

STATE OF NORTH CAROLINA
COUNTY OF WAKE

IN THE GENERAL COURT OF JUSTICE
SUPERIOR COURT DIVISION
21 CVS 015426
21 CVS 500085

NORTH CAROLINA LEAGUE OF
CONSERVATION VOTERS, et al.,

Plaintiffs,

vs.

REPRESENTATIVE DESTIN HALL, in his
official capacity as Chair of the House
Standing Committee on Redistricting, et al.,

Defendants.

REBECCA HARPER, et al.,

Plaintiffs,

vs.

REPRESENTATIVE DESTIN HALL, in his
official capacity as Chair of the House
Standing Committee on Redistricting, et al.,

Defendants.

**EXPERT REPORT OF
DR. JEFFREY B. LEWIS**

Pursuant to the North Carolina Rules of Civil Procedure and the Case Management Orders of the Court in the above-captioned matter, I, Jeffrey B. Lewis, provide the following written report:

1. I am a Professor of Political Science at the University of California, Los Angeles (UCLA). I am also the past department chair of UCLA's political science department and past president of the Society for Political Methodology. I have been a member of the UCLA faculty since 2001. Prior to that, I was an Assistant Professor of Politics and Public Affairs at Princeton University from 1998 to 2001. I earned my B.A. in Political

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Science and Economics from Wesleyan University in 1990 and my Ph.D. in Political Science from the Massachusetts Institute of Technology (MIT) in 1998. My main area of specialization is quantitative political methodology with a focus on making inferences about preferences and behavior from the analysis of voting patterns in the mass public and in legislatures. I have published on the topic of ecological inference – the challenge that arises when one wants to know how individuals of different types voted in an election, but one can only observe electoral data aggregated to the precinct, county or other summary level. A true, accurate, and complete copy of my curriculum vitae is attached as Exhibit A.

2. I have previously been retained as an expert in relation to nine court cases: one involving allegations of voting machine failure in Florida (*Jennings v. Elections Can-vassing Commission of State of Florida*), four involving claims of minority vote dilution in California (*Avitia v. Tulare Local Healthcare District*; *Satorre et al. v. San Mateo County Board of Supervisors et al.*; *Ladonna Yumori-Kaku v. City of Santa Clara*); and *Pico Neighborhood Association and Maria Loya v. City of Santa Monica*), one involving claims of minority vote dilution in Texas (*Perez, et al. v. Abbott, et al.*), one involving claims of minority vote dilution in North Carolina (*Common Cause, et al. v. Lewis*), one involving claims of minority vote dilution in Washington (*Aguilar v. Yakima County*), and one involving the compactness of legislative districts in Illinois (*Radogno et al v. Illinois State Board of Elections, et al.*). I testified as an expert in the cases of *Ladonna Yumori-Kaku v. City of Santa Clara* and *Pico Neighborhood Association and Maria Loya v. City of Santa Monica*.
3. I am being compensated at a rate of \$550/hour.
4. In the attached tables and spreadsheet, at Exhibit B, I present summaries of the results of North Carolina general and Democratic primary election contests held in 2014, 2016, 2018, and 2020. In particular, I consider how each contest would have turned out if only the votes of those residing in each current and in each enacted State House, State Senate, and Congressional district had been counted.
5. This exercise allows us to consider the voting strength of the Black voters in each existing and proposed legislative district.

6. For each of these “reconstituted” election contest in each district, I used weighted ecological regression (ER) to estimate the degree of Black voter cohesion and non-Black voter crossover (hereafter “white crossover”). In some cases, the number of voting precincts available for the analysis was too small or Black share of voters was too small to meaningfully apply ER. I omit such contest-district combinations.
7. I further narrow the set of contests to partisan races for executive and legislative offices. And, I only “reconstitute” a given contest within a given district if the data indicate that at least 80 percent of the voters in the given election who resided the district, voted in the given contest.
8. I identify the “Black-preferred” candidate in each contest as the candidate estimated by ER to have received the largest share of Black votes in the given contest or, in the case of single-candidate elections, that candidate if they are a Democrat (single-candidate elections without a Democrat are considered not to have a Black-preferred candidate).
9. I also note whether each candidate is Black and whether each contest includes at least one Black candidate.
10. The tabulations and estimates are based on datasets that I downloaded from the North Carolina Board of Elections (SBOE) website with the exception of a crosswalk between the current and enacted legislative districts and voting precincts used in the 2014, 2016, 2018, and 2020 elections and estimates of Black Voting-Age population (VAP) by district that were provided by Clark Bensen of POLIDATA.
11. The race of each candidate was determined by looking up each candidate listed in the SBOE’s candidate list datasets on the North Carolina voter list (also from the SBOE). In some cases, a candidate’s race could not be determined because: their legal name matched no voter on the voter list, no race was indicated on the voter list, or they were matched to several voters of different races on the voter list. In total, over 1,800 Black candidates were identified (including many competing in contests not subsequently analyzed for the reasons described above).
12. The demographic composition of voters from each precinct needed to perform ER was derived by merging vote history records from the SBOE to the precinct election returns. Because some counties do not allocate “One Stop” and absentee votes back to precincts (and for other reasons), not all voters can be matched to a voting precinct and not all

precincts can be placed in legislative districts. Where One Stop and absentee ballots were allocated to regular voting precincts, the voting and demography within each precinct was broken down by voting method when performing ER. This is possible because the vote history records (which are used to estimate the fraction of voters in each precinct who were Black) are broken down by voting method (as sometimes are the election returns within each precinct). When a county reported One Stop or absentee votes without allocating them to precincts and where feasible, I aggregated the One Stop and absentee votes in the election returns and the One Stop and absentee voters into a single One Stop and a single absentee precinct. Given the need to break down the votes by legislative district, this was only feasible in counties that fall entirely within a single State House, State Senate, or Congressional district.

13. The attached tables summarize the reconstituted elections analysis. For each district, the tables show averages of many of the quantities described above as well as: the Black-preferred candidate “win rate” (the fraction of Black-preferred candidates who would have won if the contest had only been held in the given district); the percent of Black-preferred candidates who were Democrats; the average number of major-party candidates in the reconstituted contests; the average fraction of voters who were Black; and, an estimate of the average minimum fraction of those voting in the district that would have had to be Black in order for the Black-preferred candidate to expect to get at least 50 percent of the vote (based on the ER estimates and only applied in contests involving two major-party candidates).
14. The tables present separate results for primary and general elections. Separate tallies are also presented that include only those contests that included at least one Black candidate.
15. The attached spreadsheet *minority_preferred_candidates.csv* identifies the minority-preferred candidate in each of the reconstituted contests considered. It includes the following fields:
 - a. *district*, an identifier of the district including its chamber, plan, and number in which the contest is reconstituted.
 - b. *election_date*, the date of the election
 - c. *election_type*, primary or general
 - d. *contest*, the electoral contest being reconstituted.

- e. *minority_preferred_candidate*, the name of the minority preferred candidate (as identified by ER).
 - f. *minority_preferred_party*, the party of the minority-preferred candidate.
 - g. *cand_is_black*, whether the Black-preferred candidate is Black.
 - h. *has_minority_candidate*, whether the contest included a Black candidate.
 - i. *wonlost*, identifies the Black-preferred candidate as a “winner” or “loser” of the reconstituted election (highest-vote getter).
 - j. *pct_vote*, percent of vote won by the Black-preferred candidate in the reconstituted contest.
 - k. *ER.pct_black*, average share of voters in the ER analyses who were Black.
 - l. *ER.black_cohesion*, weighted Ecological Regression (ER) estimates of support for Black-preferred candidate among Black voters in the reconstituted election.
 - m. *ER.white_crossover*, weighted Ecological Regression (ER) estimates of support for the Black-preferred candidate among white (non-Black) voters in the reconstituted election.
 - n. *ER.black_pct_needed_for_majority*, Uses the ER estimates to infer the minimum share of the voters in the reconstituted election that would generate majority support for the minority-preferred candidate in the reconstituted election. Note that this is the estimated average percentage of Black voters in the contest needed for a majority, not the percentage of Black VAP existing in the district.
 - o. *Coverage*, the ratio of the total votes cast in the reconstituted election to the most votes cast in any reconstituted contest in the same district and election expressed as a percentage. In many cases, eligibility to participate in a particular contest will only partially overlap with the district in which the reconstituted election is considered. Because the area of overlap may encompass a set of voters who are not representative of the voters a district as whole when the overlap is small, I consider only contests for which this overlap or “coverage” exceeds 80 percent (for example, this include contests for statewide offices).
 - p. *number_of_candidates*, The number of major-party candidates in the contest.
16. This analysis goes beyond Professor Dunchin’s analysis to consider not just 4 primary and 4 general election contests, but over 420 individual contests including over 190 that

include a Black candidate. These contests include both endogenous and exogenous contests for legislative and executive offices ranging from a Recorder of Deeds to the US President. The analysis also expands on Professor Duchin's analysis by estimating the rate of support of each candidate in each contest within each district to capture variation in Black voter cohesion and white cross-over voting across the districts (whereas Professor Duchin estimates a single rate of cohesion and of cross-over voting statewide for the 8 contests that she considers).

