and 50.8% respectively. These estimates are based on the procedures described in Appendix A, applying citizen shares at the census tract level as reported in the American Community Survey (ACS) 2016-2020 to the racial/ethnic counts of voting-age persons in census blocks as reported in the 2020 Census.

Table 1. Estimated CVAP composition of current enacted and illustrative Houston-area Congressional Districts								
	Total population 2020	Total CVAP	Hispanic CVAP	Black CVAP	White CVAP	Hispanic CVAP percentage	Black CVAP percentage	White CVAP percentage
Current enacted								
2	766,987	494,906	110,619	63,713	290,010	22.4%	12.9%	58.6%
7	766,987	449,393	96,092	93,324	167,489	21.4%	20.8%	37.3%
8	766,987	493,264	117,495	65,819	272,249	23.8%	13.3%	55.2%
9	766,987	439,371	117,291	203,293	74,003	26.7%	46.3%	16.8%
10	766,987	536,551	98,125	56,305	347,577	18.3%	10.5%	64.8%
14	766,987	540,459	99,180	91,295	325,032	18.4%	16.9%	60.1%
17	766,987	541,989	98,646	88,622	331,421	18.2%	16.4%	61.1%
18	766,987	463,934	136,259	189,115	108,129	29.4%	40.8%	23.3%
22	766,987	482,878	113,636	61,406	243,624	23.5%	12.7%	50.5%
27	766,987	543,410	260,632	25,983	240,909	48.0%	4.8%	44.3%
29	766,987	386,195	244,049	74,199	53,789	63.2%	19.2%	13.9%
36	766,987	521,232	117,022	69,733	303,592	22.5%	13.4%	58.2%
38	766,987	502,805	97,141	54,335	295,541	19.3%	10.8%	58.8%
Illustrative								
2'	766,987	496,458	104,362	57,206	304,355	21.0%	11.5%	61.3%
7'	766,987	486,182	102,150	85,463	226,540	21.0%	17.6%	46.6%
8'	766,987	497,529	109,426	68,323	265,621	22.0%	13.7%	53.4%
9'	766,987	450,649	101,330	187,224	92,320	22.5%	41.5%	20.5%
10'	766,987	535,740	90,469	45,284	363,508	16.9%	8.5%	67.9%
14'	766,987	537,507	119,509	62,382	323,795	22.2%	11.6%	60.2%
17'	766,987	541,989	98,646	88,622	331,421	18.2%	16.4%	61.1%
18'	766,987	460,641	118,658	187,898	120,392	25.8%	40.8%	26.1%
22'	766,987	487,173	102,649	68,286	256,719	21.1%	14.0%	52.7%
27'	766,987	543,410	260,632	25,983	240,909	48.0%	4.8%	44.3%
29'	766,987	398,255	201,721	84,446	82,923	50.7%	21.2%	20.8%
36'	766,987	531,035	78,471	106,784	325,827	14.8%	20.1%	61.4%
38'	766,987	429,817	218,166	69,239	119,034	50.8%	16.1%	27.7%

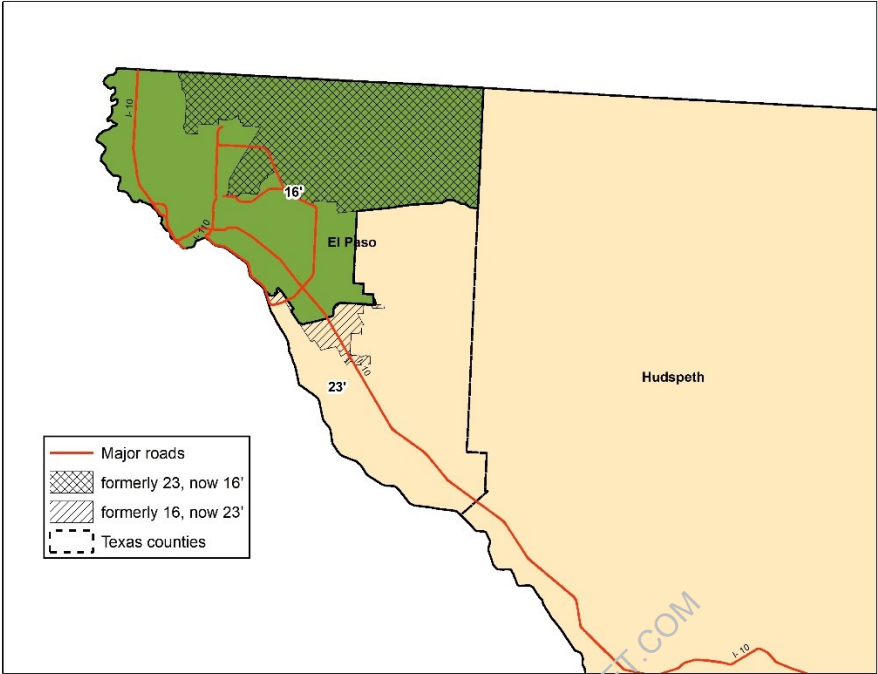
20. I also created alternative CVAP estimates in which I applied the estimation procedures that were used by the Texas Legislative Commission (TLC). As described in more detail in Appendix A, TLC relied solely on block group estimates of CVAP as reported in ACS 2015-2019 or 2016-2020, which introduces some error for block groups that are divided between districts. I applied the TLC procedure to the more recent data at the block group level in ACS 2016-2020. Following this procedure yields the same Hispanic CVAP percentages (50.7% and 50.8%) in districts 29' and 38'.

Congressional Districts 16, 20, and 23

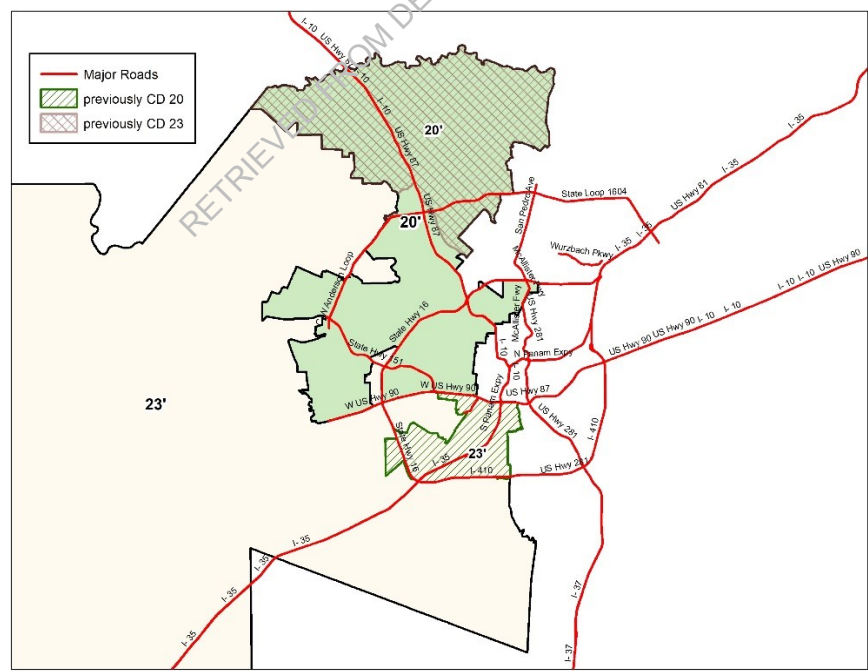
21. I developed an illustrative plan for Congressional Districts in West Texas. Map 2A shows the boundaries of illustrative CD16' in the El Paso area, illustrative CD20' in the San Antonio area, and illustrative CD23', which covers the territory between the two districts. Map 2B of the El Paso area provides a close-up view of the boundary between illustrative CD23' and illustrative CD16' along with major roads. The crosshatched area has been moved from current enacted CD23 into illustrative CD16', and the area with diagonal lines has been moved from current enacted CD16 into illustrative CD23'. Map 2C provides a close-up view of the boundary between illustrative CD23' and illustrative CD20' along with major roads. The cross-hatched area has been moved from current enacted CD23 into illustrative CD20'. The area with diagonal lines has been moved from current enacted CD20 to illustrative CD23'.



Map 2A. Illustrative Congressional Districts in the area of current enacted CDs 16, 20 and 23 showing county names



Map 2B. Illustrative CD16' and CD23' showing major roads and changes from the boundaries of the current enacted CDs



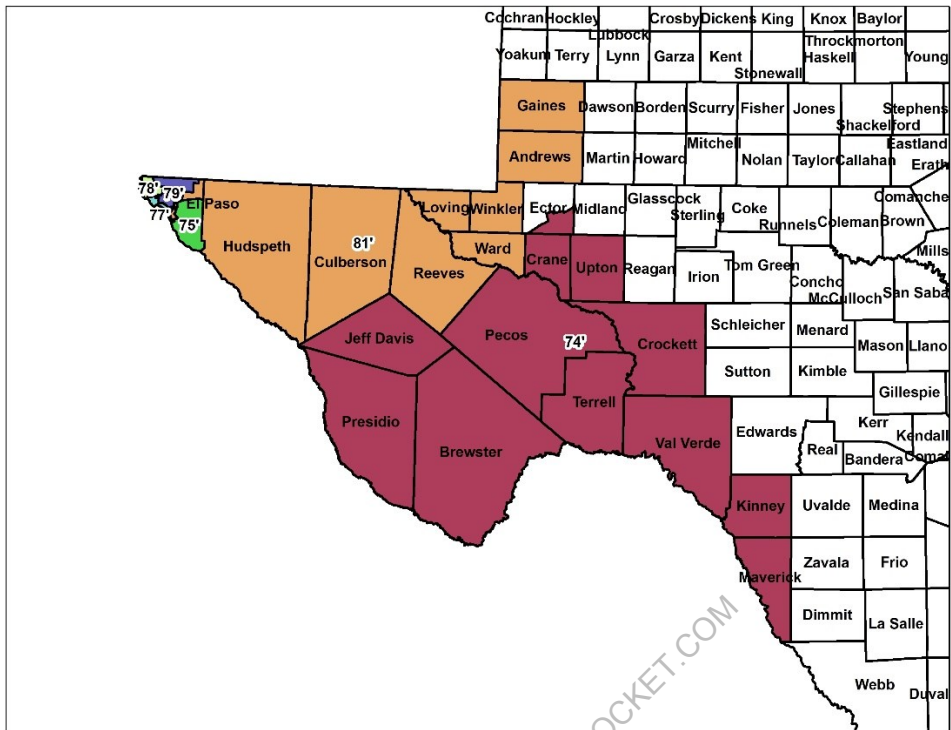
Map 2C. Illustrative CD23' and CD20' showing major roads and changes from the boundaries of the current enacted CDs

22. Table 2 presents estimates of CVAP composition for these illustrative Congressional Districts. In the illustrative plan all three districts remain majority Hispanic.

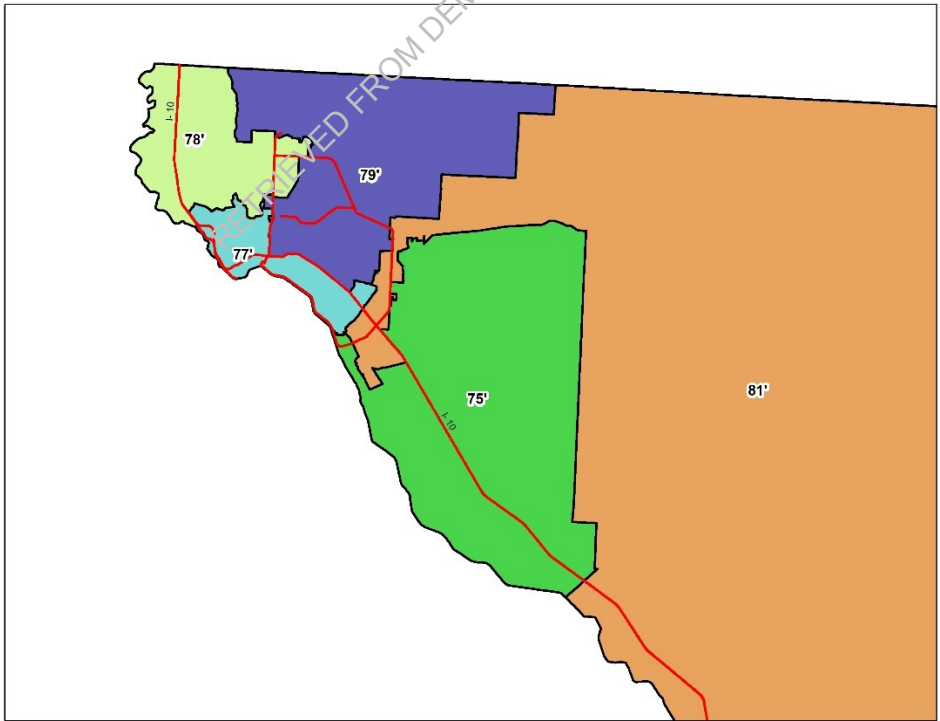
	Total population 2020	Total CVAP	Hispanic CVAP	Black CVAP	White CVAP	Hispanic CVAP percentage	Black CVAP percentage	White CVAP percentage
Enacted								
16	766,986	487,663	385,766	17,896	72,818	79.1%	3.7%	14.9%
20	766,987	508,183	343,361	34,119	110,114	67.6%	6.7%	21.7%
23	766,987	503,156	285,373	21,590	175,708	56.7%	4.3%	34.9%
Illustrative								
16'	766,987	490,927	381,608	19,446	77,576	77.7%	4.0%	15.8%
20'	766,986	521,403	296,979	36,686	159,909	57.0%	7.0%	30.7%
23'	766,987	486,672	335,913	17,474	121,156	69.0%	3.6%	24.9%

Texas House Districts in El Paso / West Texas

23. I developed an alternative illustrative plan for State House Districts in the El Paso/West Texas area. I was asked to evaluate if districts could be drawn to bring the population of districts in El Paso County closer to the ideal size. In consultation with attorneys for the United States, who had analyzed election data that I have not used, I also made changes that unpacked the concentration of Latino voters in HDs 74, 75, 77, 78, and 79, as compared to HD 81, and avoided pairing Representative Ordaz Perez with returning incumbents in illustrative HD75' or illustrative HD77'. Map 3A shows the boundaries of six illustrative districts in the resulting illustrative plan. Map 3B is a close-up of the districts in the El Paso area that also includes major roads.



Map 3A. Illustrative State House Districts in West Texas



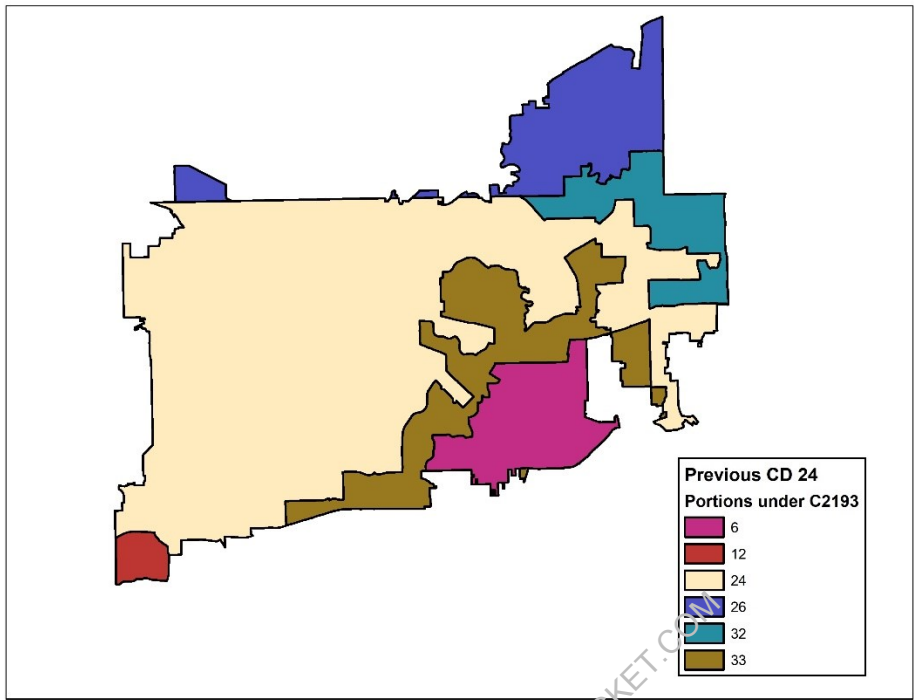
Map 3B. Close-up of illustrative State House Districts in El Paso showing major roads

24. Table 3 presents estimates of district composition in West Texas for the illustrative plan and for currently enacted State House Districts that most closely coincide with the illustrative districts. The table shows that there are 6 majority-Hispanic districts in both plans. Five of the districts in the enacted plan have populations over 200,000, with an average size of 199,583. All districts in the illustrative plan are under 200,000, and the average size is 190,194.

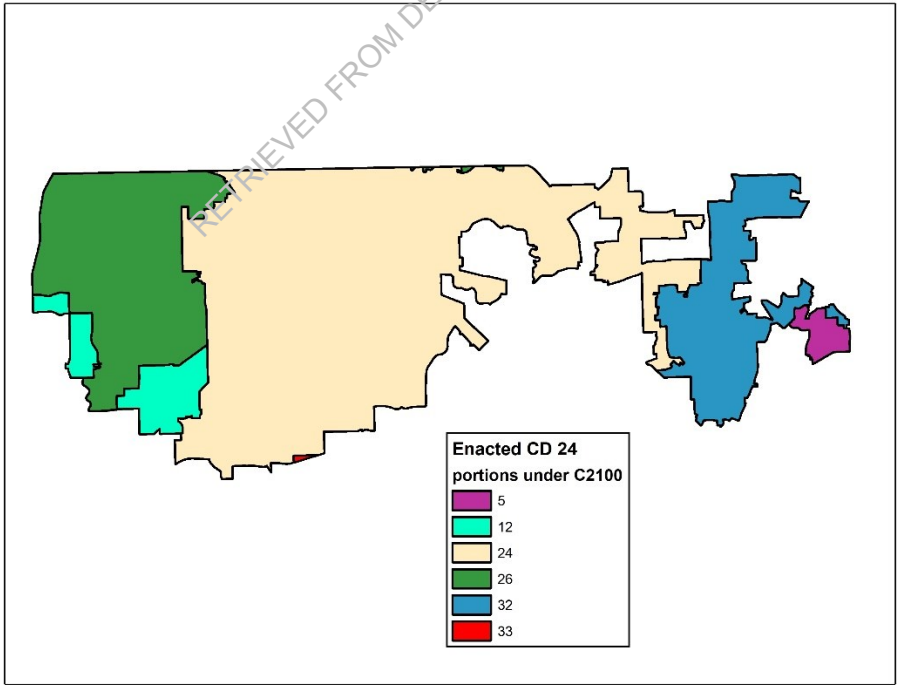
Table 3. Estimated CVAP composition of current enacted and illustrative West Texas State House Districts								
	Total population 2020	Total CVAP	Hispanic CVAP	Black CVAP	White CVAP	Hispanic CVAP percentage	Black CVAP percentage	White CVAP percentage
Enacted								
74	203,239	122,671	93,339	2,670	24,130	76.1%	2.2%	19.7%
75	200,505	109,708	96,997	3,032	8,064	88.4%	2.8%	7.4%
77	203,921	126,624	108,933	2,698	13,060	86.0%	2.1%	10.3%
78	203,786	134,287	91,652	6,365	31,595	68.3%	4.7%	23.5%
79	201,379	136,877	106,329	5,897	21,227	77.7%	4.3%	15.5%
81	184,670	116,947	61,874	5,597	10,525	65.8%	5.4%	27.5%
Illustrative								
74'	195,659	118,298	86,911	26,633	3,034	73.5%	2.6%	22.5%
75'	187,769	102,232	88,992	8,269	3,264	87.0%	3.2%	8.1%
77'	187,776	118,184	102,302	12,004	2,282	86.6%	1.9%	10.2%
78'	187,062	122,544	85,954	28,203	4,583	70.1%	3.7%	23.0%
79'	185,604	125,956	88,343	25,153	7,623	70.4%	6.1%	20.0%
81'	197,291	121,428	89,944	26,597	2,942	74.1%	2.4%	21.9%

Dallas-Fort Worth Area Congressional districts

25. Maps 4A and 4B illustrate the relationship between CD24 in Dallas-Fort Worth as it was defined in the former Plan C2100 and in the current enacted Plan C2193. Map 4A illustrates the whole area of the previous CD24, and identifies specific areas that were removed under the current enacted plan. These areas include parts of the current CD6, CD12, CD24, CD26, CD32, and CD33. Map 4B, conversely, illustrates the whole area of the previous CD24, and it identifies portions of former CDs that are now in CD24. These areas include parts of the current CD5, CD12, CD24, CD26, and CD32.



Map 4A. The area of CD24 in the former plan, showing areas now moved to other CDs

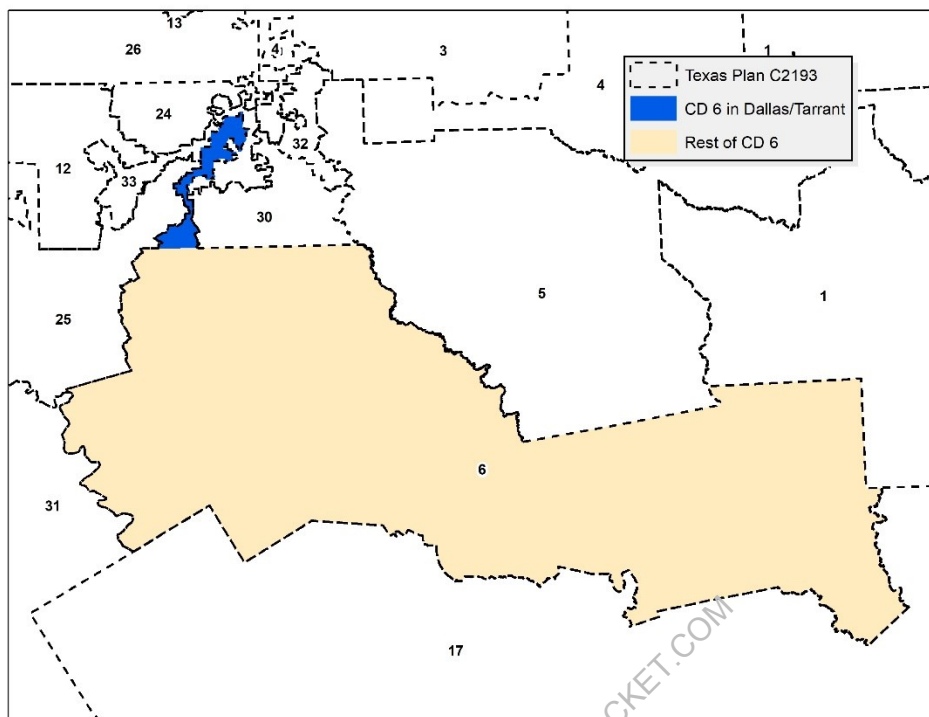


Map 4B. The area of CD24 in the current enacted plan, showing areas that were moved into it from other CDs

26. Table 4 shows that the current enacted plan reduced CD24's Hispanic and black CVAP percentages in comparison to the former plan. These two groups combined declined from 29.7% to 19.1% of the total CVAP, while the white CVAP percentage increased from 55.6% to 70.3%. The table also compares the composition of areas that were removed or added to CD24 between the prior plan (C2100) and the current enacted plan (C2193). The table distinguishes three kinds of areas: those that were placed in CD24 in both plans, those that were in CD24 under the prior plan and were removed, and those that were not in CD24 under the prior plan and were added. The table also reports the other CDs to which these areas were added or from which they were taken. The area of CD24 that is common to both plans has modest Hispanic CVAP percentage (13.3%) and black CVAP percentage (7.3%). CD24 under the prior plan had larger Hispanic and black CVAP percentages, as the area removed under the enacted plan is 19.9% Hispanic and 18.5% black. In comparison, the total area added to CD24 from other CDs in the prior plan total only 11.9% Hispanic CVAP percentage and 5.7% black CVAP percentage. The result is to make the district less Hispanic and black and more white.

Table 4. Components of change in the composition of CD24								
between the former and current enacted plans								
		Total CVAP	Hispanic CVAP	Black CVAP	White CVAP	Hispanic CVAP percentage	Black CVAP percentage	White CVAP percentage
Area common to both plans		255,042	33,831	18,606	171,057	13.3%	7.3%	67.1%
Removed from CD24 and added to:								
	6	37,084	9,926	5,187	17,433	26.8%	14.0%	47.0%
	12	6,221	1,071	921	3,210	17.2%	14.8%	51.6%
	26	68,642	8,624	7,259	38,078	12.6%	10.6%	55.5%
	32	75,639	14,888	18,292	33,403	19.7%	24.2%	44.2%
	33	80,792	18,787	18,100	27,624	23.3%	22.4%	34.2%
	Total removed	268,378	53,298	49,759	119,748	19.9%	18.5%	44.6%
Added to CD24 from:								
	5	13,319	1,284	1,248	10,194	9.6%	9.4%	76.5%
	12	45,507	7,377	3,860	29,606	16.2%	8.5%	65.1%
	26	120,951	17,371	7,062	83,883	14.4%	5.8%	69.4%
	32	95,111	6,695	3,474	77,919	7.0%	3.7%	81.9%
	33	20	4	9	0	20.1%	46.9%	0.0%
	Total added	274,908	32,731	15,653	201,602	11.9%	5.7%	73.3%
Total former CD24		523,420	87,129	68,365	290,805	16.6%	13.1%	55.6%
Total enacted CD24		529,950	66,562	34,259	372,659	12.6%	6.5%	70.3%

27. Map 4C shows Congressional Districts in the Dallas-Fort Worth area under the current enacted Plan C2193. It highlights in yellow the main portion of CD6, and it shows in blue an additional component of CD6 that extends into Dallas and Tarrant Counties.



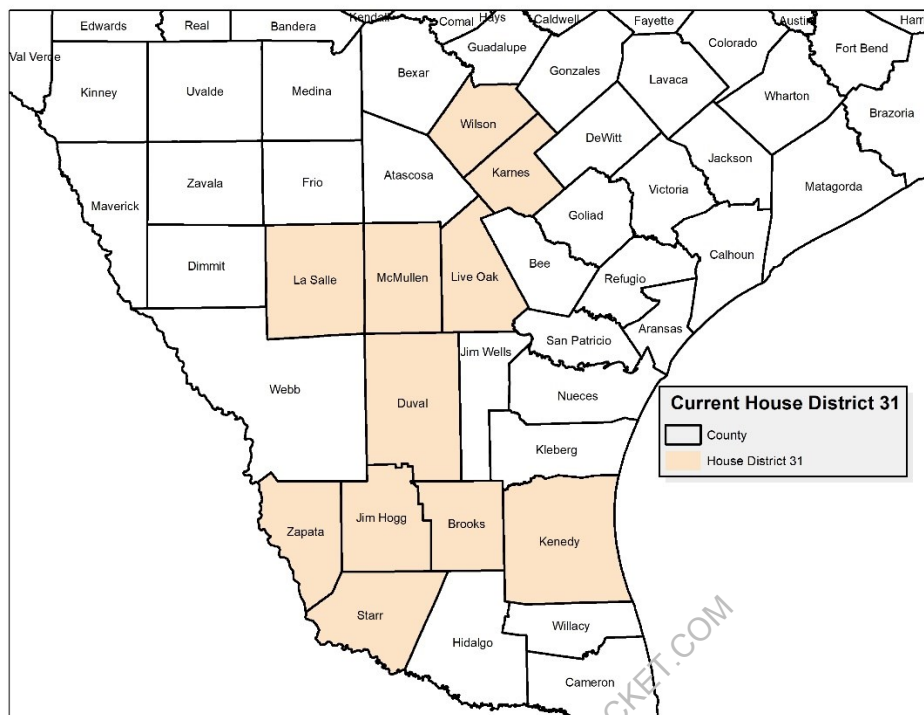
Map 4C. Boundaries of Congressional District 6, showing in blue the portion that extends into Dallas and Tarrant Counties.

28. Table 5 provides data about the composition of CD6, distinguishing the portion that extends into Dallas and Tarrant Counties from the remainder of the CD. For reference it also includes the other Congressional Districts in the current enacted plan. CD6 has an estimated 22.2% Hispanic CVAP percentage, which is considerably higher in the Dallas/Tarrant County portion of the district (29.9%) than in the remainder of the district (17.9%). There is also a higher black CVAP percentage in the Dallas/Tarrant County component (19.3%) than in the remainder of the district (13.7%). As a result, current enacted CD6 combines portions of urban Dallas and Tarrant Counties that are nearly 50% Hispanic and black CVAP with a rural area that is nearly two-thirds white CVAP, creating a congressional district that is approximately 38% Hispanic and black CVAP.

Table 5. Composition of CVAP population of components of CD6 and other CDs in Dallas-Fort Worth								
	Total population	Total CVAP	Hispanic CVAP	Black CVAP	White CVAP	Hispanic CVAP percentage	Black CVAP percentage	White CVAP percentage
Dallas/Tarrant portion	317,266	175,696	52,477	33,966	72,520	29.9%	19.3%	41.3%
Remainder of CD6	449,721	313,557	56,025	42,864	204,604	17.9%	13.7%	65.3%
CD6 total	766,987	489,252	108,502	76,830	277,124	22.2%	15.7%	56.6%
Other CDs in Dallas-Forth Worth								
5	766,987	504,023	95,120	76,503	297,764	18.9%	15.2%	59.1%
6	766,987	489,253	108,502	76,830	277,122	22.2%	15.7%	56.6%
12	766,987	532,559	96,278	64,239	338,439	18.1%	12.1%	63.5%
24	766,987	529,950	66,562	37,908	372,659	12.6%	7.2%	70.3%
25	766,987	543,982	86,006	65,536	361,400	15.8%	12.0%	66.4%
26	766,987	511,449	71,540	50,319	336,817	14.0%	9.8%	65.9%
30	766,987	493,704	114,773	234,458	120,537	23.2%	47.5%	24.4%
32	766,987	462,781	102,119	105,829	208,920	22.1%	22.9%	45.1%
33	766,987	383,227	167,525	103,512	85,497	43.7%	27.0%	22.3%

Texas House District 31 (South Texas)

29. Map 5 shows the composition of the current enacted House District 31, which is comprised of ten counties. The map identifies Karnes and Wilson Counties in the far north of HD31. It also shows the location of two counties that are adjacent to HD31 to the east of Duval County: Jim Wells and Kleberg Counties.



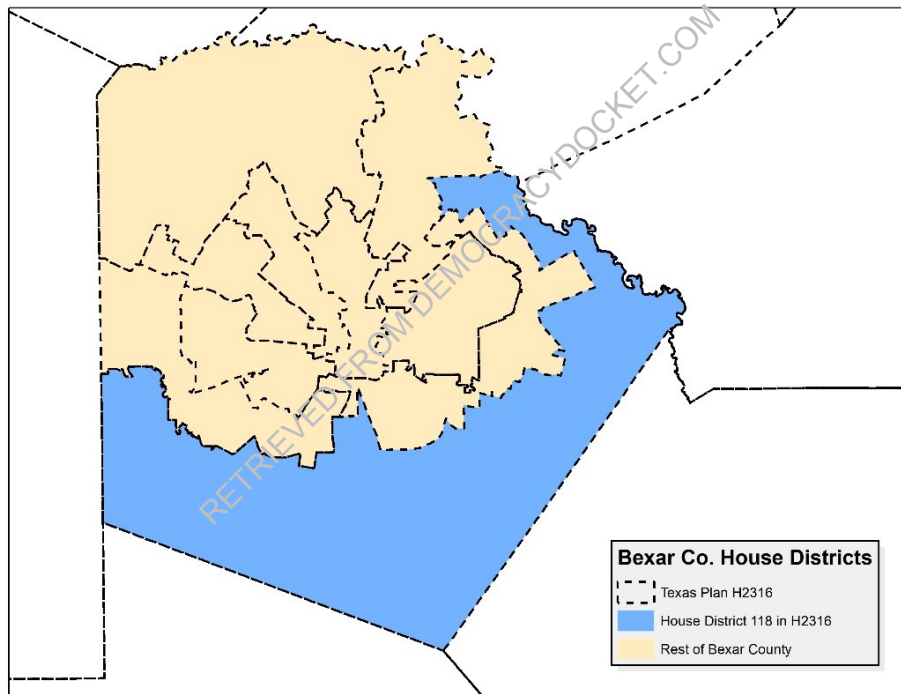
Map 5. Composition of HD31 under current enacted plan H2361, and location of adjacent counties

30. Table 6 describes how the composition of HD31 would change if Karnes and Wilson Counties were replaced by Jim Wells and Kleberg Counties, which would make HD31 more compact. Table 6 shows that the current enacted district has a total population of 184,966, while the illustrative version has a population of 190,434 (closer to the ideal population size of 194,303). In both versions the black CVAP percentage is no more than 2%. However the Hispanic CVAP percentage is substantially higher in the illustrative plan (79.7%) than in the current enacted plan (65.1%).

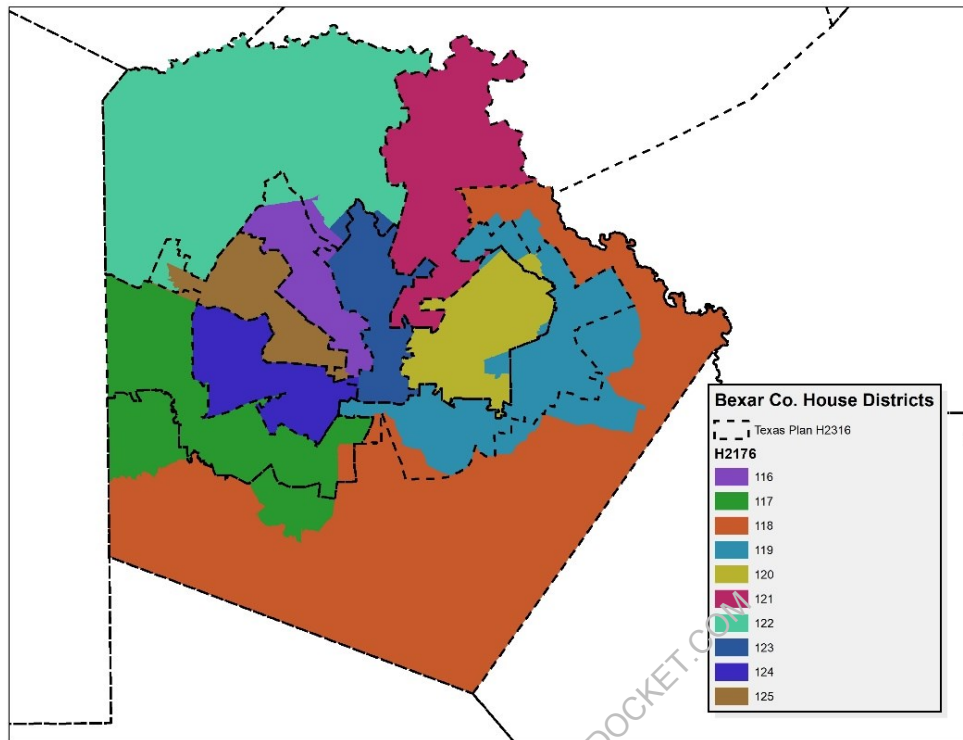
Table 6. HD 31 composition as currently enacted and with two counties replaced								
	Population	Total CVAP	Hispanic CVAP	Black CVAP	White CVAP	Hispanic CVAP percentage	Black CVAP percentage	White CVAP percentage
Enacted HD 31	184,966	116,945	76,169	2,319	36,760	65.1%	2.0%	31.4%
Revised HD 31	190,434	120,046	95,647	1,641	21,311	79.7%	1.4%	17.8%

Texas House District 118 (Bexar County)

31. Maps 6A and 6B compare the boundaries of HD118 in the legislative committee plan (H2176) and the current enacted plan (H2316). Map 6A shows the boundaries of HD118 in the current enacted plan. The dotted lines in Map 6B illustrate these same boundaries. The colored areas in Map 6B show the allocation of areas to different House Districts under the committee plan. The current enacted plan added areas that had been in HD117 and 119 in the committee plan, and it removed an area that had been in 118 in the committee plan.



Map 6A. Boundaries of HD118 and other Bexar County House Districts under current enacted plan H2316.



Map 6B. House Districts in current enacted plan H2316 (dotted lines) compared to districts in the committee plan H2176.

32. Table 7 shows that HD118 has a Hispanic CVAP majority in both versions of the plan, but considerably higher in the committee plan (65.5%) than in the enacted plan (57.4%). This difference results from the removal of some areas in the committee plan that are nearly 90% Hispanic (moved to HD117 and HD119), and the addition of some areas that are less than 50% Hispanic from HD117 and HD119.

Table 7. Components of change in the composition of HD 118 between the committee and current enacted plans							
	Total CVAP	Hispanic CVAP	Black CVAP	White CVAP	Hispanic CVAP percentage	Black CVAP percentage	White CVAP percentage
Area common to both plans	115,955	70,198	5,259	36,290	60.5%	4.5%	31.3%
Removed from HD 118 and added to:							
117	6,972	6,256	123	493	89.7%	1.8%	7.1%
119	11,184	10,030	83	980	89.7%	0.7%	8.8%
Added to HD 118 from:							
117	6,851	3,282	565	2,698	47.9%	8.2%	39.4%
119	16,040	6,239	1,929	7,026	38.9%	12.0%	43.8%
District totals							
Committee plan	134,112	86,484	5,465	37,763	64.5%	4.1%	28.2%
Enacted plan	138,846	79,719	7,753	46,014	57.4%	5.6%	33.1%

VII. Analysis of Socioeconomic Disparities

33. The analysis of socioeconomic disparities is presented below separately for the entire State of Texas and five large urban counties, based on analyses of microdata from the 2015-2019 ACS, and for the ten largely rural counties that are included in enacted House District 31 (based on published county-level tables from the 2015-2019 ACS). The indicators of socioeconomic status are inter-related aspects of the human capital and financial resources of residents. They are widely used in the research literature on socioeconomic disparities, and I have used them in this way in many publications. They include the mean household income, income per capita, and share of persons in households with incomes below the poverty line (all based on 2019 inflation-adjusted dollars and guidelines), share of persons in the civilian labor force who are unemployed, share of persons age 25 and above who have completed at least 12 years of education, share of persons age 5 and above who speak English “very well” or “speak only English,” share of persons who have any health insurance coverage, and share of persons in a household with at least one automobile or light truck available for use. The county-level tabulations do not include

vehicle availability. As described in Appendix B, results are presented in Table 8 separately for non-Hispanic whites, non-Hispanic blacks (including those reporting more than one race), and Hispanics. However, due to the small black populations in the counties in HD31, results are not reported for blacks in Table 9. Based on analysis of variance of the microdata, all relationships between race/ethnicity and socioeconomic indicators are statistically significant at the $p < .001$ level. That is, there is less than a 0.1% chance that these sample data are drawn from a population in which there is no difference across racial/ethnic groups. As described in Appendix B, due to the small sample sizes in the ACS for rural counties in HD31, the sampling variability of estimates for individual counties is large relative to the reported estimates, and I do not rely on measures of statistical significance for Table 9. However the estimates in Table 9 are the best available unbiased estimates. In other words, they are not biased upwards or downwards, and there is no better source of estimates. Under these conditions it is standard practice in social science research to draw conclusions from estimates based on small samples, particularly when – as is true in this case – they reveal a pattern of disparities that is highly consistent across different indicators and counties.

34. Table 8 documents substantial socioeconomic disparities between Hispanics and whites in all five major urban counties. In only two instances is there parity between Hispanics and whites (vehicle access in Dallas and Tarrant Counties). In some counties and on some measures the disparities are especially large. For example, Hispanic household income is less than half that of whites in Dallas and Harris Counties. Per capita income of Hispanics is less than 40% of per capita income of whites in these counties. The share of Hispanics below the poverty line is three times as high as the white share in Harris County. However, despite these variations, the main pattern of disparities across this set of five large metropolitan counties is

similar. Hispanics are greatly disadvantaged on multiple dimensions of socioeconomic status in comparison to whites.

35. Table 8 also reports results for the black population. On several indicators black residents are greatly disadvantaged in comparison with whites, but not so much as Hispanics. Disparities between blacks and whites are largest in mean household income, income per capita, poverty, and unemployment. Blacks are considerably more likely than Hispanics to have completed high school and to speak English fluently, and they are more likely to have health insurance coverage, and on these indicators their disparity with whites is smaller.

36. Table 8 also provides an overall statewide comparison across groups. It shows that Hispanics have less favorable socioeconomic standing than non-Hispanic whites on every indicator. The mean household income of Hispanics is only 60.3% of the mean household income of whites. Income per capita of Hispanics is barely half that of whites, and the share of Hispanics below the poverty line is more than double that of whites. There are very large disparities in high school completion (68.7% for Hispanics vs. 95.0% for whites), ability to speak English “very well” or “speak only English” (70.3% vs 98.8%), and health insurance coverage (72.3% vs. 89.8%). Hispanics are also somewhat more likely to report being unemployed when interviewed during 2015-2019, and slightly less likely to have at least one vehicle available for use by their household.

Table 8. Socioeconomic disparities between whites, blacks, and Hispanics									
statewide and in major counties (American Community Survey 2015-2019)									
		Mean household income	Income per capita	Below poverty line	Unemployed	Completed high school	English spoken very well	Has health insurance	Vehicle available
Texas	White	118,849	49,201	0.084	0.041	0.95	0.988	0.898	0.977
	Hispanic	71,749	24,356	0.209	0.053	0.687	0.703	0.723	0.966
	Black	74,146	30,181	0.193	0.077	0.918	0.98	0.841	0.923
Bexar	White	113,266	48,627	0.093	0.043	0.964	0.981	0.91	0.969
	Hispanic	73,694	26,486	0.187	0.055	0.78	0.829	0.813	0.95
	Black	77,691	31,954	0.165	0.064	0.943	0.989	0.877	0.918
Dallas	White	138,831	62,635	0.075	0.035	0.959	0.98	0.904	0.97
	Hispanic	67,754	22,334	0.19	0.042	0.566	0.564	0.656	0.972
	Black	67,036	30,173	0.197	0.074	0.916	0.971	0.839	0.897
Tarrant	White	124,826	49,973	0.067	0.038	0.958	0.988	0.904	0.981
	Hispanic	75,335	25,609	0.172	0.048	0.659	0.69	0.715	0.982
	Black	76,459	30,611	0.176	0.065	0.934	0.968	0.846	0.945
Harris	White	145,518	62,266	0.069	0.047	0.966	0.98	0.916	0.974
	Hispanic	71,459	24,344	0.211	0.054	0.652	0.602	0.676	0.965
	Black	72,923	29,806	0.201	0.091	0.923	0.98	0.842	0.916
El Paso	White	94,960	43,387	0.108	0.053	0.963	0.964	0.909	0.973
	Hispanic	64,849	22,852	0.222	0.057	0.769	0.622	0.771	0.959
	Black	76,670	35,194	0.115	0.051	0.965	0.983	0.882	0.942

37. Table 9 presents results on a similar set of variables for whites and Hispanics in the ten counties in the current enacted HD31. Estimated values for both whites and Hispanics vary considerably across counties, which is to be expected when data are based on limited sample sizes. As a result, it is difficult to draw conclusions based on any single county. To summarize the general pattern in this region, the table also presents the average values (means) across all ten counties (weighting each county by its 2020 non-Hispanic white and Hispanic populations, respectively).

38. The table shows that Hispanics have considerably lower household income and income per capita than whites in all ten counties. Their poverty share and share with no health insurance are higher in all counties except Brooks County. Their unemployment rate is higher on average, higher in six counties but lower in four counties. Their share of high school

graduates is considerably lower and their share of fluent English speakers is considerably lower in all ten counties.

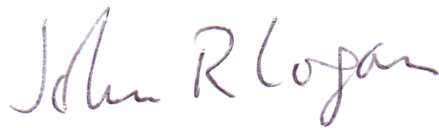
	Brooks County	Duval County	Jim Hogg County	Karnes County	La Salle County	Live Oak County	McMullen County	Starr County	Wilson County	Zapata County	Group- Weighted Mean
Median household income											
White	\$31,058	\$55,125	NA	\$71,036	\$56,732	\$64,085	\$104,583	\$74,453	\$84,474	\$56,400	\$66,438
Hispanic	\$28,079	\$38,188	\$32,296	\$46,953	\$46,304	\$36,467	\$51,635	\$30,309	\$66,932	\$32,566	\$40,973
Income per capita											
White	\$11,421	\$20,854	\$19,912	\$50,849	\$29,348	\$32,603	\$50,954	\$21,714	\$37,788	\$35,632	\$31,108
Hispanic	\$14,784	\$17,451	\$16,534	\$15,179	\$20,176	\$15,051	\$12,061	\$14,126	\$25,108	\$19,481	\$16,995
Below poverty											
White	0.457	0.024	0.130	0.087	0.041	0.126	0.103	0.223	0.064	0.195	0.145
Hispanic	0.412	0.248	0.322	0.255	0.192	0.255	0.135	0.348	0.131	0.356	0.266
Civilian labor force unemployed (age 16-64)											
White	0.050	0.112	0.065	0.030	0.056	0.031	0.066	0.000	0.052	0.000	0.046
Hispanic	0.125	0.106	0.116	0.081	0.034	0.017	0.065	0.152	0.055	0.108	0.086
High school or more (age 25+)											
White	0.857	0.926	0.928	0.922	0.858	0.842	0.986	0.764	0.920	0.760	0.876
Hispanic	0.674	0.657	0.728	0.651	0.598	0.634	0.845	0.531	0.798	0.604	0.672
Speak English very well (age 5+)											
White	1.000	1.000	0.924	0.988	0.976	0.998	1.000	0.707	0.989	1.000	0.958
Hispanic	0.842	0.855	0.838	0.742	0.813	0.759	0.933	0.556	0.847	0.587	0.777
Has health insurance											
White	0.769	0.863	0.811	0.933	0.821	0.867	0.971	0.775	0.912	1.000	0.872
Hispanic	0.778	0.772	0.781	0.801	0.815	0.769	0.670	0.652	0.816	0.698	0.755

39. Whites' incomes are lower and their poverty is higher in HD31 than statewide, but their standing on other indicators is similar to the Texas white average. Similarly, Hispanics' incomes are lower and their poverty and unemployment rate is higher in this region than the statewide Hispanic average. But they are more similar to Hispanics statewide on education, English language fluency, and health insurance coverage.

40. The socioeconomic disparities described here are important as indicators of the overall disadvantages that Hispanics in these areas face in comparison to whites. In my own research and in the literature on political participation, they have also been found to be associated with lower likelihood for citizens to register to vote or to vote if registered (see especially my findings in *Journal of Ethnic and Migration Studies* [2009], *Journal of Ethnic and Migration*

Studies [2012], *Social Forces* [2012], and *Sociological Perspectives* [2021], and the citations to other research found in these articles).

Date: June 14, 2022

A handwritten signature in purple ink that reads "John R Logan". The signature is written in a cursive style with a large, stylized 'J' and 'L'.

John R. Logan

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Appendix A. CVAP Estimation

I estimated CVAP at the 2020 block level for every racial/ethnic category and for the total population, and I aggregated the estimates for every block within an enacted or proposed district to yield that category's percentage of the district's CVAP.

The data sources I used are:

- Block-level population estimates by race/ethnicity and age in the Census 2020 Public Law 94-171 Summary File.
- Tract-level estimates of CVAP for a limited set of race and Hispanic origin categories in a "special file" of the 2016-2020 American Community Survey (ACS).
- Tract-level estimates of age for a limited set of race and Hispanic origin categories in the main 2016-2020 American Community Survey (ACS).

The ACS data are the only available estimate of CVAP. I rely on the five-year ACS 2016-2020 tabulations because tract data are only provided for five-year aggregations. A concern with relying on data for this cumulative sample is that a group's share of citizens in its voting-age population may have changed over time. If it were higher in 2020 than in 2016, the 2016-2020 estimate would underestimate it. In Step 3 below, I provide evidence that Hispanic citizen share was indeed rising in this period, so using the five-year series understates Hispanic citizen share and also the Hispanic CVAP percentage in legislative districts.

Relying on ACS data adds other complications to the estimation of CVAP in 2020. While the 2020 Census provides full-count estimates of the population age 18 and above for very detailed categories of race and Hispanic origin, the ACS data report voting age citizens and age for a more limited set of categories.

- CVAP should be estimated for African Americans, defined by OMB standards as persons who are "non-Hispanic black alone or in combination with any other race." The ACS does not report this category. It does report CVAP by three components (black alone, black and white, and black and American Indian/Alaska Native), but it does not report any other combinations.
- The ACS special tabulation of CVAP does not also report voting age population (VAP) by group (VAP) for census tracts. This tabulation is available separately from the main ACS, which reports the age distribution for Hispanics and several other race categories, but does not distinguish Hispanics from non-Hispanics within those race categories. Census 2020 data are a reliable source to estimate the non-Hispanic share of each race group for the 18+ population. I applied the 2020 "non-Hispanic share" to the ACS "race by age" tabulation to determine the estimated VAP by race and Hispanic origin that is needed as the denominator in calculating the CVAP percentage (CVAP/VAP) in 2016-2020. To do this requires the reasonable assumption that the non-Hispanic share of each group did not meaningfully change between 2016-2020 and 2020.

The following sections describe in some detail the steps taken to develop the CVAP estimates for 2020 blocks in Texas.

Estimation steps

1. CVAP in the ACS at the 2010 tract level

My first step in estimation uses the ACS estimates of CVAP by race and Hispanic origin. In these tabulations the Census Bureau rounds the estimates (estimates between 1 and 7 are rounded to 4 and estimates 8 and higher are rounded to the nearest 5). The published categories are:

Total

Not Hispanic or Latino (NH)

*NH White Alone (NHW)

*NH Black or African American Alone (NHB)

*NH Asian Alone (NHA)

*NH Native Hawaiian or Other Pacific Islander Alone (NHPI)

*NH American Indian or Alaska Native (AIAN) Alone

NH American Indian or Alaska Native and White

NH Asian and White

NH Black or African American and White

NH American Indian or Alaska Native and Black or African American

NH Remainder of Two or More Race Responses

*Hispanic or Latino

I used the categories marked with an asterisk (*) in the analysis. The remaining categories cannot be analyzed separately through the remaining steps, and I combined them in this analysis into a residual category ("NH Multiracial").

The ACS reports CVAP for persons who are "NH Black or African American Alone" but not for "NH Black or African American Alone or in Combination with Another Race." Fortunately, the citizen share for the "alone" category can also be applied to the "in combination" category. To test this approach, I analyzed microdata for the whole state of Texas from the 2019 ACS PUMS sample. As noted in my report, I did not use the 2020 ACS PUMS because the Census Bureau describes it as "experimental" due to the problems in sampling during the pandemic. The one-year sample for the whole state in 2019 is very large and it was designed to be representative at the state level, so I can rely on these most recent data rather than data for the whole 2015-2019 period. In this sample, in 2019 the "NH black alone" citizen share was .9520, compared to .9529 for "NH black alone or in combination," which makes me confident that I can use the former as an estimate of the latter.

Note that the 2020 census's "NH Other Race Alone" category also is not reported by the ACS, and it cannot be inferred as the difference between the "total" and the sum of all other categories because of the rounding of those categories' counts. This is a small category. My analysis of the 2019 ACS PUMS microdata shows that it was 1.2% of the population in Texas. Its citizen share in 2019 was .8577. In the absence of a tract-level estimate, I estimate the citizen share for "NH Other Race Alone" persons in every tract at the statewide value of .8577.

2. VAP estimation

For areas larger than census tracts, the ACS CVAP tables also include estimates of the full voting age population (VAP) that can be used as the denominator in computing CVAP

percentage (CVAP/VAP). For tract estimates one must turn to the main ACS 2015-2019 or 2016-2020 tract files.

It is essential to use the ACS sample data for this purpose because it is the same sample from which CVAP is drawn, so the VAP will correspond to exactly the same people as the CVAP. The ACS provides the number of persons age 18 and over for the following categories of race and Hispanic origin:

- Hispanic or Latino
- NH White Alone
- White Alone
- Black or African American Alone
- Asian Alone
- Native Hawaiian or Pacific Islander Alone (NHPI)
- American Indian or Alaska Native Alone (AIAN)
- Some Other Race Alone
- Two or More Races

These categories mostly correspond to those for which CVAP is reported, noting that “Two or More Races” is the same as the “Multiracial” category created from the CVAP counts. There are two exceptions. The age distribution for Some Other Race Alone is reported, but it cannot be used because it is missing from the CVAP tabulation. More important, all the race categories except NH White Alone combine Hispanics and non-Hispanics. A further step is needed to estimate the non-Hispanic share of the 18+ population in the other five categories.

The age breakdown by race and Hispanic origin is not reported by the ACS. However, the 2020 block data include counts of persons age 18+ for 70 detailed combinations of race, separately for Hispanics and non-Hispanics. I aggregated these 2020 data into the race categories reported in the ACS race by age tabulation. Then I calculated the non-Hispanic counts of voting age population for each racial category as the product of its non-Hispanic share in the tract (from Census 2020) times its total 18+ population in the ACS (where Hispanics and non-Hispanics are combined).

3. CVAP percentage

Step 2 yields estimates of VAP in the same categories as CVAP in Step 1. The CVAP percentage for each race/ethnic category is the ratio of CVAP to VAP in the census tract. I computed this ratio for the following categories:

- Hispanic or Latino
- NH White Alone
- NH Black or African American Alone
- NH Asian Alone
- NH Native Hawaiian or Pacific Islander Alone (NHPI)
- NH American Indian or Alaska Native Alone (AIAN)
- NH Multiracial

I set citizen share for NH Other Race Alone at .8577 for all tracts. Citizen share for multiracial persons includes those who are black and some other race, although in Step 4 this value is applied only to the count of multiracial persons who are not black.

As noted above, relying on ACS tract data for citizenship information requires the assumption that the citizen share of the 18+ population of every racial/ethnic category was unchanged between the ACS 2016-2020 estimates and the 2020 Census. However, it is possible to use the PUMS microdata from the ACS in 2015 and 2019 (a 1% sample of the population with weights intended to make it representative for large geographic units such as states) to examine this assumption. If the citizen share of a given group were rising in this period, I would conclude that the actual citizen share in 2020 was higher than the average for 2016-2020 as reported in the ACS tract data.

The PUMS microdata confirm that the citizen share among Hispanics age 18 and above was increasing in this period. It was .7072 in 2015 and rose to .7429 in 2019. This change is highly statistically significant, unlikely to be due to sampling variation. It is possible for rates to both rise and fall over time, depending in part on the volume of immigration by non-citizen adults. There are substantive reasons to interpret this rise as a natural tendency for a population group that is growing through fertility (as is the case for Hispanics), a point previously made by Chapa et al (2011).¹ First, many Hispanics who were age 14-17 at the time of ACS data collection had reached age 18 by 2020. Second, these young adults were more likely than older Hispanics to be citizens by virtue of being born in the U.S. Under these conditions, there would be a natural demographic trend toward increasing citizen share for Hispanics.

A similar smaller trend is observed for non-Hispanic Asians, whose citizen share statewide increased from .6408 in 2015 to .6502 in 2019.

Consequently, the CVAP percentages estimated for purposes of this report for 2020 blocks are a conservative estimate for Hispanics, possibly underestimating Hispanic CVAP percentage by 2-3%.

4. Block-level CVAP in 2020

The final step is to multiply the tract-level estimate of CVAP percentage by the count of persons 18+ (VAP) in every block for each race/ethnic category. This step yields the group's CVAP estimate for the block. This is the procedure recommended by Chapa et al (2011, pp. 11-13) to develop CVAP estimates at units smaller than the county level.

In some cases, particularly for the smallest racial categories, there is no CVAP information for a tract in the ACS but nevertheless there is a non-zero VAP in the 2020 block. In these cases, I used the mean value of citizen share across all Texas census tracts in this step.

As noted in step 1, the citizen share estimated for persons who are "NH black alone" is applied twice. It is applied to the number of voting age residents who are NH black alone to estimate the NH black alone CVAP. It is also applied to the full number of persons who are "NH black alone and in combination."

The final categories for which I estimated CVAP in 2020 blocks are as follows:

¹ Chapa, Jorge, Ana Henderson, Aggie Jooyoon Noah, Werner Schink, and Robert Kengle. 2011. "Redistricting: Estimating Citizen Voting Age Population." Research Brief of the Chief Justice Earl Warren Institute of Law and Social Policy, University of California, Berkeley Law School.

Hispanic or Latino
 NH White Alone
 NH Black Alone
 NH Black or African American Alone or in Combination
 NH Asian Alone
 NH Native Hawaiian or Pacific Islander Alone (NHPI)
 NH American Indian or Alaska Native Alone (AIAN)
 NH Other Race Alone
 NH Multiracial (non-black multiracial)

Alternative Estimation Using Texas Legislative Council Procedures

I have created estimates of district CVAP percentages for Hispanics and persons who are non-Hispanic black alone or in combination. These estimates are based on 2016-2020 ACS data on citizen share at the tract level, which are then applied to each group's PL-94 2020 voting age population (VAP) for every block in the tract.

I have also created alternative estimates using the procedures followed by the Texas Legislative Council (TLC) in 2021, applying the TLC procedures to the recently released 2016-2020 ACS.

The procedure has these steps, which notably make no use of the voting age population by race/ethnicity from Census 2020. 1) The estimate of CVAP is taken from the ACS block group counts, using the racial/ethnic categories found in ACS. 2) Hispanics are one category. The ACS does not report CVAP for persons who are non-Hispanic black alone or in combination, which is how TLC describes the “black” population for redistricting purposes. TLC instead uses a “similar” ACS estimate that includes non-Hispanics who are black alone, black in combination with white, and black in combination with American Indian and/or Alaska Native. This count omits non-Hispanics who are black in combination with any other race or with any two or more other races. 3) To estimate each group's CVAP percentage in a district, TLC allocates whole block groups to districts. A block group is allocated to a district if it is wholly within the district or 50% or more of its total population as enumerated in Census 2020 is within the district. The 50% criterion assumes that each group's CVAP is located within or outside a district in the same proportion as the total population of all ages, whether citizen or not. TLC notes in addition that in cases of split block groups, the procedure results in some citizen voting age persons being counted as living in a district where they do not reside.

I have estimated CVAP for Congressional Districts in the Houston area using the TLC approach as applied to 2016-2020 ACS data. This is the one case where the Hispanic CVAP is close to the 50% threshold to be a majority Latino CVAP district. This procedure requires identifying which whole block groups to assign to each proposed district. It is carried out in two steps. 1) First, I identify blocks where the entire block group is within the same district. 2) For those block groups that are split between two districts, I calculate the 2020 populations of blocks in each district and assign all blocks to the district with the larger population share. Then I aggregate the ACS reported CVAP for Hispanics and for a “black” category that includes non-Hispanics who are black alone, black in combination with white, and black in combination with American Indian and/or Alaska Native. As stated in my report (p. 12), the TLC methodology yields

estimated Hispanic CVAP shares in proposed CD29' and CD38' (the districts with a Hispanic majority CVAP) that were within a tenth of a percent of my block-based procedure.

Census 2020 Undercount

A concern with the PL94 data from Census 2020 is that the Census Bureau has reported results of its Post-Enumeration Survey that document systematic undercounting of African Americans, Hispanics, and American Indians or Alaska Natives (AIAN) and overcounting of non-Hispanic whites, Asians, and Native Hawaiians or Other Pacific Islanders (NHPI). Specifically, the [Bureau's report](#) concludes that the black population was undercounted by 3.30% (compared to 2.06% in 2010). The Hispanic population was undercounted by 4.99%, a statistically significant increase from the 2010 undercount of 1.54%. The AIAN undercount was 5.64%. In contrast, the overcount was 1.64% for non-Hispanic whites, 2.62% for Asians, and 1.28% for NHPI. The implications of the undercount are particularly relevant for Texas, due to its combination of large Hispanic and black populations.

I have calculated how my estimates of every group's CVAP percentages in each block are likely affected by the undercount. For example, if the Hispanic undercount in a given block were 4.99% (equal to the national average), the true Hispanic CVAP percentage in that block would be 5.25% higher than the undercounted value. Similarly, if the national estimate held for a given block, the true black CVAP percentage would be 3.41% higher than my estimate, and the true AIAN CVAP percentage would be 5.98% higher. Hence there is strong reason to conclude that the estimates of CVAP percentage in this report, where I make no undercount correction, are understated for these three groups.

Appendix B. Data for Socioeconomic Disparities Analysis

1. ACS 2015-2019 PUMS Microdata

My analysis of socioeconomic disparities Texas-wide and in major urban areas is based on the ACS 2015-2019 PUMS microdata. In this file the survey data for a 1% sample of persons in every year is aggregated across five years. The Census Bureau designs the samples for each year so that the cumulative sample will be maximally representative of the population of small areas.

In order to protect the confidentiality of the sampled persons and households, people's location is identified only at one geographic scale within states. This scale is termed the Public Use Microdata Area (PUMA). It is much larger than a census tract and larger than many counties, with an average population size of 100,000. For the purpose of describing group-specific socioeconomic status in the areas of the state examined here, it was necessary to create a crosswalk between those areas and the PUMAs contained within them. The analyses reported here define the areas as follows:

Harris County	PUMAs 4601-4638.	County 201
Dallas County.	PUMAs 2301-2322.	County 113
Tarrant County	PUMAs 2501-2516	County 439
Bexar County	PUMAs 5901-5916.	County 029
El Paso County	PUMAs 3301-3306	County 141

The PUMS microdata make it possible to define subgroups of the population as non-Hispanic white alone, non-Hispanic black alone or in combination with another race, and Hispanic.

2. ACS 2015-2019 county tabulations

I used county-level tabulations from ACS 2015-2019 to distinguish counties within HD31. The PUMS microdata cannot be used for this purpose because HD31 includes portions of three PUMAs, which involve numerous other counties. No combination of PUMAs can represent the residents of HD31.

Data are reported separately for each of ten counties:

Brooks	County 47
Duval	County 131
Jim Hogg	County 247
Karnes	County 255
LaSalle	County 283
Live Oak	County 297
McMullen	County 311
Starr	County 427
Wilson	County 493
Zapata	County 505

Separate tabulations are reported by the Census Bureau for non-Hispanic white alone, non-Hispanic black alone, and Hispanic. Some additional combinations of black with another race are also available, but others are omitted. The ACS samples in these counties have small numbers of black respondents, and data are not reported separately for black residents for a number of counties and key variables. For this reason, my analysis of disparities in HD31 is limited to a comparison of whites and Hispanics.

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Appendix C. Compactness of Proposed Districts

This report refers to a variety of previous and currently enacted redistricting plans, and also to alternative illustrative plans that I developed.

A relevant quantitative measure to assess the maps I created is the *Polsby-Popper* measure of compactness. The Polsby-Popper measure is the isoperimetric ratio comparing a region's area to its perimeter. In the case where the district is a circle, this metric achieves its maximum value of 1. In real-world applications it tends to be much lower. I calculated the Polsby-Popper scores for Congressional Districts in Houston and West Texas and for State House Districts in West Texas, which I present below. For comparison I also calculated the Polsby-Popper scores for all of the enacted Congressional Districts and State House Districts in Texas (C2193 and H2361). The tables below show that the compactness of the districts I propose is well within the usual range for the State of Texas.

Appendix Table 1 reports these scores. The average enacted CD in Texas has a score of .189, with a wide range of values from .038 to .532. My illustrative CDs in Houston have a mean score of .185, and a range from .056 to .369. The three proposed CDs in West Texas range from .222 to .463. Enacted HDs in Texas have an average score of .251, with a range from .070 to .608. The proposed HDs in West Texas have a mean of .319, and a narrower range from .163 to .480. The proposed districts in these three areas have values of compactness that are within the usual distribution of values in Texas.

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Appendix Table 1. Polsby-Popper scores for CDs and HDs					
38 Enacted CDs			150 enacted HDs		
Mean	0.189		Mean	0.251	
Minimum	0.038		Minimum	0.070	
Maximum	0.532		Maximum	0.608	
Proposed CDs in Houston			Proposed HDs in West Texas		
18'	0.056		74'	0.163	
10'	0.072		81'	0.171	
29'	0.083		77'	0.265	
17'	0.137		79'	0.365	
38'	0.138		78'	0.467	
7'	0.142		75'	0.480	
2'	0.150		Mean	0.319	
8'	0.203				
22'	0.232				
9'	0.252				
36'	0.275				
14'	0.297				
27'	0.369				
Mean	0.185				
Proposed CDs in West Texas					
20'	0.138				
23'	0.222				
16'	0.463				
Mean	0.275				

EXHIBIT 2

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Supplement to Expert Report by Ryan D. Enos, PhD

1. In this supplement to my expert report, I conduct racially polarized voting and opportunity analysis for enacted Congressional Districts (CDs) 2, 8, 22, and 36, enacted Texas House of Representative Districts (HDs) 53 and 88, and illustrative CDs 9, 16, 18, 20, and 29; calculate opportunity analysis for enacted HD 43; calculate the Latino and Black citizen voting age populations (CVAP) for former and enacted CDs and HDs; identify the voting tabulation districts (VTDs) split by the creation of enacted CDs 23 and 24 and calculate the share of the Anglo, Latino, and Black voting-age population (VAP) in those VTDs retained and excluded from the district; and identify VTDs in former CD 24 with a majority Latino VAP that were retained in the enacted CD 24 and examine the electoral participation by Latinos in these VTDs.
2. I used the same data sources, analyzed the same elections, and, where applicable, used the same methodologies as in my main report.

Racially Polarized Voting Analysis

Enacted CDs

3. Analysis of racially polarized voting in enacted CDs 2, 8, 22, and 36 using CVAP is in Figure 1 and using November 2020 Spanish Surname Voter Registration (SSVR) is in Figure 2. These figures present analysis for each CD separately and for the four CDs pooled together. These results are also in Tables 8 to 15. Note that some of my opinions about racial bloc voting in these districts are sensitive to whether the data source is CVAP or SSVR. In contrast, in the main report I prepared, I also examined both CVAP and SSVR, but I found the results to be substantively similar in all districts that I analyzed.
4. Anglos are cohesive in CDs 2, 8, 22, and 36, regardless of the data source. Using CVAP, Latinos are not cohesive in CDs 2 and 22. CD 8 is a marginal case for cohesion, with cohesion increasing in recent elections. Latinos in CD 36 are cohesive in all elections except those in 2014. Anglos and Latinos are polarized in all CDs.
5. Using SSVR, Latinos are cohesive in CDs 2, 8, and 36, but not CD 22. Anglos and Latinos are polarized in CDs 2, 36, and 8, but not in CD 22.

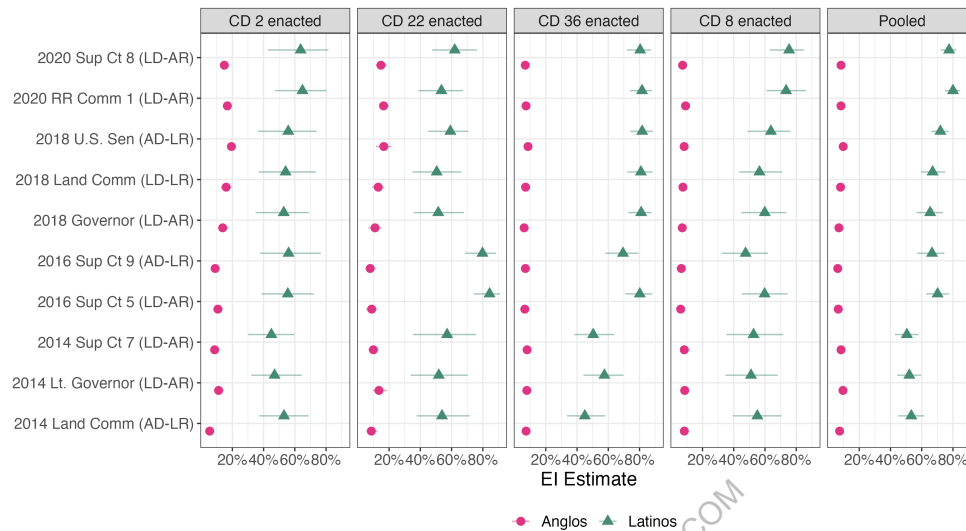


Figure 1: Enacted CDs 2, 8, 22, and 36 voting by race, CVAP

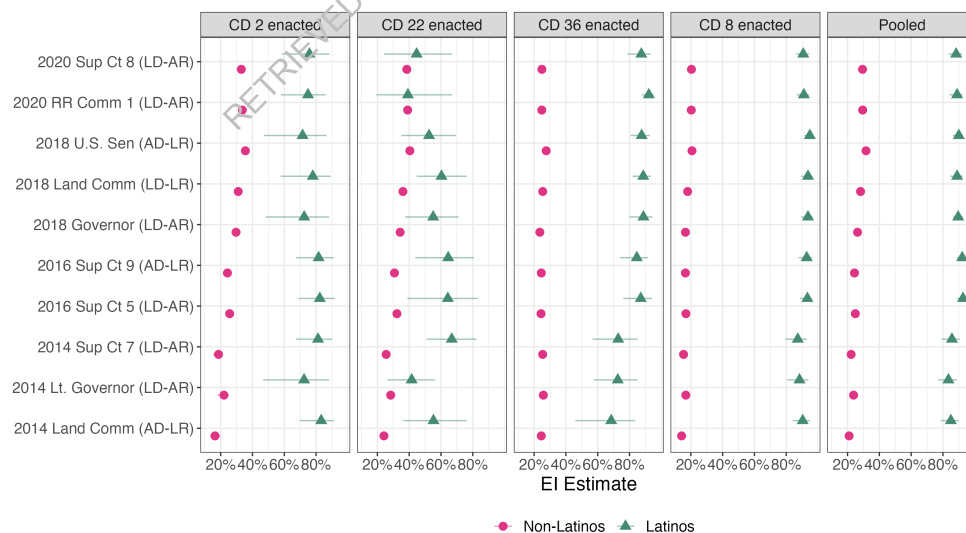


Figure 2: Enacted CDs 2, 8, 22, and 36 voting by race, SSVR

Enacted HDs

6. Analysis of racially polarized voting in enacted HDs 53 and 88 using CVAP is in Figure 3 and in Figure 4 using SSVR. These results are also in Tables 16 to 21. Note that, similar to the CDs above, some of my opinions about racial bloc voting in HDs 53 and 88 are sensitive to whether the data source is CVAP or SSVR.

7. Using CVAP, Anglos are cohesive in both HDs 53 and 88. Latinos are not cohesive in either HD 53 or 88. Latinos and Anglos are polarized in HD 88 but not HD 53.

8. Using SSVR, Anglos are cohesive in both HDs. In my opinion, Latinos are also cohesive in both HDs because they reach the 60% threshold in nearly all elections. Anglos and Latinos are polarized across groups in both HDs.

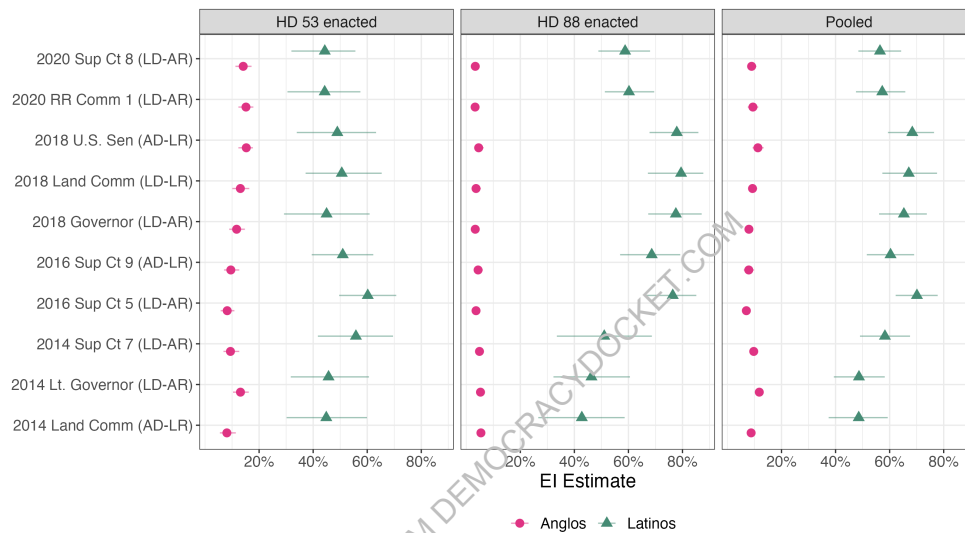


Figure 3: Enacted HDs 53 and 88 voting by race, CVAP

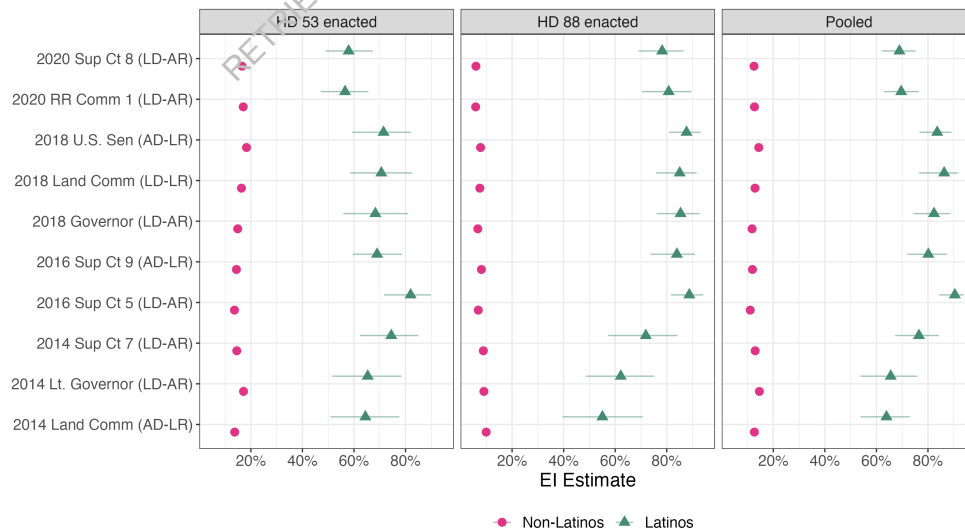


Figure 4: Enacted HDs 53 and 88 voting by race, SSVR

Illustrative CDs

9. Analysis of racially polarized voting using CVAP for illustrative CDs 9 and 18 is in Figure 5 and for illustrative CDs 16, 20, and 29 in Figure 6-8. These results are also in Tables 22-26. The analysis of CDs 16, 20, and 29 examines Latino voters and the analysis of CDs 9 and 18 examines Black voters, so these figures display different elections.

10. In CDs 9 and 18, Black voters are cohesive in all relevant elections. Anglos in CD 9 are cohesive in all elections except the 2020 Supreme Court election. While Anglos in CD 18 consistently vote as a majority against the minority candidate, they are not cohesive because they usually do not meet the 60% threshold of support for a candidate. Blacks and Anglos are polarized from each other in both CDs 9 and 18.

11. In CDs 16, 20, and 29, Latinos and Anglos are each cohesive within their own group and polarized from each other in all relevant elections.

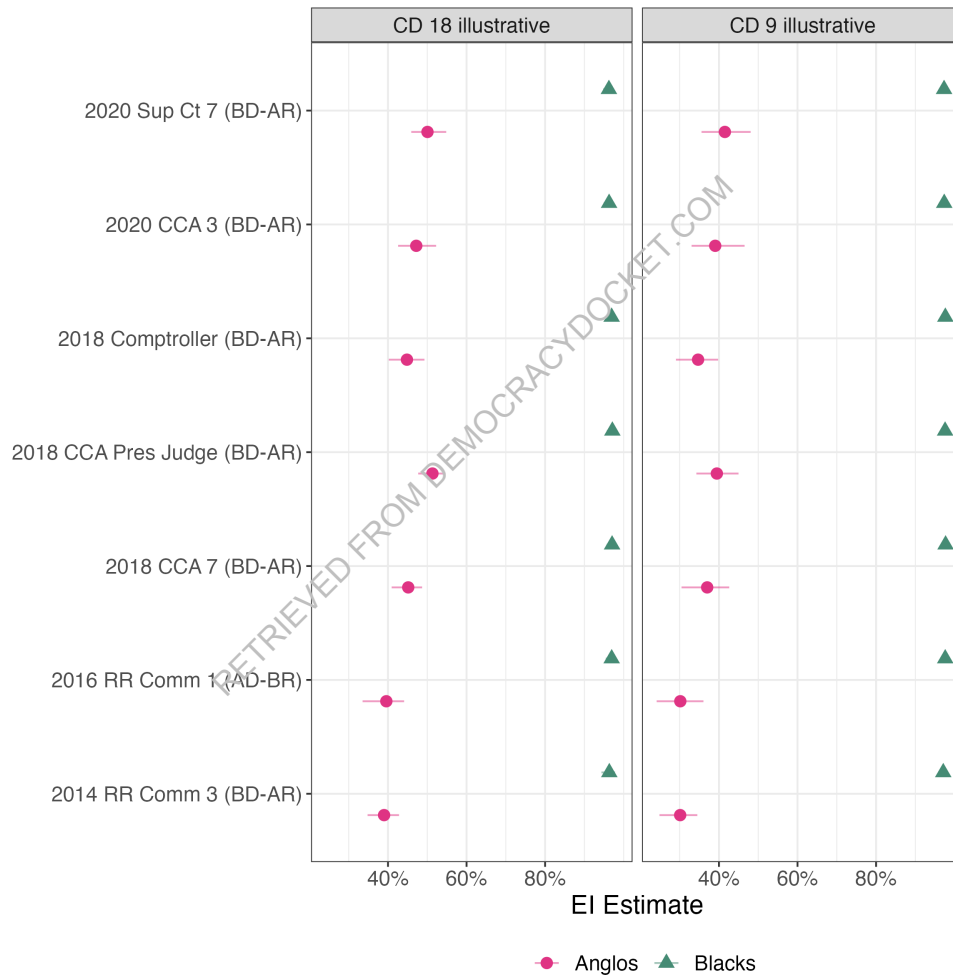


Figure 5: Illustrative CDs 9 and 18 voting by race, CVAP

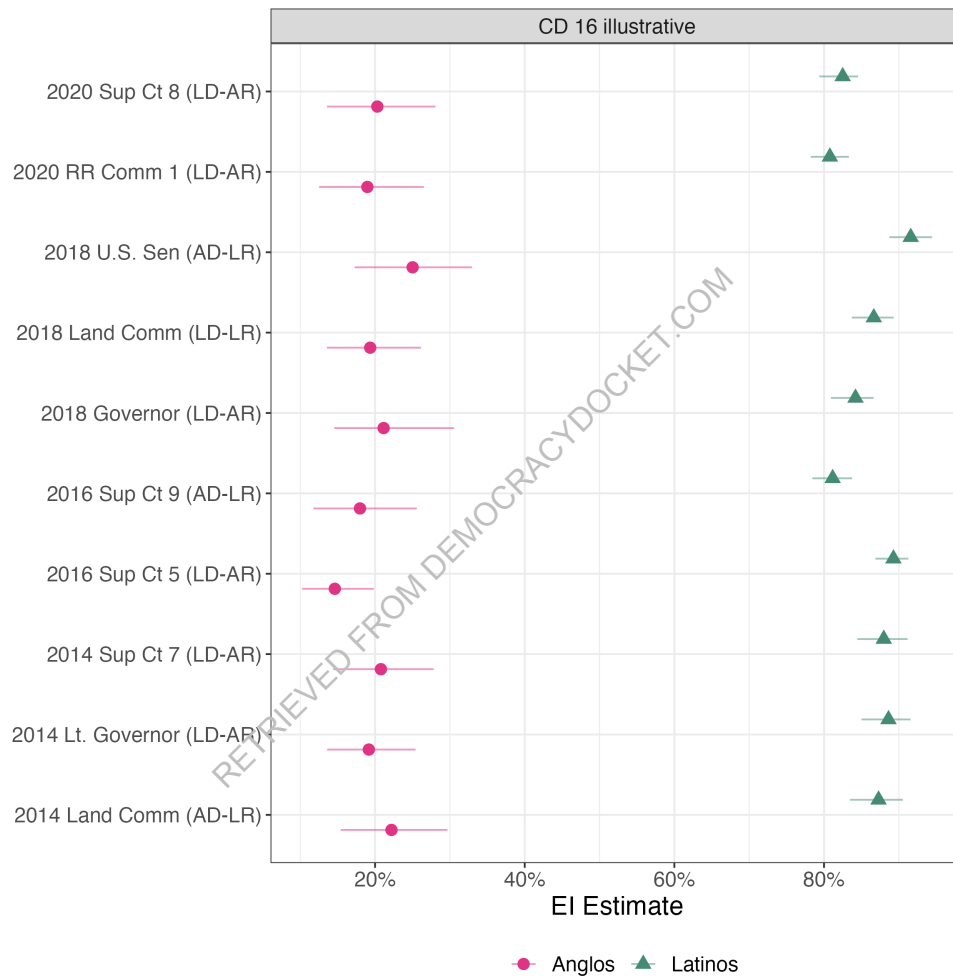


Figure 6: Illustrative CD 16 voting by race, CVAP



Figure 7: Illustrative CD 20 voting by race, CVAP

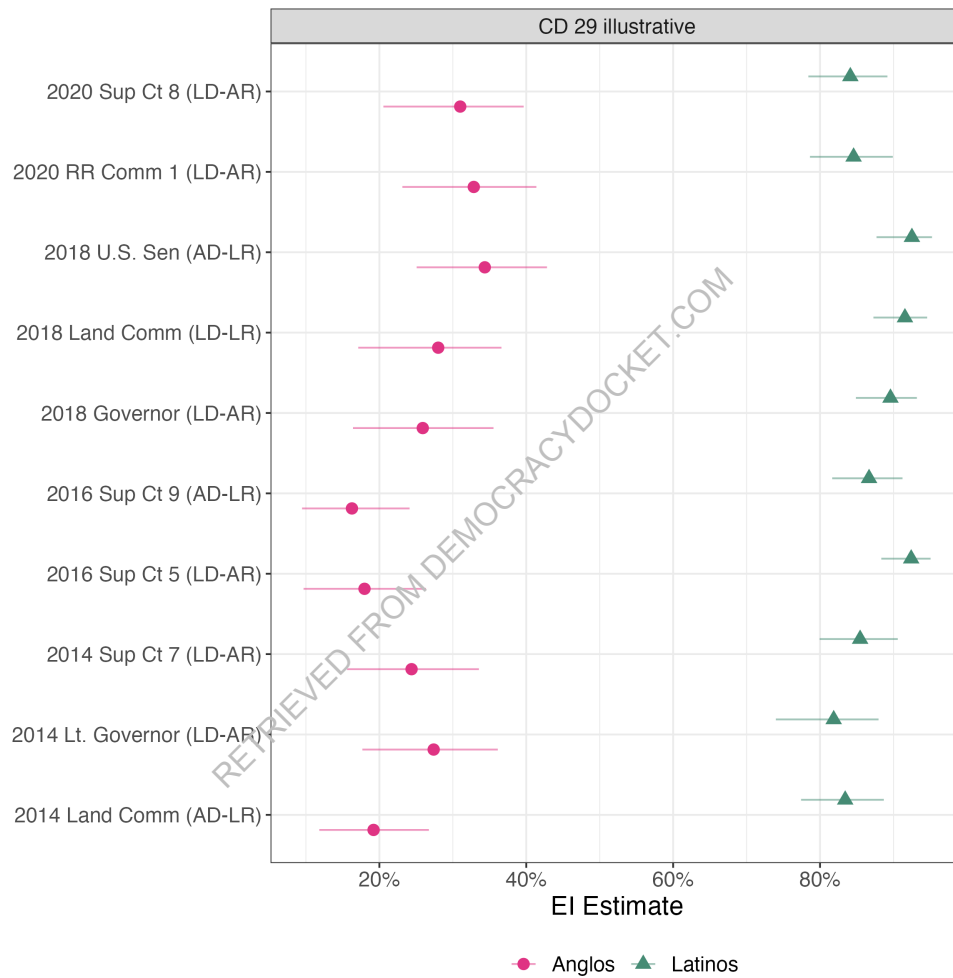


Figure 8: Illustrative CD 29 voting by race, CVAP

Opportunities for Minority Preferred Candidates

Enacted CDs

12. Opportunity analysis for enacted CDs 2, 8, 22, and 36 is in Table 1. These enacted CDs are not opportunity districts for Latino voters. Note that there were no Latino candidates contesting endogenous elections in any of the districts, except for a single election in CD 8. Latino preferred candidates lost badly in all exogenous elections in the former districts and would continue to do so in the enacted districts. In Figures 9-12, I compare the exogenous election results in the former and enacted districts.

District	Former Districts		Former Districts		All Elections		Enacted Districts	
	Endogenous Elections	Exogenous Elections	Exogenous Elections	Exogenous Elections	Margin	Win %	Margin	Win %
2		0	-15.90	0	-15.90	0	-35.93	0
8	-47.04	0	-51.62	0	-51.05	0	-36.16	0
22		0	-15.59	0	-15.59	0	-30.32	0
36		0	-48.21	0	-48.21	0	-35.81	0

Table 1: Congressional Districts Opportunity District Analysis

Enacted HDs

13. Opportunity analysis for enacted HDs 43, 53, and 88 is in Table 2. These enacted HDs are not opportunity districts for Latino voters. Latino preferred candidates lost badly in all exogenous elections in the former districts and would continue to do so in the enacted districts. In Figures 13-15, I compare the exogenous election results in the former and enacted districts.

District	Former Districts						Enacted Districts	
	<u>Endogenous Elections</u>		<u>Exogenous Elections</u>		<u>All Elections</u>		<u>Exogenous Elections</u>	
	Margin	Win %	Margin	Win %	Margin	Win %	Margin	Win %
43	-22.43	0	-13.15	0	-15.93	0	-16.85	0
53	-56.40	0	-56.05	0	-56.10	0	-55.18	0
88		0	-68.14	0	-68.14	0	-67.91	0

Table 2: House Districts Opportunity District Analysis

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Illustrative CDs

14. Opportunity analysis for illustrative CDs 9, 16, 18, 20, and 29 is in Table 3. Both the enacted and illustrative CDs 16, 18, and 20 are opportunity districts for Latino voters. Both the enacted and illustrative CDs 9 and 18 are opportunity districts for Black voters. In Figures 16-20, I compare the exogenous election results in the enacted and illustrative districts.

District	Enacted Districts Exogenous Elections		Illustrative Districts Exogenous Elections	
	Margin	Win %	Margin	Win %
9	50.31	100	36.12	100
16	31.80	100	30.57	100
18	45.17	100	41.40	100
20	28.44	100	9.37	100
29	40.36	100	26.78	100

Table 3: Illustrative Congressional Districts Opportunity District Analysis

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Latino and Black CVAP in Former and Enacted CDs

Tables 4 and 5 are of the Latino and Black CVAP in the former and enacted CDs and HDs. These were calculated using Census Block-level CVAP.

Table 4: Former and Enacted Congressional Districts Percent Latino and Black CVAP

District	Latino Enacted	Latino Former	Black Enacted	Black Former
1	9.3	10.6	19.3	18.3
2	21.9	24.1	13.2	15.1
3	11.2	11.0	11.0	12.6
4	9.7	9.2	10.6	11.4
5	18.6	17.8	15.8	17.9
6	22.0	18.4	16.6	24.0
7	20.8	22.5	25.2	19.3
8	22.5	16.5	14.5	10.1
9	25.9	27.1	48.6	50.1
10	17.6	21.1	11.0	13.0
11	32.1	30.5	12.6	4.4
12	17.7	16.9	12.6	11.0
13	20.3	19.9	7.9	6.4
14	17.9	18.9	17.1	21.1
15	74.2	73.5	1.6	2.6
16	78.6	77.0	4.0	4.4
17	18.0	19.8	16.9	14.2
18	28.7	28.4	41.9	44.5
19	32.1	30.9	7.5	7.5
20	67.3	64.1	7.2	6.9
21	26.0	24.4	4.2	4.6
22	23.2	21.5	13.5	17.7
23	56.4	62.2	4.6	4.7
24	12.5	16.2	8.0	15.8
25	15.4	15.5	12.9	7.7
26	13.5	14.5	10.5	10.8
27	47.8	45.9	5.0	5.6
28	69.0	69.4	6.1	6.3
29	62.3	64.7	20.2	17.3
30	22.3	24.8	48.7	51.3
31	18.1	20.0	8.9	13.0
32	21.1	16.3	25.7	16.2
33	42.1	48.9	29.5	26.4
34	86.4	79.5	0.7	1.6
35	46.1	51.8	15.1	10.8
36	22.1	19.8	13.8	10.5
37	20.8		7.2	
38	18.9		11.6	

Table 5: Former and Enacted House Districts Percent Latino and Black CVAP

District	Latino Enacted	Latino Former	Black Enacted	Black Former
1	4.5	5.0	20.5	20.1
2	10.2	10.2	7.0	7.0
3	19.2	18.7	4.6	10.5
4	14.2	13.4	13.5	12.8
5	10.4	11.0	9.3	10.5
6	12.2	12.7	19.2	19.9
7	9.0	8.6	22.0	18.9
8	12.9	14.5	15.7	15.9
9	10.4	5.9	15.1	18.3
10	19.9	19.0	13.7	13.1

11	8.7	11.1	17.1	17.2
12	15.7	17.6	19.9	18.9
13	15.8	14.3	17.2	11.4
14	20.7	21.3	10.6	12.5
15	14.8	14.8	8.5	8.2
16	15.4	17.3	7.4	6.9
17	28.6	33.8	8.2	7.8
18	14.1	17.1	7.8	15.9
19	13.2	5.8	1.5	11.0
20	17.1	16.2	4.8	3.9
21	7.3	11.1	12.6	10.8
22	15.8	13.2	45.9	52.4
23	20.5	20.4	15.5	18.5
24	16.3	16.4	10.7	7.7
25	23.4	27.6	19.4	12.8
26	18.9	15.6	13.7	14.7
27	17.9	16.9	48.4	47.5
28	23.6	18.0	13.4	19.0
29	26.2	23.8	13.8	19.1
30	33.4	36.3	7.7	5.5
31	64.7	75.6	2.2	1.4
32	40.5	48.2	4.4	5.1
33	12.7	12.6	10.9	10.3
34	70.0	67.8	4.1	3.8
35	91.8	84.7	0.3	0.5
36	89.7	90.2	0.4	0.4
37	78.0	86.5	1.1	0.4
38	92.1	87.3	0.4	0.6
39	88.8	88.7	0.2	0.2
40	90.1	91.0	1.3	1.2
41	82.1	82.2	1.0	0.9
42	93.6	94.2	0.6	0.5
43	59.5	61.9	3.4	3.4
44	33.1	33.1	8.2	6.9
45	37.7	32.0	5.9	4.8
46	27.1	29.7	21.2	21.4
47	13.7	14.2	3.9	3.2
48	21.7	21.4	4.7	4.7
49	18.9	17.4	5.0	5.3
50	29.5	24.3	17.4	15.1
51	43.0	43.1	10.4	10.9
52	21.5	25.0	8.7	11.7
53	29.8	26.4	2.0	1.8
54	20.9	20.6	28.8	30.1
55	20.6	20.2	21.2	16.9
56	17.1	17.7	11.0	11.5
57	15.3	11.6	13.9	16.8
58	18.4	17.9	4.1	4.1
59	13.5	15.9	8.2	9.2
60	9.7	12.2	1.8	2.2
61	10.0	9.4	13.0	1.5
62	7.9	7.9	6.6	6.8
63	15.7	12.4	12.3	6.8
64	14.8	16.2	8.6	11.0
65	13.3	16.4	13.8	19.3
66	10.1	9.5	10.5	13.7
67	12.6	11.3	12.4	11.4
68	13.3	16.3	2.8	3.9
69	14.9	14.2	9.5	10.1
70	10.6	11.9	14.0	13.4
71	20.2	21.3	8.2	8.8
72	32.5	33.6	4.1	4.2

73	19.8	20.0	2.4	2.2
74	75.5	74.5	2.5	1.7
75	87.9	87.8	2.9	2.9
76	19.1	87.1	26.5	2.5
77	85.9	74.2	2.5	4.4
78	67.7	66.9	5.0	5.8
79	77.1	78.8	4.7	4.1
80	76.6	85.2	1.3	1.2
81	52.7	52.0	5.5	5.2
82	36.5	37.2	7.5	7.3
83	29.3	30.1	4.5	4.4
84	34.8	34.3	12.8	13.2
85	19.5	30.8	15.7	17.8
86	24.0	24.2	3.3	3.4
87	28.7	28.5	8.7	9.5
88	38.3	38.8	4.1	3.8
89	13.0	11.8	11.6	11.5
90	50.4	59.0	18.9	15.8
91	19.3	18.7	8.4	8.3
92	21.8	14.9	33.3	19.7
93	18.9	20.2	12.1	17.7
94	15.1	16.2	13.7	18.4
95	21.3	21.2	49.1	48.7
96	15.4	17.4	18.7	25.3
97	15.1	15.8	13.2	16.9
98	9.7	9.8	6.0	5.1
99	21.2	21.0	11.5	7.9
100	30.1	25.7	50.0	43.9
101	23.1	26.3	37.3	38.6
102	18.1	15.2	34.6	21.2
103	37.6	38.1	16.0	17.2
104	55.5	60.0	15.7	19.3
105	33.0	33.9	21.2	18.5
106	12.4	13.6	10.8	13.9
107	41.9	28.4	21.6	21.5
108	7.3	11.7	5.3	8.8
109	17.7	18.5	60.4	64.8
110	34.6	38.8	52.8	49.8
111	23.0	24.1	57.0	55.8
112	13.5	20.7	13.1	20.1
113	24.8	24.0	28.8	25.3
114	19.4	13.1	16.2	22.6
115	16.1	19.9	17.6	16.0
116	59.8	60.4	8.6	8.6
117	66.2	56.5	8.4	9.2
118	57.7	68.5	5.8	4.2
119	65.0	61.4	10.9	11.8
120	44.5	44.1	25.4	25.4
121	32.5	35.9	7.1	7.4
122	34.0	32.6	4.9	5.4
123	59.7	61.6	5.2	5.2
124	66.6	66.9	9.9	8.6
125	62.5	68.0	6.0	5.7
126	20.2	25.3	16.1	20.9
127	22.1	22.0	18.8	18.8
128	29.9	30.0	11.9	11.6
129	23.2	22.7	9.4	10.9
130	18.3	19.1	10.3	10.8
131	37.2	34.0	49.3	52.2
132	23.3	30.6	14.4	19.8
133	15.2	14.7	18.6	16.4
134	13.1	13.0	8.1	8.0

135	37.0	28.8	26.0	21.4
136	21.1	17.1	10.1	6.6
137	31.2	31.0	36.2	40.3
138	27.5	33.4	11.0	14.1
139	27.5	31.6	47.0	45.3
140	69.4	68.2	16.4	16.9
141	29.4	29.8	59.5	59.9
142	33.3	34.0	46.7	46.7
143	62.8	63.7	18.2	18.5
144	64.4	67.0	9.1	6.4
145	51.9	60.5	10.9	11.9
146	16.9	19.3	55.8	54.2
147	25.5	25.3	37.8	37.6
148	39.6	42.3	19.9	9.5
149	33.0	29.7	32.8	32.4
150	21.8	21.8	17.7	19.3

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Split VTDs in Enacted CDs 23 and 24

15. In Table [6](#), I examine VTDs that are split between enacted CD 23 and adjacent CDs, including the percent of Anglo VAP and the percent of Latino VAP in these VTDs that is retained in CD 23 and the percent of each that is placed in adjacent CDs. I calculate this by examining the Census Blocks in the split VTDs. There are 15 VTDs split across CD 23 and adjacent CDs. 64.0% of the total Anglo VAP in these VTDs is retained in CD 23, and 36.0% of the total Anglo VAP in these VTDs is within adjacent CDs. 56.4% of the total Latino VAP in these VTDs is retained in CD 23, and 43.6% of the total Latino VAP in these VTDs is within adjacent CDs.