17. Using (without endorsing) Professor Duchin's definition of "effective" Black districts (greater than 75 percent Black preferred win rate in races with minority candidates combined with greater than 25 percent Black voting-age population), an analysis of this larger set of election contests identifies as "effective" the enacted districts that Professor Duchin enumerates (with the exceptions of State Senate District 12 and State House District Districts 066 which do not exhibit a 75 percent win rate in the larger dataset and House District 039 for which too few data precinct points were available to apply ER to identify the Black-preferred candidates). It also identifies as "effective" by Duchin's definition as many as seven additional State House districts and four additional State Senate districts. *See* Table 1.
18. Relaxing Professor Duchin's requirement that an "effective" district must have more than 25 percent Black voting-age population, my more expansive analysis suggests the existence of one additional "effective" Congressional district, four additional "effective" State House districts, and two additional "effective" State Senate districts.
19. Further relaxing the definition of "effective" to those districts in which the Black preferred win rate exceeds 66 percent suggests the existence of seven more "effective" State Senate districts and 16 additional "effective" State House districts. *See* Table 1.
20. Increasing the set of contests considered to include contests without Black candidates further lifts the number of apparently "effective" districts under Duchin's definition.
21. Only two of the "effective" districts (by any of the above definitions) are majority Black VAP. Districts with Black-preferred win rates of over 75 percent in the reconstituted elections include two districts with Black voting-age populations below 7 percent and five districts with Black voting-age populations below 20 percent.

Table 1 – Duchin “Effective” Black Districts in Enacted Plans

	House	Senate	Congress
Number of “Effective” Black Districts in enacted plans using Duchin definition	29	12	2
Number of “Effective” Black Districts in enacted plans using Duchin definition but relaxing 25% BVAP and applying win rate of 66%	49	21	5
Number of “Effective” Black Districts in enacted plans using Duchin definition but relaxing 25% BVAP and applying win rate of 50%	88	40	11

22. In no district, enacted or in 2020, does it appear that a majority Black VAP is needed for that district to regularly generate majority support for minority-preferred candidates in the reconstituted elections.

23. Black voters constitute a powerful political force in North Carolina electoral politics because of their numerical size and highly cohesive voting as well as the sizeable white (non-Black) cross-over vote for Black-preferred candidates that exists particularly in areas of the state in which Black voters are concentrated. As Professor Duchin documents, contemporary Black voting power in North Carolina is such that it is now even possible to draw a set of districts in which Black voters would have effective control (by her definition) of a share of the state’s legislative districts that meaningfully exceeds the size of the Black population.

24. I reviewed the “Addendum to Primary Expert Report of Jonathan C. Mattingly, Ph.D.” Dr. Mattingly appears to have reconstituted election results in different county cluster options and identified Black VAP in those same clusters. Dr. Mattingly’s Addendum is not a racially polarized voting analysis.

CERTIFICATION

I certify that the statements and opinions provided in this report are true and accurate to the best of my knowledge, information, and belief.

A handwritten signature in black ink, appearing to read "Jeffrey B. Lewis", with a long horizontal line extending to the right from the end of the signature.

Jeffrey B. Lewis, Ph.D.

December 28, 2021

Date

Exhibit A

JEFFREY B. LEWIS

Political Science Department
Bunche Hall, UCLA
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2330 Pelham Ave.
Los Angeles CA 90064
310.467.7685
email:jblewis@ucla.edu

Education Massachusetts Institute of Technology Cambridge, MA
Ph.D., Department of Political Science, February 1998.

Wesleyan University Middletown, CT
B.A., Political Science and Economics with Honors in General Scholarship.
June 1990.

Academic Experience

University of California Los Angeles Los Angeles, CA
Professor of Political Science. July 2012–present.

University of California Los Angeles Los Angeles, CA
Director, Center for American Politics and Public Policy. July 2017–July
2018.

University of California Los Angeles Los Angeles, CA
Chair, Department of Political Science. July 2011–June 2017.

University of California Los Angeles Los Angeles, CA
Associate Professor of Political Science. July 2007–June 2012.

University of California Los Angeles Los Angeles, CA
Assistant Professor of Political Science. July 2001–June 2007.

Dartmouth College,
Rockefeller Center for the Social Sciences Hanover, NH
Research Fellow. July 2000–June 2001.

Princeton University Princeton, NJ
Assistant Professor of Politics and Public Affairs. July 1997–July 2001.

Teaching Interests

Quantitative methods
Elections & Direct democracy
California politics

Grants & Awards

Fellow, Society for Political Methodology, Elected 2019.

Research grant, “For Modernizing the VoteView Website And Software.”
Madison Initiative. William and Flora Hewlett Foundation (Grant #2016-
3870). January 2016. \$200k.

Conference/training grant, “Support for Conferences and Mentoring of Women and Underrepresented Groups in Political Methodology,” National Science Foundation (NSF-SBE-1628102 with Kosuke Imai), \$308k.

Research grant. “Collaborative Research on Dynamic Models of Roll Call Voting.” National Science Foundation (NSF-SBS-0611974, with Keith Poole and Howard Rosenthal). July 2006. \$394k total (\$182k UCLA).

Brian P. Copenhaver Award for Innovation in Teaching with Technology, College of Letters and Sciences, University of California Los Angeles. 2007.

Warren Miller Prize for best article in volume 11 of *Political Analysis*. 2003 (article co-authored with Ken Schultz).

Research grant. “Empirical Testing of Crisis Bargaining Models.” National Science Foundation (NSF-SBS-0241647, with Ken Schultz). February 2003. \$200k.

Research grant, “Term limits in California.” John Randolf and Dora Haynes Foundation, May 2000. \$27k.

Research grant, Princeton University Committee on Research in the Humanities and Social Sciences, May 1998.

Harvard/MIT Research Training Group for Positive Political Economy Dissertation Fellowship, 1995-1996.

Sigma Xi Honorary Society, Wesleyan University, 1990.

White Prize for excellence in economics, Wesleyan University, 1990.

Ford Foundation Summer Research Fellowship, Wesleyan University, 1988.

Publications “The new Voteview.com: preserving and continuing Keith Poole’s infrastructure for scholars, students and observers of Congress,” *Public Choice*. 2018, 176:17–32 (with Adam Boche, Aaron Rudkin, and Luke Sonnet).

“Recovering a Basic Space from Issue Scales in R.” *Journal of Statistical Software*. 2016, 69(7) (Keith T. Poole, Howard Rosenthal, James Lo, Royce Carroll).

“The Structure of Utility in Spatial Models of Voting,” *American Journal of Political Science*. 2013, 56(4):1008–1028 (with Royce Carroll, James Lo, Keith T. Poole, and Howard Rosenthal).

“Economic Crisis, Iraq, and Race: A Study of the 2008 Presidential Election.” (*Election Law Journal*. 2010, 9(1): 41–62 (with Michael Herron and Seth Hill).

“Comparing NOMINATE and IDEAL: Points of difference and Monte Carlo tests.” *Legislative Studies Quarterly*. 2009, 34:555–592 (with Royce Carroll, James Lo, Keith T. Poole, and Howard Rosenthal).