	Anglo VAP %	Latino VAP %
In CDs Adjacent to CD 23	36.0	43.6
Retained in CD 23	64.0	56.4

Table 6: Anglo and Latino VAP in VTDs split by Enacted CD 23

16. The same analysis for enacted CD 24 is in Table [7](#). In this CD, I also analyze the percent of Black VAP that is retained in CD 24 and the percent that is placed in adjacent CDs. There are 27 VTDs that are split between CD 24 and adjacent CDs. 38.1% of the total Anglo VAP in these VTDs is retained in CD 24, and 61.9% of the total Anglo VAP in these VTDs is within adjacent CDs. 20.9% of total Latino VAP in these VTDs is retained in CD 24, and 79.1% of the total Latino VAP in these VTDs is within adjacent CDs. 15.2% of total Black VAP in these VTDs is retained in CD 24, and 84.8% of the total Black VAP in these VTDs is within adjacent CDs.

Retained	Anglo VAP %	Latino VAP %	Black VAP %
In CDs Adjacent to CD 24	61.9	79.1	84.8
Retained in CD 24	38.1	20.9	15.2

Table 7: Anglo, Latino, and Black VAP in VTDs split by Enacted CD 24

Latino Majority VAP VTDs in Former and Enacted CD 24

In the former CD 24, there were 253 VTDs. Of those 253 VTDs, 27 had a majority Latino VAP. Of those 27 VTDs, 3 are maintained in enacted CD 24, which has 255 total VTDs. In these three VTDs retained in enacted CD 24, voters with a Spanish surname were 30.5% of registered voters in 2020 (SSVR) and from 2014 to 2020, 24.9% of all voter turnout was by voters with a Spanish surname (SSTO). One of these VTDs only had 42 total registered voters in 2020 and only a single case of turnout by any voter with a Spanish surname between 2014 and 2020.

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Tables of Ecological Inference Results for Racial Bloc Voting

Office	Year	Enacted		
		Latinos	Blacks	Anglos
Land Comm (AD-LR)	2014	53 (37, 69)	75 (60, 86)	5 (4, 8)
Lt. Governor (LD-AR)	2014	47 (32, 64)	78 (63, 88)	11 (8, 15)
Sup Ct 7 (LD-AR)	2014	45 (30, 60)	79 (68, 88)	9 (6, 12)
Sup Ct 5 (LD-AR)	2016	55 (39, 72)	90 (83, 95)	11 (8, 14)
Sup Ct 9 (AD-LR)	2016	56 (38, 77)	90 (83, 95)	9 (7, 12)
Governor (LD-AR)	2018	53 (35, 69)	91 (84, 96)	14 (11, 17)
Land Comm (LD-LR)	2018	54 (37, 74)	91 (85, 95)	16 (13, 19)
U.S. Sen (AD-LR)	2018	56 (36, 74)	91 (85, 95)	19 (16, 22)
RR Comm 1 (LD-AR)	2020	65 (47, 80)	92 (86, 96)	17 (14, 19)
Sup Ct 8 (LD-AR)	2020	64 (43, 81)	92 (87, 96)	15 (12, 18)
Avg.		55	87	13

Table 8: EI CVAP: Enacted CD 2

Office	Year	Enacted		
		Latinos	Blacks	Anglos
Land Comm (AD-LR)	2014	55 (39, 70)	68 (51, 82)	8 (6, 11)
Lt. Governor (LD-AR)	2014	51 (35, 68)	67 (48, 83)	9 (7, 11)
Sup Ct 7 (LD-AR)	2014	53 (35, 72)	75 (59, 88)	8 (6, 11)
Sup Ct 5 (LD-AR)	2016	60 (45, 74)	84 (70, 91)	6 (4, 8)
Sup Ct 9 (AD-LR)	2016	48 (32, 62)	84 (75, 91)	6 (5, 8)
Governor (LD-AR)	2018	60 (45, 74)	85 (76, 92)	7 (5, 9)
Land Comm (LD-LR)	2018	56 (43, 71)	86 (78, 92)	7 (5, 10)
U.S. Sen (AD-LR)	2018	64 (49, 76)	87 (79, 92)	8 (6, 10)
RR Comm 1 (LD-AR)	2020	74 (61, 86)	88 (81, 93)	9 (6, 12)
Sup Ct 8 (LD-AR)	2020	75 (63, 85)	86 (77, 92)	7 (5, 10)
Avg.		60	81	8

Table 9: EI CVAP: Enacted CD 8

Office	Year	Enacted		
		Latinos	Blacks	Anglos
Land Comm (AD-LR)	2014	54 (38, 72)	80 (69, 89)	9 (5, 12)
Lt. Governor (LD-AR)	2014	52 (34, 70)	77 (62, 87)	14 (10, 19)
Sup Ct 7 (LD-AR)	2014	57 (35, 76)	80 (65, 90)	10 (7, 13)
Sup Ct 5 (LD-AR)	2016	84 (74, 91)	86 (77, 93)	9 (5, 13)
Sup Ct 9 (AD-LR)	2016	80 (69, 89)	87 (78, 93)	8 (5, 11)
Governor (LD-AR)	2018	51 (36, 68)	83 (76, 90)	11 (7, 15)
Land Comm (LD-LR)	2018	50 (35, 66)	86 (79, 91)	13 (9, 17)
U.S. Sen (AD-LR)	2018	59 (45, 71)	83 (74, 90)	17 (12, 21)
RR Comm 1 (LD-AR)	2020	54 (39, 67)	90 (85, 94)	16 (14, 20)
Sup Ct 8 (LD-AR)	2020	62 (48, 76)	88 (82, 92)	15 (11, 19)
Avg.		60	84	12

Table 10: EI CVAP: Enacted CD 22

Office	Year	Enacted		
		Latinos	Blacks	Anglos
Land Comm (AD-LR)	2014	45 (34, 58)	89 (85, 93)	7 (5, 9)
Lt. Governor (LD-AR)	2014	57 (44, 70)	91 (86, 94)	8 (6, 10)
Sup Ct 7 (LD-AR)	2014	50 (38, 64)	90 (85, 93)	8 (6, 10)
Sup Ct 5 (LD-AR)	2016	80 (71, 88)	93 (89, 95)	7 (5, 8)
Sup Ct 9 (AD-LR)	2016	69 (58, 79)	92 (89, 95)	7 (5, 9)
Governor (LD-AR)	2018	81 (73, 88)	92 (88, 95)	6 (5, 8)
Land Comm (LD-LR)	2018	81 (72, 88)	92 (88, 95)	7 (6, 9)
U.S. Sen (AD-LR)	2018	82 (74, 89)	93 (90, 95)	9 (7, 10)
RR Comm 1 (LD-AR)	2020	82 (74, 88)	92 (88, 95)	7 (6, 9)
Sup Ct 8 (LD-AR)	2020	80 (72, 87)	92 (88, 95)	7 (6, 8)
Avg.		71	91	7

Table 11: EI CVAP: Enacted CD 36

Office	Year	Enacted	
		Latinos	Non-Latinos
Land Comm (AD-LR)	2014	83 (70, 91)	16 (13, 20)
Lt. Governor (LD-AR)	2014	72 (47, 88)	22 (18, 25)
Sup Ct 7 (LD-AR)	2014	81 (67, 90)	19 (15, 21)
Sup Ct 5 (LD-AR)	2016	82 (69, 92)	26 (23, 28)
Sup Ct 9 (AD-LR)	2016	82 (67, 91)	24 (22, 26)
Governor (LD-AR)	2018	73 (48, 88)	30 (27, 32)
Land Comm (LD-LR)	2018	78 (58, 89)	31 (29, 33)
U.S. Sen (AD-LR)	2018	72 (47, 87)	36 (34, 37)
RR Comm 1 (LD-AR)	2020	75 (58, 86)	34 (32, 35)
Sup Ct 8 (LD-AR)	2020	76 (58, 88)	33 (31, 35)
Avg.		77	27

Table 12: EI SSVR: Enacted CD 2

Office	Year	Enacted	
		Latinos	Non-Latinos
Land Comm (AD-LR)	2014	90 (84, 95)	14 (12, 17)
Lt. Governor (LD-AR)	2014	88 (80, 94)	17 (14, 19)
Sup Ct 7 (LD-AR)	2014	87 (79, 93)	15 (13, 18)
Sup Ct 5 (LD-AR)	2016	93 (89, 96)	17 (15, 19)
Sup Ct 9 (AD-LR)	2016	93 (88, 96)	17 (15, 19)
Governor (LD-AR)	2018	94 (89, 97)	17 (14, 19)
Land Comm (LD-LR)	2018	94 (89, 97)	18 (16, 20)
U.S. Sen (AD-LR)	2018	95 (91, 97)	21 (18, 23)
RR Comm 1 (LD-AR)	2020	91 (87, 95)	20 (18, 23)
Sup Ct 8 (LD-AR)	2020	91 (86, 94)	20 (19, 22)
Avg.		92	18

Table 13: EI SSVR: Enacted CD 8

Office	Year	Enacted	
		Latinos	Non-Latinos
Land Comm (AD-LR)	2014	55 (36, 76)	24 (22, 25)
Lt. Governor (LD-AR)	2014	42 (26, 56)	28 (28, 29)
Sup Ct 7 (LD-AR)	2014	67 (51, 82)	26 (24, 27)
Sup Ct 5 (LD-AR)	2016	64 (39, 83)	32 (31, 34)
Sup Ct 9 (AD-LR)	2016	65 (44, 81)	31 (29, 32)
Governor (LD-AR)	2018	55 (37, 71)	34 (33, 35)
Land Comm (LD-LR)	2018	60 (45, 76)	36 (35, 37)
U.S. Sen (AD-LR)	2018	53 (35, 69)	40 (39, 41)
RR Comm 1 (LD-AR)	2020	39 (19, 67)	39 (37, 40)
Sup Ct 8 (LD-AR)	2020	45 (24, 67)	39 (37, 40)
Avg.		54	33

Table 14: EI SSVR: Enacted CD 22

Office	Year	Enacted	
		Latinos	Non-Latinos
Land Comm (AD-LR)	2014	68 (46, 84)	25 (23, 27)
Lt. Governor (LD-AR)	2014	73 (58, 85)	26 (24, 28)
Sup Ct 7 (LD-AR)	2014	73 (57, 85)	25 (24, 27)
Sup Ct 5 (LD-AR)	2016	87 (76, 94)	24 (23, 26)
Sup Ct 9 (AD-LR)	2016	85 (74, 92)	25 (23, 26)
Governor (LD-AR)	2018	89 (80, 94)	24 (22, 25)
Land Comm (LD-LR)	2018	89 (82, 94)	25 (24, 27)
U.S. Sen (AD-LR)	2018	88 (81, 93)	28 (26, 29)
RR Comm 1 (LD-AR)	2020	92 (88, 95)	25 (24, 26)
Sup Ct 8 (LD-AR)	2020	87 (79, 93)	25 (24, 26)
Avg.		83	25

Table 15: EI SSVR: Enacted CD 36

Office	Year	Enacted	
		Latinos	Anglos
Land Comm (AD-LR)	2014	45 (30, 60)	8 (5, 11)
Lt. Governor (LD-AR)	2014	46 (32, 61)	13 (10, 16)
Sup Ct 7 (LD-AR)	2014	56 (42, 70)	9 (7, 13)
Sup Ct 5 (LD-AR)	2016	60 (50, 71)	8 (6, 11)
Sup Ct 9 (AD-LR)	2016	51 (39, 62)	10 (7, 13)
Governor (LD-AR)	2018	45 (29, 61)	12 (9, 15)
Land Comm (LD-LR)	2018	51 (37, 65)	13 (10, 16)
U.S. Sen (AD-LR)	2018	49 (34, 63)	15 (12, 18)
RR Comm 1 (LD-AR)	2020	44 (30, 57)	15 (12, 18)
Sup Ct 8 (LD-AR)	2020	44 (32, 56)	14 (11, 17)
Avg.		49	12

Table 16: EI CVAP: Enacted HD 53

Office	Year	Enacted	
		Latinos	Anglos
Land Comm (AD-LR)	2014	43 (27, 59)	5 (4, 7)
Lt. Governor (LD-AR)	2014	46 (32, 61)	5 (4, 7)
Sup Ct 7 (LD-AR)	2014	51 (34, 69)	5 (4, 7)
Sup Ct 5 (LD-AR)	2016	76 (66, 85)	4 (2, 5)
Sup Ct 9 (AD-LR)	2016	69 (57, 79)	4 (3, 6)
Governor (LD-AR)	2018	78 (67, 87)	3 (2, 5)
Land Comm (LD-LR)	2018	79 (67, 88)	4 (2, 5)
U.S. Sen (AD-LR)	2018	78 (68, 86)	5 (3, 6)
RR Comm 1 (LD-AR)	2020	60 (51, 70)	3 (2, 5)
Sup Ct 8 (LD-AR)	2020	59 (49, 68)	3 (2, 5)
Avg.		64	4

Table 17: EI CVAP: Enacted HD 88

Office	Year	Enacted	
		Latinos	Anglos
Land Comm (AD-LR)	2014	49 (37, 59)	9 (7, 10)
Lt. Governor (LD-AR)	2014	49 (39, 58)	12 (10, 13)
Sup Ct 7 (LD-AR)	2014	58 (49, 68)	10 (8, 11)
Sup Ct 5 (LD-AR)	2016	70 (62, 78)	7 (6, 8)
Sup Ct 9 (AD-LR)	2016	60 (52, 69)	8 (6, 10)
Governor (LD-AR)	2018	65 (56, 74)	8 (6, 9)
Land Comm (LD-LR)	2018	67 (57, 78)	9 (8, 11)
U.S. Sen (AD-LR)	2018	68 (59, 76)	11 (9, 13)
RR Comm 1 (LD-AR)	2020	57 (48, 66)	9 (8, 11)
Sup Ct 8 (LD-AR)	2020	56 (48, 64)	9 (7, 11)
Avg.		60	9

Table 18: EI CVAP: Enacted HDs 53 and 88 pooled

Office	Year	Enacted	
		Latinos	Non-Latinos
Land Comm (AD-LR)	2014	64 (51, 78)	14 (12, 15)
Lt. Governor (LD-AR)	2014	65 (52, 78)	17 (15, 19)
Sup Ct 7 (LD-AR)	2014	74 (62, 85)	15 (13, 16)
Sup Ct 5 (LD-AR)	2016	82 (72, 90)	14 (12, 15)
Sup Ct 9 (AD-LR)	2016	69 (59, 79)	14 (13, 16)
Governor (LD-AR)	2018	68 (56, 81)	15 (13, 16)
Land Comm (LD-LR)	2018	71 (59, 83)	16 (15, 18)
U.S. Sen (AD-LR)	2018	71 (59, 82)	18 (17, 20)
RR Comm 1 (LD-AR)	2020	57 (47, 66)	17 (16, 18)
Sup Ct 8 (LD-AR)	2020	58 (49, 67)	17 (15, 18)
Avg.		68	16

Table 19: EI SSVR: Enacted HD 53

Office	Year	Enacted	
		Latinos	Non-Latinos
Land Comm (AD-LR)	2014	55 (40, 71)	10 (8, 11)
Lt. Governor (LD-AR)	2014	62 (49, 75)	9 (7, 10)
Sup Ct 7 (LD-AR)	2014	72 (57, 84)	9 (7, 10)
Sup Ct 5 (LD-AR)	2016	89 (82, 94)	7 (5, 8)
Sup Ct 9 (AD-LR)	2016	84 (74, 91)	8 (7, 10)
Governor (LD-AR)	2018	85 (76, 93)	7 (5, 8)
Land Comm (LD-LR)	2018	85 (76, 92)	7 (6, 9)
U.S. Sen (AD-LR)	2018	88 (81, 93)	8 (6, 10)
RR Comm 1 (LD-AR)	2020	81 (70, 89)	6 (5, 7)
Sup Ct 8 (LD-AR)	2020	78 (69, 87)	6 (5, 7)
Avg.		78	8

Table 20: EI SSVR: Enacted HD 88

Office	Year	Enacted	
		Latinos	Non-Latinos
Land Comm (AD-LR)	2014	64 (54, 73)	13 (12, 14)
Lt. Governor (LD-AR)	2014	66 (54, 76)	15 (13, 16)
Sup Ct 7 (LD-AR)	2014	76 (67, 84)	13 (12, 14)
Sup Ct 5 (LD-AR)	2016	90 (84, 94)	11 (10, 12)
Sup Ct 9 (AD-LR)	2016	80 (72, 87)	12 (11, 13)
Governor (LD-AR)	2018	82 (74, 89)	12 (11, 13)
Land Comm (LD-LR)	2018	86 (76, 92)	13 (12, 14)
U.S. Sen (AD-LR)	2018	84 (77, 89)	14 (13, 15)
RR Comm 1 (LD-AR)	2020	70 (63, 76)	13 (12, 14)
Sup Ct 8 (LD-AR)	2020	69 (62, 75)	13 (12, 13)
Avg.		77	13

Table 21: EI SSVR: Enacted HDs 53 and 88 pooled

Office	Year	Blacks	Anglos
RR Comm 3 (BD-AR)	2014	97 (96, 98)	30 (25, 34)
RR Comm 1 (AD-BR)	2016	98 (96, 98)	30 (24, 36)
CCA 7 (BD-AR)	2018	98 (97, 99)	37 (30, 43)
CCA Pres Judge (BD-AR)	2018	98 (96, 98)	39 (34, 45)
Comptroller (BD-AR)	2018	98 (97, 98)	35 (29, 40)
CCA 3 (BD-AR)	2020	97 (96, 98)	39 (33, 47)
Sup Ct 7 (BD-AR)	2020	97 (96, 98)	42 (36, 48)
Avg.		97	36

Table 22: EI CVAP: Illustrative CD 9

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	87 (83, 91)	22 (15, 30)
Lt. Governor (LD-AR)	2014	89 (85, 92)	19 (14, 25)
Sup Ct 7 (LD-AR)	2014	88 (84, 91)	21 (14, 28)
Sup Ct 5 (LD-AR)	2016	89 (87, 91)	15 (10, 20)
Sup Ct 9 (AD-LR)	2016	81 (78, 84)	18 (12, 26)
Governor (LD-AR)	2018	84 (81, 87)	21 (15, 31)
Land Comm (LD-LR)	2018	87 (84, 89)	19 (14, 26)
U.S. Sen (AD-LR)	2018	92 (89, 94)	25 (17, 33)
RR Comm 1 (LD-AR)	2020	81 (78, 83)	19 (13, 27)
Sup Ct 8 (LD-AR)	2020	82 (79, 85)	20 (14, 28)
Avg.		86	20

Table 23: EI CVAP: Illustrative CD 16

Office	Year	Blacks	Anglos
RR Comm 3 (BD-AR)	2014	96 (94, 98)	39 (35, 43)
RR Comm 1 (AD-BR)	2016	97 (95, 98)	40 (34, 44)
CCA 7 (BD-AR)	2018	97 (96, 98)	45 (41, 49)
CCA Pres Judge (BD-AR)	2018	97 (96, 98)	51 (48, 55)
Comptroller (BD-AR)	2018	97 (95, 98)	45 (40, 49)
CCA 3 (BD-AR)	2020	96 (95, 98)	47 (43, 52)
Sup Ct 7 (BD-AR)	2020	96 (95, 98)	50 (46, 55)
Avg.		97	45

Table 24: EI CVAP: Illustrative CD 18

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	87 (82, 91)	13 (9, 17)
Lt. Governor (LD-AR)	2014	90 (87, 93)	23 (17, 30)
Sup Ct 7 (LD-AR)	2014	91 (87, 93)	17 (12, 23)
Sup Ct 5 (LD-AR)	2016	93 (91, 95)	12 (8, 17)
Sup Ct 9 (AD-LR)	2016	89 (86, 92)	12 (8, 17)
Governor (LD-AR)	2018	88 (84, 92)	18 (13, 25)
Land Comm (LD-LR)	2018	93 (90, 95)	16 (10, 23)
U.S. Sen (AD-LR)	2018	93 (90, 95)	30 (24, 36)
RR Comm 1 (LD-AR)	2020	91 (88, 93)	18 (14, 23)
Sup Ct 8 (LD-AR)	2020	92 (89, 94)	18 (13, 21)
Avg.		91	18

Table 25: EI CVAP: Illustrative CD 20

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	83 (77, 89)	19 (12, 27)
Lt. Governor (LD-AR)	2014	82 (74, 88)	27 (18, 36)
Sup Ct 7 (LD-AR)	2014	85 (80, 91)	24 (16, 34)
Sup Ct 5 (LD-AR)	2016	92 (88, 95)	18 (10, 26)
Sup Ct 9 (AD-LR)	2016	87 (82, 91)	16 (9, 24)
Governor (LD-AR)	2018	90 (85, 93)	26 (16, 36)
Land Comm (LD-LR)	2018	92 (87, 95)	28 (17, 37)
U.S. Sen (AD-LR)	2018	93 (88, 95)	34 (25, 43)
RR Comm 1 (LD-AR)	2020	85 (79, 90)	33 (23, 41)
Sup Ct 8 (LD-AR)	2020	84 (78, 89)	31 (21, 40)
Avg.		87	26

Table 26: EI CVAP: Illustrative CD 29

Additional Figures for Opportunity District Analysis

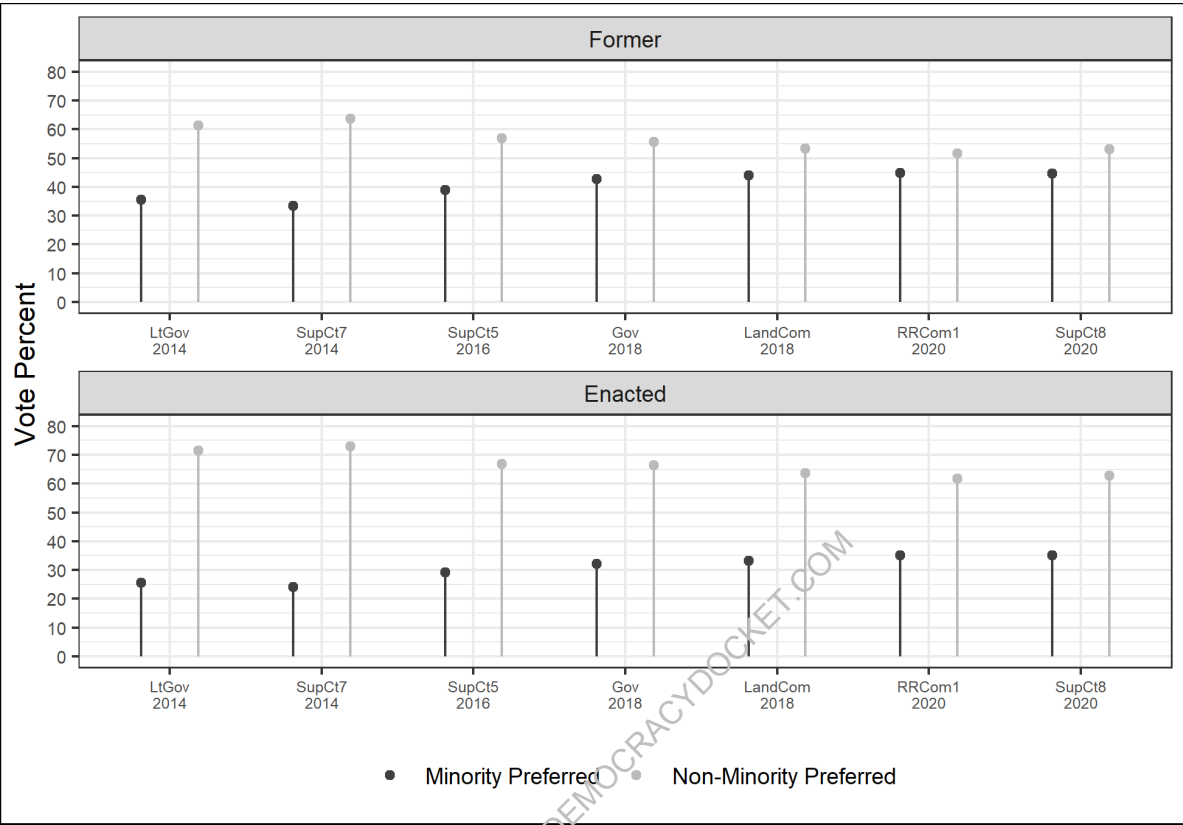


Figure 9: Congressional District 2

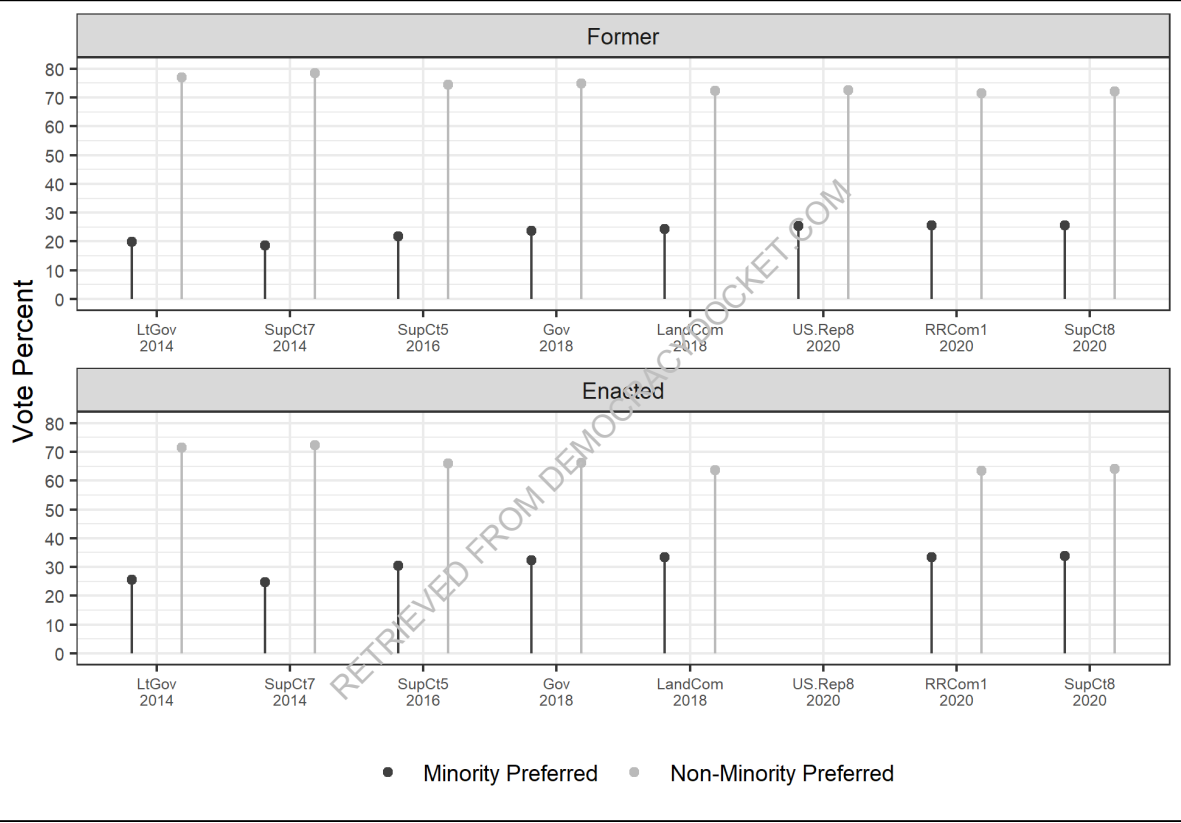


Figure 10: Congressional District 8

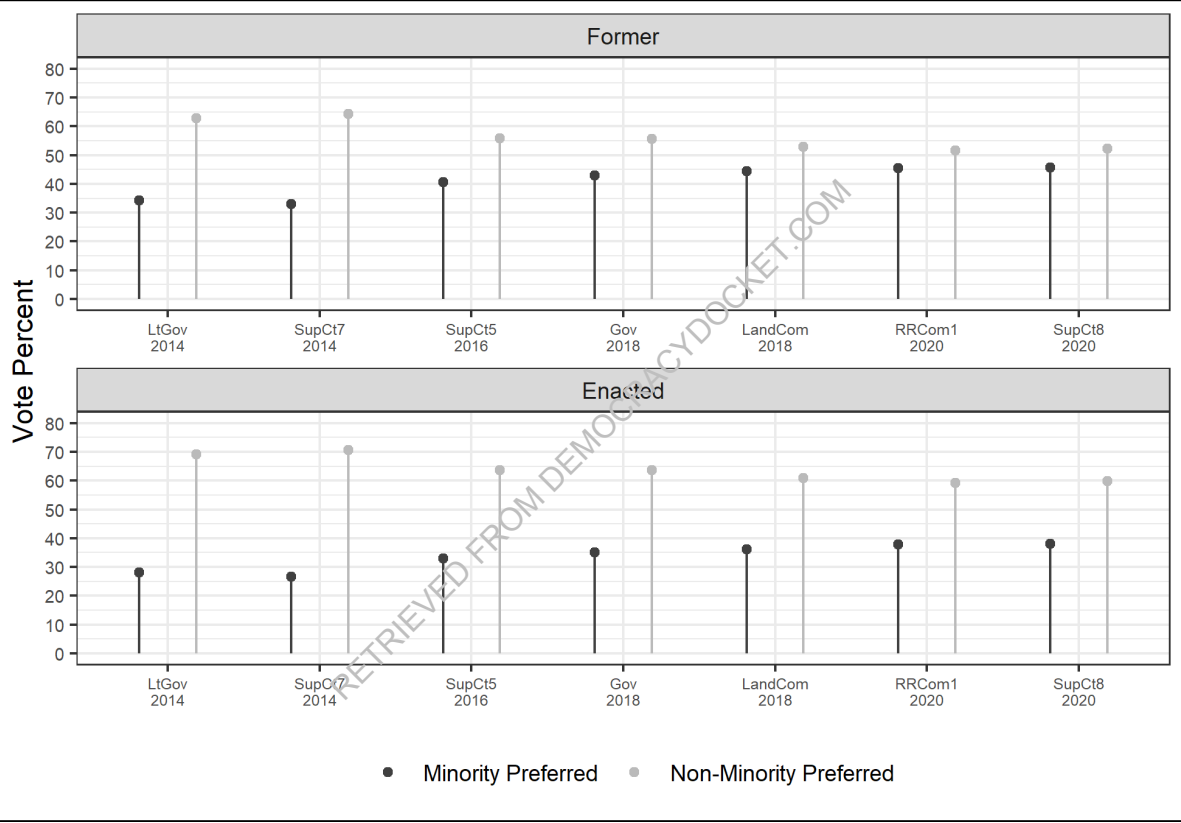


Figure 11: Congressional District 22

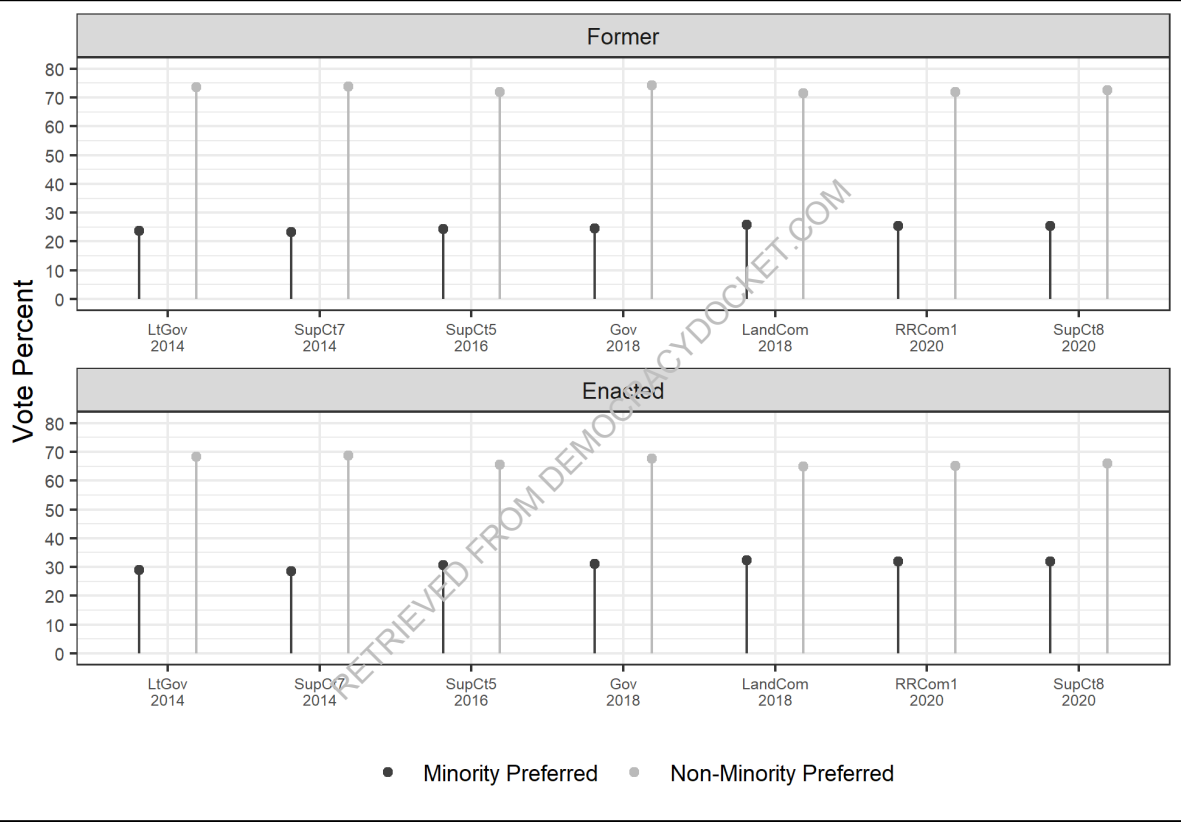


Figure 12: Congressional District 36

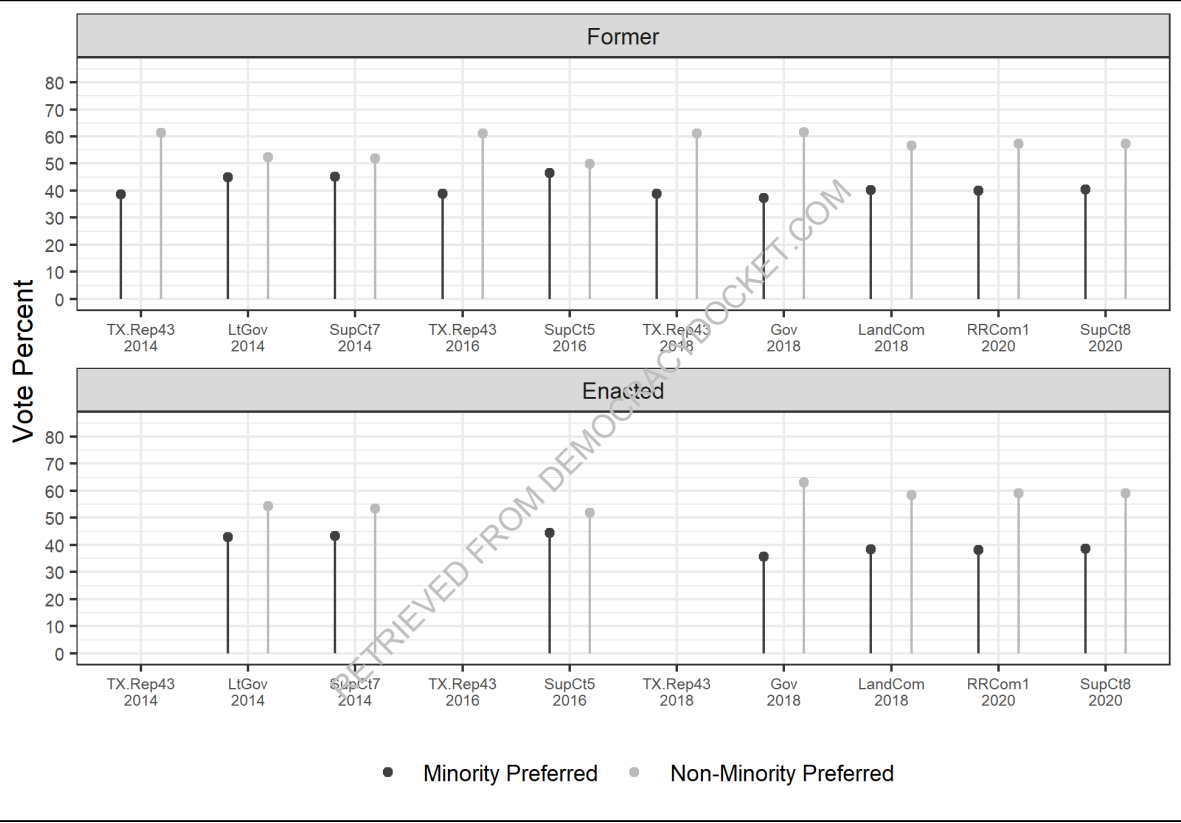


Figure 13: House District 43

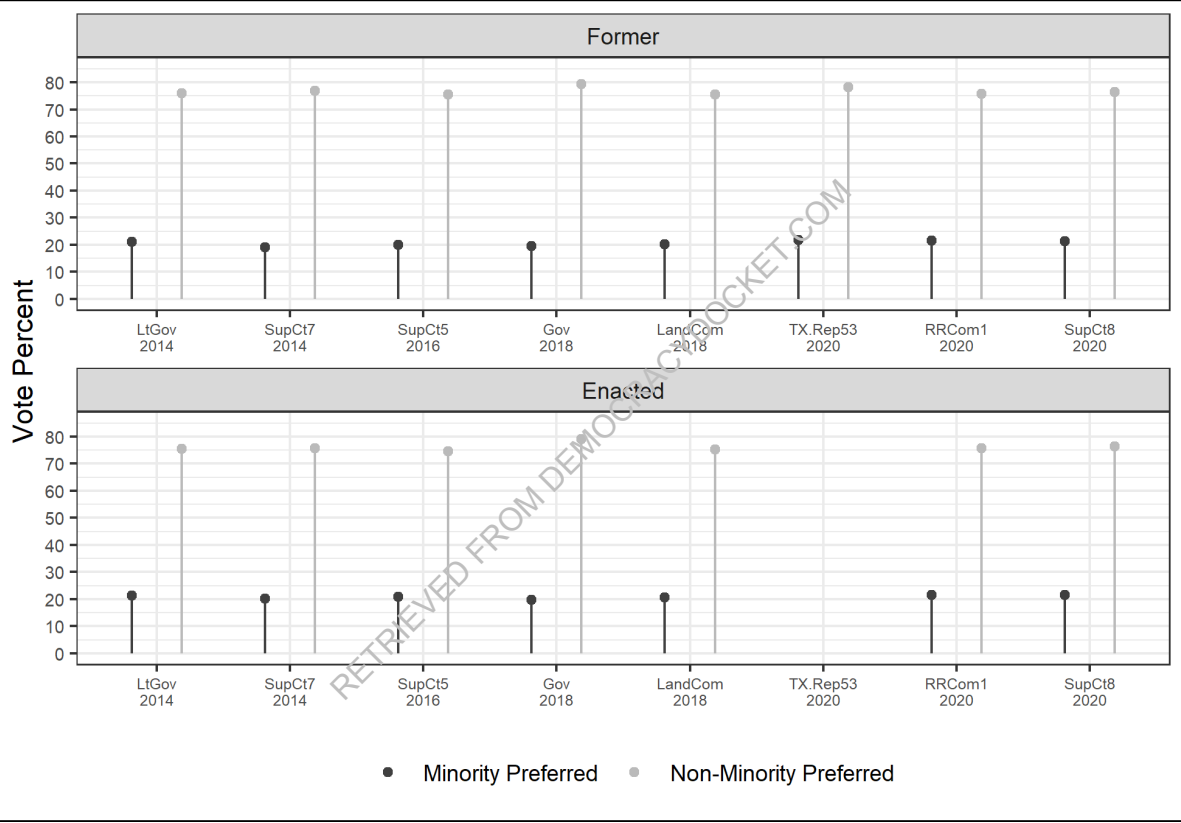


Figure 14: House District 53



Figure 15: House District 88

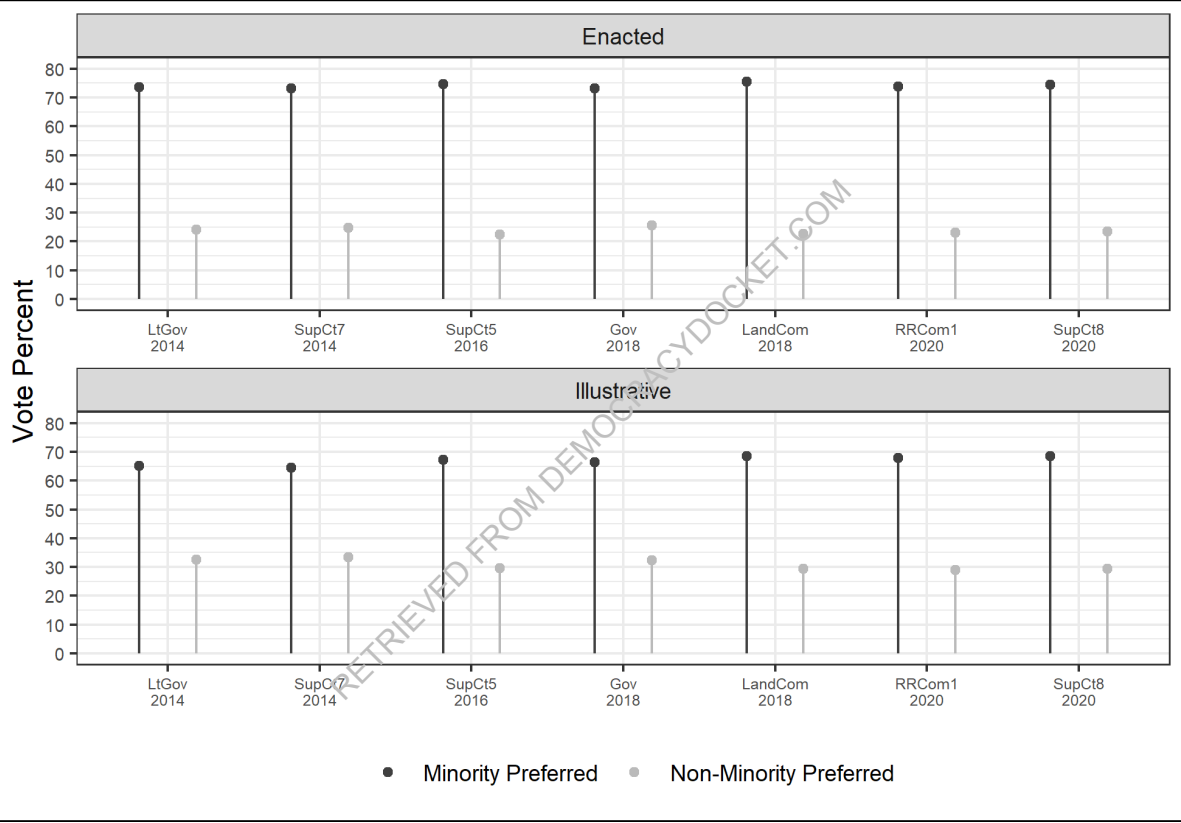


Figure 16: Illustrative Congressional District 9

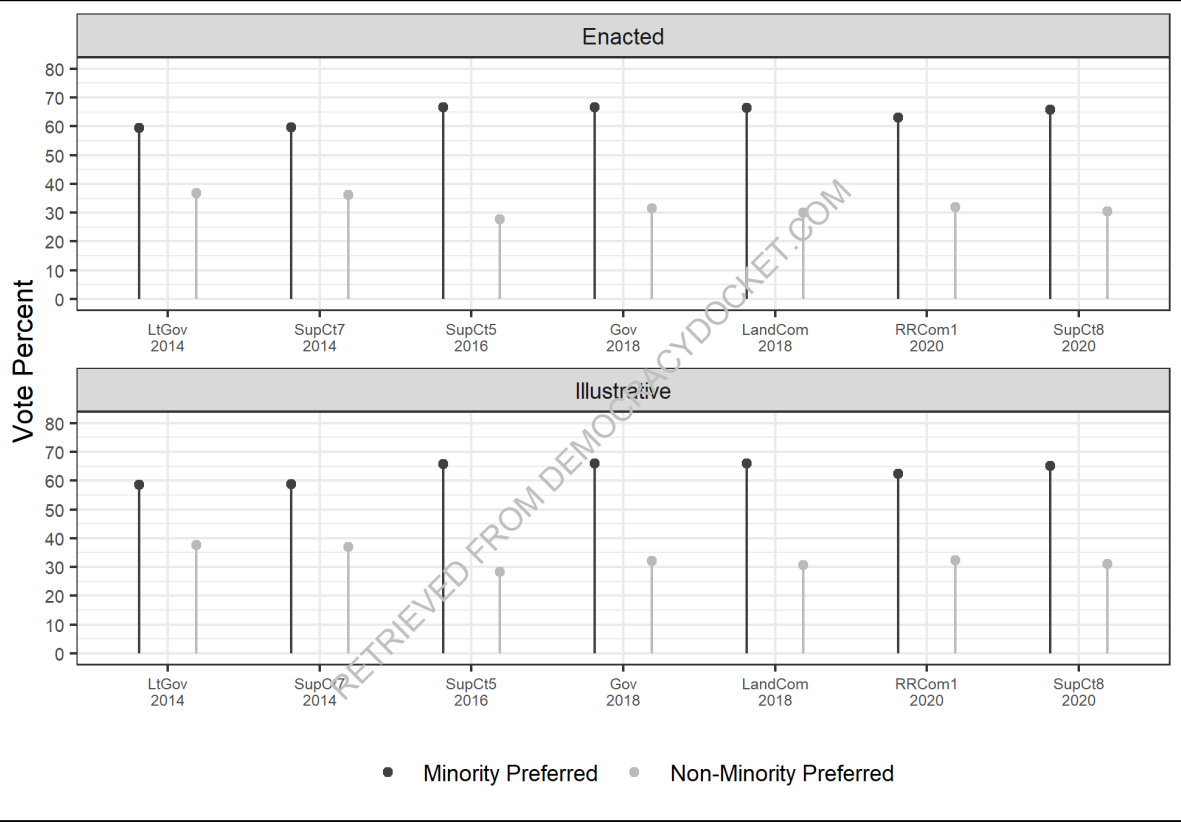


Figure 17: Illustrative Congressional District 16



Figure 18: Illustrative Congressional District 18

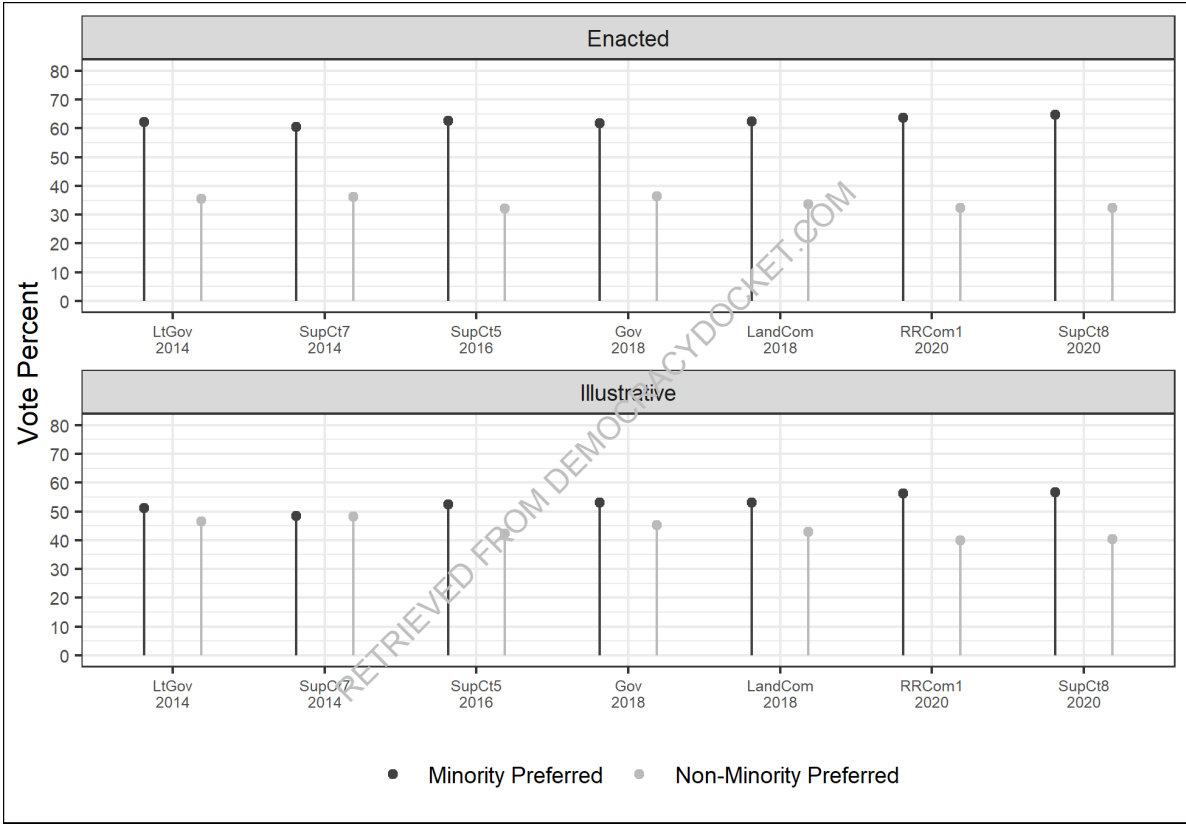


Figure 19: Illustrative Congressional District 20

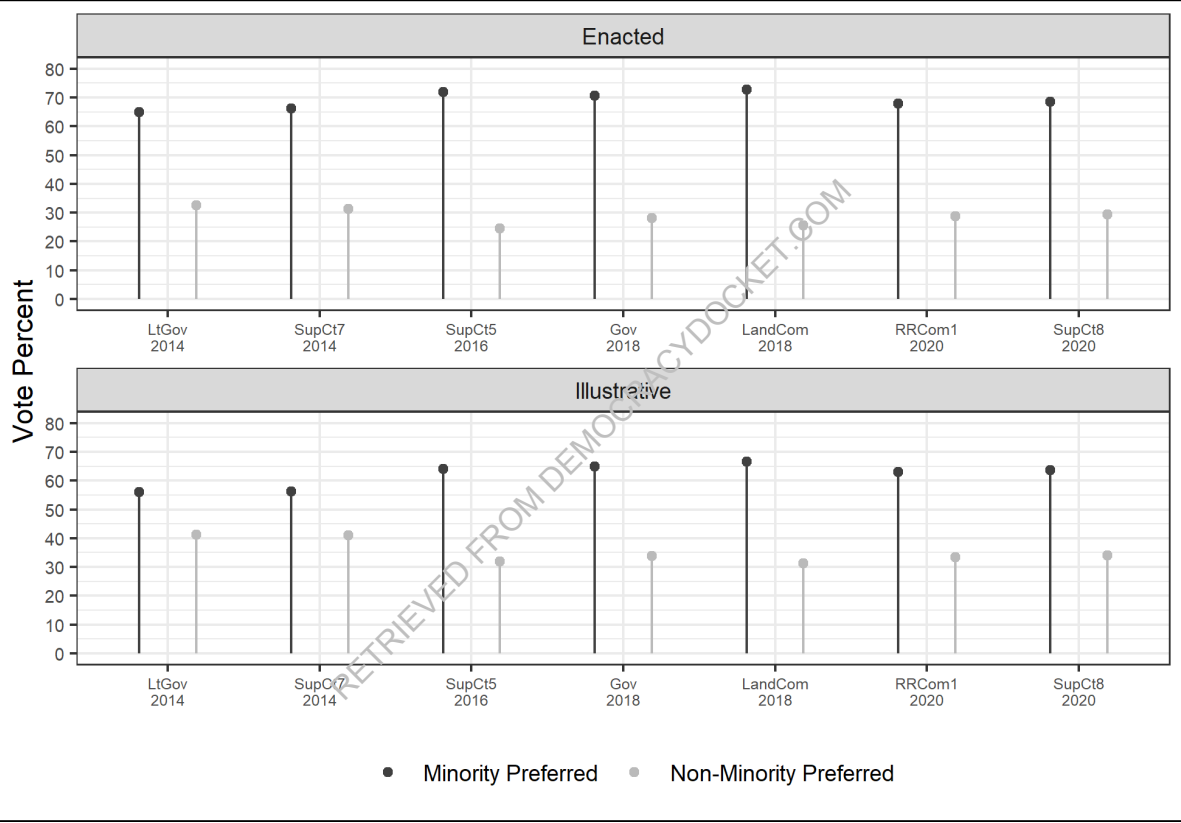


Figure 20: Illustrative Congressional District 29

A handwritten signature in black ink, consisting of a horizontal line followed by a loop and a long, sweeping horizontal stroke.

Ryan D. Enos 9 June 2022

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EXHIBIT 3

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Expert Report by Ryan D. Enos, PhD

1. My name is Ryan Enos. I am a Professor of Government at Harvard University. I am also the Director of the Center for American Political Studies and an affiliate of the Institute for Quantitative Social Science. I have been on faculty at Harvard since 2010 and was promoted to Professor with tenure in 2018. I received my PhD in Political Science from UCLA in 2010 and my BA in Political Science and History from the University of California, Berkeley in 2001. At Harvard, I teach both undergraduate and graduate-level courses and I have taught courses on the analysis of elections, political geography, political behavior and psychology, and American politics.

2. My professional research focuses on voting behavior, the politics of race and ethnicity, social and electoral geography, and campaigns and elections. I have published articles on these and other topics in peer-reviewed scholarly journals, including the *American Political Science Review*, *American Journal of Political Science*, *Election Law Journal*, *Journal of Empirical Legal Studies*, *Political Analysis*, *Proceedings of the National Academy of Sciences*, *Nature Human Behavior*, *Science Advances*, and other journals. I am the author of *The Space Between Us: Social Geography and Politics* (2017 Cambridge University Press). My published research has used statistical analysis, geographic methods (including the use of Geographic Information Systems (GIS)), and other methods of analysis and has used data from the U.S. Census, election returns, voters lists, and other records of voter behavior.

3. My compensation is \$450 per hour. No part of my compensation is dependent upon the conclusions that I reach or the opinions that I offer.

4. I have been retained by the United States to evaluate whether voting is racially cohesive and polarized in certain Congressional Districts (CDs) and State House Districts (HDs) and whether minority voters have opportunities to elect their preferred candidates under the former district boundaries, whether minority voters would be able to elect their preferred candidates in these districts under the state enacted redistricting plans, and whether minority voters would be able to elect their preferred candidates in these districts under the illustrative plans provided by the United States. I also report on relative proportionality for Latino voters under the former and enacted plans and, finally, whether there is evidence in social science research that socio-economic factors are related to voter turnout.

Summary of Findings

5. In CD 23 and in the newly created CD 38, Anglo and Latino voters vote cohesively within their own group and are polarized between groups, with each group voting cohesively for different candidates. The same pattern is present in HDs 31, 43, 74, 75, 76, 77, 78, 79, 81, and 118. Anglos, Latinos, and Blacks in CDs 6 and 24 each vote cohesively within their own group and are polarized, with Latinos and Blacks voting cohesively for the same candidates and Anglos voting cohesively for different candidates.

6. Under the enacted plan, minority voters in CDs 6, 23, 24, and 38 do not have an opportunity to elect their preferred candidates.

7. Under the enacted plan, minority voters in HDs 31 and 118 do not have an opportunity to elect their preferred candidates.

8. Under the former plan, HDs 74, 75, 76, 77, 78, and 79 were Latino opportunity districts in West Texas. The removal of HD 76 reduces the number of opportunity districts in West Texas from six to five.

- 9.** Under the enacted plan, minority voters in HD 81 do not have an opportunity to elect their preferred candidate.
- 10.** Under the enacted plan, representation for Latino voters has become less proportional for both the Texas Congressional delegation and the Texas House of Representatives. While the Latino Citizens Voting Age Population (CVAP) in Texas has significantly increased between 2010 and 2020, the proportion of seats in which Latinos have an opportunity to elect their preferred candidate has slightly decreased.
- 11.** Illustrative CDs 23 and 38 provide an opportunity for minority voters to elect their preferred candidate.
- 12.** Illustrative HDs 31, 74, 75, 77, 78, 79, 81, and 118 provide an opportunity for minority voters to elect their preferred candidate.
- 13.** There is strong evidence from social science research that low socio-economic status is correlated with low voter turnout.

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Elections Analyzed and Data Sources

14. For the examination of racially polarized voting, I examined CD 23 in West Texas, CDs 6 and 24 in the Dallas-Fort Worth area, and the newly created CD 38 in Harris County, HDs 31 and 43 in South Texas, HDs 74, 75, 76, 77, 78, 79, and 81 in West Texas and El Paso, and HD 118 in Bexar County. I also analyzed the counties surrounding these districts.

15. I examined the opportunity for minority voters to elect their preferred candidates in these same districts.

16. I examined conditions under the district boundaries in place since 2013,¹ which I will call the “former plan”, the boundaries enacted by the state after the 2020 Census, which I will call the “enacted plan,” and the illustrative plan from the United States.

17. Election returns came from data at the Voting Tabulation District (VTD) level provided by the state² and data on CVAP at the VTD-level created by merging data from the 2016–2020 American Community Survey (ACS) and 2020 Decennial Census with VTDs. The CVAP data was compiled by the United States at my request. I verified the quality of their data after it was provided to me. I also verified my analysis using Voting Age Population (VAP) and Spanish Surname Voter Registration (SSVR), also obtained from the state. The results were substantively unchanged using these different data sources.

18. I examined “endogenous” and “exogenous” elections in which a minority candidate was running for one or both of the two major parties (Republican or Democrat). Endogenous elections are elections for U.S. Representative in CDs and State Representatives in HDs. Exogenous elections are state-wide elections. For the racial bloc voting analysis, I only used elections which were contested by both of the major parties. To select elections, I examined every statewide General election from 2014 to 2020³ and every Congressional and State House election in the districts in question from 2014 to 2020 and determined whether a racial minority candidate was running for one of two major parties. In the CDs in the Dallas-Fort Worth Metroplex, where I was asked to examine the cohesiveness and opportunity for Black and Latino voters, I used elections that included either a Black or a Latino candidate. In all other analysis, I used elections that included a Latino candidate.⁴ I chose to start the analysis in 2014 because this gives the longest series of elections since the former Congressional Districts were enacted in 2013. Having a large number of elections means that no single election carries too much weight in the analysis and, thus, the analysis is not overly influenced by a particular year or candidate who may not be representative of larger trends. With this data, I am able to examine, at least, seven exogenous elections in each district.⁵

¹There were minor changes to this plan in 2019, limited to Tarrant County. Plan H411 was a remedy for a finding of racial gerrymandering in HD 90. All the districts I analyze were unaffected by these changes.

²<https://redistricting.capitol.texas.gov/>

³Possible elections to use were President, U.S. Senate, Governor, Lieutenant Governor, Attorney General, Comptroller, Commissioner of Land Use, Commissioner of Agriculture, Railroad Commissioner, Justice of Supreme Court of Texas, and Judge for Court of Criminal Appeals (CCA).

⁴In the analysis of CD 23, I also include two endogenous elections with a Filipino-American candidate with a Spanish surname.

⁵Another strategy could be to use only a single election in a given year, but the advantage of using multiple elections in a year, when available, is that it more accurately captures the average preferences of voters and avoids putting too much weight on a single candidate, who may be more or less popular for idiosyncratic reasons.

One might consider also starting the analysis in 2016 because the election of Donald Trump is sometimes considered an important inflection point in American politics and so earlier elections might be less relevant for understanding more recent elections and how voters are expected to behave in the future. I examined how my conclusions would be changed by only including elections from 2016–2020 and found that my substantive conclusions would be unchanged. Notably, in nearly every district examined for this report, the opportunity for the election of minority-preferred candidates actually became stronger after 2016.

Racially Polarized Voting Analysis

19. In analyzing racially polarized voting, I am examining whether a racial minority group systematically prefers one candidate, while a majority group prefers another candidate, with particular attention to cohesiveness when groups are voting for a candidate of their own racial group. There is no universally accepted threshold for determining if a group votes cohesively, but a threshold of 60% is reasonable because it signals a clear preference by the racial group. So, if at least 60% of the voters from one group vote for one candidate, I will call the voters cohesive in their preference for this candidate. A smaller threshold, say a simple majority, is less clearly cohesive and would give me less confidence in my determination.⁶ If another racial group cohesively supports a different candidate, then I say the election is racially polarized between the groups.

20. To examine this, in each election, I used a statistical procedure called ecological inference (EI). EI estimates group-level preferences based on aggregate data.⁷ I analyzed the results for four racial demographic groups: Non-Hispanic Black, Latino, Anglo, and Other, based on CVAP.⁸ The results of this analysis are estimates of the percentage of each group that voted for each candidate in each election. For each election, I produce the mean estimate of vote share and a 95% confidence interval.⁹ Full results of this analysis for the former and enacted districts are in Appendix A and I include figures below for certain areas of interest. I discuss the analysis of illustrative districts later in the report.

Congressional District 23 (West Texas)

21. Both Latino and Anglo voters in CD 23 are cohesive within their own group and polarized from each other in all relevant elections. The results are shown in Figure 1. In this and similar figures, Latinos are represented by green and Anglos by pink. Each election is on a different horizontal line and the points represent the vote for the Democratic candidate. Triangles for Latinos and circles for Anglos represent the mean estimate for each group and the 95% confidence intervals are represented by the horizontal lines. Examining how far a group is to the right of 60% gives a sense of how cohesive the group is in support of the Democratic candidate. Values below 40% represent cohesive voting for the Republican candidate.¹⁰ The distance between the groups gives a sense of the level of racial polarization. The party and race for the two major-party candidates are listed next to the office (D = Democrat, R = Republican, A = Anglo, L = Latino, B = Black). The estimates using the boundaries of the district in the former plan are shown in the left panel and in the enacted plan in the right panel.

Congressional Districts in the Dallas-Fort Worth Metroplex

22. Voting in CD 24 is represented in Figure 2. This figure is the same as Figure 1, but Black voters are represented by purple squares. Latino, Black, and Anglo voters are each cohesive within their own group in nearly all elections.¹¹ Notice that, based on the 95% confidence intervals, there is more uncertainty in the level of cohesiveness for Blacks. This greater uncertainty, compared to CD 23, is expected because of

⁶Due to statistical uncertainty (see footnote below) the closer a threshold is set to 50%, the more difficult it is to clearly understand which candidate a majority of the group supports. A threshold of 60% has also been used in previous academic treatments of the subject, see A.J. Lichtman, F. Hebert, "A general theory of vote dilution," *La Raza Law Journal*, 6 (1993), pp. 1-25.

⁷The analysis is performed using the package eiPack in the statistical software R: <https://cran.r-project.org/web/packages/eiPack/index.html>

⁸To define these groups, I used the same methodology as the state, where Latino includes anyone of Spanish-speaking heritage, regardless of race, Black includes anyone with any Black ancestry, Anglo includes Caucasians not of Hispanic heritage, and anyone else is defined as Other. In discussing the results, I use the word "race" and "ethnicity" interchangeably, even though they are not the same thing.

⁹The 95% confidence interval is a measure of uncertainty in the estimates from the model. For example, the model might estimate that 90% of one group voted for a candidate, with a 95% confidence interval of 87-93%. This means that 95% of the simulated estimates for this group fall in the range of 87-93%, with 90% being the mean estimate.

¹⁰In some cases, the election was also contested by a candidate from a party other than Democratic or Republican, so non-Democratic votes may represent a mix of votes for Republicans and other candidates. In practice, nearly all votes in these elections not going to the Democratic candidate went to the Republican candidate.

¹¹Latinos are cohesive in all 19 exogenous and endogenous elections. Anglos are cohesive in 18 of 19. Blacks are cohesive in all of the 19 elections.

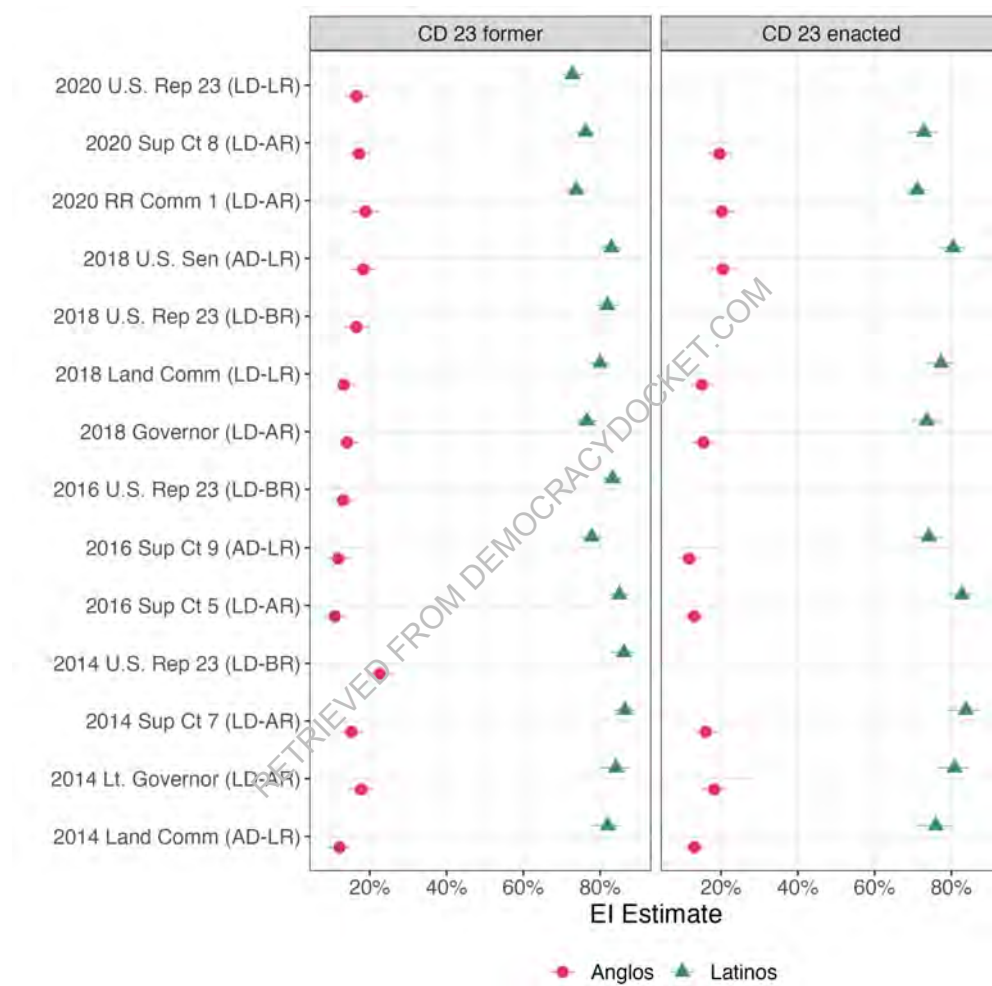


Figure 1: CD 23 voting by race

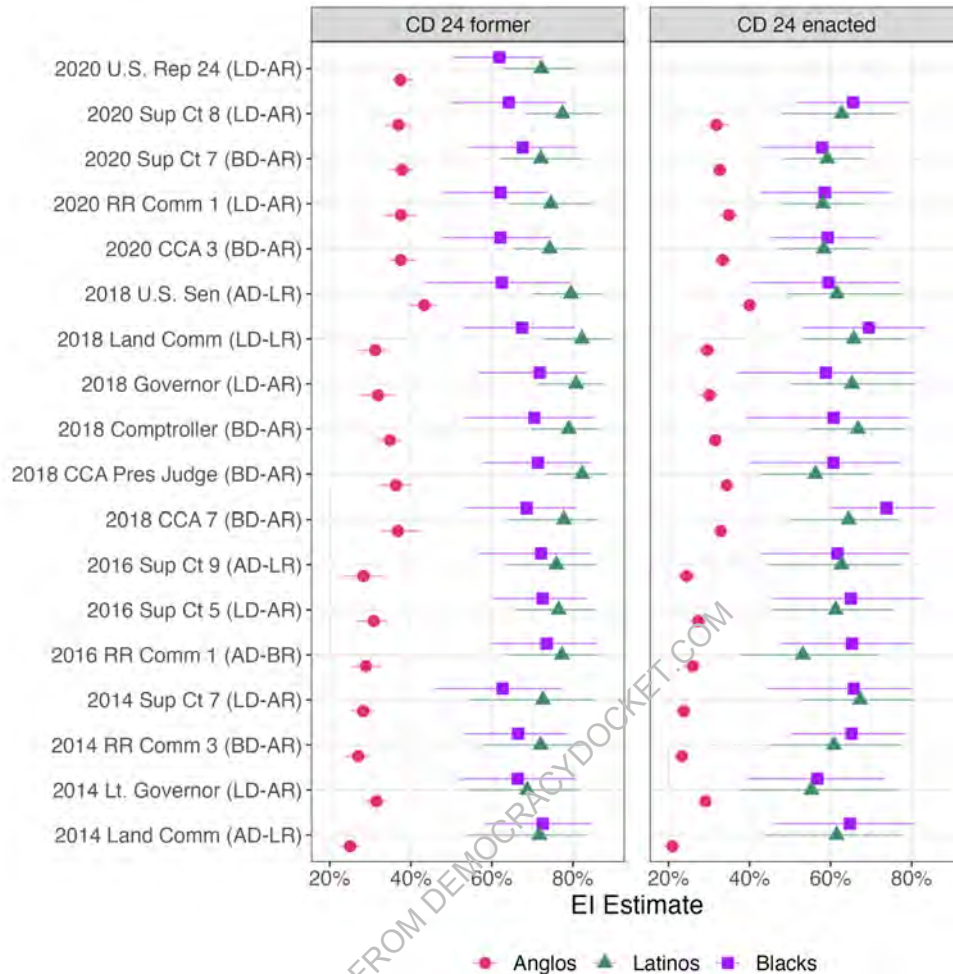


Figure 2: CD 24 voting by race

the relatively smaller populations of minority voters in CD 24. However, because of the consistency across all elections — the mean estimate for Black vote is greater than 60% in every election — the group is cohesive in my opinion.¹² Across all elections under the former plan, Blacks and Latinos vote cohesively for the Democratic candidate, while Anglos vote cohesively for the Republican candidate (except for the 2018 election for U.S. Senate), meaning that Blacks and Latinos are both polarized from Anglos.

23. A similar pattern can be found in CD 6 (see Figure 3), with Latino, Black, and Anglo voters each cohesive within their own group in every election. In contrast to CD 24, in CD 6 there is, based on the 95% confidence intervals, more uncertainty in the level of cohesiveness of Latinos, while there is greater certainly the cohesiveness of Blacks. However, because of the consistent pattern of Latino voting, the group is cohesive in my opinion. Across all elections, Blacks and Latinos vote cohesively for the Democratic candidate, while Anglos vote cohesively for the Republican candidate, meaning that Blacks and Latinos are both polarized from Anglos.

24. Looking at results from the CDs 24 and 6 pooled together (Table A5) and across all of Dallas and Tarrant Counties (Table A4), there is cohesion within each of the racial groups and clear polarization between Latinos

¹²In every election, the mean estimate is that Blacks support a candidate at greater than 60%, while the 95% confidence intervals also cross 60% in 17 of the 19 elections. This means that for each individual election, the best guess is that the support was greater than 60% but I cannot say with 95% confidence that the group voted more than 60% cohesively in that single election.

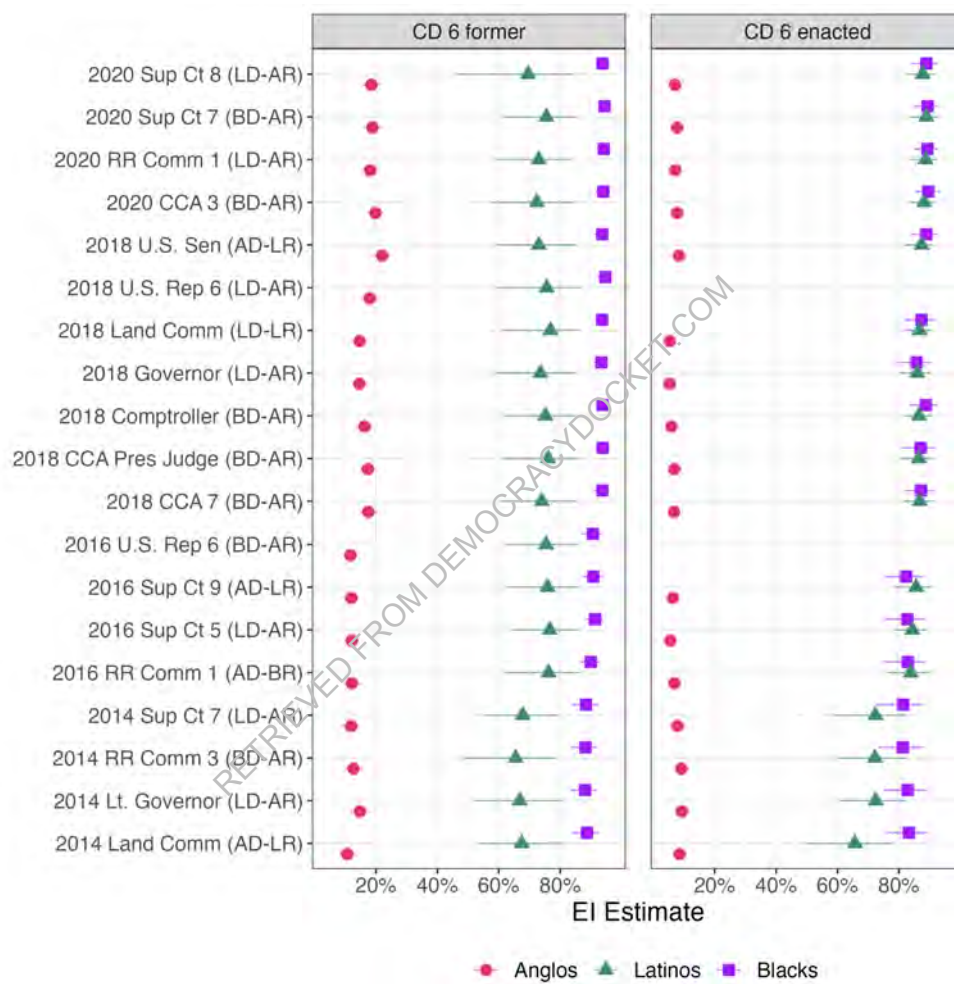


Figure 3: CD 6 voting by race

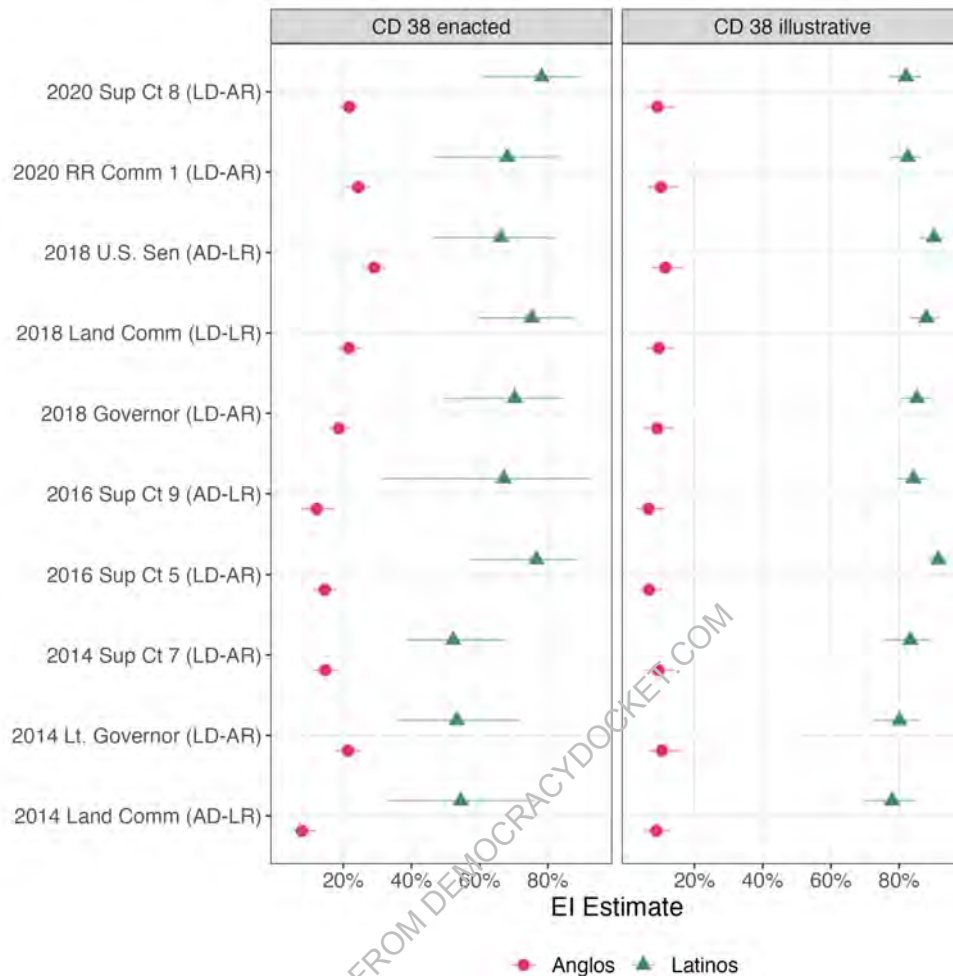


Figure 4: CD 38 voting by race

and Anglos and between Blacks and Anglos. Compared to the results in individual districts, there is also less uncertainty in the estimates, reflected in the narrower 95% confidence intervals.¹³

Congressional District 38 (Harris County)

25. Anglo voters in enacted CD 38 are cohesive in every relevant election. Latino voters are cohesive in 7 of the 10 elections analyzed with an average of 66% cohesion across all the elections. Latinos and Anglos are polarized from each other in all relevant elections. See Figure 4.

26. In Harris County as a whole (see Table A7), Latinos and Anglos are each cohesive within their group and are polarized from each other in all relevant elections.

State House Districts 31 and 43 (South Texas)

27. In both HDs 31 and 43, Latino and Anglo voters are cohesive within their own group and polarized from each other in all relevant elections.¹⁴ See Figures 5 and 6.

¹³The smaller 95% confidence intervals in the pooled and county-level analysis are because there are more VTDs to use in the estimation, which makes for a larger sample and more statistical precision.

¹⁴Note that the 95% confidence interval for Latinos crosses in HD 43 60% in two elections, but the overall pattern is clear.

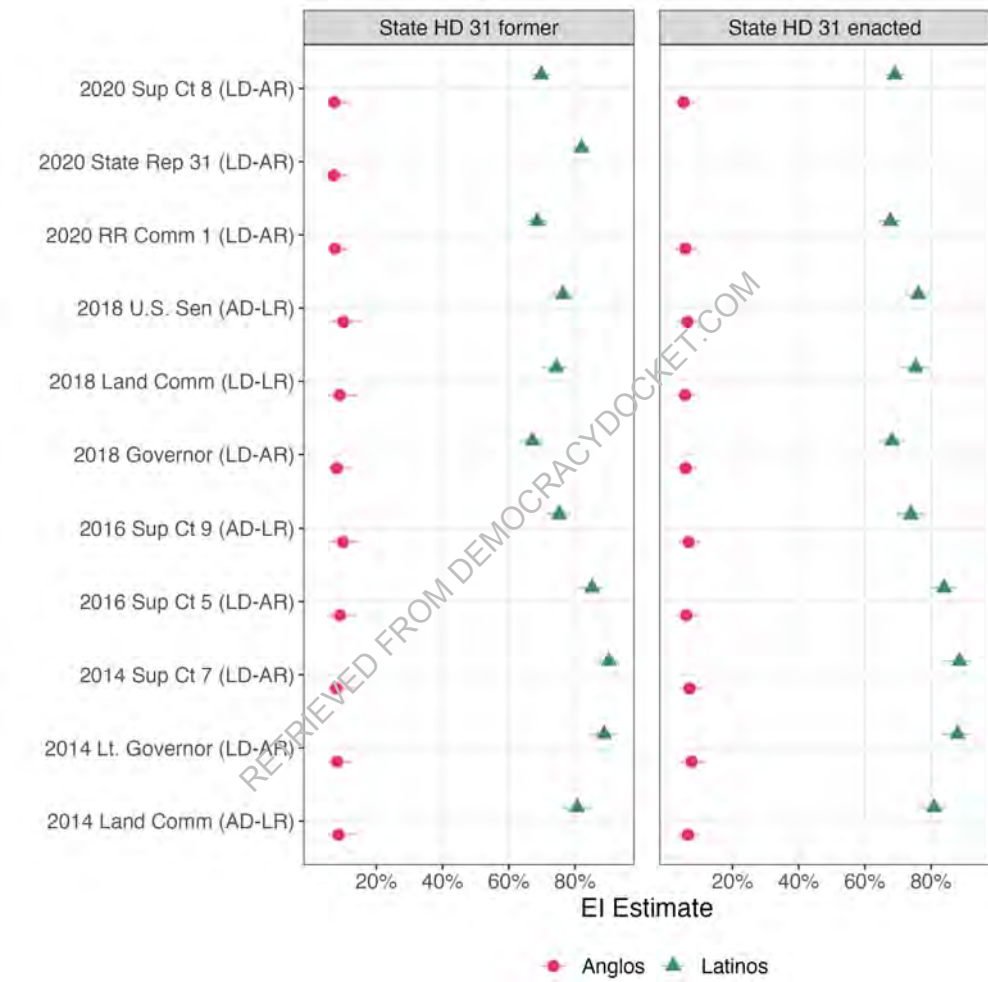


Figure 5: HD 31 voting by race

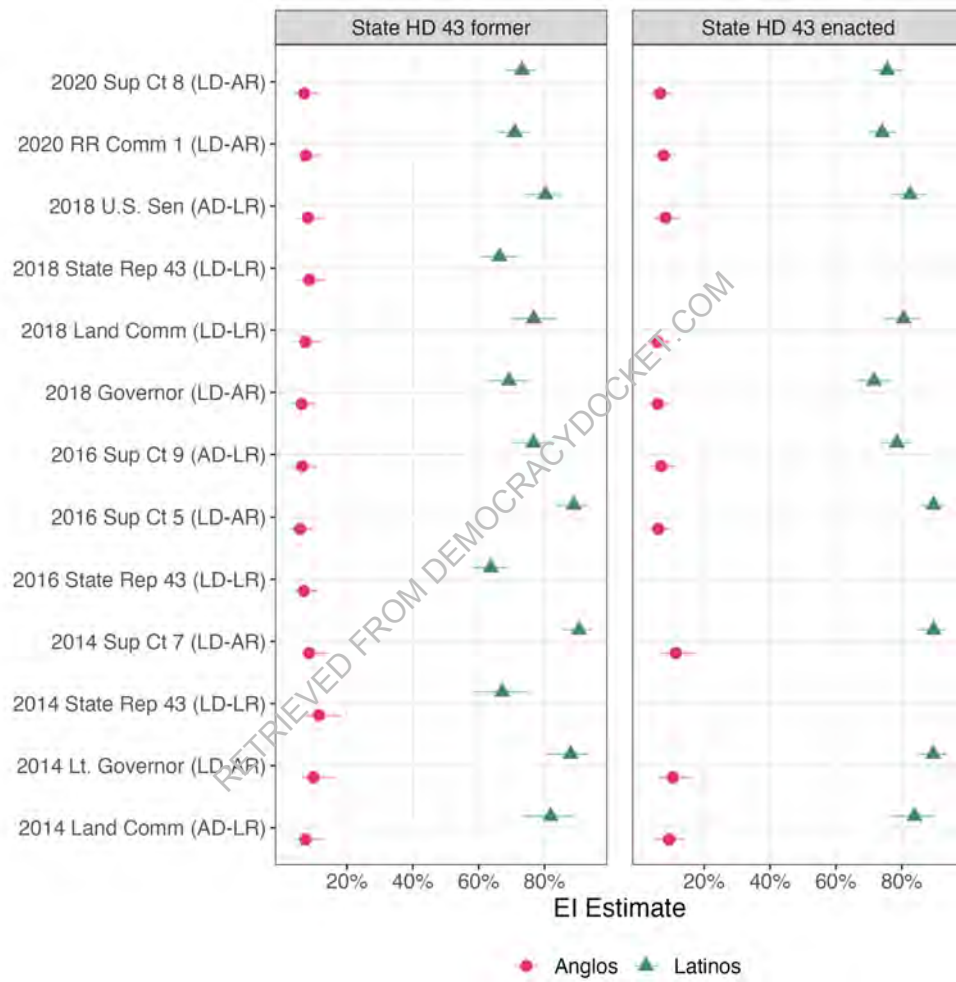


Figure 6: HD 43 voting by race

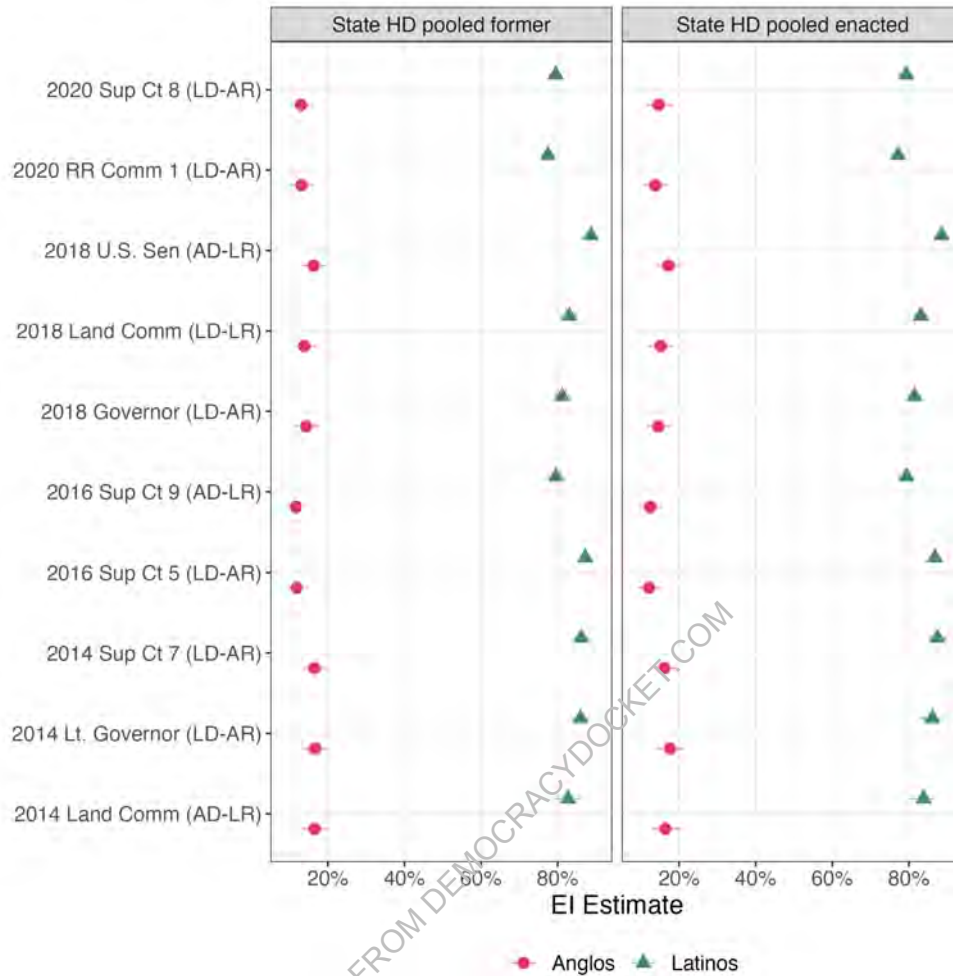


Figure 7: West Texas House Districts voting by race

State House Districts in El Paso and West Texas

28. Latino and Anglo voters in HDs 74, 75, 76, 77, 78, 79, and 81 are cohesive within their group and polarized from each other in nearly all elections (see Tables A11-A17).¹⁵

29. Looking at all of the West Texas districts pooled in Figure 7 and Table A18, Latinos and Anglos across the region are each cohesive within their group and polarized from each other.