“Measuring Bias and Uncertainty in DW-NOMINATE Ideal Point Estimates via the Parametric Bootstrap”, *Political Analysis*. 2009, 17(3):261–275 (with Royce Carrol, James Lo, Keith T. Poole, and Howard Rosenthal).

“poLCA: An R Package for Polytomous Variable Latent Class Analysis.” *Journal of Statistical Software*. 2011, 42(10) (with Drew A. Linzer).

“Scaling Roll Call Votes with Wnominat in R.” *Journal of Statistical Software*. 2011, 42(14) (with Keith Poole, James Lo, and Royce Carroll).

“Ballot Formats, Touchscreens, and Undervotes: A Study of the 2006 Midterm Elections in Florida.” *Election Law Journal*. 2008. 7(1):25–47 (with Laurin Frisana, Michael C. Herron, and James Honaker).

“An Estimate of Risk Aversion in the U.S. Electorate.” *Quarterly Journal of Political Science*. 2007, 2(2):139–154. (with Adam J. Berinsky).

“Ideological Adaptation? The Survival Instinct of Threatened Legislators.” *Journal of Politics*. 2007, 69(3):823–843 (with Thad Kousser and Seth Masket).

“Did Ralph Nader Spoil a Gore Presidency? A Ballot-Level Study of Green and Reform Party Voters in the 2000 Presidential Election.” *Quarterly Journal of Political Science*. 2007, 2(3):205–226 (with Michael Herron).

“A Return to Normalcy? Revisiting the Effects of Term Limits on Competitiveness and Spending in California Assembly Elections” *State Politics and Policy Quarterly*. 2007, 7(1):20–38 (with Seth Masket).

“Learning about Learning: A Response to Wand.” *Political Analysis*. 2006, 14: 121-129 (with Kenneth Schultz).

“Estimating Regression Models in Which the Dependent Variable Is Based on Estimates” *Political Analysis*. 2005, 13(4) (with Drew A. Linzer)

“Beyond the Median: Voter Preferences, District Heterogeneity, and Representation.” *Journal of Political Economy*. 2004, 106(6):1364–1383 (with Liz Gerber).

“Measuring Bias and Uncertainty in Ideal Point Estimates via the Parametric Bootstrap.” *Political Analysis*. Spring 2004. 12:105–127 (with Keith Poole)

“Extending King’s Ecological Inference Model to Multiple Elections using Markov Chain Monte Carlo,” Chapter in Gary King, Ori Rosen, and Martin Tanner, Eds. *Ecological Inference: New Methodological Strategies*. Cambridge: Cambridge University Press. 2004.

“Revealing Preferences: Empirical Estimation of a Crisis Bargaining Game with Incomplete Information.” *Political Analysis*. 2003, 11(4):345–365 (with Kenneth A. Schultz).

“Understanding King’s Ecological Inference Model: A Method-of-moments Approach,” *Historical Methods*. 2001, 34(4):170–188.

“Estimating Voter Preference Distributions from Individual-Level Voting Data,” *Political Analysis*. 2001, 9(3):275-297.

“No Evidence on Directional vs. Proximity Voting,” *Political Analysis*. 1999, 8(1):21-33 (with Gary King).

“Reevaluating the Effect of N-Ach (Need for Achievement) on Economic Growth,” *World Development*. 1991, 19(9):1269–1274.

Other Publications

Comment on “McCue, K. F. (2001), ‘The Statistical Foundations of the EI method,’ *The American Statistician*. 2002, 55(3):250.

“Veteran’s Adjustment.” Chapter in *After the Cold War: Living with Lower Defense Spending*, Congress of the United States, Office of Technology Assessment, OTA-ITE-524. 1992.

Working Papers

Has Joint Scaling Solved the Achen Objection to Miller and Stokes? (with Christopher Tausanovitch, under revision).

Residual Votes in the 2008 Minnesota Senate Race (with Jonathan W. Chipman and Michael C. Herron)

From Punchcards to Touchscreens: Some Evidence from Pasco County, Florida on the Effects of Changing Voting Technology (with Michael C. Herron)

Voting in Low Information Elections: Bundling and Non-Independence of Voter Choice (with Liz Gerber, April 2002)

Dangers of Measurement Error in Non-linear Models: The Case of Directional versus Proximity Voting (April 2002)

A Reply to McCue’s Reply to My Comment on “The Statistical Foundations of the EI method”

PhD Students

Committees Chaired or Co-chaired: Ryan Enos (Harvard), Seth Hill (UCSD), James Lo (USC), stonegarden grindlife.

Currently chairing or co-chairing five committees.

Committee member on over 35 PhD students (including as an outsider member in Economics and Statistics).

Conference Presentations

American Political Science Association, Philadelphia, September 2016.

Annual Meetings of the Midwest Political Science Association, Chicago, April 2014.

Annual Meetings of the Midwest Political Science Association, Chicago, April 2011.

Summer Meetings of the Political Methodology Society, New Haven, 2009

Annual Meetings of the Midwest Political Science Association, Chicago, April 2006.

American Political Science Association, Chicago, September 2004.

American Political Science Association, Philadelphia, September 2003.

Annual Meetings of the Midwest Political Science Association, Chicago, April 2003.

Summer Meeting of the Political Methodology Society, Seattle, 2002

Annual Meetings of the Public Choice Society, Houston, San Diego, 2002.

Annual Meetings of the Midwest Political Science Association, Chicago, April 2002.

Annual Meetings of the Midwest Political Science Association, Chicago, April 2001.

Annual Meetings of the Midwest Political Science Association, Chicago, April 2000.

Summer Meeting of the Political Methodology Society, College Station Texas, 1999.

Annual Meetings of the Social Science History Association, Chicago, November 1998.

American Political Science Association, Boston, September 1998.

Annual Meetings of the Midwest Political Science Association, Chicago, April 1997.

Annual Meetings of the American Political Science Association, San Francisco, August 1996.

Annual Meetings of the Public Choice Society, Houston, April 1996.

American Political Science Association, Atlanta, August 1989.

Software *Voteview: US Roll call votes and legislator ideologies, 1789–2021*: Provides interactive search and visualization of every roll call vote ever taken in the United States Congress. See <https://voteview.com>.

WNominate (v1.2): R package implementing Poole and Rosenthal's W-Nominate estimator co-authored with Keith Poole and James Lo. (<http://cran.r-project.org/web/packages/wnominate/index.html>)

PoLCA (v1.4.1): R package for Polytomous Variable Latent Class Analysis. Co-authored with Drew Linzer. (<http://dlinzer.github.io/poLCA/>)

Data collections

US Congressional roll call voting and related data, 1789–2021: Provides data on every roll call vote ever taken in the United States Congress. See <https://voteview.com>.

US Congressional District Boundaries, 1789–2017. Detailed GIS descriptions of every district in US history (with Brandon DeVine (UCLA), Lincoln Pritcher (UCLA), and Ken Martis (UWV)). See <http://cdmaps.polisci.ucla.edu/>.

109th – 114th Congress Data Project. UCLA. Webpage allows download of up to the hour roll call voting matrices for the current US Congress [Now included in the Voteview project].

California Roll Call Project. UCLA. Collection of roll call voting data from the California Assembly from 1850 to the present. Ongoing (with Seth Masket).

Crisis Bargaining Data Base. UCLA. Codings of post-World War I international crises outcomes in terms of a simple game theoretic model of coercive diplomacy (supported by NSF-SBS-0241647) (with Ken Schultz).

Record of American Democracy Project Harvard University. One of several project leaders. Summer 1995.

University Service

Chair: Executive Committee, Faculty of Letters and Science, UCLA (September 2019–Present)

Vice Chair: Executive Committee, Faculty of Letters and Science, UCLA (2018–2019)

Member: Executive Committee, Faculty of Letters and Science, UCLA (2017–2018); Council on Academic Planning and Budget, UCLA (2019–Present); Classroom Advisory Committee, UCLA (2018–2020); Pathways to Commencement Task Force, UCLA (2013–2014).

Professional Experience

President: Society for Political Methodology (2015–2017).