State House District 118 (Bexar County)

30. Latino and Anglo voters in HD 118 are each cohesive within their group and polarized from each other in all relevant elections. See Figure 8.

¹⁵The only exceptions are all 2014 elections in HD 81. Note that when using SSVR analysis, Latino voters do appear cohesive in these elections.

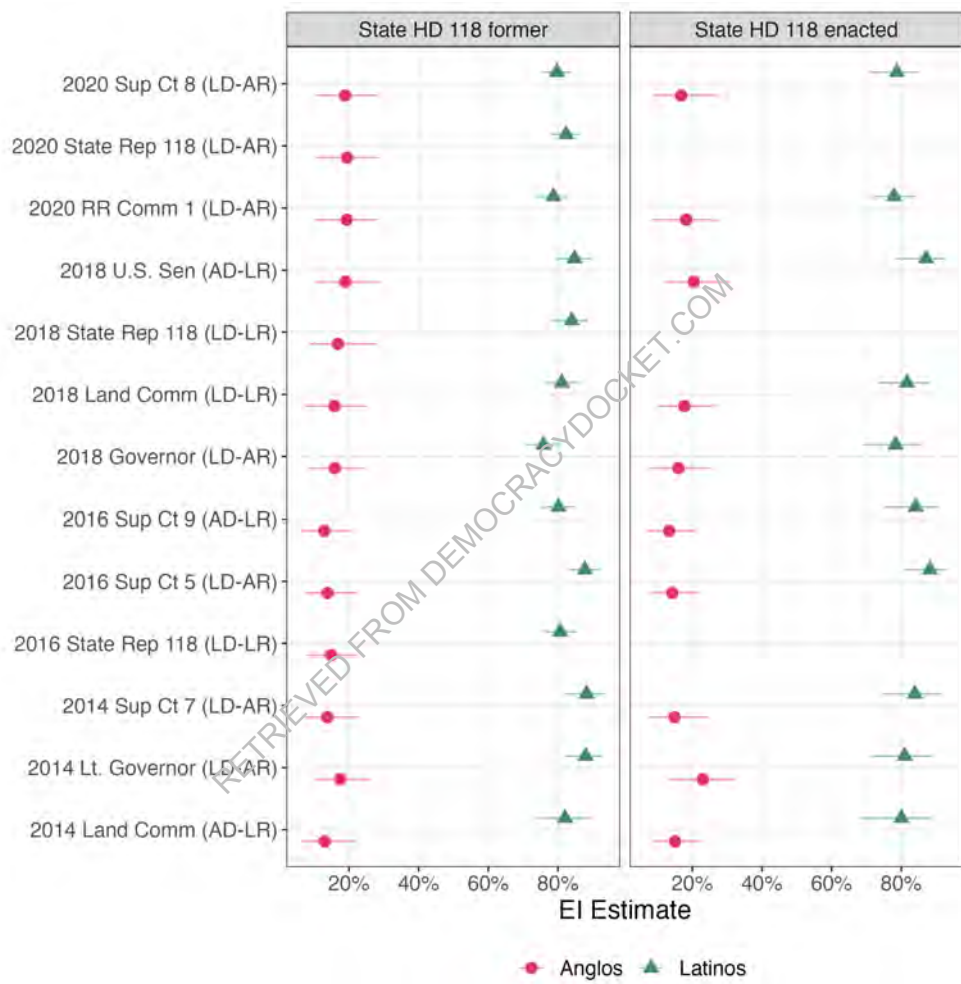


Figure 8: HD 118 voting by race

Opportunities for Minority Preferred Candidates in Former and Enacted Plans

31. Having concluded that there is strong evidence for cohesive and polarized voting in the districts in question in nearly all elections, I examined the opportunity for minority voters to elect candidates of their choice. I limit my analysis to those elections where a minority-candidate is preferred by minority voters, which is determined by the analysis of cohesive voting above.¹⁶ A list of the statewide elections and candidates that I used is in Table [B1](#) in Appendix [B](#). For each contested endogenous and exogenous election in each district, I examine the average vote margin for the minority candidate under the former and enacted plans in contested elections.¹⁷ The margin is the vote percent won by the minority preferred candidate compared to the next closest opponent, so a positive number means the minority candidate won the plurality of the vote and would have been the winner of the election. A negative number means the minority candidate would have lost.¹⁸ I also examine the proportion of elections that the minority preferred candidate would be expected to win under the former and enacted plans. Comparing the proportion of elections won in the former and enacted plans will indicate if minority voters were able to elect their preferred candidate under the former plan and if that opportunity is expected to change under the enacted plan. Note that in the enacted districts, there are no endogenous elections to examine because the newly added voters to the district did not vote in the district prior to the redistricting.

32. To determine if a district is an opportunity district, I examine whether the minority-preferred candidate is expected to win a typical election. This does not mean that the minority-preferred candidate will win in every election because variation in the quality of candidate and other factors, such as variation in voter turnout, may affect the outcome of any particular election. However, even with idiosyncratic variation in outcomes due to these factors, a minority-preferred candidate should win most elections if the district provides opportunity for minority voters to elect their preferred candidate. As a rule of thumb, I set a threshold for opportunity of the minority-preferred candidate winning more than 50% of elections.¹⁹ In each district, I also examine the margin for the minority candidate because that allows me to see if the district, due to demographic changes or other factors, is becoming more competitive for minority-preferred candidates over time. The margin also gives a sense of the magnitude of the change in the district from the former to the enacted plan.

33. The summary of these findings are in Table [1](#) for CDs and Table [4](#) for HDs. In these tables, I show the average margin and for the minority-preferred candidate for all contested elections and the proportion of all elections (contested or uncontested) won by the minority-preferred candidate under the former and enacted plans. For each district, I also produce a figure showing the vote across each election for the minority preferred and non-preferred candidate in the former and enacted district in each contested election (see Figure [9](#) as an example). The former plan is in the top panel and the enacted plan in the bottom panel.

¹⁶I limit to those elections where minority voters vote cohesively for the minority candidate because the presence of cohesive voting indicates that there is a clear preference among minority voters. In the absence of this cohesion, say if only 50% of minority voters have voted for a candidate, then there is no clear preference for a candidate. Another approach would be to simply use all the elections that were used in the analysis of racially polarized voting for the opportunity analysis. If I do this, my substantive conclusions are unchanged. Appendix [D](#) shows the results of the opportunity analysis using all the elections used for the racially polarized voting analysis.

¹⁷In non-contested elections, the candidate receives 100% of the vote, so including these elections severely distorts the averages.

I conduct the analysis in the enacted plan in two ways to account for the fact that the enacted districts were drawn with 2020 Census data and so may be based on VTDs with slightly different boundaries than the VTDs based on 2010 Census Data. This can result in imperfect overlap between the VTDs in place after 2010 and the VTDs used to create the new district. The first way is overlaying the VTDs onto the enacted district and assigning each VTD to the district in which the majority of that VTD falls. The second way is to use a process of spatial interpolation in which I assign votes to the district based on the proportion of the area of the VTD that falls into that district. In practice, because only a very small portion of VTDs are not completely contained within the boundaries of single enacted district, the results of my analysis with these two different methods is nearly identical and so I report the results from the first method.

¹⁸In calculating these average margins, I average across all elections in question in each year, so some years have more elections than others. Another approach would be to take average margin in each year or a single election in each year (say the highest office on the ballot) and average those. I checked for how my results would be changed with this approach and found that it made no substantive difference for the conclusions of the report.

¹⁹When considering whether a district provides opportunity, if the proportion of elections won is close to this threshold so that the case for opportunity is less clear-cut, then it is useful to also consider whether minority-preferred candidates have consistently won endogenous elections in the district.

District	Former Districts		Former Districts		All Elections		Enacted Districts	
	Endogenous Elections	Exogenous Elections	Endogenous Elections	Exogenous Elections	Margin	Win %	Margin	Win %
	Margin	Win %	Margin	Win %	Margin	Win %	Margin	Win %
West Texas:								
23	-1.96	0	-4.44	14	-3.54	9	-11.28	0
Dallas-Fort Worth Metroplex:								
6	-13.49	0	-11.90	0	-12.11	0	-31.02	0
24	-1.33	0	-10.85	0	-10.17	0	-29.16	0
Harris County:								
38							-34.42	0

Table 1: Congressional Districts Opportunity District Analysis

The non-minority-preferred candidate is represented by gray lines and the minority-preferred by black lines. Each election is listed on the horizontal axis and the vote percent received on the vertical axis. Comparing the black and gray lines shows the support for minority-preferred candidate compared to the non-minority preferred candidate and comparing the top and bottom panel shows how this changes across the former and enacted plans.

34. For select districts I have added maps of the changes to the district in Appendix E. In each of the maps, each shape is a VTD, shaded either by the average vote in exogenous elections for minority-preferred candidates or the percent Latino CVAP, with darker colors representing higher average vote for the minority-preferred candidate or higher percent CVAP, respectively.²⁰ The orange-bordered VTDs represent VTDs removed from the district in the enacted plan and the green borders represent VTDs that were added to the district in the enacted plan. Examining the shading of the green-bordered VTDs and comparing to the shading of the orange-bordered VTDs gives a sense of how the opportunity for minority-preferred candidates changes across the former and enacted plan or how the demographic make-up of the district changes across the former and enacted plans.

Congressional District 23 (West Texas)

35. CD 23 is represented by the first line of Table 1 and in Figure 9. Under the former plan, this was not an opportunity district for Latino voters because the Latino-preferred candidate won only one of the eleven contested elections. However, looking at the margins for the minority-preferred candidate over time, it is clear that minority-preferred candidates were more competitive in recent elections. William Hurd (Black Republican) defeated minority-preferred incumbent Pete Gallego (Latino Democrat) in 2014. Gallego lost to Hurd again in 2016. Minority-preferred candidate Gina Ortiz Jones²¹ was the Democratic candidate in 2018 and 2020, losing to William Hurd in 2018 and to Tony Gonzales (Latino Republican) in 2020. These elections were decided by less than 2 percentage points (1.96) on average. The five exogenous elections were not as close, with the minority preferred candidate having a margin -4.44 percentage points on average, although the results have been closer since 2016 (-2.71 percentage points on average) and the minority preferred candidate (Dori Garza, Latina Democrat) did capture a plurality in 2016 Texas Supreme Court election. Under the enacted plan, the average margin for the non-minority preferred candidate would grow to more than 11 percentage points.

36. To illustrate the change in the district from the former to the enacted plan, I have included the map in Figure E1 that is shaded by the average vote in exogenous elections for minority-preferred candidates, with darker colors representing higher average vote for the minority-preferred candidate. The orange bordered VTDs represent VTDs removed from the district in the enacted plan and the green borders represent VTDs that were added to the district in the enacted plan. In this map, because the changes were concentrated in the El Paso and San Antonio regions, I have included inset versions focusing on these areas in the lower left corner (El Paso on the left, San Antonio on the right). In Table 2, I summarize these changes. This table shows the average vote for the minority preferred candidate in the VTDs that were added, removed, and kept across

²⁰The average vote share is constructed by summing the number of votes in the VTD for the preferred candidate in all the elections in question and dividing by the sum of the total votes cast in the VTD in these elections.

²¹Ortiz Jones' is Filipino-American.

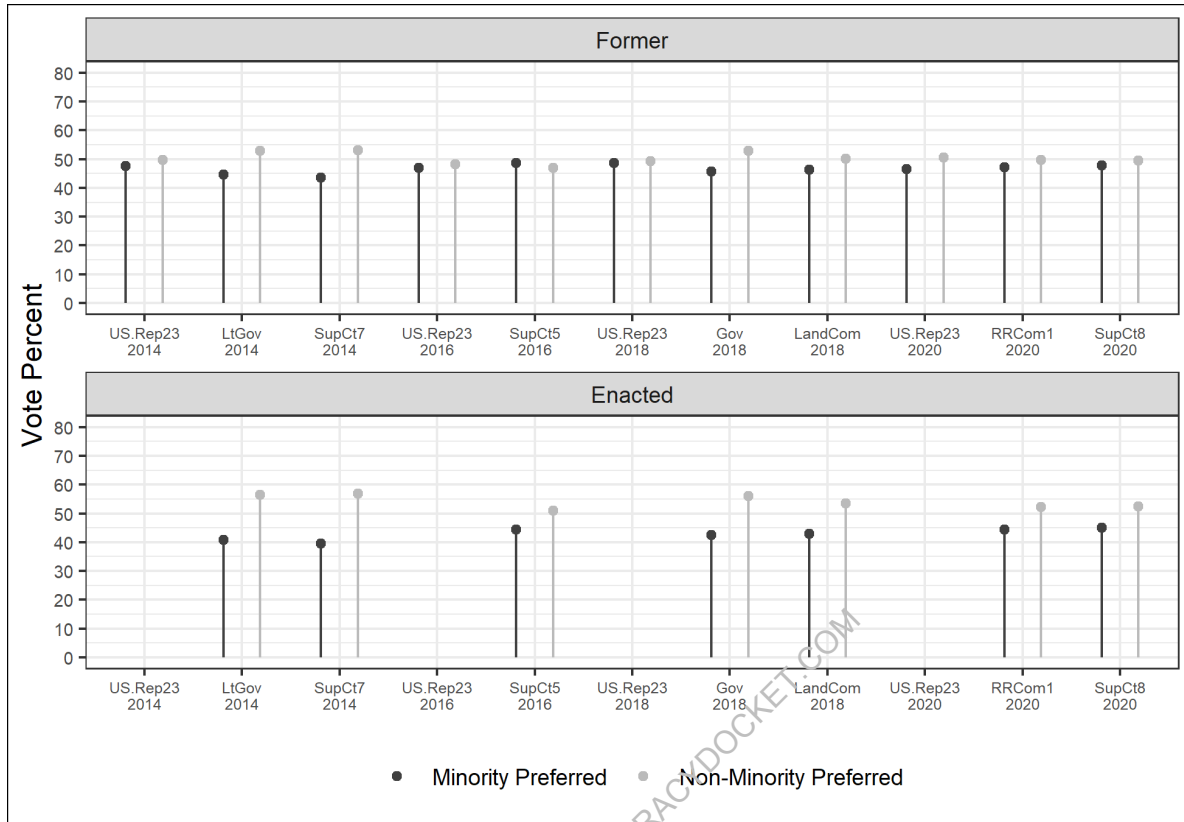


Figure 9: Congressional District 23

VTD Status	Minority Preferred Vote %	Latino CVAP %	SSVR %	SSTO %
Added	48.74	50.69	42.02	38.64
Kept	42.73	58.28	51.00	43.15
Removed	65.21	74.90	65.28	62.30

Table 2: VTD reallocation: Congressional District 23

the former and enacted plans. The removed VTDs voted, on average 65 percent for the minority-preferred candidate, the added VTDs voted, on average, 49 percent for the minority preferred candidate. Table 2 also shows the changes in percent Latino CVAP, percent SSVR, and percent Spanish Surname Turnout (SSTO), in the added, removed, and kept districts. SSVR represents the percent of all registered voters who had a Spanish surname in 2020. SSTO represents the percent of voter turnout, across all elections, that was by voters with Spanish surnames. In the added VTDs, Latino CVAP is 51%, SSVR 42%, and SSTO 39%. In the removed VTDs, Latino CVAP is 75%, SSVR 65%, and SSTO 62%. To understand the geographic correspondence between the changes in support for the minority-preferred candidate and the racial composition of the district, the map in Figure E1, which shades the VTDs by percent vote for the minority-preferred candidate, can be compared to the map in Figure E2, which shades the VTDs by percent Latino CVAP.

Congressional Districts in the Dallas-Fort Worth Metroplex

37. I have included maps of the changes to the CDs in the Dallas-Fort Worth Metroplex in Figures E3 (former plan) and E4 (enacted plan) in Appendix E. These maps are shaded by the combined percent Black and Latino CVAP by VTD, with darker colors representing a higher proportion of combined Black and Latino CVAP. Each CD is represented by a different color border and diagonal cross-hatching. CD 33 is

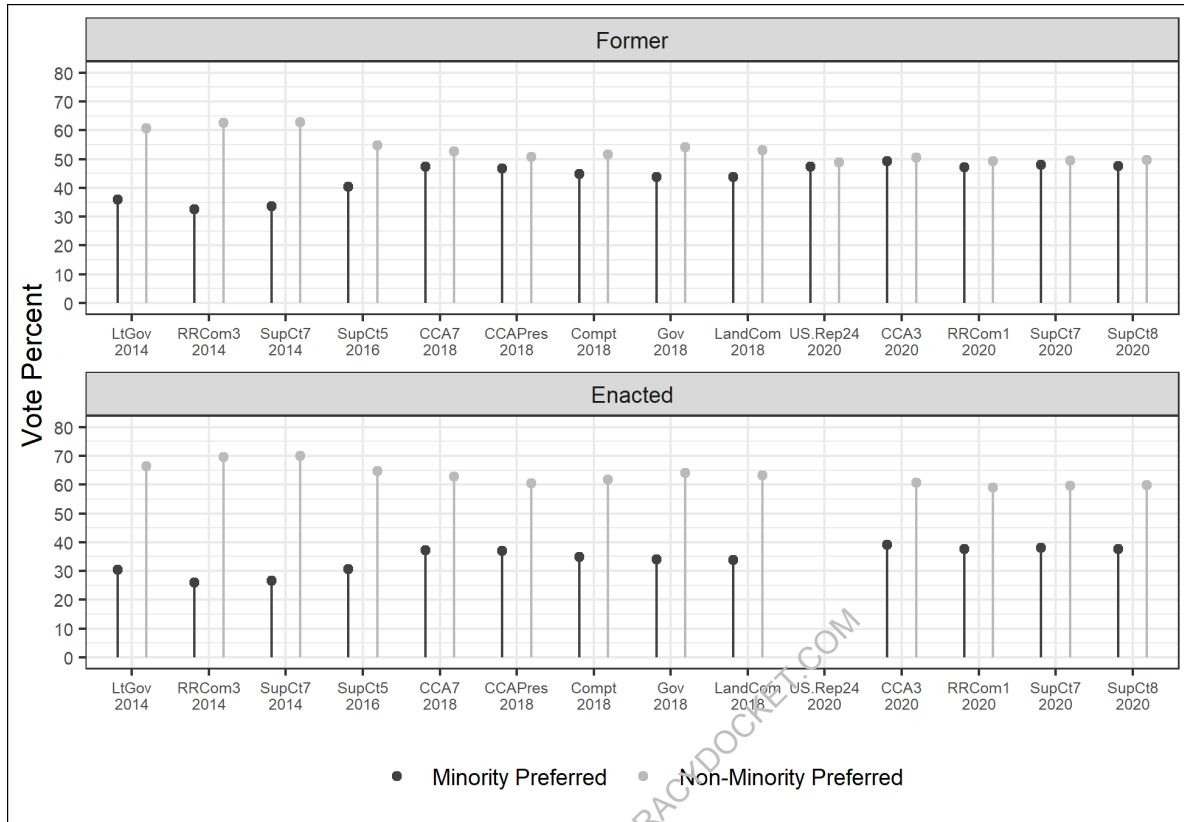


Figure 10: Congressional District 24

yellow and is in the center of both maps. To the north of CD 33 is CD 24 in light blue. To the south of CD 33 is CD 6 in green. Note that in the enacted plan, an arm of CD 6 juts far the north, squeezing between CDs 25 and 30 and causing CD 33 to be wrapped around this north-jutting arm.

38. CD 24 is represented by the third row in Table 1 and in Figure 10. Under the former plan, this district was not a Latino opportunity district because the minority-preferred candidate lost all elections. However, similar to CD 23, examining the margins over time makes it clear that minority-preferred candidates were more competitive in recent elections: 2020 was the first time in the past decade that a Black or Latino candidate had run for a major party and Candace Valenzuela (Black-Latino Democrat) finished only 1.33 percentage points behind Beth Van Duyne (Anglo Republican). Comparing the results of thirteen exogenous elections since 2014 that featured a Black or Latino candidate, the average margin of those results for the minority-preferred candidate is -10.85 percentage points, but there is a clear trend of this margin for all minority-preferred candidates getting closer: the average margin for the minority-preferred candidate goes from -28.0 in 2014 to -14.5 in 2016 to -7.1 in 2018 to -1.7 in 2020. Under the enacted plan, the average vote in exogenous elections would become -30.46 points, an 18 point average drop in expected vote for the minority-preferred candidate.

39. To illustrate the change in the district from the former to the enacted plan, I have included the map in Figure E5, which again is shaded by average vote for minority-preferred candidates and has orange borders for VTDs removed from the district and green borders around VTDs added to the district in the enacted plan (the geographic continuity of the newly enacted district linking the west to the east is achieved by the slice of VTDs just below the label for the city of Carrollton). Figure E6 is shaded by the percent Latino CVAP. In Table 3, I summarize these changes and list the change in percent Black CVAP. The removed VTDs voted, on average 53 percent for the minority-preferred candidate, the added VTDs voted, on average, 32 percent for the minority preferred candidate.

VTD Status	Minority Preferred Vote %	Black CVAP %	Latino CVAP %	SSVR %	SSTO %
Added	31.79	6.95	11.86	7.89	6.44
Kept	36.32	9.40	13.17	8.95	7.44
Removed	53.25	21.98	19.13	14.05	12.25

Table 3: Congressional District 24: VTD reallocation

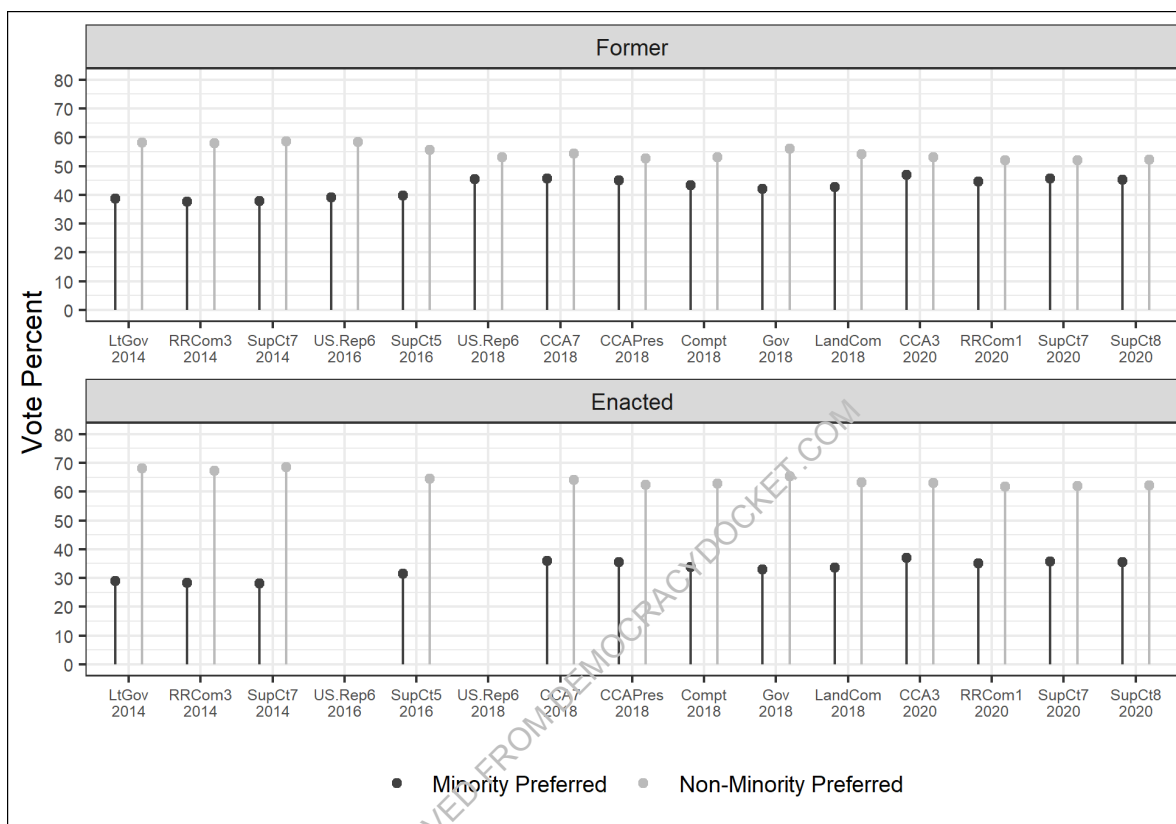


Figure 11: Congressional District 6

40. CD 6 is represented by the second row in Table 1 and Figure 11. In this district there was no opportunity for minority-preferred candidates in the former plan. Endogenous and exogenous elections there have not been competitive and the minority preferred candidates have not won any these elections. However, elections have trended toward competitiveness since 2014, with the average margin for all minority-preferred candidates decreasing from -20.1 in 2014 to -17.8 in 2016 to -9.85 in 2018 to -6.74 in 2020 (see Figure 11). Under the enacted plan, the margin in these elections would have been -31 percentage points. The changes to CD 6 are represented by the maps in Figures E7 (minority-preferred vote) and E8 (percent Latino). In these maps, I have added an inset map in the upper right with detail on the Fort-Worth, Arlington, and west Dallas area. The continuity of the enacted district is maintained by the inclusion of the narrow strip of VTDs to the west of Joe Pool Lake in the city of Cedar Hill.

Congressional District 38 (Harris County)

41. New CD 38 in the enacted plan is represented in the last row in Table 1 and in Figure 12. Because this is a new district, there are no elections under the former plan. The newly created district provides no opportunity for minority voters to elect their preferred candidate. Based on the results in the eight exogenous elections with a minority preferred candidate, had the candidate been running in this district, the candidate would have lost all elections and by an average of over 36 percentage points.

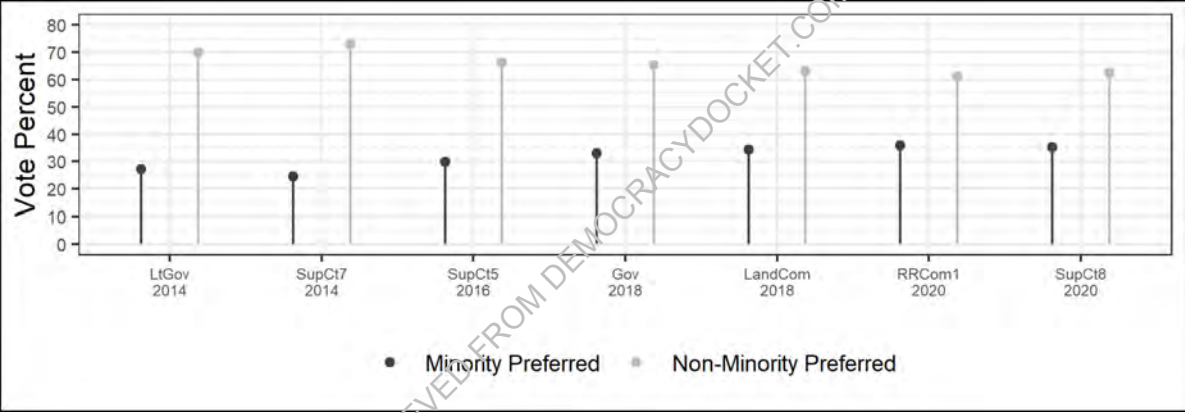


Figure 12: Congressional District 38

District	Endogenous Elections		Former Districts Exogenous Elections		All Elections		Enacted Districts Exogenous Elections	
	Margin	Win %	Margin	Win %	Margin	Win %	Margin	Win %
South Texas:								
31	16.83	100	6.30	57	7.62	73	-9.22	29
43	-22.43	0	-13.15	0	-15.93	9	-16.85	0
El Paso and West Texas:								
74	8.79	100	7.02	86	7.24	91	15.30	100
75		100	40.17	100	40.17	100	42.09	100
76		100	52.28	100	52.28	100		
77		100	32.75	100	32.75	91	52.42	100
78	26.84	100	12.95	71	17.11	82	13.23	71
79		100	31.82	100	31.82	100	30.96	100
81	-49.98	0	-52.33	0	-52.04	0	-50.36	0
Bexar County:								
118	14.42	100	11.96	100	12.70	100	-3.64	29

Table 4: State House Districts Opportunity District Analysis

State House Districts 31 and 43 (South Texas)

42. HD 31 is represented by the first line of Table 4 and in Figure 13. Under the former plan, this was a minority opportunity district. Across all elections, the minority-preferred candidate won 73% of elections, including all endogenous elections. Ryan Guillen (Latino Democrat) ran opposed for the seat in 2014, 2016, and 2018. In 2020, he defeated his Anglo opponent by nearly 17 percentage points.²² In exogenous contests with a Latino candidate, the minority preferred candidate won four of seven elections, with the minority-preferred candidate finishing a close second in the contests in 2018 for Governor, 2020 for Railroad Commissioner, and 2020 for Supreme Court. On average, the minority-preferred candidate won exogenous contests by just over 6 percentage points. Under the enacted plan, this is no longer a minority opportunity district: the average margin for the minority-preferred candidate would have been -9.2 percentage points and minority preferred candidates would have lost five of the seven exogenous elections.

43. The changes to HD 31 in the enacted plan are represented by the maps in Figures E9 (minority-preferred vote) and E10 (percent Latino). These average voting margins of the added and removed VTDs are summarized in Table 5. Average vote for the minority-preferred candidate in the added VTDs was 28%, in the removed VTDs, average vote for the minority preferred candidate was 42%.

44. HD 43 is represented by the second row of Table 4. A figure representing the election outcomes is in Appendix C. This district was not an opportunity district under the previous plan and remains not an opportunity district under the enacted plan.

State House Districts in El Paso and West Texas

45. Lines 3–9 in Table 4 represent HDs 74, 75, 76, 77, 78, 79, and 81. The Figures representing these districts are in the Appendix C.²³

²²Guillen changed his affiliation to the Republican Party in 2021.

²³As noted above, in the 2014 U.S. Senate election in HD 78 and all 2014 elections in HD 81, Latino voters were not cohesive. Because Latino voters in all other districts were cohesive in these elections, I keep them in the analysis for HDs 78 and 81. Excluding these elections makes no difference for the substance of my analysis.

VTD Status	Minority Preferred Vote %	Latino CVAP %	SSVR %	SSTO %
Added	28.35	43.97	41.17	31.96
Kept	59.68	83.01	82.00	77.79
Removed	41.50	65.92	62.01	52.03

Table 5: VTD reallocation: State House District 31

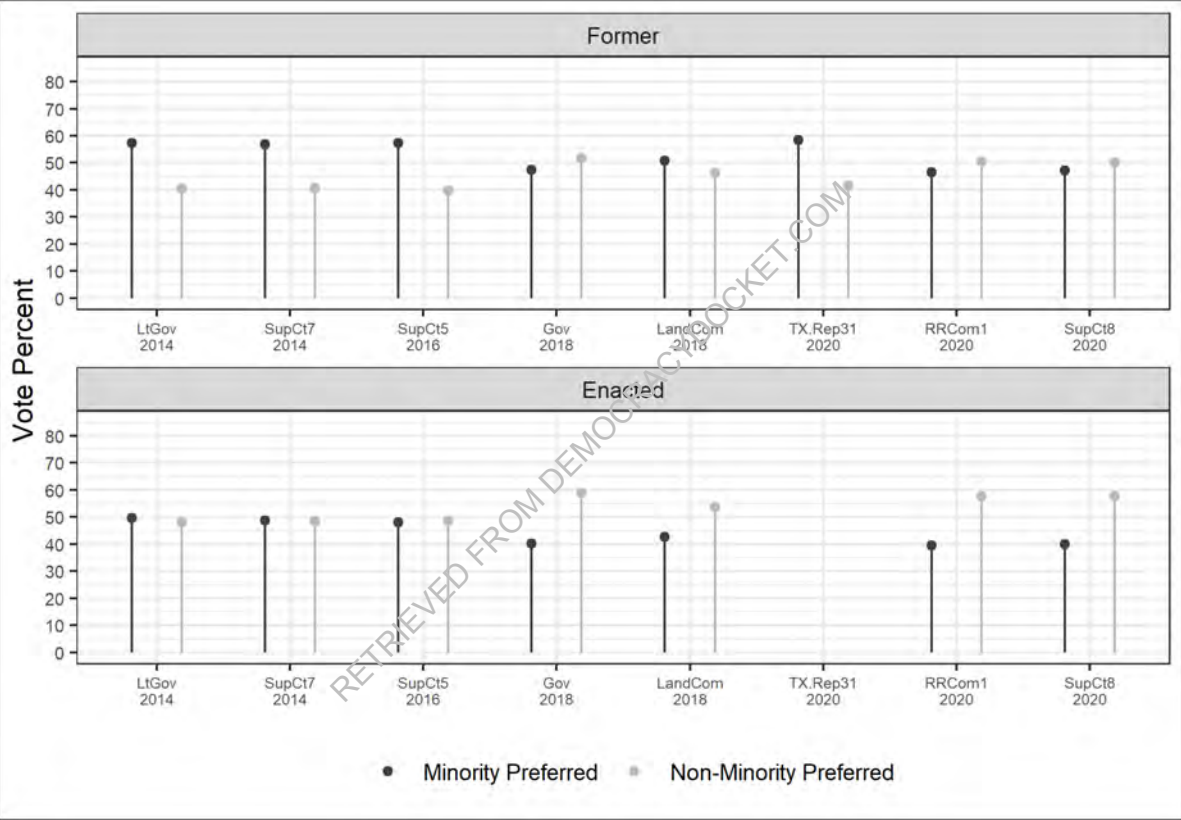


Figure 13: State House District 31

VTD Status	Minority Preferred Vote %	Latino CVAP %	SSVR %	SSTO %
Added	41.35	45.52	34.62	28.26
Kept	51.37	62.85	53.00	47.71
Removed	74.86	89.29	82.74	83.41

Table 6: VTD reallocation: State House District 118

46. Under the former plan HDs 74, 75, 76 77, 78 and 79 are minority opportunity districts. In the years in question, endogenous elections were only contested in HDs 74 and 78 and those contested elections were not close, with the minority preferred candidate winning by a margin of nearly 9 and 27 percentage points, respectively. In all these districts, minority-preferred candidates won more than 70% of exogenous elections. The opportunity is maintained in HDs 74, 75, 77, 78, and 79 in the enacted plan. HD 76 has been moved out of West Texas, reducing the number of opportunity districts in West Texas from six to five.

47. HD 81 was not an opportunity district under the former or enacted plans.

State House District 118 (Bexar County)

48. HD 118 is represented by the bottom line of Table 4 and in Figure 14. Under the former plan, HD 118 was an opportunity district, with minority-preferred candidates winning 100% of the endogenous general elections, by an average margin of 14 percentage points in contested elections. Incumbent Joe Farias (Latino Democrat) was unopposed for election in 2014. He resigned in 2015. John Lujan (Latino Republican) won a special election to replace him (this election is not included in the analysis because I only examine general elections). Tomas Uresti (Latino Democrat) defeated Lujan in the general election in 2016. Leo Pacheco (Latino Democrat) won the general election in 2018 and was unopposed in 2020. Minority preferred candidates won all seven exogenous elections under the former plan by an average margin of 12 percentage points. Under the enacted plan, HD 118 is no longer an opportunity district: minority preferred candidates are expected to lose by 3.6 percentage points and minority-preferred candidates would have lost five of seven exogenous elections.

49. The changes to HD 118 in the enacted plan are represented by the maps in Figures E11 (minority-preferred vote) and E12 (percent Latino). In Table 6, I summarize the average vote for the minority preferred candidate in the VTDs that were added, removed, and kept across the previous and enacted plans. On average, 75 percent of voters in the removed VTDs voted for the minority-preferred candidate. On average, 41 percent of voters in the added VTDs voted for the minority preferred candidate. Notably, the removed VTDs have nearly twice the Latino CVAP, more than twice the SSVR, and nearly three-times the SSTO of the added VTDs.



Figure 14: State House District 118

Proportionality

50. Latinos are 30.5% of the Texas CVAP population in the 2016–2020 ACS data. Latinos were 25% of the Texas CVAP population in the 2006–2010 ACS data. To see if there is a relative change between plans in the proportion of CDs and HDs where Latino voters have an opportunity to elect their preferred candidates, I examined exogenous elections in CDs and HDs with at least 40% Latino CVAP. I limit this analysis to districts with 40% CVAP because districts with lower CVAP are unlikely to provide Latino voters with opportunity to elect their preferred candidate. After determining which elections had 40% Latino CVAP, I see whether Latino-preferred candidates an opportunity to win elections by examining the proportion of exogenous elections won by the Latino-preferred candidate. I list the percent Latino CVAP in CDs and HDs in tables in Appendix **F**.

51. In the former plan, based on 2010 data, there were 10 CDs with over 40% Latino CVAP (in descending order: 34, 16, 15, 28, 20, 29, 23, 27, 35, and 33). In the enacted plan, based on 2020 data, these same 10 districts have over 40% Latino CVAP, although the Latino percentage has changed in several. No additional districts are over 40% Latino CVAP in 2020.

52. In the former plan, based on the past performance of minority-preferred candidates in the CD, in eight of these ten districts (15, 16, 20, 28, 29, 33, 34, and 35), Latinos had an opportunity to elect their preferred candidate.²⁴ In two of these districts, 23 and 27, Latinos did not have an opportunity to elect a candidate of their choice. Therefore, the proportion of statewide opportunity districts under the former plan was 22% (8/36).

53. In the enacted plan, using the expected performance of minority preferred candidates in the new districts, the same eight districts remain opportunity districts, so the proportion of Latino opportunity districts statewide is now 21% (8/38). Given the increase in Latino CVAP, this represents a relative decrease in proportionality under the enacted plan: the gap between CVAP and proportion of Latino opportunity districts in the former plan was 3 percentage points, under the enacted plan, the gap is 9.5 percentage points.

54. Under the former plan, there were 36 HDs meeting the 40% criteria. Of these, all but HD 32, 43, and 81 gave Latino voters an opportunity to elect their preferred candidate, giving a statewide proportion of 22% (33/150) opportunity districts.

55. Under the enacted plan, there are still 36 HDs meeting the 40% criteria. HDs 32, 43, 81 still do not give Latinos an opportunity to elect their preferred candidate. In addition, HDs 31 and 118 no longer Latino voters an opportunity to elect their preferred candidate, bringing the total to five districts of over 40% Latino CVAP where Latino voters do not have an opportunity to elect their preferred candidate. This leaves 31 opportunity districts for 21% (31/150) opportunity districts. Given the increase in Latino CVAP, this represents a relative decrease in proportionality under the enacted plan: the gap between CVAP and proportion of Latino opportunity districts in the former plan was 3 percentage points, under the enacted plan, the gap is 9.5 percentage points.

²⁴Six the districts are, in fact, represented by Latinos. CD 35 has been represented by an Anglo Democrat, Lloyd Doggett, since 2013. He is now running in the newly created 37th District. A Latino, Greg Casar, has won the 2022 Democratic primary and will advance to the November general election. CD 33 has been represented by Marc Veasey, a Black Democrat, since 2013.

Illustrative Districts

56. I was asked by the United States to analyze their illustrative districts for HDs 31, 74, 75, 77, 78, 79, 81, and 118 and for CDs 23 and 38. For each, I repeat the process of analysis of racial bloc voting and opportunity districts that I performed above. I use the boundaries of these districts provided to me by the United States and combine them with the same demographic and voting data used above.²⁵

57. Analysis of racial bloc voting for all of these illustrative districts is in Appendix [G](#) in Tables [G1](#) [G10](#). In nearly all districts and relevant elections, Latinos and Anglos are each cohesive within their own group and are polarized between the groups. There are a few elections that are exceptions found in the tables. In Figure [4](#) above, I display the change in racial bloc voting between the enacted and illustrative CD 38. Latinos are more cohesive in the illustrative plan.

58. Analysis of the opportunity for minority voters to elect their preferred candidates in CDs 23 and 38 is in Table [7](#). Details of the expected outcomes in each exogenous election for each district are in Appendix [H](#). Both CDs become opportunity districts in the illustrative plan. Notably, in CD 38, the minority-preferred candidate would have won every election after 2014 (see Figure [H2](#) in Appendix [H](#)).

District	Enacted Districts Exogenous Elections		Illustrative Districts Exogenous Elections	
	Margin	Win %	Margin	Win %
West Texas:				
23	-11.28	0	5.21	100
Harris County:				
38	-34.42	0	6.31	71

Table 7: Illustrative Congressional Districts Opportunity District Analysis

59. Analysis of the opportunity for minority voters to elect their preferred candidates in HDs is in Table [8](#). Details of the expected outcomes in each exogenous election for each district are in Appendix [H](#). All HDs become opportunity districts in the illustrative plan.

District	Enacted Districts Exogenous Elections		Illustrative Districts Exogenous Elections	
	Margin	Win %	Margin	Win %
South Texas:				
31	-9.22	29	14.80	100
El Paso and West Texas:				
74	15.30	100	1.13	57
75	42.09	100	39.83	100
77	52.42	100	50.94	100
78	13.23	71	13.92	100
79	30.96	100	26.42	100
81	-50.36	0	2.36	71
Bexar County:				
118	-3.64	29	4.65	86

Table 8: Illustrative State House Districts Opportunity District Analysis

²⁵In some cases, these illustrative districts include a small number of split VTDs, where part of the VTD was assigned to one district and part to another. In order to analyze these districts, the data from these districts must be either 1) assigned to one or the other of the districts or 2) split through a process of spatial interpolation and assigned to both districts. Because spatial interpolation proved inconsequential in my analysis above, I decided to assign these VTDs to the district with which a VTD has the greatest spatial overlap.

Relationship between socioeconomic factors and voter turnout

60. There is strong evidence that voter turnout is correlated with socioeconomic status. Americans living in poverty are far less likely to participate in the political process, including less likely to vote, than those with more resources (Wolfinger and Rosenstone 1980; Verba, Schlozman, and Brady 1995; Schlozman, Verba, and Brady 2012; Blais 2006).²⁶ Approximately half of American adults in the lowest income quintile usually vote in presidential elections, compared with nearly 80% of Americans in the highest quintile (Leighley and Nagler 2013).²⁷ These patterns are robust across time and place in the United States. Because one cannot experiment on socioeconomic status in order to precisely understand why this relationship exists, the causal effect and pathways of poverty on low voter participation are poorly understood. It could be because of a lack of education generally and civic education in particular (Ojeda 2018, Sondheimer and Green 2010), less perceived efficacy in the system (Aberbach and Walker 1970), less time and resources to pay the opportunity costs associated with voting (Verba, Schlossman, and Brady 1995), or less attention from campaigns (Enos, Fowler, and Vavreck 2014).²⁸

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²⁶

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²⁸

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A Appendix: Full EI Results

The tables below are of EI estimates for Anglo, Latino, and Black voters. Estimates were also produced for a category of “Other”, but those are not shown. Cell entries are for the Democratic vote share, with 95% confidence intervals in parentheses. The party and race for the two major-party candidates are listed next to the office (D = Democrat, R = Republican, A = Anglo, L = Latino, B = Black). Estimates for both the former and enacted districts are shown.