Vice President/President elect: Society for Political Methodology (2013–2015).

Co-editor: *The American Political Science Review* July 2008–July 2011; *The Political Methodologist*, the APSA Methodology section newsletter. 2004–2007 (with Adam Berinsky and Michael Herron).

Editorial Board Member: *Journal of Politics*, 2005–2008; *Political Analysis* 2005–present.

Panelist: National Science Foundation ad hoc peer review panels (June 2004, February 2008, October 2010); National Science Foundation Political Science Panel (2009–2010).

Departmental review visiting committee member: University of Colorado, 2013; London School of Economics, 2015; University of Michigan, 2015.

Nominations committee member: American Political Science Association, 2011–12, 2012–13.

Program committee member: American Political Science Association Annual Meetings 2003, Political Methodology division head.

Anonymous Referee: *American Political Science Review*, *American Journal of Political Science*, *Journal of Law and Economics*, *World Politics*, *Political Analysis*, *Legislative Studies Quarterly*, *Sociological Methods Review*,

Journal of Politics, Journal of Theoretical Politics, and Political Behavior, Perspectives on Politics, Public Opinion Quarterly, Journal of Political Economy.

Discussant/Panel Chair Political Methodology Conference (1997, 2004, 2005, 2015), Midwest Political Science Association meetings (1998, 2005, 2006). American Political Science Association meetings (1998, 2002, 2003, 2006, 2010, 2016). Public Choice Society (1996, 2002)

Work Experience

Polimetrix Palo Alto, CA
Director of Statistics, 2003–2007.

Office of Technology Assessment, U.S. Congress Washington, DC
Research Analyst, Industry Technology and Employment program. October 1990 – August 1992.

Selected Invited Lectures

American Politics Seminar, Political Science Department, Columbia University, 1998

Political Economy Seminar, Political Science Department, Michigan University, 1999

Political Economy Seminar, Graduate School of Business, Stanford University, 1999

Political Economy Seminar, Politics & Economics Departments, Princeton University, 1998

Southern California Methods Program, UC Riverside, November 2001.

Ideal-Point Estimation Conference, Washington University St. Louis, September 2002.

American Politics Seminar, Political Science Department, Yale University, 2003.

Political Economy Seminar, Politics & Economics Departments, Princeton University, Spring 2004.

Political Economy Seminar, Politics Department, Massachusetts Institute of Technology, Spring 2004.

Empirical Implications of Theoretical Models Program, Washington University, St. Louis, June 2004.

Multilevel Methods Conference, Center for the Study of Democratic Politics, Woodrow Wilson School of Public and International Affairs, Princeton University, October 2004.

Empirical Implications of Theoretical Models Program, University of California Berkeley (one week module co-taught with Kenneth A. Schultz). June 2005.

Roll Call Voting Conference, Department of Political Science, University of California, San Diego. May 2006.

Measures of Legislators' Policy Preferences and the Dimensionality of Policy Spaces Conference Department of Political Science, Washington University, St. Louis. November 2007.

Causal Inference. Business School. University of Southern California. June 2010.

How to Scrape Web Pages. Summer Methods Program. Department of Sociology. Stanford University, July 2010, 2011, 2012, 2013, 2014, 2015.

Lectures on Ecological Inference. Summer Methods Training Program, Academia Senica, Taipei, Taiwan. July 2010.

Applied Statistics Workshop. Department of Government. Harvard University, April 2011.

Methods Workshop. Department of Political Science, Stanford University. June 2011.

Conference on "Political Representation: Fifty Years After Miller & Stokes." Vanderbilt University, March 2013

Center for the Study of Democratic Politics (CSDP) Workshop, Princeton University, April 2015.

Ideal Point Models in Political Science Workshop, MIT, April 2015.

Interdisciplinary Seminar in Quantitative Methods (ISQM) Workshop, University of Michigan, September 2015.

Political Economy Seminar, Graduate School of Business, Stanford University, April 2019,

Exhibit B

Table 1: General Elections

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
CD20-001	41.9	17	100	2.0	100	56	39	100	24	35
CD20-002	18.2	35	100	2.0	43	49	14	100	41	15
CD20-003	18.7	18	100	2.0	0	38	18	99	24	35
CD20-004	24.4	17	100	2.0	100	68	22	94	40	19
CD20-005	10.7	16	100	2.0	0	34	10	100	25	33
CD20-006	32.0	17	100	2.0	100	60	30	100	42	14
CD20-007	15.4	17	100	2.0	0	42	13	93	33	29
CD20-008	25.9	19	100	2.0	11	48	29	100	27	32
CD20-009	17.4	18	100	2.0	0	44	15	100	32	27
CD20-010	10.1	17	100	2.0	0	32	11	100	26	33
CD20-012	34.1	22	100	1.9	100	72	39	100	54	6
CD20-013	13.9	17	100	2.0	0	33	12	100	23	35
CD21-001	22.4	19	100	2.0	0	39	19	97	25	35
CD21-002	39.1	16	100	2.0	94	55	35	100	25	33
CD21-003	15.7	17	100	2.0	0	43	14	95	33	27
CD21-004	27.5	16	100	2.0	38	49	34	100	27	31
CD21-005	23.2	35	100	2.0	46	50	18	100	39	17
CD21-006	20.4	17	100	2.0	100	66	17	100	42	13
CD21-007	15.3	17	100	2.0	0	39	13	100	27	31
CD21-008	16.5	17	100	2.0	0	40	14	100	29	30
CD21-009	36.3	22	100	1.9	100	75	42	100	58	2
CD21-010	16.2	16	100	2.0	0	35	12	100	24	34
CD21-011	19.2	16	100	2.0	0	37	16	100	27	31
CD21-012	17.1	16	100	2.0	0	43	18	100	33	25
CD21-013	14.8	16	100	2.0	0	38	14	100	29	30
LD20-001	36.6	19	100	2.0	21	48	28	100	20	37
LD20-002	25.7	20	100	2.0	5	43	25	100	25	33
LD20-003	19.2	24	100	2.0	4	41	19	98	28	31
LD20-004	20.6	20	100	2.0	0	38	17	100	17	39

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-005	41.0	20	100	2.0	100	56	34	100	20	37
LD20-006	7.1	21	100	2.0	0	36	7	84	28	43
LD20-007	22.4	27	100	2.0	15	46	24	100	29	29
LD20-008	42.5	23	100	2.0	65	54	35	100	30	31
LD20-009	27.9	23	100	2.0	9	45	21	100	31	31
LD20-010	22.0	20	100	2.0	0	37	21	100	17	40
LD20-011	15.4	37	100	2.0	89	57	13	100	50	5
LD20-012	36.9	23	100	2.0	39	49	38	100	18	39
LD20-013	7.9	11	100	2.0	0	30	9	95	22	39
LD20-014	17.8	14	100	2.0	0	40	19	100	26	33
LD20-015	10.7	14	100	2.0	0	32	12	100	22	36
LD20-016	18.3	22	100	2.0	0	37	17	95	25	36
LD20-017	10.1	33	100	2.0	0	37	10	88	31	33
LD20-018	21.1	24	100	1.9	100	66	21	100	56	5
LD20-019	6.3	8	100	2.0	0	39	6	100	35	22
LD20-020	5.5	1	100	1.0	100	100	3	.	.	.
LD20-021	37.4	22	100	2.0	36	47	32	99	23	36
LD20-022	29.3	19	100	2.0	11	45	29	100	19	38
LD20-023	50.6	19	100	2.0	100	62	37	100	18	39
LD20-024	38.2	21	100	2.0	95	55	36	100	26	32
LD20-025	42.6	13	100	2.0	15	43	34	100	18	39
LD20-026	16.5	25	100	2.0	0	32	11	100	24	34
LD20-027	51.6	23	100	1.9	100	67	45	100	29	35
LD20-028	15.8	23	100	2.0	0	29	10	100	21	37
LD20-029	37.2	26	100	1.8	100	82	40	100	70	0
LD20-030	28.2	19	100	1.9	100	60	25	100	47	12
LD20-031	39.8	24	100	1.8	100	80	48	100	62	1
LD20-032	48.1	25	100	1.9	100	67	50	100	35	29
LD20-033	39.9	36	100	2.0	100	64	37	100	43	12

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-034	11.5	36	100	2.0	19	43	6	100	39	16
LD20-035	18.0	37	57	2.0	43	45	11	66	43	31
LD20-036	7.5	14	50	2.0	50	52	6	65	52	16
LD20-037	11.3	36	100	2.0	0	36	9	100	30	28
LD20-038	39.4	43	100	1.9	100	77	42	98	62	2
LD20-040	11.3	38	100	2.0	8	40	7	100	35	22
LD20-041	7.1	13	92	2.0	46	50	6	88	47	8
LD20-042	38.1	25	100	1.9	100	71	49	100	40	24
LD20-043	33.9	23	100	2.0	30	50	29	100	30	32
LD20-044	48.1	26	100	1.9	100	75	54	100	45	19
LD20-045	31.4	26	100	2.0	65	52	32	99	30	32
LD20-046	25.0	21	100	2.0	29	45	27	98	25	33
LD20-047	23.8	30	100	1.9	47	55	24	98	42	25
LD20-048	35.5	19	100	2.0	100	56	40	100	28	30
LD20-049	12.3	36	100	2.0	61	52	7	100	49	7
LD20-050	17.5	17	100	2.0	12	43	23	89	28	34
LD20-052	11.0	26	100	2.0	0	29	10	99	22	36
LD20-054	12.9	30	53	2.0	3	44	9	91	39	21
LD20-055	26.2	20	100	2.0	0	43	23	100	23	35
LD20-056	10.2	36	100	1.7	100	79	10	100	76	0
LD20-057	39.7	30	100	1.9	100	66	39	99	45	17
LD20-058	43.1	29	100	1.9	100	73	44	98	54	6
LD20-059	28.6	26	100	2.0	0	39	23	100	21	36
LD20-060	34.6	26	100	2.0	96	60	36	100	36	21
LD20-061	40.0	30	100	1.9	100	70	32	100	55	6
LD20-062	13.7	28	100	2.0	0	36	11	100	28	30
LD20-063	24.8	28	100	2.0	39	49	24	100	33	25
LD20-064	15.1	27	100	2.0	0	40	14	100	30	29
LD20-065	19.6	26	100	2.0	0	36	19	99	22	37

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-066	24.0	18	100	2.0	11	44	20	100	25	33
LD20-067	7.9	23	100	2.0	0	23	6	100	17	39
LD20-068	8.4	24	100	2.0	0	35	8	100	30	28
LD20-069	11.6	25	100	2.0	0	35	11	100	27	32
LD20-070	7.2	30	100	2.0	0	24	6	100	19	38
LD20-071	40.3	25	100	2.0	100	73	46	99	50	4
LD20-072	34.4	25	100	2.0	100	71	34	100	56	1
LD20-073	14.6	21	100	2.0	0	36	19	100	28	31
LD20-074	11.4	26	100	2.0	0	45	11	100	38	19
LD20-075	15.3	26	100	2.0	0	38	15	100	27	31
LD20-076	21.6	23	100	2.0	0	41	20	100	26	32
LD20-077	7.3	20	100	2.0	0	26	6	100	19	38
LD20-078	6.1	1	100	2.0	0	24	7	100	19	38
LD20-079	22.3	23	100	2.2	4	37	16	98	19	39
LD20-080	9.5	24	100	2.0	0	23	8	100	16	40
LD20-081	9.6	25	100	2.0	0	26	8	100	20	38
LD20-082	20.2	13	100	1.9	8	45	18	100	34	30
LD20-083	19.5	24	100	2.0	46	48	12	100	26	32
LD20-084	14.1	26	100	2.0	0	32	13	100	22	36
LD20-086	6.0	28	100	2.0	4	36	6	100	31	27
LD20-088	16.0	19	100	1.9	100	59	18	100	51	4
LD20-089	7.9	24	100	2.0	0	28	7	100	22	36
LD20-091	4.8	12	100	2.0	0	23	6	100	17	40
LD20-092	40.2	24	100	1.8	100	76	46	100	55	7
LD20-095	9.6	24	100	2.0	0	33	8	100	28	31
LD20-096	8.9	24	100	2.0	0	36	7	100	30	28
LD20-098	9.2	27	100	2.0	7	43	9	100	38	20
LD20-099	36.0	20	100	2.0	100	64	42	100	38	19
LD20-100	30.5	24	100	1.8	100	76	35	100	63	0

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-101	48.0	27	100	1.9	100	78	55	100	51	13
LD20-102	33.8	25	100	1.8	100	82	39	99	71	0
LD20-103	14.2	21	100	2.0	19	48	13	100	40	17
LD20-104	12.0	25	100	2.0	20	46	10	100	41	16
LD20-105	12.9	20	100	2.0	50	50	13	100	42	14
LD20-106	46.3	30	100	1.7	100	87	59	99	71	1
LD20-107	53.6	26	100	1.8	100	82	57	100	60	3
LD20-108	19.5	31	100	2.0	6	40	17	100	28	32
LD20-109	15.3	30	100	2.0	7	39	12	100	31	30
LD20-110	14.6	19	100	2.0	0	28	13	100	18	39
LD20-111	22.8	29	100	2.0	3	41	23	100	24	35
LD20-112	9.2	36	100	2.0	0	31	8	99	25	34
LD20-115	6.9	12	100	2.0	100	61	6	100	49	6
LD20-116	7.2	10	100	2.0	60	53	7	100	49	5
LD21-001	17.7	21	100	2.0	0	38	15	93	25	37
LD21-002	23.7	22	100	2.0	9	43	23	99	26	32
LD21-003	19.4	22	100	2.0	5	41	17	99	29	30
LD21-004	24.9	17	100	2.0	0	35	20	100	19	38
LD21-005	37.5	20	100	2.0	85	53	32	100	19	38
LD21-007	22.2	27	100	2.0	15	46	23	100	30	29
LD21-008	44.2	23	100	2.0	87	57	37	100	32	29
LD21-009	24.6	24	100	2.0	4	41	19	97	28	36
LD21-010	33.1	23	100	2.0	4	41	28	99	19	38
LD21-011	14.2	36	100	2.0	81	55	11	100	49	5
LD21-012	37.7	18	100	2.0	11	47	34	100	19	38
LD21-013	8.3	21	100	2.0	0	30	7	96	24	36
LD21-014	17.8	14	100	2.0	0	40	19	100	26	33
LD21-015	10.6	14	100	2.0	0	32	13	100	22	36
LD21-016	13.2	25	100	2.0	0	34	14	93	24	38

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-017	10.3	33	100	2.0	0	38	10	88	32	32
LD21-018	21.6	24	100	1.9	100	66	22	100	57	5
LD21-019	5.1	8	100	2.0	0	37	5	100	33	25
LD21-020	5.3	1	100	1.0	100	100	3	.	.	.
LD21-021	10.8	35	100	2.0	0	38	7	92	34	28
LD21-022	27.7	20	100	2.0	0	41	26	100	19	38
LD21-023	52.5	19	100	2.0	100	62	39	100	17	39
LD21-024	36.6	21	100	2.0	86	54	36	100	26	32
LD21-025	40.0	21	100	2.0	33	46	29	100	18	39
LD21-027	50.8	21	100	2.0	100	64	48	100	27	31
LD21-028	16.2	22	100	2.0	0	28	11	100	19	38
LD21-029	38.3	24	100	1.8	100	80	44	100	65	0
LD21-030	33.0	23	100	1.8	100	81	35	100	71	0
LD21-031	38.1	5	100	1.0	100	100	45	.	.	.
LD21-032	42.4	19	100	1.9	100	63	43	100	35	31
LD21-033	29.8	43	100	1.9	100	77	30	100	67	0
LD21-034	18.2	36	100	2.0	56	51	13	100	44	11
LD21-036	8.0	9	100	2.0	0	36	7	100	31	28
LD21-038	43.6	2	100	1.0	100	100	47	.	.	.
LD21-040	10.7	23	100	2.0	9	44	6	100	41	15
LD21-042	38.1	25	100	1.9	100	71	49	100	40	24
LD21-043	34.8	23	100	2.0	43	51	30	100	31	31
LD21-044	48.1	26	100	1.9	100	75	54	100	45	19
LD21-045	30.3	25	100	2.0	32	49	31	99	26	33
LD21-046	28.5	21	100	2.0	14	44	27	100	22	36
LD21-047	21.5	29	100	1.9	48	57	23	96	45	22
LD21-048	35.5	19	100	2.0	100	56	40	100	28	30
LD21-049	13.0	36	100	2.0	47	50	8	100	46	9
LD21-050	17.9	17	100	2.0	12	44	25	90	28	34