Congressional District 23 (West Texas)

Office	Year	Former		Enactd	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	82 (78, 86)	12 (9, 15)	76 (71, 80)	13 (11, 16)
Lt. Governor (LD-AR)	2014	84 (80, 88)	18 (14, 21)	81 (76, 85)	18 (15, 21)
Sup Ct 7 (LD-AR)	2014	86 (83, 89)	15 (13, 18)	84 (79, 88)	16 (13, 19)
U.S. Rep 23 (LD-BR)	2014	86 (83, 89)	23 (19, 26)	-	-
Sup Ct 5 (LD-AR)	2016	85 (82, 87)	11 (8, 14)	83 (80, 86)	13 (11, 15)
Sup Ct 9 (AD-LR)	2016	78 (75, 80)	12 (9, 15)	74 (71, 77)	12 (9, 15)
U.S. Rep 23 (LD-BR)	2016	83 (81, 86)	13 (10, 16)	-	-
Governor (LD-AR)	2018	77 (73, 80)	14 (11, 17)	74 (70, 78)	15 (13, 19)
Land Comm (LD-LR)	2018	80 (77, 83)	13 (11, 16)	77 (73, 81)	15 (12, 18)
U.S. Rep 23 (LD-BR)	2018	82 (79, 85)	16 (13, 20)	-	-
U.S. Sen (AD-LR)	2018	83 (80, 85)	18 (15, 22)	80 (77, 84)	20 (17, 24)
RR Comm 1 (LD-AR)	2020	74 (71, 77)	19 (15, 22)	71 (68, 74)	20 (17, 24)
Sup Ct 8 (LD-AR)	2020	76 (74, 79)	17 (14, 20)	73 (69, 76)	20 (16, 23)
U.S. Rep 23 (LD-LR)	2020	73 (70, 76)	17 (14, 20)	-	-
Avg.		81	16	77	16

Table A1: EI CVAP: CD 23

Congressional Districts in the Dallas-Fort Worth Metroplex

Office	Year	Former			Enacted		
		Latinos	Blacks	Anglos	Latinos	Blacks	Anglos
Land Comm (AD-LR)	2014	72 (54, 83)	73 (58, 85)	25 (22, 28)	61 (44, 78)	65 (46, 81)	21 (19, 23)
Lt. Governor (LD-AR)	2014	69 (54, 82)	66 (51, 81)	32 (29, 34)	55 (38, 77)	57 (40, 73)	29 (28, 30)
RR Comm 3 (BD-AR)	2014	72 (58, 83)	66 (53, 79)	27 (24, 30)	61 (45, 77)	65 (50, 79)	23 (21, 25)
Sup Ct 7 (LD-AR)	2014	73 (55, 85)	63 (46, 77)	28 (25, 31)	67 (53, 81)	66 (44, 80)	24 (22, 25)
RR Comm 1 (AD-BR)	2016	77 (64, 86)	74 (60, 86)	29 (25, 33)	53 (38, 71)	65 (48, 80)	26 (24, 28)
Sup Ct 5 (LD-AR)	2016	76 (66, 86)	72 (60, 84)	31 (27, 34)	61 (46, 75)	65 (46, 83)	27 (25, 29)
Sup Ct 9 (AD-LR)	2016	76 (64, 85)	72 (57, 84)	28 (23, 33)	63 (45, 77)	62 (42, 80)	24 (22, 27)
CCA 7 (BD-AR)	2018	78 (64, 86)	69 (53, 81)	37 (33, 42)	64 (50, 76)	74 (60, 86)	33 (31, 34)
CCA Pres Judge (BD-AR)	2018	82 (73, 89)	71 (57, 85)	36 (32, 40)	56 (43, 70)	61 (40, 77)	34 (33, 36)
Comptroller (BD-AR)	2018	79 (70, 86)	70 (53, 85)	35 (31, 38)	67 (55, 78)	61 (39, 79)	32 (30, 33)
Governor (LD-AR)	2018	81 (71, 87)	72 (57, 83)	32 (27, 36)	65 (50, 81)	59 (37, 81)	30 (28, 32)
Land Comm (LD-LR)	2018	82 (73, 89)	67 (53, 80)	31 (27, 35)	66 (53, 79)	69 (53, 83)	30 (27, 32)
U.S. Sen (AD-LR)	2018	80 (70, 87)	62 (44, 79)	43 (40, 46)	62 (49, 78)	60 (41, 77)	40 (38, 41)
CCA 3 (BD-AR)	2020	74 (65, 83)	62 (48, 75)	38 (35, 41)	58 (47, 69)	59 (45, 72)	33 (32, 35)
RR Comm 1 (LD-AR)	2020	75 (64, 84)	62 (48, 74)	38 (33, 41)	58 (48, 68)	59 (43, 75)	35 (33, 37)
Sup Ct 7 (BD-AR)	2020	72 (62, 82)	68 (54, 81)	38 (35, 40)	59 (48, 68)	58 (43, 71)	33 (31, 34)
Sup Ct 8 (LD-AR)	2020	77 (68, 87)	64 (50, 78)	37 (33, 40)	63 (48, 76)	66 (52, 79)	32 (30, 35)
U.S. Rep 24 (LD-AR)	2020	72 (63, 80)	62 (51, 73)	37 (35, 40)	-	-	-
Avg.		76	68	33	61	63	30

Table A2: EI CVAP: CD 24

Office	Year	Former			Enacted		
		Latinos	Blacks	Anglos	Latinos	Blacks	Anglos
Land Comm (AD-LR)	2014	67 (53, 81)	89 (84, 93)	11 (8, 13)	66 (50, 78)	83 (76, 89)	9 (6, 11)
Lt. Governor (LD-AR)	2014	67 (52, 81)	88 (83, 92)	15 (12, 18)	72 (60, 82)	83 (75, 89)	9 (7, 12)
RR Comm 3 (BD-AR)	2014	65 (48, 78)	88 (84, 92)	13 (10, 16)	72 (60, 82)	81 (73, 88)	9 (7, 12)
Sup Ct 7 (LD-AR)	2014	68 (55, 80)	88 (83, 92)	12 (9, 15)	72 (59, 82)	81 (73, 88)	8 (6, 11)
RR Comm 1 (AD-BR)	2016	76 (62, 86)	90 (86, 93)	12 (10, 15)	84 (76, 90)	83 (76, 89)	7 (5, 9)
Sup Ct 5 (LD-AR)	2016	77 (64, 86)	91 (88, 94)	12 (10, 15)	84 (79, 89)	83 (75, 88)	6 (4, 8)
Sup Ct 9 (AD-LR)	2016	76 (63, 86)	91 (87, 94)	12 (9, 14)	86 (79, 91)	82 (76, 88)	6 (5, 8)
U.S. Rep 6 (BD-AR)	2016	75 (62, 86)	91 (87, 94)	12 (9, 14)	-	-	-
CCA 7 (BD-AR)	2018	74 (61, 85)	94 (91, 96)	18 (15, 20)	87 (81, 91)	87 (82, 92)	7 (5, 9)
CCA Pres Judge (BD-AR)	2018	76 (61, 86)	94 (91, 96)	17 (15, 20)	87 (80, 91)	87 (81, 92)	7 (5, 9)
Comptroller (BD-AR)	2018	75 (62, 86)	94 (91, 96)	16 (14, 19)	87 (81, 91)	89 (83, 93)	6 (4, 8)
Governor (LD-AR)	2018	74 (59, 85)	93 (91, 96)	15 (12, 17)	86 (80, 90)	86 (79, 91)	5 (4, 7)
Land Comm (LD-LR)	2018	77 (61, 87)	94 (91, 96)	15 (12, 17)	87 (82, 91)	87 (82, 92)	5 (4, 7)
U.S. Rep 6 (LD-AR)	2018	76 (59, 87)	95 (92, 97)	18 (15, 21)	-	-	-
U.S. Sen (AD-LR)	2018	73 (59, 85)	94 (91, 96)	22 (19, 25)	87 (82, 91)	89 (84, 93)	8 (6, 11)
CCA 3 (BD-AR)	2020	72 (57, 84)	94 (92, 96)	20 (17, 22)	88 (84, 92)	90 (85, 93)	8 (6, 10)
RR Comm 1 (LD-AR)	2020	73 (59, 83)	94 (92, 96)	18 (15, 21)	89 (84, 92)	89 (85, 93)	7 (5, 9)
Sup Ct 7 (BD-AR)	2020	75 (62, 86)	94 (92, 96)	19 (16, 22)	89 (83, 93)	89 (85, 93)	8 (6, 10)
Sup Ct 8 (LD-AR)	2020	70 (46, 84)	94 (92, 96)	18 (16, 21)	88 (83, 92)	89 (84, 93)	7 (5, 10)
Avg.		73	92	15	83	86	7

Table A3: EI CVAP: CD 6

Office	Year	Latinos	Blacks	Anglos
Land Comm (AD-LR)	2014	82 (76, 86)	90 (87, 92)	18 (17, 21)
Lt. Governor (LD-AR)	2014	82 (77, 86)	90 (87, 92)	24 (22, 25)
RR Comm 3 (BD-AR)	2014	84 (78, 88)	90 (87, 92)	21 (19, 22)
Sup Ct 7 (LD-AR)	2014	84 (79, 88)	89 (86, 92)	21 (19, 24)
RR Comm 1 (AD-BR)	2016	88 (85, 91)	92 (89, 94)	17 (15, 19)
Sup Ct 5 (LD-AR)	2016	89 (86, 92)	91 (89, 93)	18 (16, 20)
Sup Ct 9 (AD-LR)	2016	87 (83, 90)	91 (88, 93)	17 (15, 19)
CCA 7 (BD-AR)	2018	88 (85, 91)	92 (89, 94)	26 (24, 27)
CCA Pres Judge (BD-AR)	2018	89 (86, 92)	91 (89, 93)	26 (24, 27)
Comptroller (BD-AR)	2018	89 (85, 91)	91 (89, 94)	24 (23, 26)
Governor (LD-AR)	2018	88 (85, 91)	91 (88, 93)	22 (20, 24)
Land Comm (LD-LR)	2018	89 (86, 91)	91 (89, 93)	22 (21, 24)
U.S. Sen (AD-LR)	2018	88 (84, 91)	91 (89, 93)	31 (29, 33)
CCA 3 (BD-AR)	2020	84 (79, 88)	91 (89, 93)	27 (26, 29)
RR Comm 1 (LD-AR)	2020	83 (78, 86)	90 (88, 93)	26 (24, 29)
Sup Ct 7 (BD-AR)	2020	84 (80, 88)	92 (90, 93)	26 (25, 28)
Sup Ct 8 (LD-AR)	2020	85 (81, 89)	91 (89, 93)	26 (24, 28)
Avg.		86	91	23

Table A4: EI CVAP: Dallas and Tarrant Counties pooled

Office	Year	Former			Enacted		
		Latinos	Blacks	Anglos	Latinos	Blacks	Anglos
Land Comm (AD-LR)	2014	75 (62, 83)	87 (83, 90)	19 (17, 22)	62 (47, 77)	81 (73, 87)	16 (14, 18)
Lt. Governor (LD-AR)	2014	73 (63, 82)	86 (81, 89)	25 (23, 27)	68 (56, 79)	77 (68, 84)	22 (21, 24)
RR Comm 3 (BD-AR)	2014	74 (62, 83)	88 (83, 91)	21 (18, 24)	68 (57, 78)	80 (73, 86)	18 (16, 20)
Sup Ct 7 (LD-AR)	2014	76 (66, 84)	87 (83, 91)	21 (19, 23)	71 (61, 80)	78 (68, 85)	18 (16, 20)
RR Comm 1 (AD-BR)	2016	81 (71, 87)	88 (84, 91)	18 (15, 21)	77 (69, 84)	77 (69, 83)	17 (15, 19)
Sup Ct 5 (LD-AR)	2016	83 (76, 88)	88 (84, 91)	19 (17, 21)	77 (67, 83)	77 (68, 84)	18 (16, 19)
Sup Ct 9 (AD-LR)	2016	82 (76, 88)	89 (85, 92)	17 (15, 20)	79 (72, 85)	80 (72, 86)	16 (15, 18)
CCA 7 (BD-AR)	2018	79 (70, 86)	91 (88, 94)	25 (23, 28)	77 (65, 84)	80 (71, 87)	23 (21, 25)
CCA Pres Judge (BD-AR)	2018	81 (74, 86)	91 (88, 94)	26 (23, 28)	78 (72, 85)	81 (74, 87)	23 (22, 25)
Comptroller (BD-AR)	2018	79 (71, 86)	91 (87, 93)	24 (22, 26)	76 (67, 84)	80 (72, 87)	21 (20, 23)
Governor (LD-AR)	2018	80 (73, 85)	90 (86, 93)	22 (19, 24)	78 (69, 85)	79 (70, 86)	20 (18, 22)
Land Comm (LD-LR)	2018	81 (74, 86)	90 (86, 93)	22 (20, 24)	79 (70, 85)	78 (70, 84)	20 (19, 22)
U.S. Sen (AD-LR)	2018	78 (69, 86)	90 (86, 93)	32 (29, 34)	73 (65, 81)	76 (66, 83)	29 (27, 30)
CCA 3 (BD-AR)	2020	71 (62, 80)	89 (86, 92)	28 (26, 30)	63 (56, 70)	78 (70, 84)	26 (24, 27)
RR Comm 1 (LD-AR)	2020	70 (62, 79)	90 (86, 93)	28 (26, 29)	71 (64, 78)	68 (61, 75)	26 (24, 27)
Sup Ct 7 (BD-AR)	2020	72 (65, 80)	89 (86, 92)	28 (25, 30)	64 (56, 72)	78 (70, 84)	25 (24, 26)
Sup Ct 8 (LD-AR)	2020	71 (63, 78)	89 (85, 92)	28 (26, 30)	64 (57, 72)	76 (68, 82)	25 (23, 26)
Avg.		77	89	24	72	78	21

Table A5: EI CVAP: CDs 24 and 6 pooled

Congressional District 38 (Harris County)

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	0.54 (0.33, 0.76)	0.08 (0.05, 0.12)
Lt. Governor (LD-AR)	2014	0.53 (0.36, 0.72)	0.21 (0.18, 0.25)
Sup Ct 7 (LD-AR)	2014	0.52 (0.39, 0.67)	0.15 (0.11, 0.19)
Sup Ct 5 (LD-AR)	2016	0.77 (0.57, 0.89)	0.15 (0.11, 0.18)
Sup Ct 9 (AD-LR)	2016	0.67 (0.32, 0.92)	0.12 (0.07, 0.17)
Governor (LD-AR)	2018	0.7 (0.49, 0.85)	0.19 (0.16, 0.22)
Land Comm (LD-LR)	2018	0.75 (0.6, 0.87)	0.22 (0.18, 0.25)
U.S. Sen (AD-LR)	2018	0.66 (0.47, 0.82)	0.29 (0.25, 0.33)
RR Comm 1 (LD-AR)	2020	0.68 (0.47, 0.84)	0.24 (0.21, 0.27)
Sup Ct 8 (LD-AR)	2020	0.78 (0.61, 0.89)	0.22 (0.19, 0.25)
Avg.		0.66	0.19

Table A6: EI CVAP: CD 38

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	0.82 (0.78, 0.85)	0.17 (0.16, 0.19)
Lt. Governor (LD-AR)	2014	0.81 (0.77, 0.85)	0.25 (0.24, 0.26)
Sup Ct 7 (LD-AR)	2014	0.83 (0.8, 0.86)	0.21 (0.2, 0.23)
Sup Ct 5 (LD-AR)	2016	0.91 (0.89, 0.93)	0.18 (0.17, 0.2)
Sup Ct 9 (AD-LR)	2016	0.87 (0.84, 0.89)	0.15 (0.13, 0.16)
Governor (LD-AR)	2018	0.87 (0.84, 0.89)	0.24 (0.22, 0.26)
Land Comm (LD-LR)	2018	0.89 (0.87, 0.91)	0.25 (0.24, 0.27)
U.S. Sen (AD-LR)	2018	0.9 (0.88, 0.92)	0.32 (0.31, 0.34)
RR Comm 1 (LD-AR)	2020	0.82 (0.79, 0.85)	0.26 (0.24, 0.27)
Sup Ct 8 (LD-AR)	2020	0.83 (0.8, 0.85)	0.24 (0.22, 0.27)
Avg.		0.85	0.23

Table A7: EI CVAP: Harris County

State House Districts 31 and 43 (South Texas)

Office	Year	Former		Enacted	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	81 (76, 85)	9 (5, 14)	81 (76, 85)	7 (3, 10)
Lt. Governor (LD-AR)	2014	89 (85, 92)	8 (4, 13)	88 (83, 92)	8 (4, 12)
Sup Ct 7 (LD-AR)	2014	90 (86, 93)	8 (4, 14)	89 (84, 92)	7 (4, 11)
Sup Ct 5 (LD-AR)	2016	85 (82, 88)	9 (5, 14)	84 (80, 87)	6 (3, 10)
Sup Ct 9 (AD-LR)	2016	75 (71, 79)	10 (6, 15)	74 (70, 78)	7 (4, 11)
Governor (LD-AR)	2018	67 (63, 70)	8 (4, 13)	68 (64, 72)	6 (3, 9)
Land Comm (LD-LR)	2018	74 (70, 78)	9 (5, 15)	75 (71, 79)	6 (3, 9)
U.S. Sen (AD-LR)	2018	76 (72, 80)	10 (6, 15)	76 (72, 80)	6 (3, 10)
RR Comm 1 (LD-AR)	2020	69 (65, 72)	8 (4, 12)	68 (64, 71)	6 (3, 9)
State Rep 31 (LD-AR)	2020	82 (79, 85)	7 (4, 11)	-	-
Sup Ct 8 (LD-AR)	2020	70 (67, 73)	7 (4, 12)	69 (66, 72)	5 (2, 8)
Avg.		78	8	77	6

Table A8: EI CVAP: HD 31

Office	Year	Former		Enacted	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	82 (73, 89)	7 (4, 13)	84 (76, 90)	9 (5, 15)
Lt. Governor (LD-AR)	2014	88 (81, 93)	10 (5, 16)	89 (85, 94)	11 (6, 16)
State Rep 43 (LD-LR)	2014	67 (58, 75)	12 (7, 18)	-	-
Sup Ct 7 (LD-AR)	2014	90 (85, 94)	9 (5, 15)	90 (85, 94)	11 (7, 17)
State Rep 43 (LD-LR)	2016	64 (58, 69)	7 (4, 11)	-	-
Sup Ct 5 (LD-AR)	2016	89 (84, 93)	6 (3, 10)	90 (85, 93)	6 (3, 10)
Sup Ct 9 (AD-LR)	2016	77 (70, 82)	6 (3, 11)	79 (73, 83)	7 (4, 11)
Governor (LD-AR)	2018	69 (63, 75)	6 (3, 11)	72 (66, 77)	6 (3, 9)
Land Comm (LD-LR)	2018	77 (70, 84)	7 (4, 12)	81 (75, 86)	6 (3, 10)
State Rep 43 (LD-LR)	2018	66 (61, 72)	9 (5, 14)	-	-
U.S. Sen (AD-LR)	2018	80 (74, 86)	8 (4, 13)	82 (77, 87)	8 (5, 13)
RR Comm 1 (LD-AR)	2020	71 (66, 76)	8 (4, 12)	74 (70, 78)	8 (5, 11)
Sup Ct 8 (LD-AR)	2020	73 (68, 78)	7 (4, 11)	76 (71, 80)	7 (4, 10)
Avg.		76	8	82	8

Table A9: EI CVAP: HD 43

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	59 (28, 85)	11 (5, 19)
Lt. Governor (LD-AR)	2014	65 (39, 87)	13 (5, 22)
Sup Ct 7 (LD-AR)	2014	63 (36, 86)	11 (5, 19)
Sup Ct 5 (LD-AR)	2016	77 (58, 92)	8 (3, 14)
Sup Ct 9 (AD-LR)	2016	76 (56, 91)	7 (3, 13)
Governor (LD-AR)	2018	72 (48, 89)	5 (2, 10)
Land Comm (LD-LR)	2018	75 (52, 91)	6 (2, 13)
U.S. Sen (AD-LR)	2018	85 (65, 96)	7 (3, 14)
RR Comm 1 (LD-AR)	2020	74 (57, 90)	6 (2, 12)
Sup Ct 8 (LD-AR)	2020	75 (53, 91)	7 (2, 13)
Avg.		72	8

Table A10: EI CVAP: Wilson and Karnes counties pooled

State House Districts in El Paso and West Texas

Office	Year	Former		Enacted	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	72 (65, 79)	27 (20, 34)	72 (64, 78)	32 (24, 41)
Lt. Governor (LD-AR)	2014	80 (73, 86)	26 (19, 34)	79 (73, 86)	32 (24, 40)
Sup Ct 7 (LD-AR)	2014	82 (76, 88)	28 (19, 36)	81 (74, 86)	33 (25, 41)
Sup Ct 5 (LD-AR)	2016	79 (75, 83)	22 (15, 31)	81 (77, 84)	24 (16, 34)
Sup Ct 9 (AD-LR)	2016	69 (65, 74)	20 (13, 29)	71 (67, 75)	23 (14, 32)
Governor (LD-AR)	2018	68 (63, 73)	24 (17, 31)	70 (65, 74)	27 (18, 36)
Land Comm (LD-LR)	2018	70 (64, 74)	26 (19, 34)	73 (68, 77)	29 (21, 37)
U.S. Sen (AD-LR)	2018	76 (71, 79)	24 (17, 32)	78 (73, 82)	29 (22, 37)
RR Comm 1 (LD-AR)	2020	62 (58, 66)	25 (17, 33)	65 (61, 68)	28 (20, 39)
State Rep 74 (LD-LR)	2020	69 (66, 73)	26 (19, 33)	-	-
Sup Ct 8 (LD-AR)	2020	64 (59, 69)	25 (16, 33)	67 (63, 71)	29 (21, 37)
Avg.		72	25	74	28

Table A11: EI CVAP: HD 74

Office	Year	Former		Enacted	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	82 (74, 89)	36 (15, 64)	80 (73, 87)	47 (22, 71)
Lt. Governor (LD-AR)	2014	80 (71, 88)	41 (17, 73)	82 (76, 89)	30 (11, 55)
Sup Ct 7 (LD-AR)	2014	83 (75, 91)	37 (18, 60)	83 (76, 90)	35 (13, 59)
Sup Ct 5 (LD-AR)	2016	84 (79, 89)	34 (13, 64)	85 (81, 89)	34 (15, 61)
Sup Ct 9 (AD-LR)	2016	77 (73, 82)	37 (16, 67)	77 (74, 83)	44 (13, 75)
Governor (LD-AR)	2018	79 (74, 84)	34 (11, 63)	78 (73, 83)	41 (14, 77)
Land Comm (LD-LR)	2018	80 (75, 84)	41 (16, 70)	80 (75, 84)	44 (20, 74)
U.S. Sen (AD-LR)	2018	87 (82, 91)	34 (14, 58)	85 (80, 91)	42 (14, 75)
RR Comm 1 (LD-AR)	2020	74 (69, 78)	36 (13, 71)	72 (68, 77)	42 (11, 74)
Sup Ct 8 (LD-AR)	2020	76 (71, 80)	35 (12, 66)	75 (71, 79)	39 (15, 61)
Avg.		80	36	80	40

Table A12: EI CVAP: HD 75

Office	Year	Former	
		Latinos	Anglos
Land Comm (AD-LR)	2014	93 (87, 97)	25 (11, 42)
Lt. Governor (LD-AR)	2014	93 (88, 96)	28 (12, 50)
Sup Ct 7 (LD-AR)	2014	93 (88, 96)	30 (13, 51)
Sup Ct 5 (LD-AR)	2016	90 (86, 92)	23 (8, 43)
Sup Ct 9 (AD-LR)	2016	83 (80, 86)	27 (10, 53)
Governor (LD-AR)	2018	86 (82, 89)	26 (8, 51)
Land Comm (LD-LR)	2018	88 (84, 92)	24 (10, 47)
U.S. Sen (AD-LR)	2018	92 (89, 94)	28 (12, 48)
RR Comm 1 (LD-AR)	2020	80 (77, 83)	32 (12, 56)
Sup Ct 8 (LD-AR)	2020	83 (80, 85)	29 (12, 52)
Avg.		88	27

Table A13: EI CVAP: HD 76

Office	Year	Former		Enacted	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	84 (72, 93)	37 (20, 53)	86 (81, 91)	38 (21, 57)
Lt. Governor (LD-AR)	2014	83 (69, 92)	39 (20, 58)	87 (82, 92)	40 (24, 60)
Sup Ct 7 (LD-AR)	2014	82 (70, 92)	39 (22, 58)	91 (86, 95)	34 (18, 51)
Sup Ct 5 (LD-AR)	2016	90 (84, 94)	27 (13, 44)	87 (85, 90)	34 (15, 58)
Sup Ct 9 (AD-LR)	2016	85 (78, 90)	26 (11, 45)	82 (80, 84)	32 (13, 54)
Governor (LD-AR)	2018	89 (81, 95)	22 (9, 44)	84 (81, 86)	41 (23, 62)
Land Comm (LD-LR)	2018	88 (77, 94)	30 (13, 52)	85 (83, 88)	37 (19, 57)
U.S. Sen (AD-LR)	2018	91 (84, 95)	40 (22, 61)	89 (86, 91)	52 (34, 71)
RR Comm 1 (LD-AR)	2020	84 (75, 90)	30 (11, 56)	79 (77, 82)	44 (23, 69)
Sup Ct 8 (LD-AR)	2020	86 (79, 92)	32 (14, 49)	82 (80, 85)	42 (20, 62)
Avg.		86	32	85	40

Table A14: EI CVAP: HD 77

Office	Year	Former		Enacted	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	64 (43, 81)	38 (23, 52)	70 (48, 86)	39 (27, 50)
Lt. Governor (LD-AR)	2014	70 (47, 87)	35 (16, 50)	70 (49, 85)	38 (23, 50)
Sup Ct 7 (LD-AR)	2014	70 (48, 89)	37 (21, 51)	71 (43, 87)	38 (23, 52)
State Rep 78 (LD-AR)	2016	84 (71, 93)	31 (13, 57)	-	-
Sup Ct 5 (LD-AR)	2016	85 (68, 93)	23 (9, 48)	89 (80, 95)	20 (9, 37)
Sup Ct 9 (AD-LR)	2016	83 (69, 92)	17 (6, 37)	85 (74, 93)	19 (8, 35)
Governor (LD-AR)	2018	85 (72, 92)	23 (11, 44)	88 (80, 94)	20 (8, 34)
Land Comm (LD-LR)	2018	82 (70, 92)	27 (11, 45)	89 (79, 94)	22 (9, 40)
State Rep 78 (LD-AR)	2018	86 (74, 93)	34 (14, 55)	-	-
U.S. Sen (AD-LR)	2018	88 (71, 95)	33 (15, 62)	89 (80, 94)	39 (24, 55)
RR Comm 1 (LD-AR)	2020	80 (66, 88)	25 (8, 50)	83 (75, 90)	24 (11, 36)
State Rep 78 (LD-AR)	2020	80 (71, 88)	34 (15, 51)	-	-
Sup Ct 8 (LD-AR)	2020	79 (68, 87)	32 (15, 53)	83 (70, 91)	27 (13, 47)
Avg.		80	30	82	29

Table A15: EI CVAP: HD 78

Office	Year	Former		Enacted	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	70 (43, 86)	47 (20, 80)	76 (61, 86)	37 (16, 64)
Lt. Governor (LD-AR)	2014	77 (65, 88)	23 (8, 48)	80 (65, 91)	31 (13, 59)
Sup Ct 7 (LD-AR)	2014	72 (51, 88)	47 (22, 74)	77 (65, 87)	38 (14, 60)
Sup Ct 5 (LD-AR)	2016	91 (80, 96)	15 (6, 28)	87 (79, 92)	19 (9, 40)
Sup Ct 9 (AD-LR)	2016	73 (63, 86)	42 (10, 85)	75 (67, 82)	30 (13, 63)
Governor (LD-AR)	2018	79 (71, 90)	26 (7, 49)	81 (74, 87)	23 (11, 40)
Land Comm (LD-LR)	2018	84 (74, 93)	23 (7, 48)	86 (76, 92)	19 (8, 42)
U.S. Sen (AD-LR)	2018	94 (88, 98)	15 (7, 29)	92 (87, 96)	19 (9, 34)
RR Comm 1 (LD-AR)	2020	75 (70, 81)	29 (13, 51)	76 (68, 83)	31 (10, 65)
Sup Ct 8 (LD-AR)	2020	77 (71, 84)	31 (12, 58)	79 (73, 85)	25 (10, 45)
Avg.		79	30	81	27

Table A16: EI CVAP: HD 79

Office	Year	Former		Enacted	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	37 (21, 57)	5 (3, 8)	42 (25, 61)	6 (4, 9)
Lt. Governor (LD-AR)	2014	36 (19, 56)	5 (3, 7)	40 (21, 59)	5 (3, 8)
Sup Ct 7 (LD-AR)	2014	42 (24, 64)	6 (3, 9)	42 (24, 62)	6 (4, 10)
Sup Ct 5 (LD-AR)	2016	78 (65, 88)	6 (3, 10)	80 (66, 90)	8 (3, 13)
Sup Ct 9 (AD-LR)	2016	73 (57, 86)	6 (3, 12)	77 (59, 89)	6 (2, 13)
Governor (LD-AR)	2018	69 (51, 83)	7 (3, 12)	72 (54, 87)	8 (4, 14)
Land Comm (LD-LR)	2018	74 (57, 88)	6 (3, 12)	66 (47, 83)	10 (5, 16)
State Rep 81 (LD-AR)	2018	67 (50, 83)	6 (3, 12)	-	-
U.S. Sen (AD-LR)	2018	74 (55, 87)	9 (4, 14)	74 (55, 89)	11 (5, 17)
RR Comm 1 (LD-AR)	2020	63 (42, 77)	6 (3, 11)	66 (48, 81)	7 (3, 12)
Sup Ct 8 (LD-AR)	2020	64 (48, 80)	6 (2, 12)	67 (51, 81)	7 (3, 13)
Avg.		62	6	63	7

Table A17: EI CVAP: HD 81

Office	Year	Former		Enacted	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	83 (79, 86)	17 (13, 20)	84 (80, 86)	16 (13, 21)
Lt. Governor (LD-AR)	2014	86 (83, 89)	17 (14, 20)	86 (83, 89)	18 (14, 22)
Sup Ct 7 (LD-AR)	2014	86 (84, 89)	16 (13, 19)	87 (85, 90)	16 (13, 20)
Sup Ct 5 (LD-AR)	2016	87 (85, 89)	12 (9, 15)	87 (85, 89)	12 (9, 15)
Sup Ct 9 (AD-LR)	2016	80 (78, 82)	12 (9, 15)	79 (77, 81)	12 (9, 16)
Governor (LD-AR)	2018	81 (79, 83)	14 (11, 18)	81 (79, 84)	15 (11, 18)
Land Comm (LD-LR)	2018	83 (81, 85)	14 (11, 17)	83 (81, 85)	15 (12, 18)
U.S. Sen (AD-LR)	2018	89 (87, 90)	16 (13, 19)	89 (87, 90)	17 (14, 21)
RR Comm 1 (LD-AR)	2020	77 (76, 79)	13 (10, 16)	77 (75, 79)	14 (11, 17)
Sup Ct 8 (LD-AR)	2020	79 (78, 81)	13 (10, 16)	79 (77, 81)	15 (11, 18)
Avg.		83	14	83	15

Table A18: EI CVAP: West Texas HDs pooled

State House District 118 (Bexar County)

Office	Year	Former		Enacted	
		Latinos	Anglos	Latinos	Anglos
Land Comm (AD-LR)	2014	82 (74, 89)	13 (6, 22)	80 (68, 89)	15 (9, 23)
Lt. Governor (LD-AR)	2014	88 (82, 93)	17 (10, 27)	81 (71, 89)	23 (13, 33)
Sup Ct 7 (LD-AR)	2014	88 (82, 94)	14 (7, 23)	84 (75, 91)	15 (8, 25)
State Rep 118 (LD-LR)	2016	81 (75, 86)	15 (8, 23)	-	-
Sup Ct 5 (LD-AR)	2016	88 (83, 92)	14 (7, 23)	88 (81, 93)	14 (8, 22)
Sup Ct 9 (AD-LR)	2016	80 (75, 85)	13 (6, 21)	84 (75, 91)	13 (7, 21)
Governor (LD-AR)	2018	76 (71, 81)	16 (8, 24)	78 (69, 86)	16 (8, 26)
Land Comm (LD-LR)	2018	81 (76, 86)	16 (7, 25)	82 (73, 88)	18 (10, 27)
State Rep 118 (LD-LR)	2018	84 (78, 89)	17 (8, 28)	-	-
U.S. Sen (AD-LR)	2018	85 (80, 90)	19 (10, 29)	87 (78, 93)	20 (12, 31)
RR Comm 1 (LD-AR)	2020	79 (74, 83)	19 (10, 29)	78 (70, 84)	18 (8, 28)
State Rep 118 (LD-AR)	2020	82 (78, 86)	19 (10, 29)	-	-
Sup Ct 8 (LD-AR)	2020	80 (75, 84)	19 (10, 28)	79 (71, 85)	17 (9, 27)
Avg.		83	16	82	17

Table A19: EI CVAP: HD 118

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	89 (87, 91)	18 (15, 20)
Lt. Governor (LD-AR)	2014	90 (88, 92)	30 (28, 33)
Sup Ct 7 (LD-AR)	2014	90 (88, 92)	25 (22, 27)
Sup Ct 5 (LD-AR)	2016	92 (91, 93)	20 (17, 23)
Sup Ct 9 (AD-LR)	2016	88 (86, 90)	17 (15, 20)
Governor (LD-AR)	2018	87 (85, 89)	28 (25, 31)
Land Comm (LD-LR)	2018	90 (88, 92)	28 (26, 31)
U.S. Sen (AD-LR)	2018	90 (88, 92)	38 (35, 40)
RR Comm 1 (LD-AR)	2020	88 (85, 89)	29 (27, 31)
Sup Ct 8 (LD-AR)	2020	89 (88, 91)	26 (24, 30)
Avg.		89	26

Table A20: EI CVAP: Bexar County

B Appendix: Elections Analyzed for Opportunity Analysis

Year	Office	Name	Party	Ethnicity
2014	Lt. Governor	Van De Putte	D	Hispanic
2014	Sup Ct 7	Benavides	D	Hispanic
2014	RR Comm 3	Brown	D	Black
2016	Sup Ct 5	Garza	D	Hispanic
2018	CCA 7	Franklin	D	Black
2018	CCA Pres Judge	Jackson	D	Black
2018	Comptroller	Chevalier	D	Black
2018	Governor	Valdez	D	Hispanic
2018	Land Comm	Suazo	D	Hispanic
2020	CCA 3	Davis Frizell	D	Black
2020	RR Comm 1	Castaneda	D	Hispanic
2020	Sup Ct 7	Williams	D	Black
2020	Sup Ct 8	Triana	D	Hispanic

Table B1: Minority-preferred Candidate in Statewide Elections Analyzed

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C Appendix: Additional Figures for Opportunity Analysis

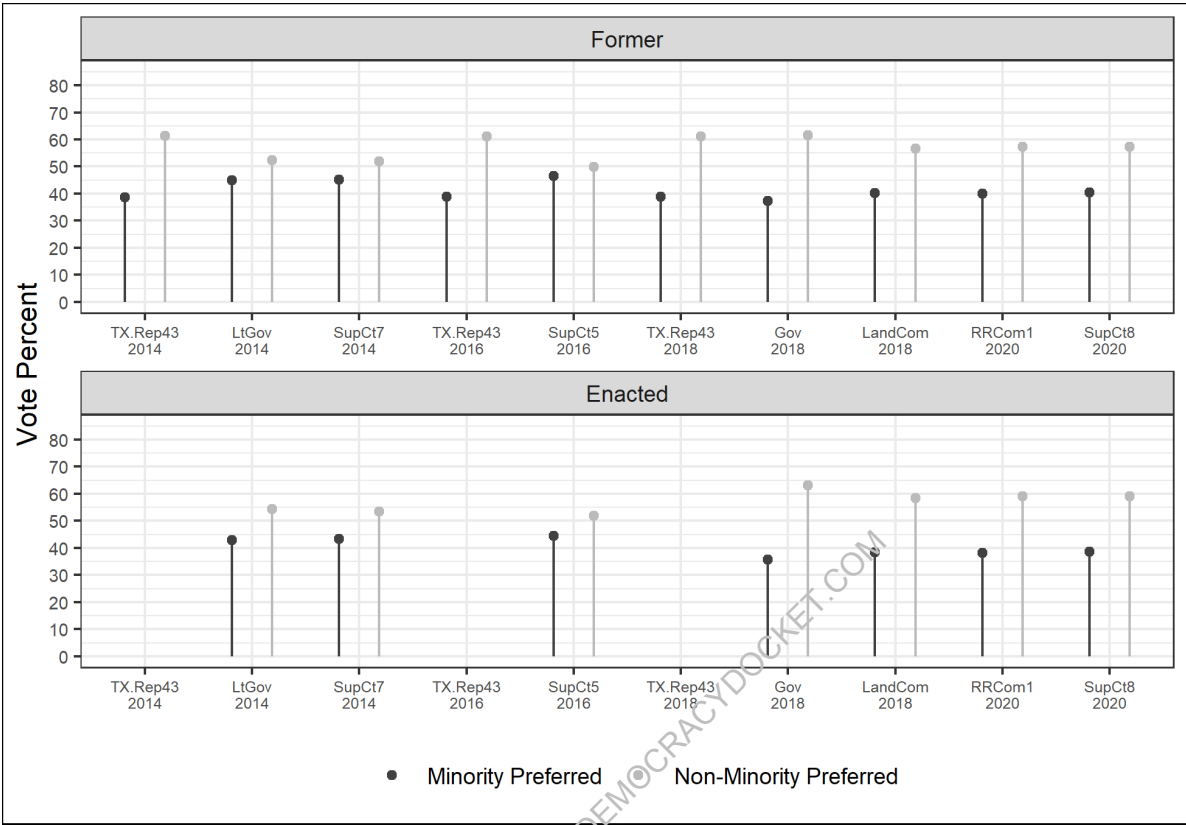


Figure C1: HD 43

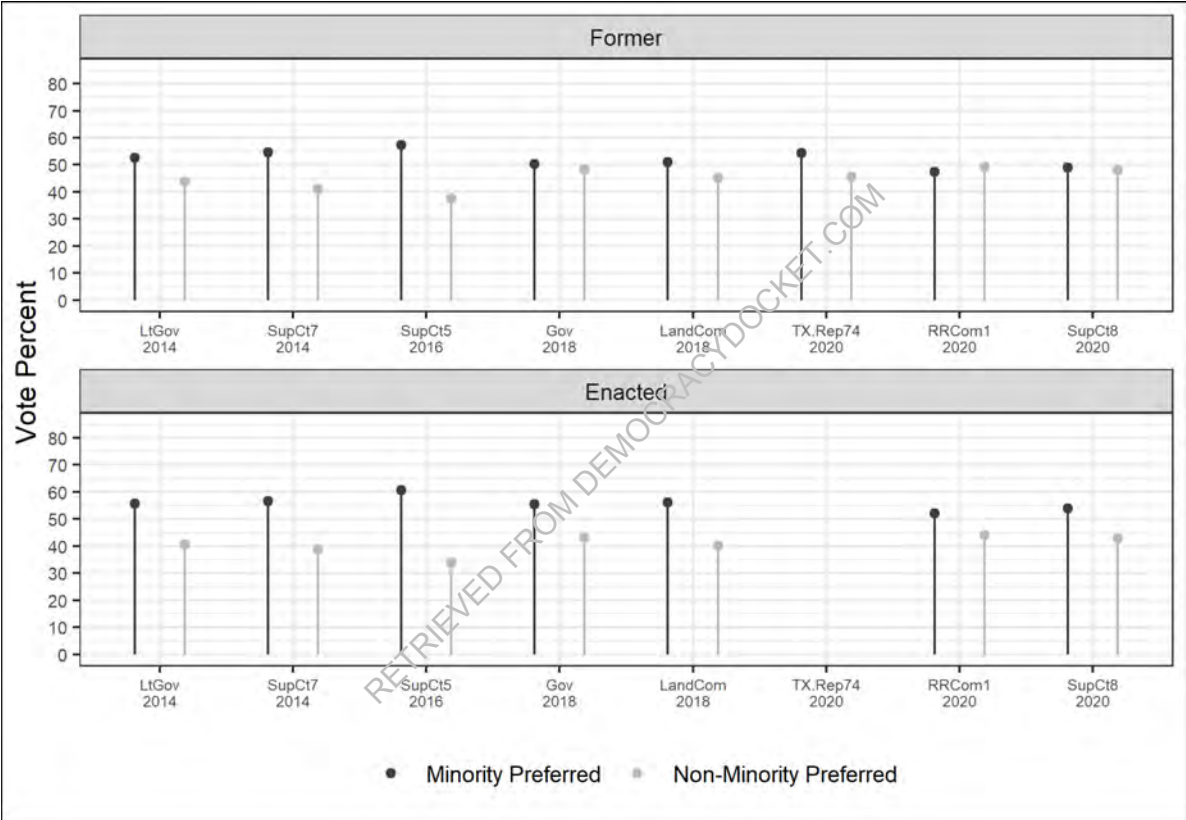


Figure C2: HD 74



Figure C3: HD 75



Figure C4: HD 76

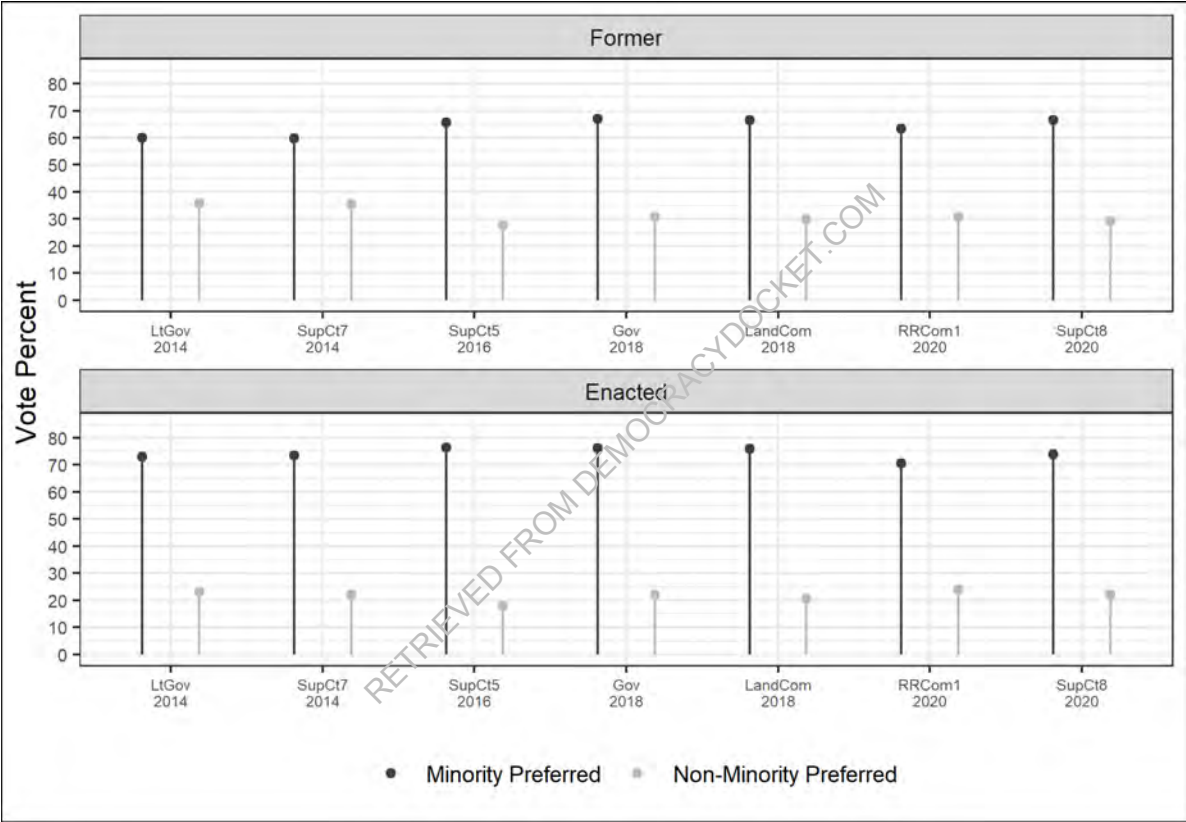


Figure C5: HD 77

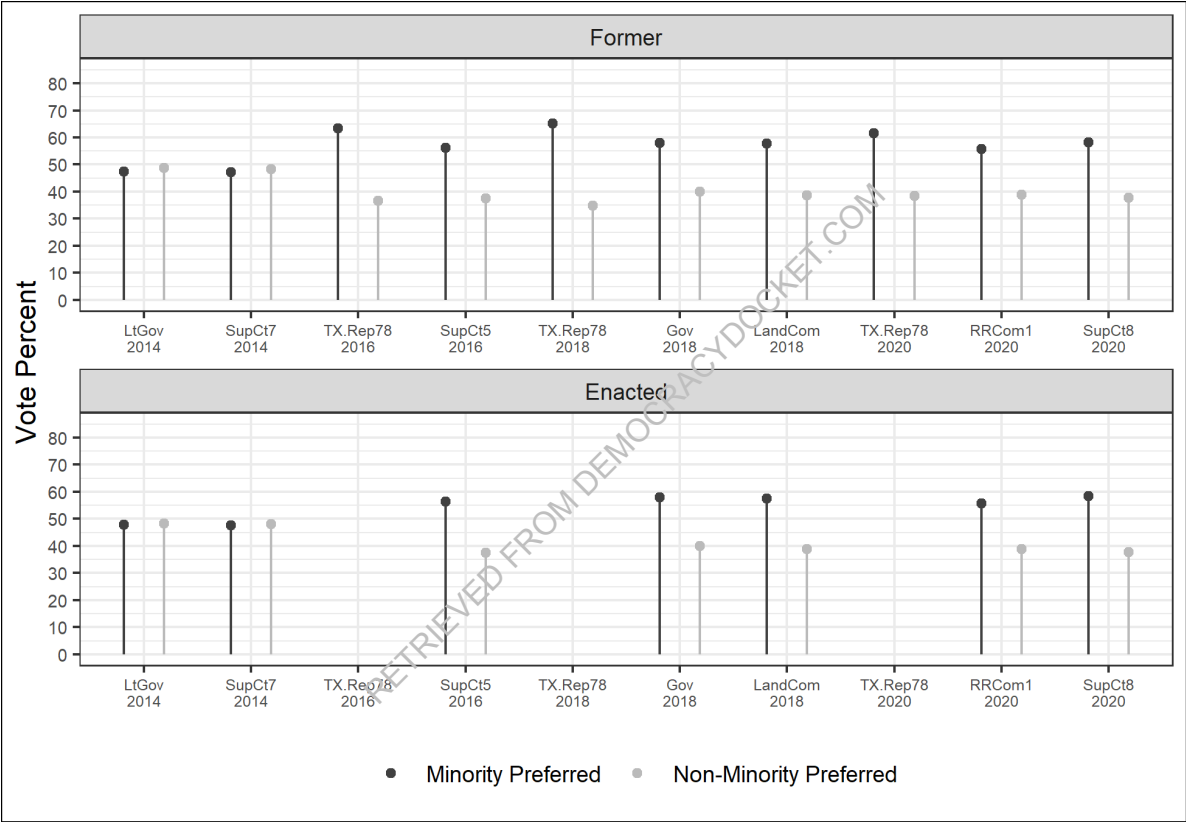


Figure C6: HD 78

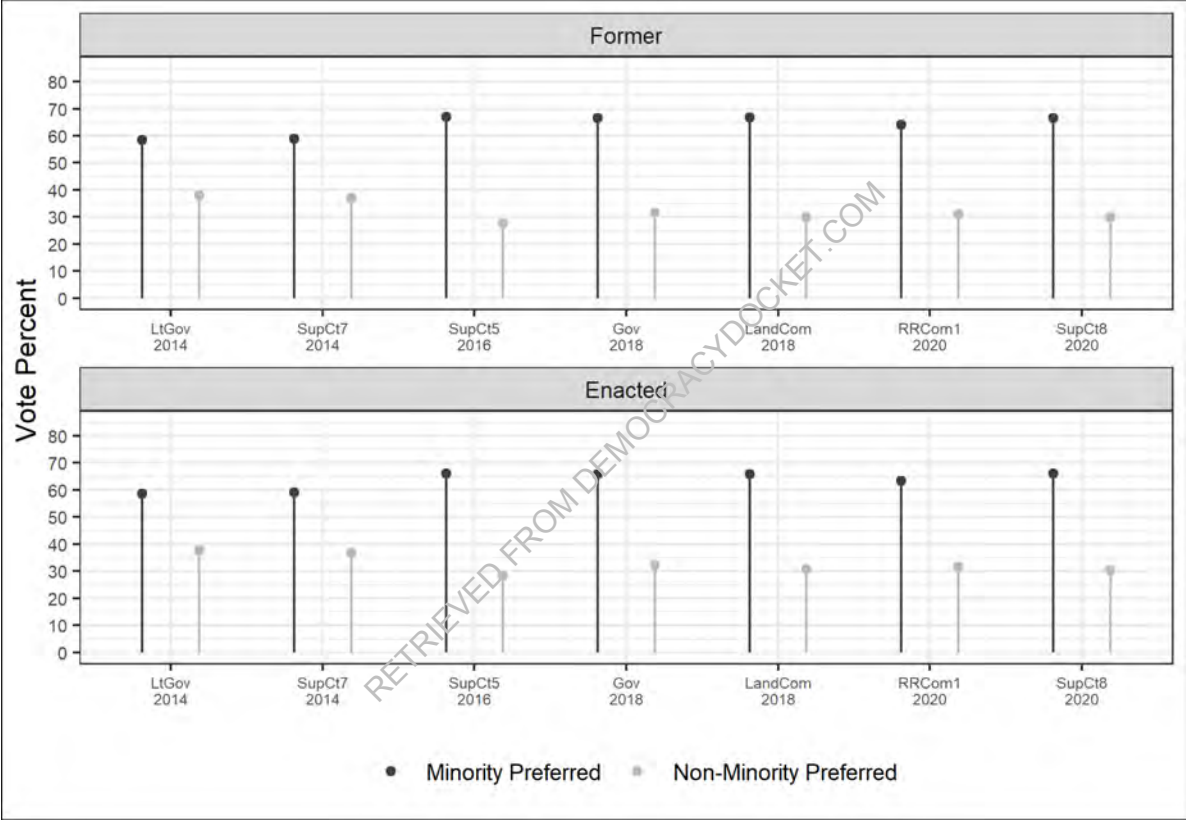


Figure C7: HD 79

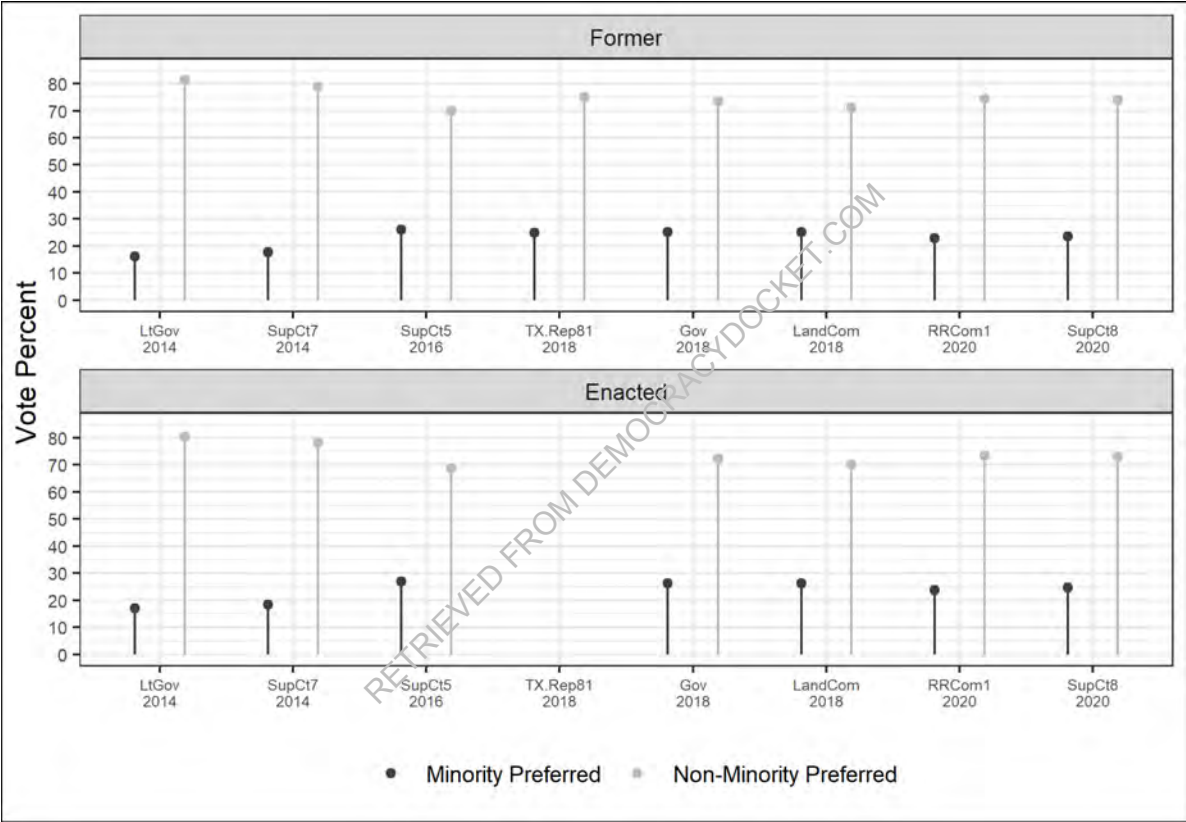


Figure C8: HD 81

D Appendix: Opportunity Analysis Using All Elections from Racially Polarized Voting Analysis