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-052	22.3	20	100	2.0	20	46	22	99	24	34
LD21-054	11.1	31	58	2.0	6	44	10	86	39	23
LD21-055	24.0	20	100	2.0	0	42	21	100	24	34
LD21-056	10.1	36	100	1.7	100	79	10	100	76	0
LD21-057	39.7	30	100	1.9	100	66	39	99	45	17
LD21-058	42.8	29	100	1.9	100	72	44	99	52	8
LD21-059	26.6	26	100	2.0	0	37	20	100	21	36
LD21-060	34.9	26	100	2.0	100	61	37	100	37	20
LD21-061	40.8	30	100	1.9	100	70	34	100	55	6
LD21-062	13.3	28	100	2.0	0	35	10	100	28	30
LD21-063	24.3	29	100	2.0	24	48	22	100	34	25
LD21-064	15.5	28	100	2.0	0	40	14	100	30	29
LD21-065	18.9	26	100	2.0	0	36	19	99	22	36
LD21-066	27.2	35	100	2.0	66	53	22	100	39	17
LD21-067	13.0	21	100	2.0	0	31	13	100	21	36
LD21-068	8.1	24	100	2.0	0	35	7	100	30	28
LD21-069	11.6	21	100	2.0	0	33	10	100	26	33
LD21-070	7.0	30	100	2.0	0	24	6	100	19	38
LD21-071	39.5	24	100	2.0	100	71	45	98	49	4
LD21-072	33.7	24	100	2.0	100	69	32	100	54	1
LD21-073	17.0	13	100	2.0	0	40	12	100	26	33
LD21-074	11.3	26	100	2.0	0	43	10	100	36	22
LD21-075	15.3	26	100	2.0	0	38	15	100	27	31
LD21-076	20.4	24	100	2.0	0	39	19	100	25	33
LD21-077	5.5	19	100	2.0	0	26	6	100	19	38
LD21-078	5.5	1	100	2.0	0	26	5	92	23	39
LD21-079	16.9	21	100	2.0	0	38	12	90	27	37
LD21-080	9.4	24	100	2.0	0	24	9	100	17	40
LD21-081	9.6	25	100	2.0	0	26	9	100	20	38

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-082	21.0	25	100	2.0	4	39	16	100	28	34
LD21-083	11.9	18	100	2.0	0	28	8	100	22	36
LD21-084	16.0	26	100	2.0	0	34	15	100	23	35
LD21-086	6.1	28	100	2.0	4	35	6	100	31	28
LD21-088	23.3	19	100	1.9	100	64	23	100	53	5
LD21-089	6.7	24	100	2.0	0	26	6	100	21	36
LD21-091	14.1	19	100	2.0	0	37	19	100	31	28
LD21-092	39.1	24	100	1.8	100	74	44	100	54	10
LD21-095	7.6	24	100	2.0	0	32	5	100	28	30
LD21-096	9.9	25	100	2.0	0	36	9	100	30	28
LD21-098	7.5	27	100	2.0	0	41	7	100	37	20
LD21-099	46.8	28	100	1.8	100	82	57	100	59	2
LD21-100	31.0	24	100	1.8	100	76	35	100	63	0
LD21-101	46.8	26	100	1.8	100	76	52	100	51	13
LD21-102	37.6	26	100	1.8	100	84	44	99	73	0
LD21-103	11.8	22	100	2.0	0	43	12	99	35	23
LD21-104	8.5	26	100	2.0	0	45	7	100	41	15
LD21-105	12.2	24	100	2.0	42	49	13	100	42	13
LD21-106	43.4	27	100	1.8	100	83	54	99	64	1
LD21-107	47.4	23	100	1.8	100	77	49	100	55	9
LD21-108	19.3	30	100	2.0	3	38	16	100	26	32
LD21-109	16.8	17	100	1.9	6	42	14	100	33	31
LD21-110	15.7	19	100	2.0	0	34	19	100	19	38
LD21-111	16.4	19	100	2.0	0	31	14	100	20	38
LD21-112	27.8	22	100	1.9	100	74	37	100	59	1
LD21-113	6.8	18	100	2.0	0	33	6	96	27	33
LD21-114	7.6	13	100	1.9	100	67	7	100	66	0
LD21-115	6.3	7	100	2.0	29	49	5	100	46	7
SD20-001	24.6	20	100	2.0	0	45	19	96	25	34

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD20-002	14.1	21	100	2.0	0	35	15	99	25	34
SD20-003	42.2	18	100	2.0	100	55	42	100	23	35
SD20-004	46.5	19	100	2.0	100	60	40	100	24	35
SD20-005	34.8	20	100	2.0	100	54	29	100	26	32
SD20-006	14.5	22	100	2.0	0	34	16	98	21	38
SD20-007	33.6	19	100	2.0	5	47	36	100	20	38
SD20-008	12.6	18	100	2.0	0	38	11	86	31	34
SD20-009	12.0	22	100	1.9	64	57	10	100	52	8
SD20-010	20.1	20	100	2.0	0	39	20	100	18	39
SD20-011	27.5	20	100	2.0	25	48	22	100	22	35
SD20-012	18.8	22	100	2.0	0	42	16	100	24	34
SD20-013	25.1	20	100	2.0	40	47	25	99	27	31
SD20-014	32.1	37	100	2.0	100	65	31	100	49	6
SD20-015	18.1	35	100	2.0	37	45	12	100	38	19
SD20-016	12.9	37	100	2.0	46	50	9	100	45	10
SD20-017	8.8	36	100	2.0	0	39	7	90	35	27
SD20-018	24.4	20	100	2.0	5	44	22	100	28	30
SD20-019	33.6	22	100	2.0	77	53	32	100	32	30
SD20-020	35.4	24	100	1.8	100	78	40	100	64	1
SD20-021	41.2	20	100	2.0	100	67	50	100	34	24
SD20-022	30.0	16	100	2.0	38	49	27	100	29	29
SD20-023	11.1	25	56	1.9	56	56	10	82	52	14
SD20-024	22.0	22	100	2.0	0	44	20	100	31	28
SD20-025	23.4	19	100	2.0	5	43	24	100	23	35
SD20-026	12.6	25	100	2.0	0	26	8	100	19	38
SD20-027	24.0	26	100	2.0	23	44	20	100	30	28
SD20-028	43.9	28	100	1.9	100	72	42	100	53	8
SD20-029	10.5	22	100	2.0	0	28	9	100	19	39
SD20-030	14.7	19	100	2.0	0	33	17	99	21	37

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD20-031	22.0	19	100	2.0	5	45	23	100	30	29
SD20-032	23.9	23	100	2.0	96	57	23	100	45	10
SD20-033	14.4	18	100	2.0	0	31	12	100	22	36
SD20-034	10.1	21	100	2.0	0	31	10	100	25	33
SD20-035	12.2	22	100	2.0	0	36	12	100	28	31
SD20-036	17.9	24	100	2.0	0	41	12	100	24	34
SD20-037	13.8	17	100	2.0	65	50	12	100	43	11
SD20-038	42.8	26	100	1.8	100	82	50	99	65	0
SD20-039	21.3	18	100	2.0	100	57	24	100	44	11
SD20-040	38.7	24	100	1.8	100	77	48	100	56	6
SD20-041	29.1	21	100	2.0	100	58	30	100	40	16
SD20-042	7.9	18	100	2.0	0	31	6	100	26	33
SD20-043	17.4	29	100	2.0	7	38	15	100	28	33
SD20-044	13.1	22	100	2.0	0	32	16	100	21	37
SD20-046	5.5	1	100	2.0	0	28	5	100	26	32
SD20-049	6.4	11	100	2.0	100	61	6	100	53	2
SD21-001	28.8	18	100	2.0	22	47	20	96	24	35
SD21-002	29.3	16	100	2.0	12	46	23	100	26	32
SD21-003	25.9	18	100	2.0	0	43	26	100	23	35
SD21-004	34.1	17	100	2.0	35	49	33	100	23	35
SD21-005	39.3	19	100	2.0	100	57	31	100	26	33
SD21-006	13.8	22	100	2.0	0	32	15	99	20	38
SD21-007	11.5	22	100	1.9	64	57	10	100	52	8
SD21-008	13.9	17	100	2.0	0	38	11	85	31	35
SD21-009	23.1	16	100	2.0	0	38	20	99	23	36
SD21-010	15.9	22	100	2.0	0	38	10	100	21	36
SD21-011	35.7	17	100	2.0	71	52	32	100	27	31
SD21-012	19.6	22	100	2.0	0	42	16	100	24	34
SD21-013	20.5	18	100	2.0	0	43	22	99	28	31

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD21-014	41.5	35	100	2.0	100	63	39	100	39	17
SD21-015	13.9	36	100	2.0	67	54	9	100	50	6
SD21-016	8.1	36	100	2.0	33	46	6	100	43	12
SD21-017	10.1	36	100	2.0	0	36	8	99	31	28
SD21-018	21.5	36	100	2.0	53	51	16	100	41	14
SD21-019	45.0	24	100	1.9	100	70	46	100	44	23
SD21-020	26.2	21	81	2.0	81	55	16	88	48	8
SD21-021	18.3	18	100	2.0	0	39	21	99	23	35
SD21-022	33.2	18	100	2.0	100	62	30	100	46	9
SD21-023	16.0	16	100	2.0	100	65	24	84	35	26
SD21-024	28.4	17	100	2.0	59	53	31	98	30	29
SD21-025	17.1	22	100	2.0	5	40	16	100	29	30
SD21-026	16.8	22	100	2.0	0	34	16	100	22	36
SD21-027	26.2	25	100	2.0	68	52	22	99	39	18
SD21-028	49.5	26	100	1.9	100	74	50	99	50	11
SD21-029	17.3	16	100	2.0	0	35	13	100	21	37
SD21-030	8.8	18	100	2.0	0	25	7	100	19	38
SD21-031	11.5	20	100	2.0	0	37	12	100	29	29
SD21-032	33.8	24	100	2.0	100	68	35	99	51	2
SD21-033	14.4	18	100	2.0	0	32	13	100	22	36
SD21-034	18.9	24	100	2.0	21	45	13	100	25	33
SD21-035	11.1	22	100	2.0	0	35	10	100	28	31
SD21-037	10.7	22	100	2.0	0	33	10	100	26	32
SD21-038	33.4	19	100	2.0	100	62	35	100	42	13
SD21-039	39.0	23	100	1.8	100	76	48	100	55	8
SD21-040	47.5	25	100	1.8	100	86	59	97	69	0
SD21-041	10.0	20	100	2.0	0	44	9	100	38	19
SD21-042	20.3	18	100	1.9	100	62	20	100	53	2
SD21-043	17.9	29	100	2.0	7	39	15	100	28	32

Table 1: General Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD21-044	12.7	22	100	2.0	0	33	15	100	20	37
SD21-045	7.1	21	100	2.0	0	31	7	100	26	32
SD21-049	6.9	12	100	1.9	100	65	6	100	54	1

Table 2: Primary Elections

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
CD20-001	41.9	17	100	4.0	100	61	62	69	47	10
CD20-002	18.2	22	100	3.6	68	56	25	69	52	16
CD20-003	18.7	18	100	3.9	78	55	40	66	48	19
CD20-004	24.4	20	100	3.8	80	61	33	67	57	9
CD20-005	10.7	19	100	3.8	58	52	22	64	48	14
CD20-006	32.0	18	100	4.1	72	53	47	60	46	19
CD20-007	15.4	20	100	3.8	80	53	29	63	50	4
CD20-008	25.9	17	100	4.0	76	54	52	60	48	17
CD20-009	17.4	20	100	4.3	60	50	32	64	45	10
CD20-010	10.1	18	100	3.9	72	52	25	62	49	24
CD20-011	3.7	2	100	3.5	50	50	5	82	46	26
CD20-012	34.1	23	100	3.6	87	61	54	69	51	17
CD20-013	13.9	18	100	3.9	78	56	33	61	53	11
CD21-001	22.4	18	100	3.9	78	55	42	66	48	16
CD21-002	39.1	17	100	4.0	100	61	60	70	47	11
CD21-003	15.7	22	100	3.7	68	53	27	66	46	11
CD21-004	27.5	17	100	4.0	71	54	55	61	47	17
CD21-005	23.2	21	100	3.6	71	58	32	69	54	16
CD21-006	20.4	18	100	4.3	61	50	24	74	45	19
CD21-007	15.3	18	100	3.9	67	52	31	62	48	22
CD21-008	16.5	18	100	3.9	72	52	35	63	46	22
CD21-009	36.3	23	100	3.6	83	61	55	69	51	17
CD21-010	16.2	18	100	3.9	78	53	35	62	48	22
CD21-011	19.2	17	100	4.0	71	53	35	64	47	20
CD21-012	17.1	19	100	3.8	74	53	36	63	48	18
CD21-013	14.8	20	100	3.9	80	54	31	65	49	10
CD21-014	3.6	2	100	3.5	50	50	5	82	46	26
LD20-001	36.6	18	100	3.9	89	57	57	73	38	17
LD20-002	25.7	18	100	3.9	89	58	46	71	47	10

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-003	19.2	22	100	3.6	64	54	41	66	44	22
LD20-004	20.6	18	100	3.9	89	58	52	70	45	10
LD20-005	41.0	20	100	3.7	95	61	61	69	47	15
LD20-006	7.1	16	100	4.1	75	52	15	64	51	6
LD20-007	22.4	23	100	3.5	96	66	49	81	52	2
LD20-008	42.5	19	100	3.8	95	60	59	67	49	12
LD20-009	27.9	19	100	3.8	79	58	38	67	52	8
LD20-010	22.0	17	100	4.0	76	54	44	72	36	15
LD20-011	15.4	22	100	3.6	50	47	15	70	42	25
LD20-012	36.9	18	100	3.9	89	60	61	67	48	5
LD20-013	7.9	17	100	4.0	65	52	22	66	47	9
LD20-014	17.8	16	100	4.1	94	56	47	62	51	11
LD20-015	10.7	16	100	4.1	75	52	38	62	46	8
LD20-016	18.3	19	100	3.8	79	52	39	61	46	4
LD20-017	10.1	22	100	3.6	73	55	25	64	51	12
LD20-018	21.1	19	100	3.8	79	56	35	62	53	11
LD20-019	6.3	20	100	3.8	55	51	10	64	49	10
LD20-020	5.5	15	100	4.1	60	54	8	77	52	5
LD20-021	37.4	23	100	3.6	87	56	63	62	45	15
LD20-022	29.3	23	100	3.7	91	58	56	70	43	7
LD20-023	50.6	21	100	3.8	86	61	66	67	46	11
LD20-024	38.2	19	100	3.8	95	63	63	68	52	10
LD20-025	42.6	12	100	4.2	92	57	69	63	46	10
LD20-026	16.5	19	100	3.8	63	53	35	66	46	24
LD20-027	51.6	23	100	3.6	78	57	59	71	37	30
LD20-028	15.8	19	100	3.8	95	56	35	65	51	7
LD20-029	37.2	24	100	3.6	67	61	37	78	50	12
LD20-030	28.2	23	100	3.6	70	59	32	73	52	13
LD20-031	39.8	24	100	3.6	92	63	57	73	49	14