District	Endogenous Elections		Former Districts Exogenous Elections		All Elections		Enacted Districts Exogenous Elections	
	Margin	Win %	Margin	Win %	Margin	Win %	Margin	Win %
West Texas:								
23	-1.96	0	-5.06	20	-4.17	14	-11.97	0
Dallas-Fort Worth Metroplex:								
6	-13.49	0	-12.64	0	-12.73	0	-31.48	0
24	-1.33	0	-12.08	6	-11.48	6	-30.22	0
Harris County:								
38							-35.59	0

Table D1: CD Opportunity District Analysis Using All Elections from Racially Polarized Voting Analysis

District	Endogenous Elections		Former Districts Exogenous Elections		All Elections		Enacted Districts Exogenous Elections	
	Margin	Win %	Margin	Win %	Margin	Win %	Margin	Win %
South Texas:								
31	16.83	100	6.63	70	7.55	79	-8.94	20
43	-22.43	0	-13.33	0	-15.43	0	-16.92	0
El Paso and West Texas:								
74	8.79	100	6.95	90	7.12	93	15.27	100
75		100	41.29	100	41.29	100	43.36	100
76		100	52.57	100	52.57	100		
77		100	33.22	100	33.22	100	52.82	100
78	26.84	100	13.50	70	16.58	79	13.76	70
79		100	32.11	100	32.11	100	31.22	100
81	-49.98	0	-51.80	0	-51.63	0	-49.81	0
Bexar County:								
118	14.42	100	11.18	100	11.93	100	-4.65	30

Table D2: HD Opportunity District Analysis Using All Elections from Racially Polarized Voting Analysis

E Maps

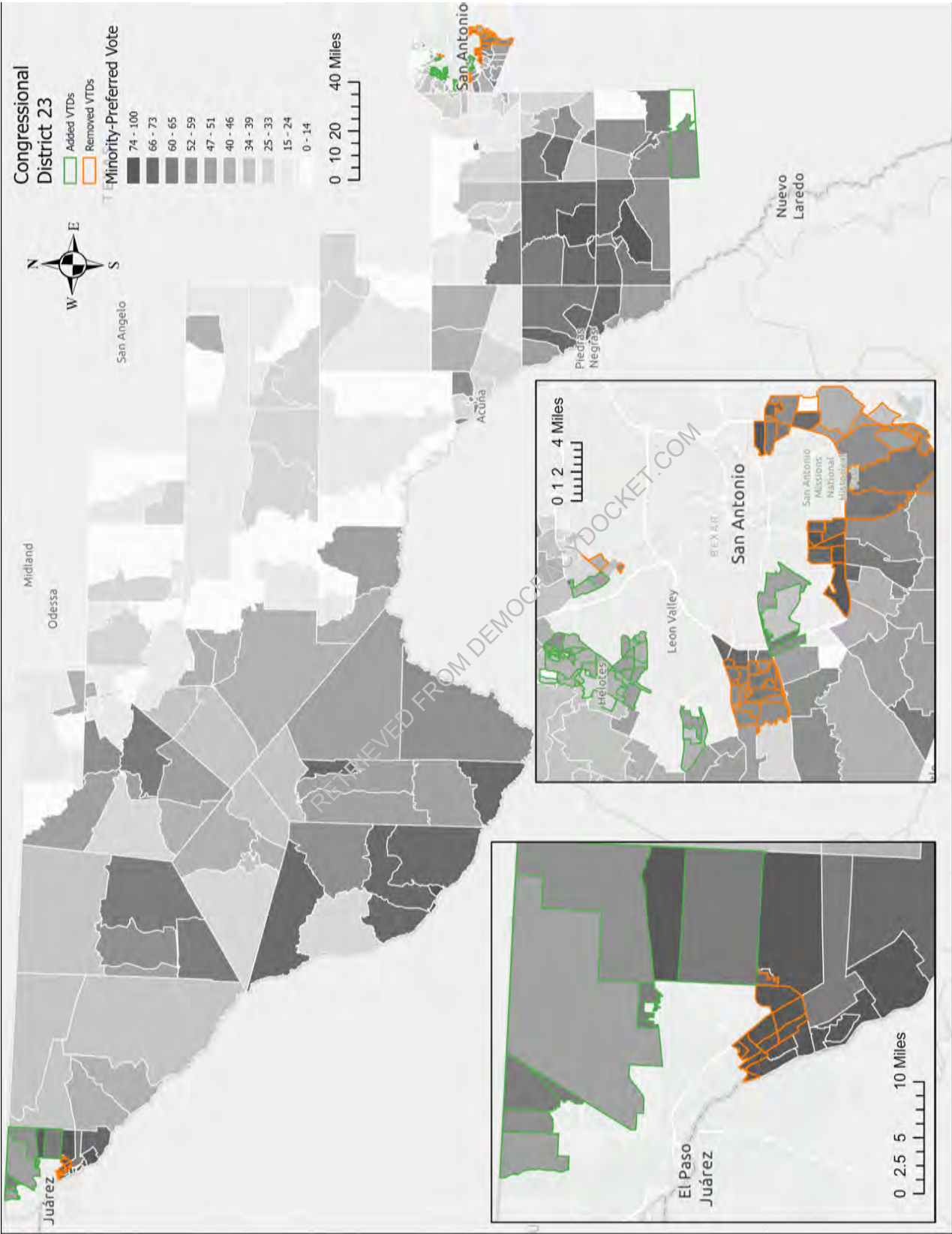


Figure E1: CD 23: Average Percent Minority-Preferred Vote

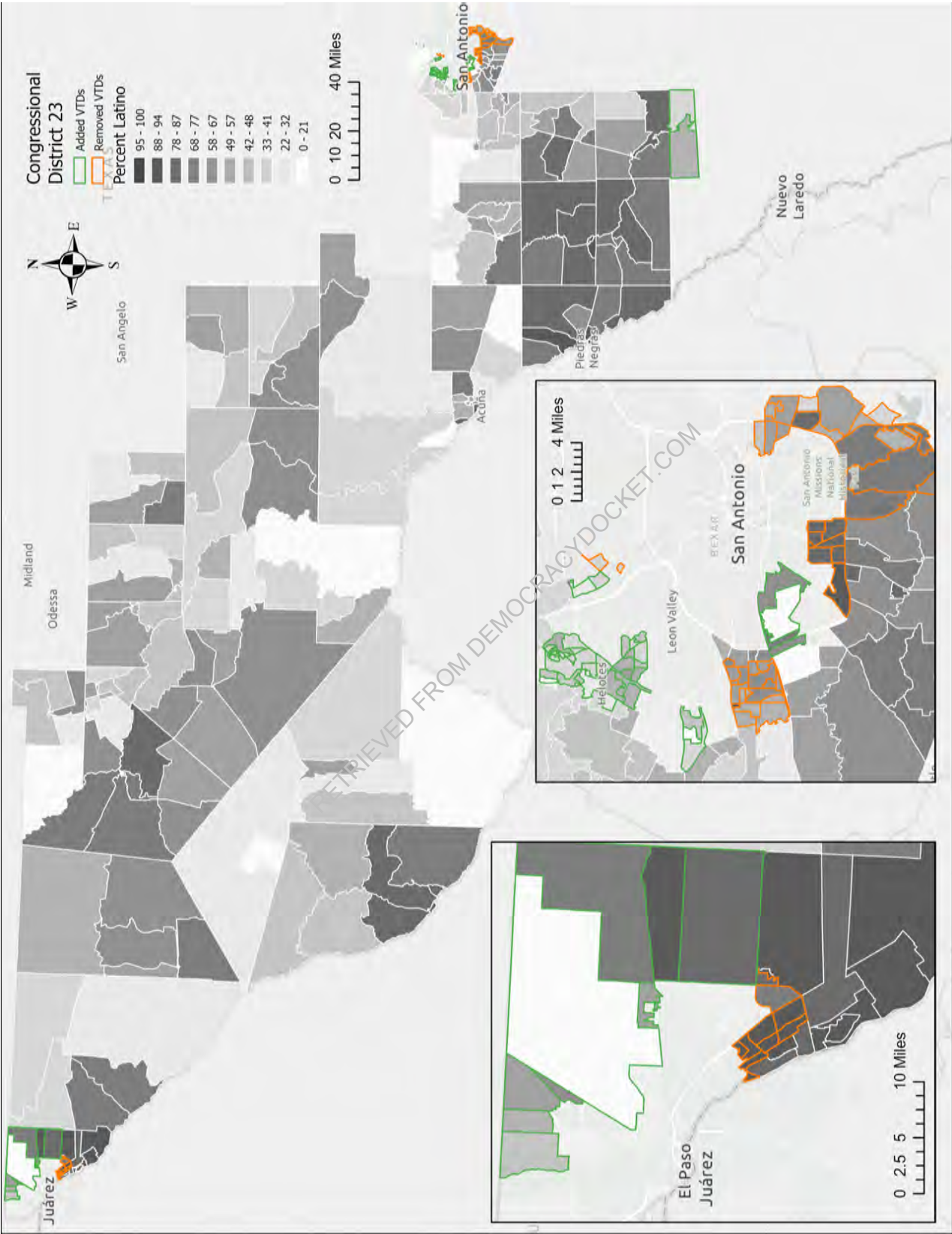


Figure E2: CD 23: Proportion Latino CVAP

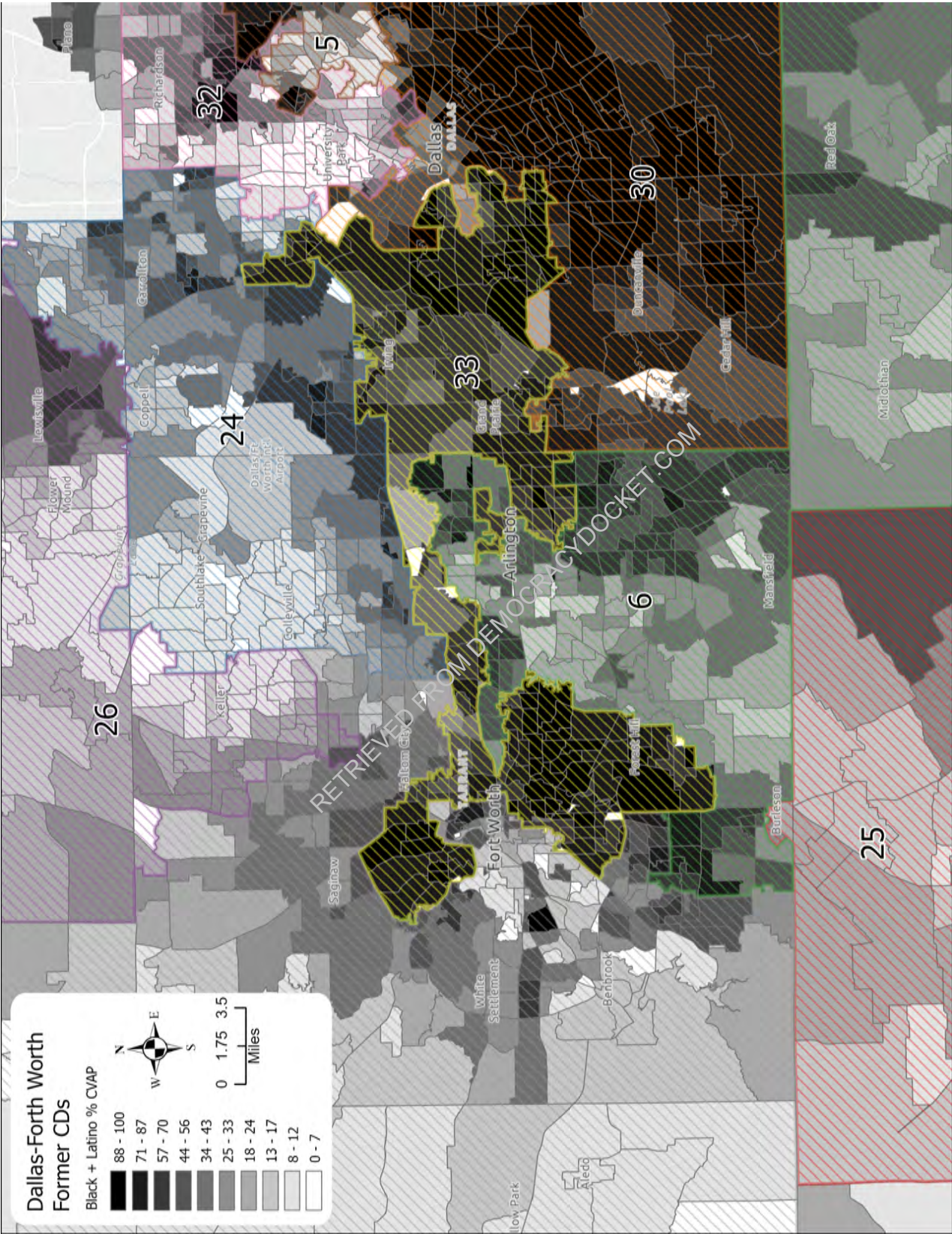


Figure E3: Dallas-Fort Worth Former CVAP: Combined Proportion Black and Latino CVAP

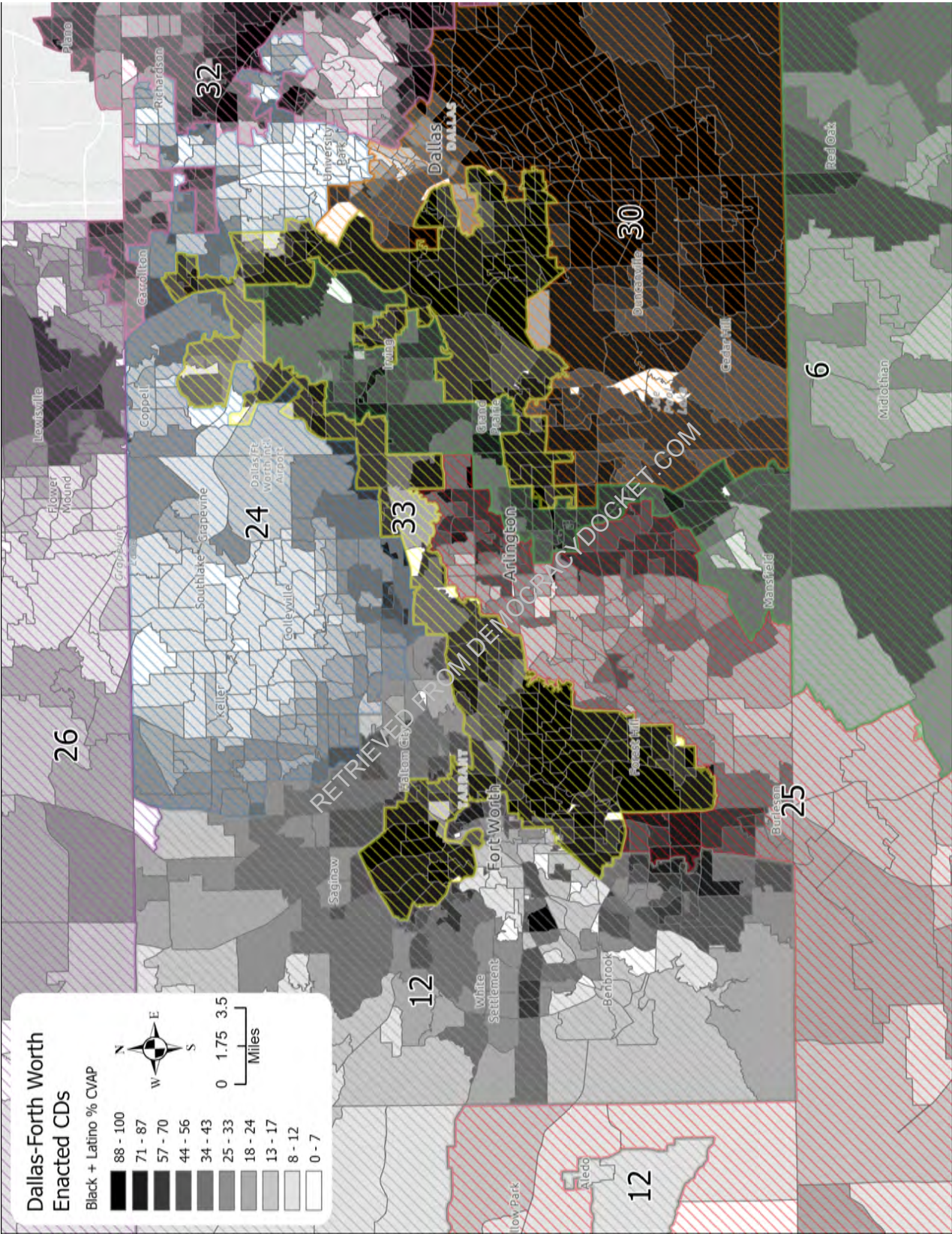


Figure E4: Dallas-Fort Worth Enacted CDs: Combined Proportion Black and Latino CVAP

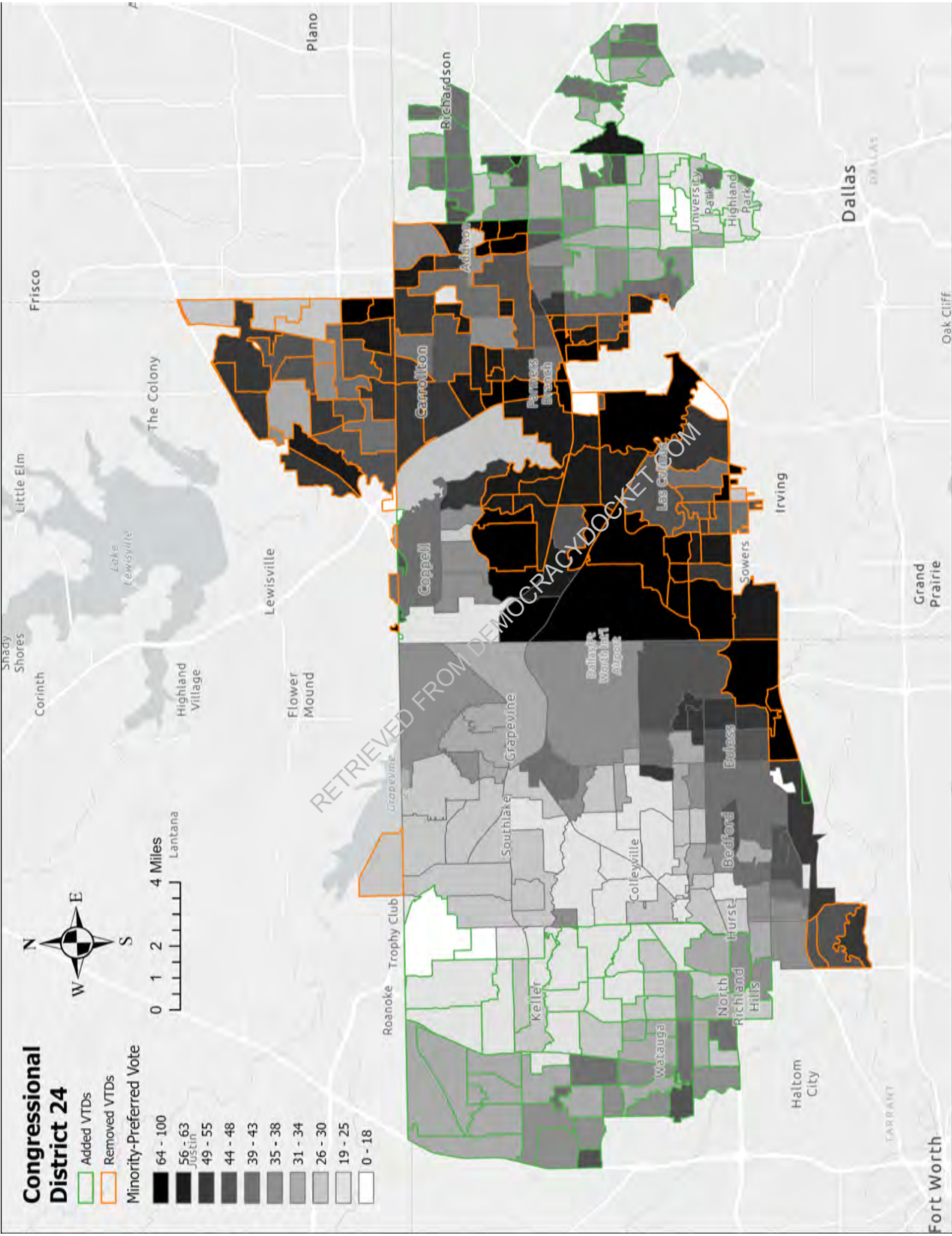


Figure E5: CD 24:Average Percent Minority-Preferred Vote

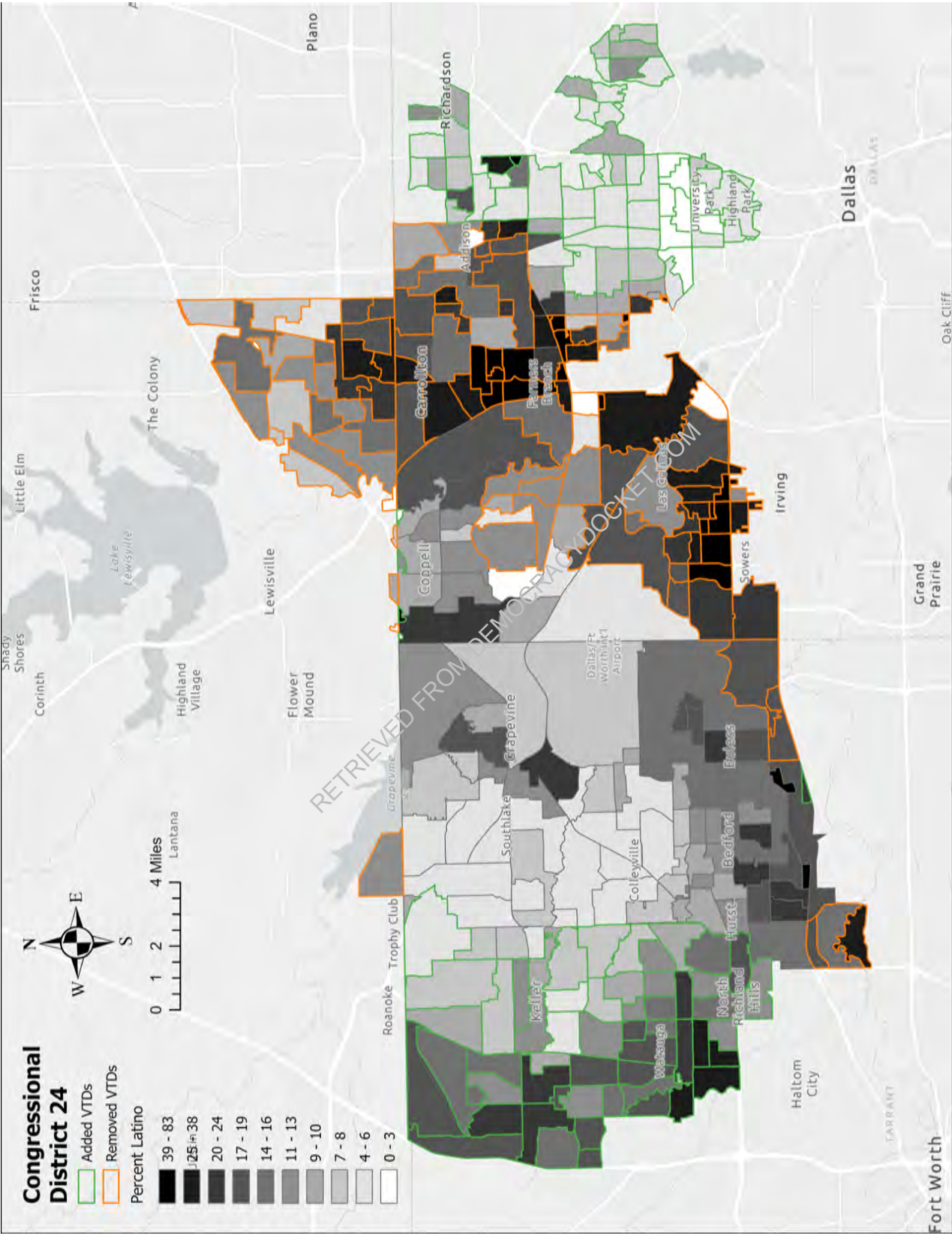


Figure E6: CD 24: Percent Latino

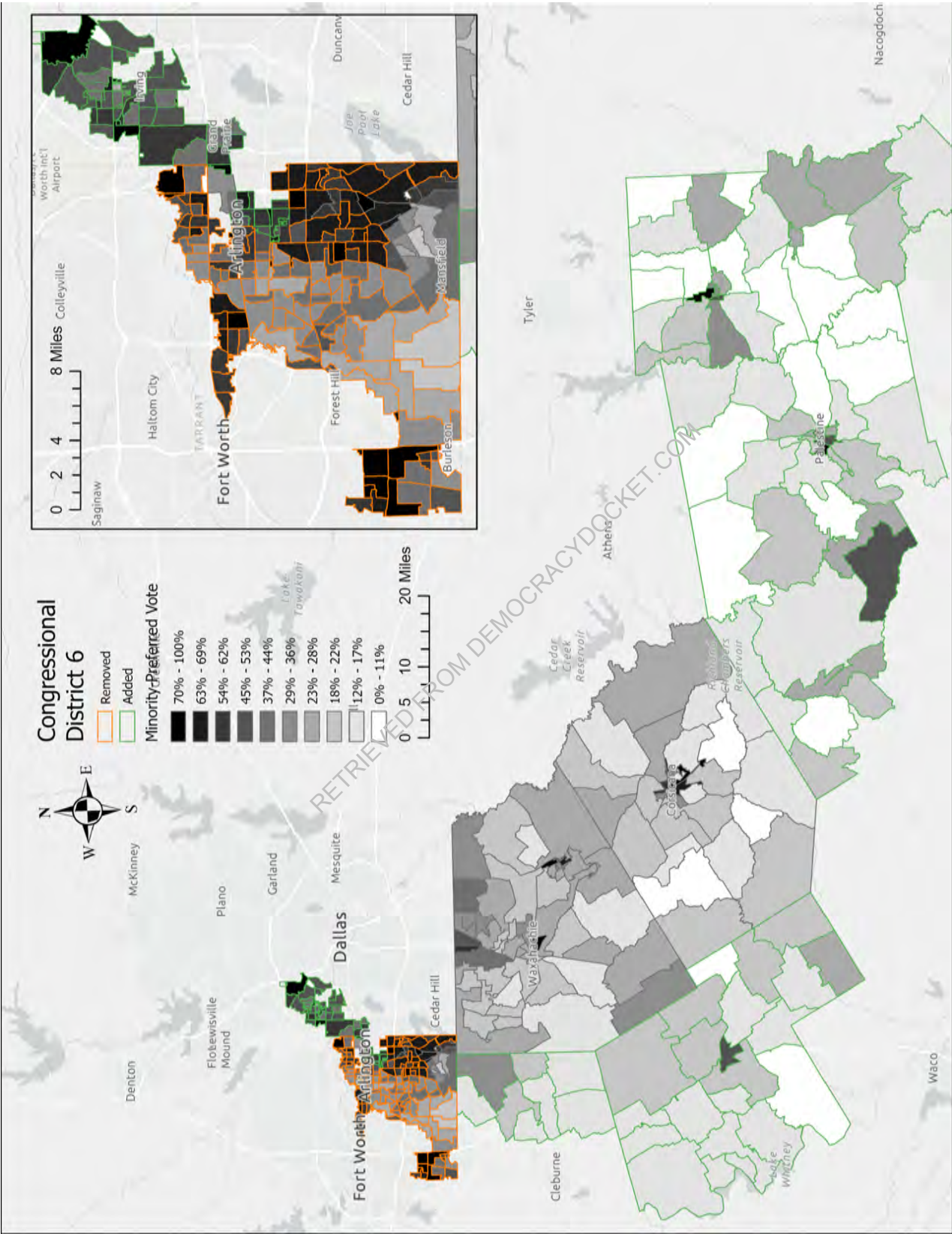


Figure E7: CD 6: Average Percent Minority-Preferred Vote

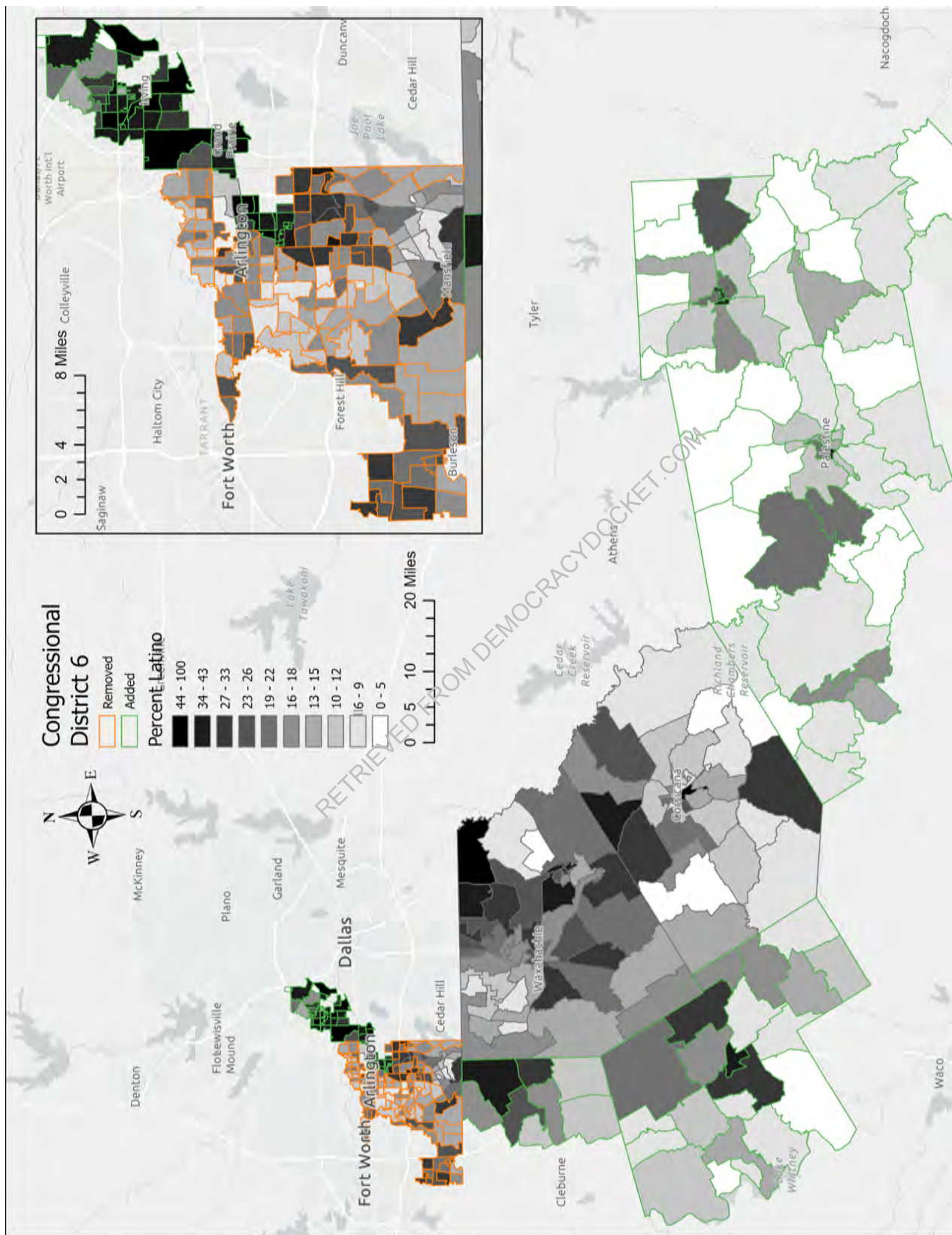


Figure E8: CD 6: Percent Latino

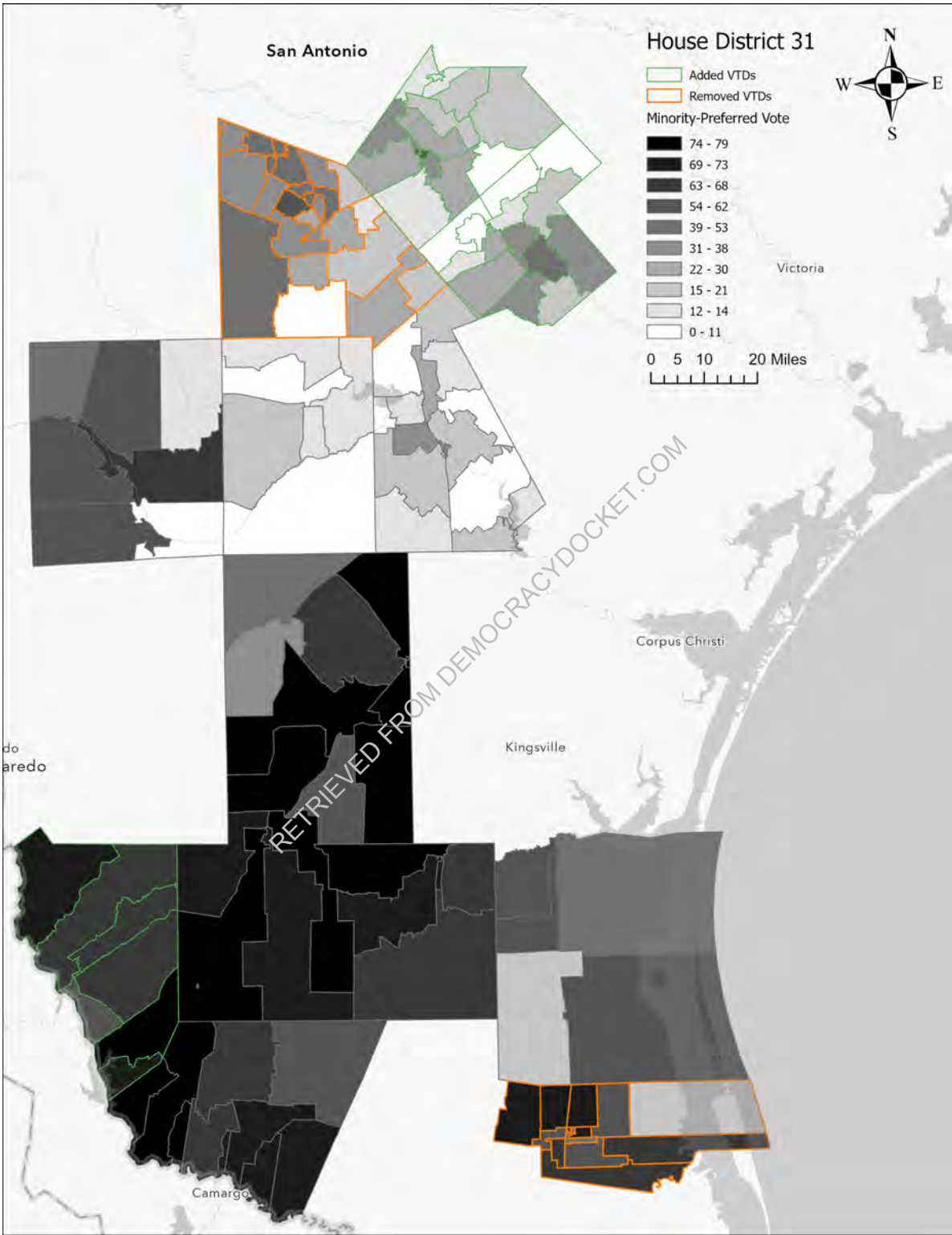


Figure E9: HD 31: Average Percent Minority-Preferred Vote

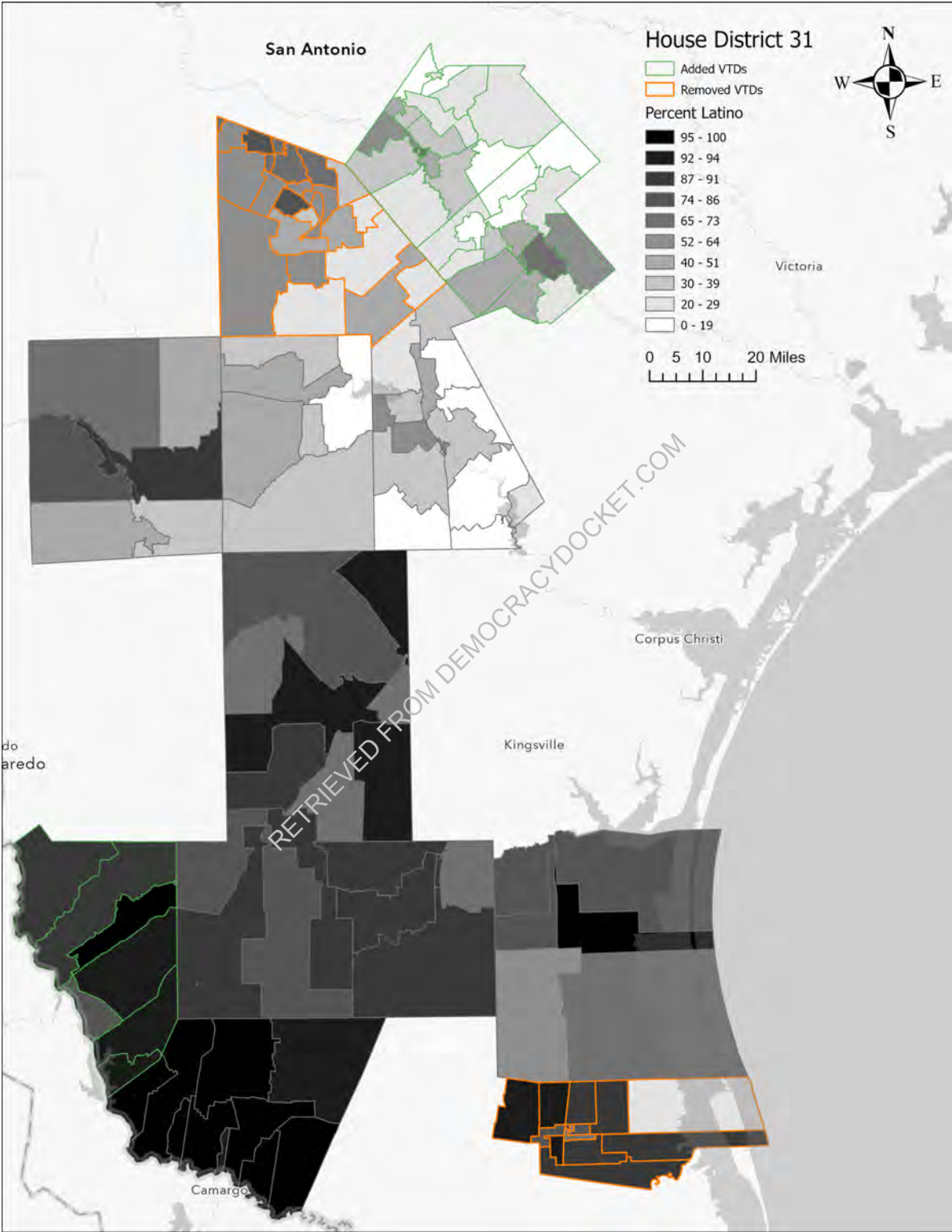


Figure E10: HD 31: Percent Latino

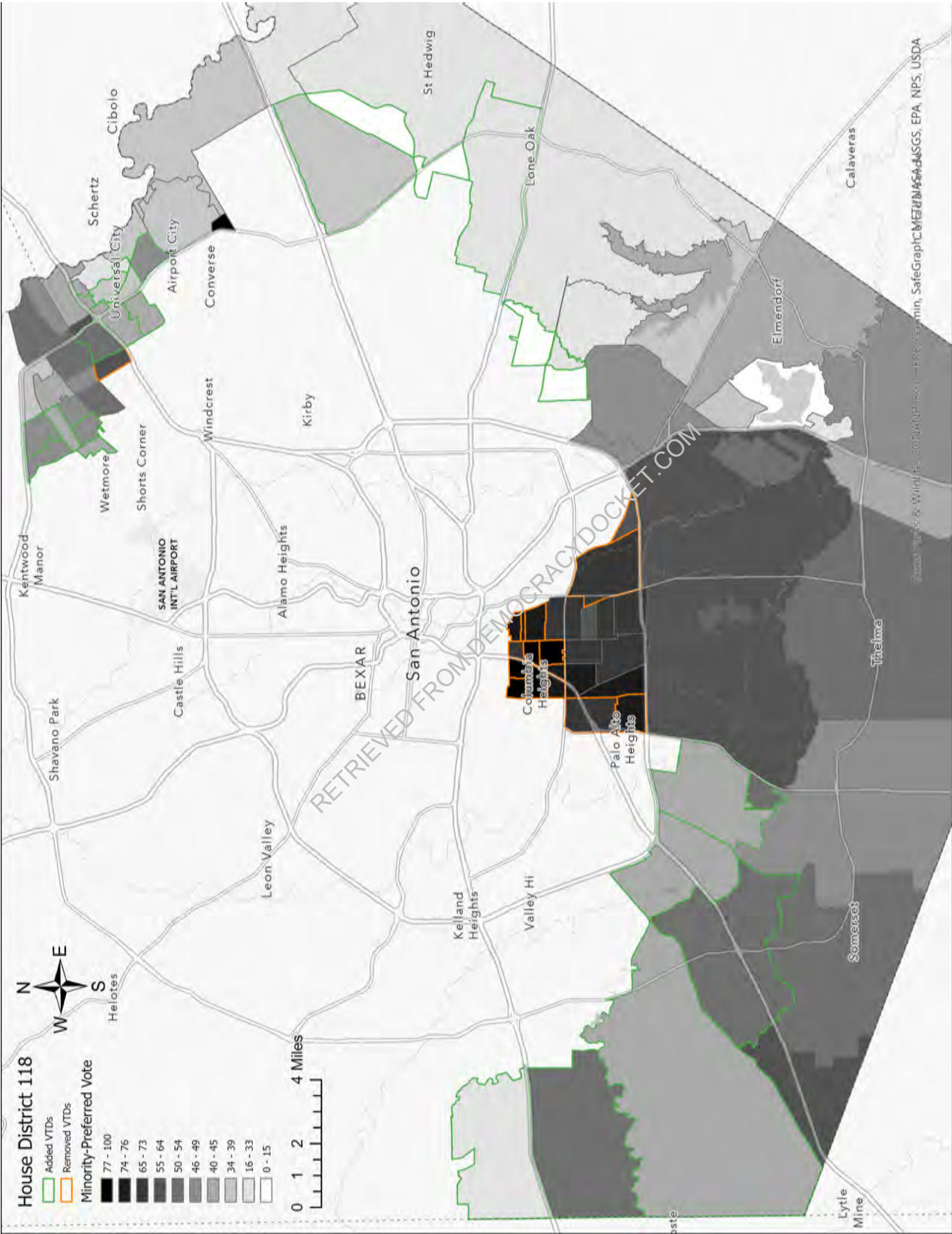


Figure E11: HD 118: Average Percent Minority-Preferred Vote



Figure E12: HD 118: Percent Latino

F Appendix: CDs and HDs by Percent Latino CVAP

Tables in this section are for the proportion Latino CVAP in CDs and HDs. CVAP is based on the data provided by the United States. Each table has a line separating districts with 40% Latino CVAP or higher from those with less than 40% Latino CVAP.

District	Former Win %	Enacted Win %	Former Latino %	Enacted Latino %
34	100.00	100	79.49	86.45
16	100.00	100	77.01	78.79
15	100.00	100	73.55	74.41
28	100.00	100	69.44	68.90
20	100.00	100	64.12	67.34
29	100.00	100	64.65	62.30
23	14.29	0	62.16	56.74
27	0.00	0	45.89	47.95
35	100.00	100	51.78	45.99
33	100.00	100	48.91	42.24
19	0.00	0	30.91	32.06
11	0.00	0	30.53	32.03
18	100.00	100	28.42	28.71
9	100.00	100	27.14	25.92
21	0.00	0	24.43	25.89
22	0.00	0	21.45	23.21
8	0.00	0	16.52	22.57
36	0.00	0	19.76	22.25
30	100.00	100	24.79	22.24
6	0.00	0	18.42	21.97
2	0.00	0	24.09	21.85
32	28.57	100	16.31	21.08
37	-	100	-	20.84
7	14.29	100	22.50	20.74
13	0.00	0	19.89	20.21
38	-	0	-	18.85
5	0.00	0	17.81	18.51
31	0.00	0	19.98	18.15
14	0.00	0	18.87	17.98
17	0.00	0	19.83	17.96
12	0.00	0	16.89	17.64
10	0.00	0	21.05	17.62
25	0.00	0	15.50	15.39
26	0.00	0	14.54	13.56
24	0.00	0	16.23	12.49
3	0.00	0	11.03	11.23
4	0.00	0	9.17	9.60
1	0.00	0	10.58	9.40

Table F1: CDs by Percent Latino CVAPs

District	Former Win %	Enacted Win %	Former Latino %	Enacted Latino %
42	100	100	94	94
38	100	100	87	92
35	100	100	85	92
40	100	100	91	90
36	100	100	90	90
39	100	100	89	89
75	100	100	88	88
77	100	100	74	86
41	100	100	82	82
79	100	100	79	78
37	100	71	87	78
80	100	100	85	77
74	86	100	74	74
34	86	100	68	70
140	100	100	68	69

78	71	71	67	68
124	100	100	67	67
117	86	100	56	66
119	100	100	61	65
31	57	29	76	65
144	71	71	67	65
143	100	100	64	63
125	100	100	68	63
116	100	100	60	60
123	100	100	62	60
43	0	0	62	59
118	100	29	68	58
104	100	100	60	56
81	0	0	52	53
145	100	100	60	52
90	100	100	60	50
120	100	100	44	44
51	100	100	43	43
107	71	100	28	42
32	0	0	48	40
148	100	71	42	40
88	0	0	39	38
45	43	71	32	38
131	100	100	34	37
135	43	71	29	37
82	0	0	37	37
103	100	100	38	36
84	0	0	34	35
110	100	100	39	35
105	71	71	34	35
122	0	0	33	34
142	100	100	34	33
30	0	0	36	33
44	0	0	33	33
149	100	100	30	33
121	0	0	36	33
72	0	0	34	33
137	100	100	31	31
128	0	0	30	30
100	100	100	26	30
53	0	0	26	30
141	100	100	30	29
50	100	100	24	29
83	0	0	30	29
87	0	0	28	29
17	0	0	34	29
46	100	100	30	28
139	100	100	32	28
138	0	0	33	27
29	0	0	24	26
147	100	100	25	25
113	57	71	24	25
25	0	0	28	24
86	0	0	24	24
132	0	0	31	23
28	0	0	18	23
111	100	100	24	23
101	100	100	26	23
129	0	0	23	23
127	0	0	22	22
48	100	100	21	22
150	0	0	22	22
92	0	71	15	22
52	43	0	25	21
95	100	100	21	21
99	0	0	21	21
136	57	71	17	21

54	0	0	21	21
14	0	0	21	21
55	0	0	20	21
23	0	0	20	21
71	0	0	21	20
126	0	0	25	20
85	0	0	31	20
10	0	0	19	20
73	0	0	20	20
114	29	100	13	19
91	0	0	19	19
3	0	0	19	19
76	100	71	87	19
93	0	0	20	19
26	0	0	16	19
49	100	100	17	19
58	0	0	18	18
130	0	0	19	18
102	57	100	15	18
27	100	100	17	18
146	100	100	19	18
109	100	100	18	17
56	0	0	18	17
20	0	0	16	17
24	0	0	16	16
115	57	57	20	16
22	100	100	13	16
13	0	0	14	16
63	0	0	12	16
12	0	0	18	16
57	0	0	12	16
96	0	0	17	15
16	0	0	17	15
133	0	0	15	15
97	0	0	16	15
94	0	0	16	15
69	0	0	14	15
15	0	0	15	15
64	0	0	16	15
4	0	0	13	14
18	0	0	17	14
47	29	86	14	14
112	29	0	21	14
59	0	0	16	13
65	29	0	16	13
68	0	0	16	13
19	0	0	6	13
134	71	86	13	13
89	0	0	12	13
8	0	0	15	13
33	0	0	13	13
67	14	0	11	13
6	0	0	13	12
106	0	0	14	12
70	0	29	12	11
9	0	0	6	10
5	0	0	11	10
2	0	0	10	10
66	0	0	9	10
61	0	0	9	10
60	0	0	12	10
98	0	0	10	10
7	0	0	9	9
11	0	0	11	9
62	0	0	8	8
108	14	0	12	7
21	0	0	11	7
1	0	0	5	4

G Appendix: EI Results for Illustrative Districts

The tables below are for EI estimates for Anglo, Latino, and Black voters. Estimates were also produced for a category of "other", but those are not shown. Cell entries are for the Democratic vote share, with 95% confidence intervals in parentheses. The party and race for the two major-party candidates are listed next to the office (D = Democrat, R = Republican, A = Anglo, L = Latino, B = Black).

Congressional District 23 (West Texas)

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Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	84 (80, 86)	13 (11, 16)
Lt. Governor (LD-AR)	2014	87 (84, 90)	17 (14, 20)
Sup Ct 7 (LD-AR)	2014	89 (86, 91)	16 (12, 19)
Sup Ct 5 (LD-AR)	2016	87 (85, 89)	14 (11, 18)
Sup Ct 9 (AD-LR)	2016	79 (77, 82)	13 (10, 15)
Governor (LD-AR)	2018	78 (75, 81)	15 (11, 18)
Land Comm (LD-LR)	2018	82 (79, 84)	14 (12, 17)
U.S. Sen (AD-LR)	2018	85 (82, 87)	19 (16, 23)
RR Comm 1 (LD-AR)	2020	75 (73, 78)	18 (14, 22)
Sup Ct 8 (LD-AR)	2020	77 (75, 79)	17 (13, 20)
Avg.		82	16

Table G1: EI CVAP – CD 23

Congressional District 38 (Harris County)

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	0.78 (0.7, 0.85)	0.09 (0.05, 0.13)
Lt. Governor (LD-AR)	2014	0.8 (0.73, 0.86)	0.11 (0.07, 0.16)
Sup Ct 7 (LD-AR)	2014	0.83 (0.76, 0.89)	0.09 (0.05, 0.14)
Sup Ct 5 (LD-AR)	2016	0.91 (0.88, 0.94)	0.07 (0.04, 0.1)
Sup Ct 9 (AD-LR)	2016	0.84 (0.79, 0.88)	0.07 (0.03, 0.11)
Governor (LD-AR)	2018	0.85 (0.8, 0.89)	0.09 (0.05, 0.14)
Land Comm (LD-LR)	2018	0.88 (0.83, 0.92)	0.1 (0.06, 0.14)
U.S. Sen (AD-LR)	2018	0.9 (0.86, 0.93)	0.11 (0.07, 0.17)
RR Comm 1 (LD-AR)	2020	0.83 (0.77, 0.87)	0.1 (0.06, 0.15)
Sup Ct 8 (LD-AR)	2020	0.82 (0.77, 0.86)	0.09 (0.06, 0.15)
Avg.		0.84	0.09

Table G2: EI CVAP – Illustrative CD 38

State House Districts 31 (South Texas)

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	85 (81, 88)	10 (6, 14)
Lt. Governor (LD-AR)	2014	91 (88, 94)	10 (5, 14)
Sup Ct 7 (LD-AR)	2014	92 (89, 94)	10 (5, 16)
Sup Ct 5 (LD-AR)	2016	88 (85, 91)	9 (5, 15)
Sup Ct 9 (AD-LR)	2016	78 (74, 81)	9 (5, 15)
Governor (LD-AR)	2018	71 (68, 74)	7 (4, 11)
Land Comm (LD-LR)	2018	78 (75, 81)	8 (5, 13)
U.S. Sen (AD-LR)	2018	80 (77, 83)	9 (5, 14)
RR Comm 1 (LD-AR)	2020	68 (66, 71)	10 (5, 16)
Sup Ct 8 (LD-AR)	2020	70 (67, 73)	10 (6, 15)
Avg.		80	9

Table G3: EI CVAP – Illustrative HD 31

State House Districts in El Paso and West Texas

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	72 (63, 78)	21 (15, 28)
Lt. Governor (LD-AR)	2014	80 (72, 87)	21 (15, 28)
Sup Ct 7 (LD-AR)	2014	82 (75, 87)	23 (16, 30)
Sup Ct 5 (LD-AR)	2016	78 (73, 82)	20 (13, 27)
Sup Ct 9 (AD-LR)	2016	68 (63, 72)	20 (14, 29)
Governor (LD-AR)	2018	66 (62, 71)	21 (16, 28)
Land Comm (LD-LR)	2018	68 (63, 73)	22 (16, 29)
U.S. Sen (AD-LR)	2018	73 (67, 77)	23 (17, 31)
RR Comm 1 (LD-AR)	2020	61 (57, 65)	21 (15, 28)
Sup Ct 8 (LD-AR)	2020	63 (58, 68)	22 (16, 29)
Avg.		71	22

Table G4: EI CVAP – Illustrative HD 74

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	81 (72, 89)	41 (18, 67)
Lt. Governor (LD-AR)	2014	80 (72, 87)	43 (20, 68)
Sup Ct 7 (LD-AR)	2014	81 (74, 87)	45 (21, 70)
Sup Ct 5 (LD-AR)	2016	83 (79, 89)	38 (14, 74)
Sup Ct 9 (AD-LR)	2016	77 (72, 83)	42 (14, 79)
Governor (LD-AR)	2018	79 (74, 84)	40 (16, 69)
Land Comm (LD-LR)	2018	80 (75, 85)	45 (20, 74)
U.S. Sen (AD-LR)	2018	86 (81, 91)	41 (19, 67)
RR Comm 1 (LD-AR)	2020	72 (67, 77)	41 (16, 76)
Sup Ct 8 (LD-AR)	2020	75 (70, 80)	39 (15, 67)
Avg.		79	41

Table G5: EI CVAP – Illustrative HD 75

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	87 (82, 92)	39 (21, 56)
Lt. Governor (LD-AR)	2014	89 (83, 93)	40 (21, 59)
Sup Ct 7 (LD-AR)	2014	93 (89, 96)	34 (17, 52)
Sup Ct 5 (LD-AR)	2016	88 (85, 91)	34 (14, 53)
Sup Ct 9 (AD-LR)	2016	82 (79, 84)	38 (18, 58)
Governor (LD-AR)	2018	83 (79, 86)	47 (28, 70)
Land Comm (LD-LR)	2018	85 (82, 88)	41 (22, 62)
U.S. Sen (AD-LR)	2018	89 (85, 92)	55 (32, 77)
RR Comm 1 (LD-AR)	2020	79 (76, 82)	51 (28, 72)
Sup Ct 8 (LD-AR)	2020	82 (79, 84)	50 (29, 71)
Avg.		86	43

Table G6: EI CVAP – Illustrative HD 77

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	70 (49, 86)	38 (25, 48)
Lt. Governor (LD-AR)	2014	71 (52, 87)	39 (23, 48)
Sup Ct 7 (LD-AR)	2014	68 (44, 85)	40 (26, 49)
Sup Ct 5 (LD-AR)	2016	86 (71, 93)	24 (8, 48)
Sup Ct 9 (AD-LR)	2016	86 (75, 94)	20 (8, 34)
Governor (LD-AR)	2018	89 (76, 95)	22 (9, 39)
Land Comm (LD-LR)	2018	86 (73, 95)	27 (13, 48)
U.S. Sen (AD-LR)	2018	90 (81, 95)	37 (20, 50)
RR Comm 1 (LD-AR)	2020	82 (74, 89)	26 (12, 41)
Sup Ct 8 (LD-AR)	2020	84 (74, 91)	27 (12, 43)
Avg.		81	30

Table G7: EI CVAP – Illustrative HD 78

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	67 (56, 78)	41 (20, 65)
Lt. Governor (LD-AR)	2014	70 (57, 82)	38 (18, 67)
Sup Ct 7 (LD-AR)	2014	70 (59, 85)	40 (20, 65)
Sup Ct 5 (LD-AR)	2016	86 (76, 94)	20 (7, 38)
Sup Ct 9 (AD-LR)	2016	72 (65, 81)	31 (12, 65)
Governor (LD-AR)	2018	76 (70, 85)	26 (11, 47)
Land Comm (LD-LR)	2018	78 (67, 88)	31 (13, 67)
U.S. Sen (AD-LR)	2018	92 (87, 96)	17 (8, 28)
RR Comm 1 (LD-AR)	2020	73 (65, 80)	32 (12, 67)
Sup Ct 8 (LD-AR)	2020	76 (69, 83)	31 (12, 60)
Avg.		76	31

Table G8: EI CVAP – Illustrative HD 79

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	80 (71, 87)	8 (4, 13)
Lt. Governor (LD-AR)	2014	81 (73, 87)	8 (5, 13)
Sup Ct 7 (LD-AR)	2014	84 (77, 90)	9 (5, 14)
Sup Ct 5 (LD-AR)	2016	84 (80, 88)	7 (4, 11)
Sup Ct 9 (AD-LR)	2016	76 (71, 80)	6 (3, 10)
Governor (LD-AR)	2018	79 (74, 84)	7 (3, 11)
Land Comm (LD-LR)	2018	81 (76, 85)	8 (4, 13)
U.S. Sen (AD-LR)	2018	86 (82, 90)	7 (4, 11)
RR Comm 1 (LD-AR)	2020	74 (70, 77)	6 (3, 10)
Sup Ct 8 (LD-AR)	2020	76 (72, 79)	6 (3, 10)
Avg.		80	7

Table G9: EI CVAP – Illustrative HD 81

State House District 118 (Bexar County)

Office	Year	Latinos	Anglos
Land Comm (AD-LR)	2014	84 (76, 91)	13 (6, 21)
Lt. Governor (LD-AR)	2014	87 (81, 92)	18 (9, 27)
Sup Ct 7 (LD-AR)	2014	89 (83, 94)	16 (8, 24)
Sup Ct 5 (LD-AR)	2016	90 (84, 94)	14 (7, 21)
Sup Ct 9 (AD-LR)	2016	82 (76, 87)	14 (7, 21)
Governor (LD-AR)	2018	77 (71, 83)	16 (9, 25)
Land Comm (LD-LR)	2018	81 (75, 87)	18 (10, 27)
U.S. Sen (AD-LR)	2018	85 (79, 90)	23 (14, 33)
RR Comm 1 (LD-AR)	2020	79 (73, 83)	21 (13, 32)
Sup Ct 8 (LD-AR)	2020	80 (74, 84)	20 (12, 28)
Avg.		83	17

Table G10: EI CVAP – Illustrative HD 118

H Appendix: Additional Figures for Opportunity Analysis for Illustrative Districts

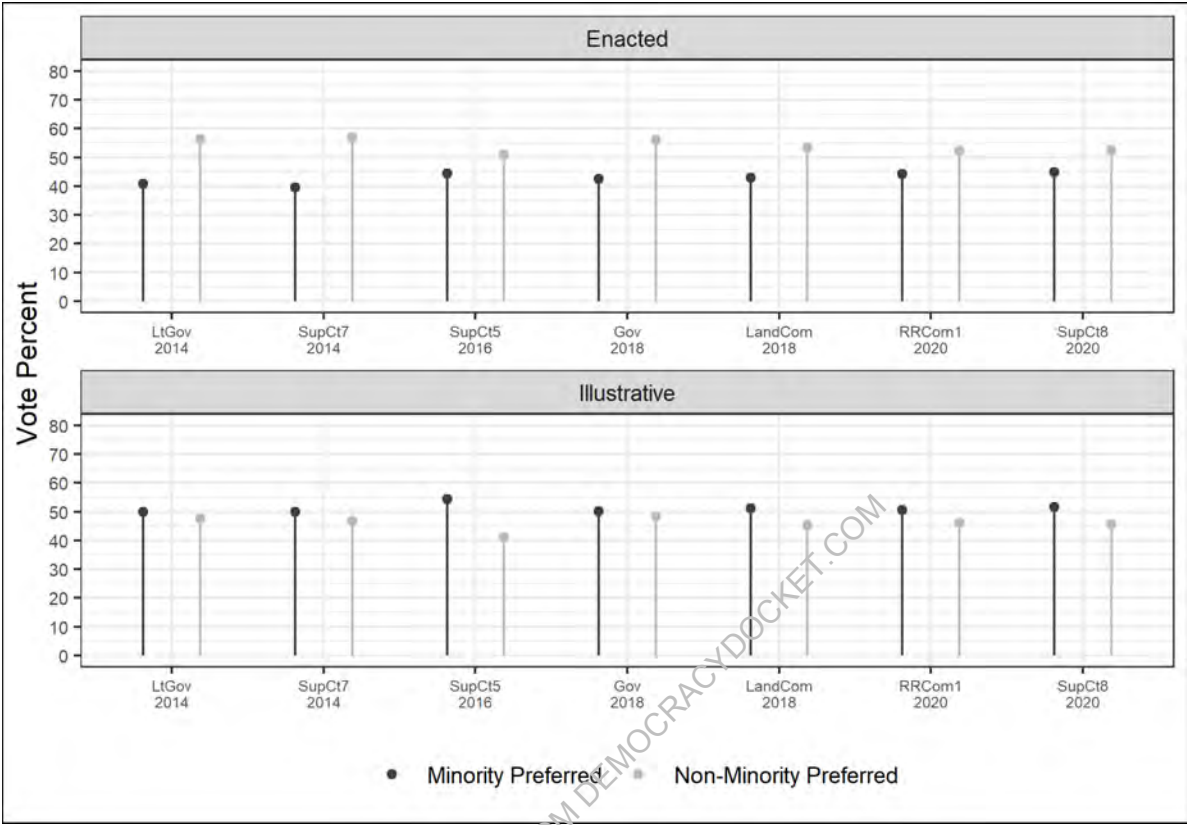


Figure H1: Illustrative CD 23

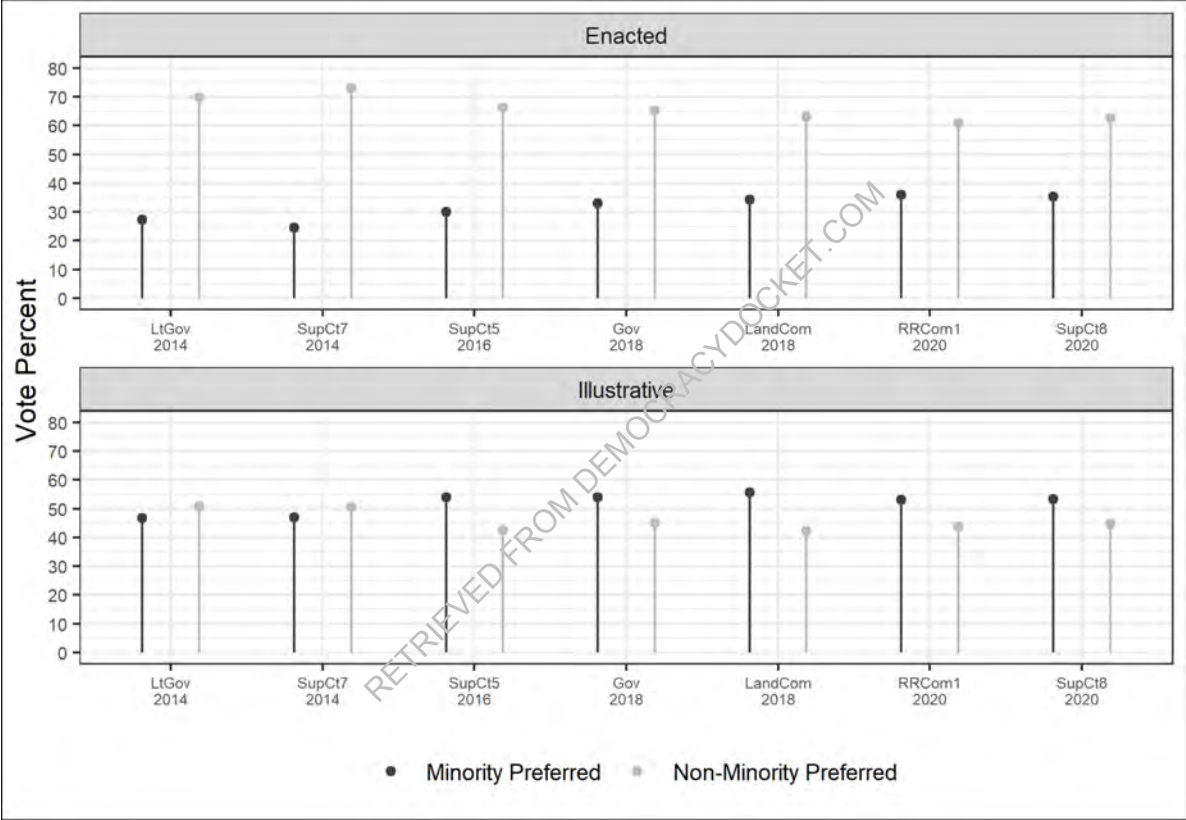


Figure H2: Illustrative CD 38

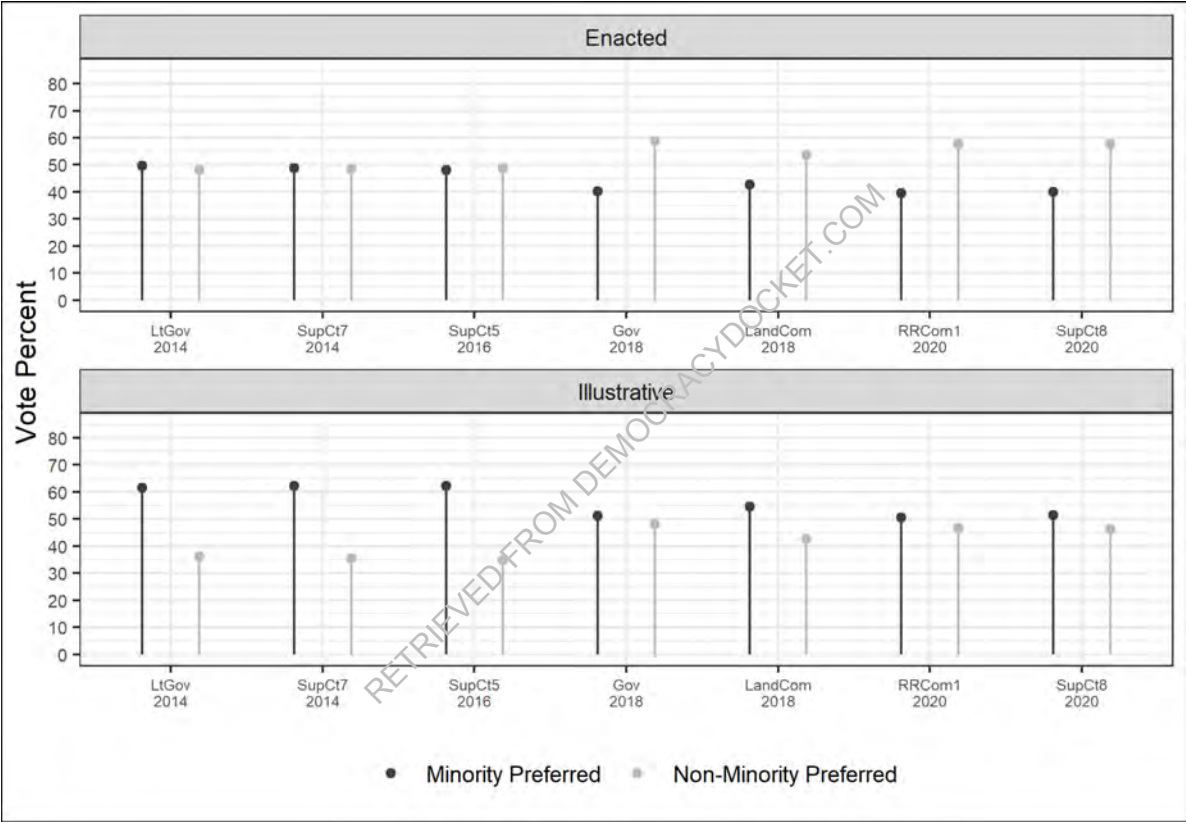


Figure H3: Illustrative HD 31

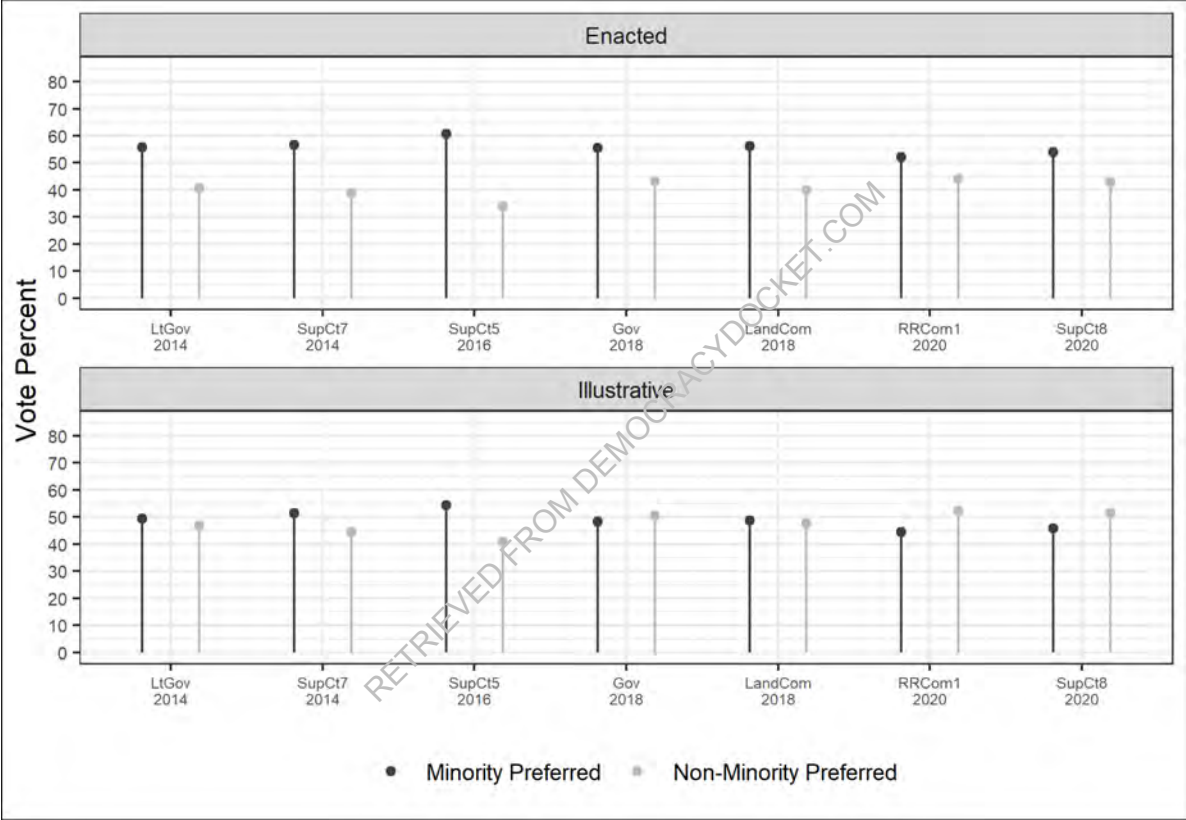


Figure H4: Illustrative State House District 74



Figure H5: Illustrative State House District 75

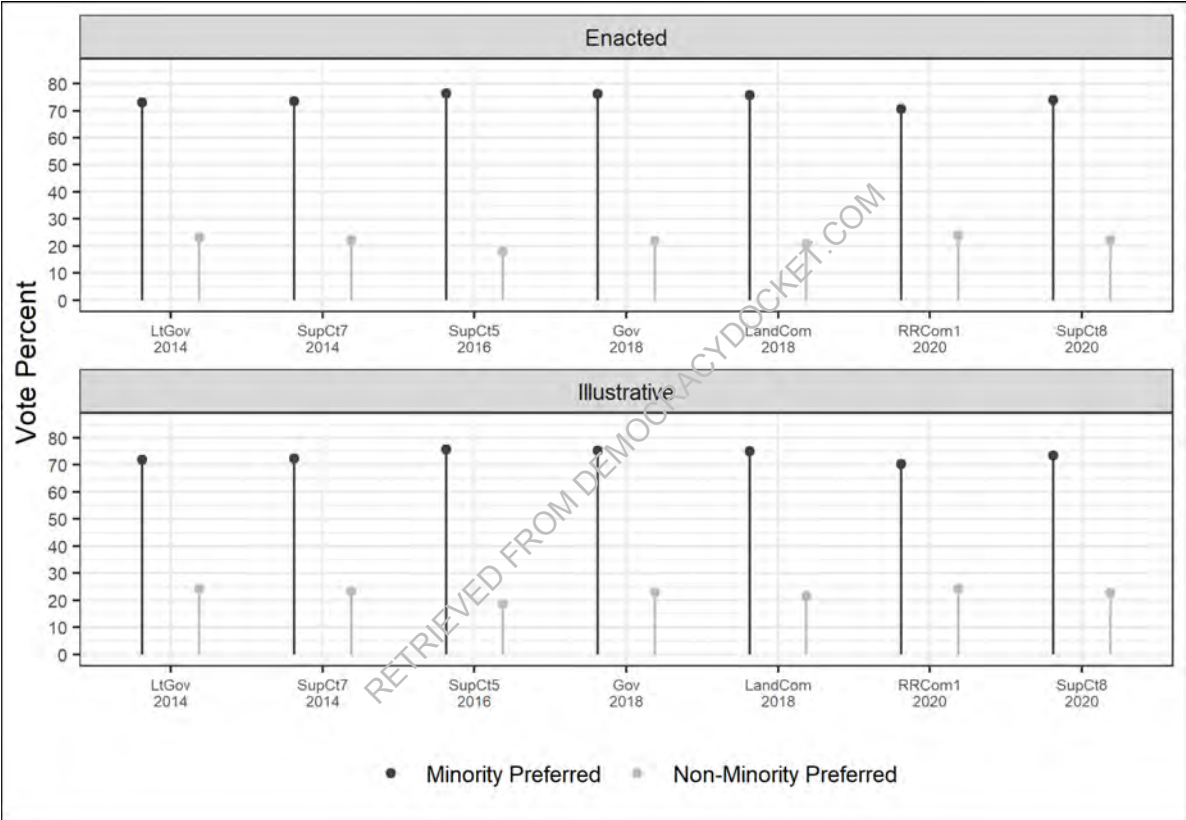


Figure H6: Illustrative HD 77

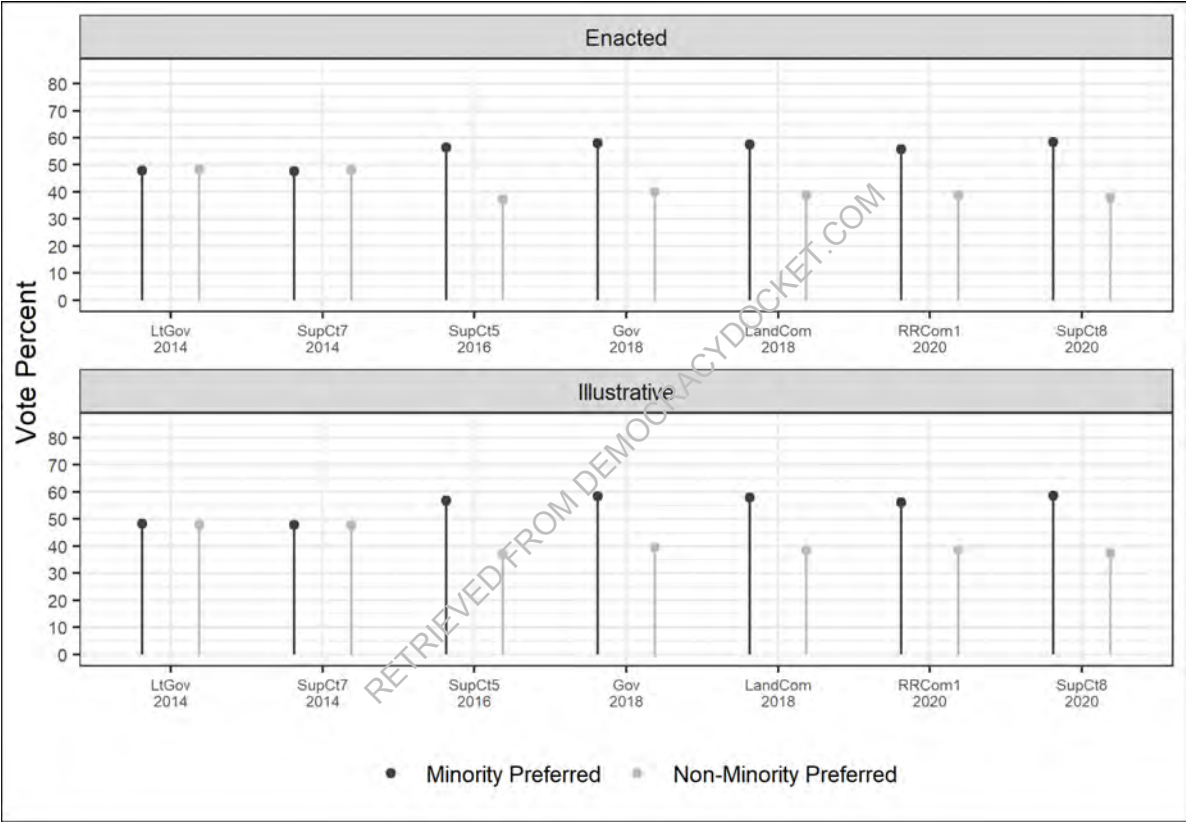


Figure H7: Illustrative HD 78

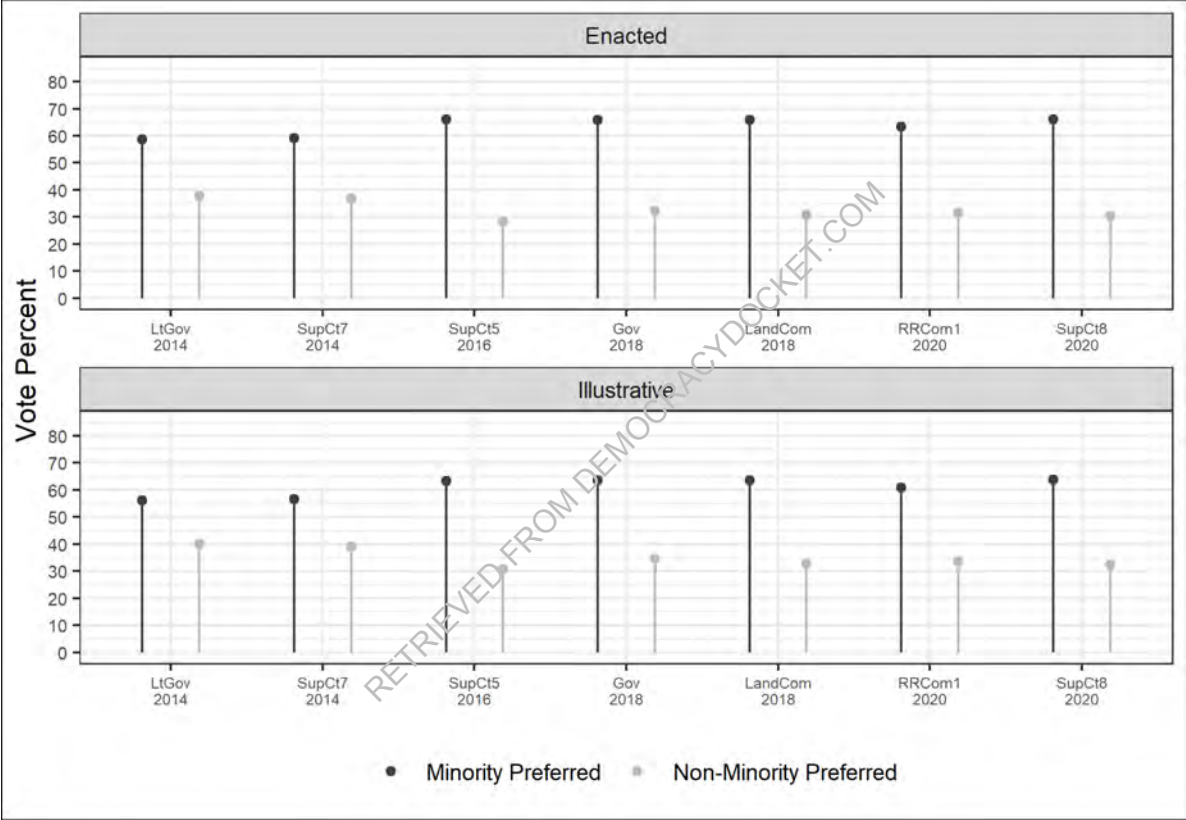


Figure H8: Illustrative in HD 79

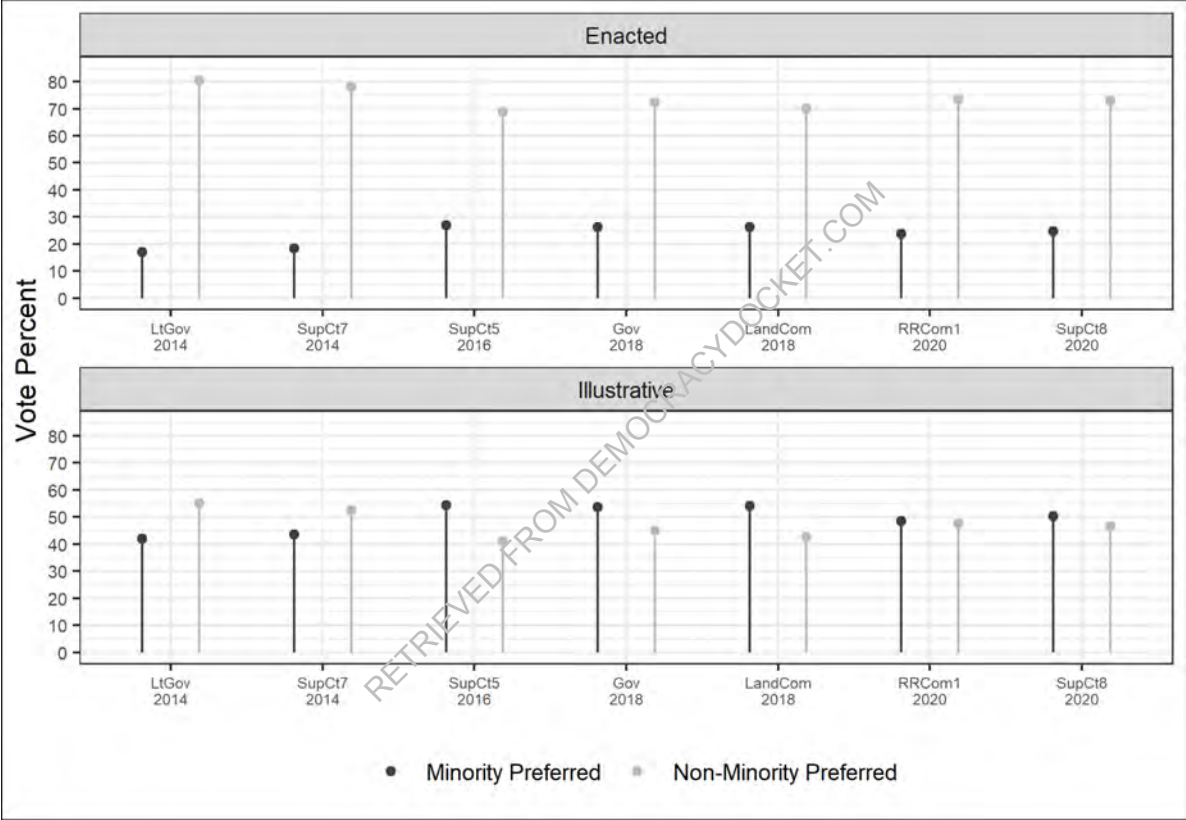


Figure H9: Illustrative HD 81

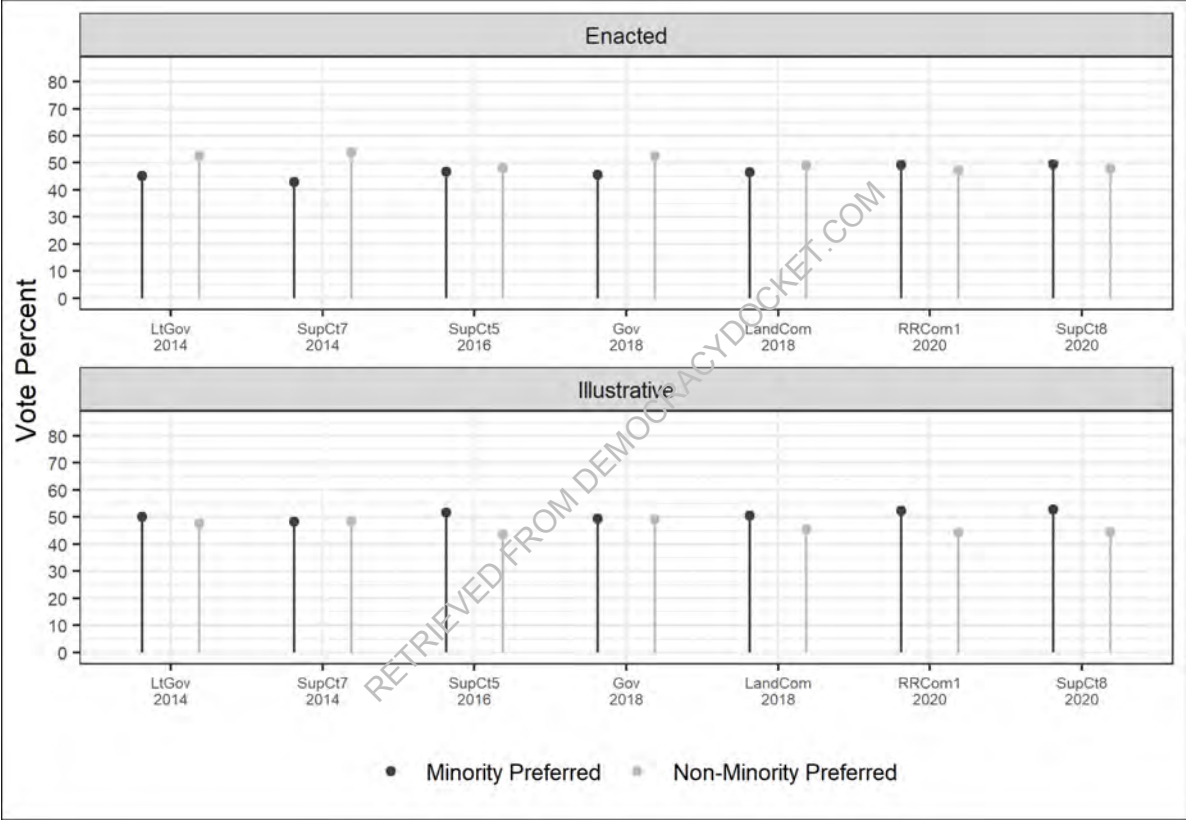


Figure H10: Illustrative HD 118

A handwritten signature in black ink, consisting of a horizontal line followed by a loop and a long, sweeping horizontal stroke.

Ryan D. Enos 20 May 2022

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