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-032	48.1	20	100	3.7	100	68	65	78	51	8
LD20-033	39.9	23	100	3.6	83	62	58	74	48	16
LD20-034	11.5	22	100	3.6	32	42	12	73	38	39
LD20-035	18.0	24	100	3.5	71	58	31	67	55	18
LD20-036	7.5	24	100	3.5	58	52	13	62	50	13
LD20-037	11.3	23	100	3.6	57	52	23	63	49	13
LD20-038	39.4	22	100	3.5	77	60	52	68	53	22
LD20-040	11.3	21	100	3.6	43	47	17	70	42	25
LD20-041	7.1	22	100	3.6	41	46	11	73	43	23
LD20-042	38.1	10	100	3.0	90	61	76	67	42	12
LD20-043	33.9	19	100	3.9	79	52	51	59	46	26
LD20-044	48.1	19	100	3.9	84	56	76	60	44	32
LD20-045	31.4	20	100	3.9	75	54	60	62	43	25
LD20-046	25.0	18	100	4.0	89	52	41	61	46	11
LD20-047	23.8	24	100	3.7	75	51	23	68	46	8
LD20-048	35.5	22	100	3.7	91	58	63	67	44	16
LD20-049	12.3	22	100	3.6	32	42	10	68	39	37
LD20-050	17.5	20	100	3.8	60	51	28	61	48	13
LD20-052	11.0	18	100	3.9	72	56	26	62	54	9
LD20-054	12.9	18	100	3.9	67	55	18	63	54	0
LD20-055	26.2	20	100	4.1	75	52	51	74	35	21
LD20-056	10.2	22	100	3.8	36	42	8	77	40	29
LD20-057	39.7	20	100	3.9	80	56	56	63	46	18
LD20-058	43.1	21	100	3.8	76	55	60	62	46	25
LD20-059	28.6	21	100	3.9	76	55	60	64	41	19
LD20-060	34.6	20	100	3.9	85	58	60	64	48	12
LD20-061	40.0	20	100	3.9	70	54	35	63	49	17
LD20-062	13.7	21	100	3.8	67	51	27	64	46	9
LD20-063	24.8	20	100	3.8	80	55	43	62	49	13

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-064	15.1	20	100	3.9	65	52	30	60	48	24
LD20-065	19.6	18	100	3.9	89	56	44	66	49	16
LD20-066	24.0	18	100	4.1	78	52	42	63	43	10
LD20-067	7.9	18	100	3.9	61	50	22	70	44	13
LD20-068	8.4	19	100	4.1	84	57	25	65	54	4
LD20-069	11.6	19	100	3.9	79	54	31	64	49	5
LD20-070	7.2	18	100	3.9	83	56	19	67	53	16
LD20-071	40.3	23	100	3.7	87	58	62	63	50	14
LD20-072	34.4	23	100	3.7	70	54	40	65	46	20
LD20-073	14.6	18	100	4.0	72	51	36	64	44	21
LD20-074	11.4	19	100	3.9	63	50	23	64	46	8
LD20-075	15.3	20	100	3.8	75	52	37	65	44	24
LD20-076	21.6	19	100	3.8	95	56	42	61	53	19
LD20-077	7.3	19	100	3.9	79	54	23	62	51	8
LD20-078	6.1	18	100	3.9	67	53	19	62	51	12
LD20-079	22.3	19	100	4.1	84	55	41	68	46	13
LD20-080	9.5	18	100	3.9	83	56	26	63	53	16
LD20-081	9.6	18	100	3.9	78	56	24	62	54	9
LD20-082	20.2	10	100	2.8	100	61	42	70	55	7
LD20-083	19.5	18	100	3.9	78	53	37	64	46	25
LD20-084	14.1	18	100	3.9	89	52	31	64	47	9
LD20-086	6.0	20	100	3.7	65	54	14	66	52	16
LD20-087	5.1	19	100	3.8	74	52	13	66	49	11
LD20-088	16.0	14	100	4.3	64	55	24	67	51	13
LD20-089	7.9	17	100	4.0	88	55	23	61	54	1
LD20-090	3.3	17	100	3.9	53	47	8	70	45	19
LD20-091	4.8	19	100	3.8	63	53	13	65	50	29
LD20-092	40.2	21	100	3.6	81	60	64	67	48	12
LD20-094	5.7	23	100	3.8	52	46	12	58	44	14

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-095	9.6	18	100	3.9	67	51	22	61	48	11
LD20-096	8.9	17	100	4.0	71	50	17	59	48	16
LD20-097	5.5	18	100	3.9	61	55	15	67	52	8
LD20-098	9.2	18	100	3.9	56	54	18	63	52	21
LD20-099	36.0	23	100	3.6	87	62	65	70	47	15
LD20-100	30.5	20	100	3.7	80	57	41	66	51	19
LD20-101	48.0	21	100	3.6	90	62	72	69	44	19
LD20-102	33.8	19	100	4.2	84	59	46	68	52	15
LD20-103	14.2	18	100	3.9	67	53	24	64	49	21
LD20-104	12.0	17	100	3.9	53	46	15	66	43	33
LD20-105	12.9	18	100	4.1	78	55	24	65	52	9
LD20-106	46.3	26	100	3.7	100	64	72	72	44	12
LD20-107	53.6	24	100	3.6	96	64	72	72	44	12
LD20-108	19.5	19	100	3.8	74	53	41	69	43	14
LD20-109	15.3	20	100	3.7	75	53	30	62	49	8
LD20-110	14.6	19	100	3.8	84	53	37	64	47	12
LD20-111	22.8	21	100	3.8	90	57	46	71	45	9
LD20-112	9.2	20	100	3.8	70	51	19	66	47	11
LD20-115	6.9	17	100	4.2	59	54	7	66	54	13
LD20-116	7.2	20	100	4.0	65	56	8	63	55	18
LD20-117	3.6	22	100	3.7	59	51	5	67	50	4
LD21-001	17.7	17	100	4.0	100	56	35	70	49	9
LD21-002	23.7	18	100	3.9	72	56	37	63	52	22
LD21-003	19.4	21	100	3.7	62	52	35	68	43	22
LD21-004	24.9	18	100	4.0	83	56	53	66	45	7
LD21-005	37.5	19	100	3.8	95	59	60	68	45	20
LD21-007	22.2	23	100	3.5	96	66	48	81	52	3
LD21-008	44.2	19	100	3.8	95	60	59	67	48	10
LD21-009	24.6	17	100	4.0	71	56	39	61	52	16

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-010	33.1	18	100	3.9	94	57	58	65	47	16
LD21-011	14.2	22	100	3.6	45	46	14	71	42	31
LD21-012	37.7	17	100	4.0	94	59	60	68	46	6
LD21-013	8.3	18	100	3.9	72	54	19	66	50	14
LD21-014	17.8	16	100	4.1	94	56	47	62	51	11
LD21-015	10.6	17	100	4.1	71	51	39	60	45	6
LD21-016	13.2	17	100	4.0	71	52	38	61	47	6
LD21-017	10.3	23	100	3.6	70	53	25	62	49	12
LD21-018	21.6	20	100	3.9	70	54	35	60	50	11
LD21-019	5.1	20	100	3.8	70	53	10	64	51	11
LD21-020	5.3	14	100	4.1	64	56	8	77	54	5
LD21-021	10.8	22	100	3.6	59	51	16	63	49	15
LD21-022	27.7	21	100	3.8	90	56	55	69	45	10
LD21-023	52.5	19	100	3.8	89	63	67	70	46	11
LD21-024	36.6	18	100	3.9	94	61	61	66	51	11
LD21-025	40.0	19	100	3.8	100	62	63	74	45	13
LD21-026	16.8	10	100	2.8	80	60	37	75	52	30
LD21-027	50.8	22	100	3.7	86	60	62	73	49	14
LD21-028	16.2	20	100	3.8	90	55	36	64	50	7
LD21-029	38.3	24	100	3.6	79	62	43	77	51	12
LD21-030	33.0	23	100	3.6	74	60	30	74	54	13
LD21-032	42.4	18	100	3.9	94	62	60	80	34	15
LD21-033	29.8	22	100	3.6	73	61	34	74	55	8
LD21-034	18.2	22	100	3.6	50	50	18	67	46	28
LD21-036	8.0	8	100	5.2	50	42	13	53	40	0
LD21-040	10.7	22	100	3.6	41	45	14	76	41	28
LD21-042	38.1	10	100	3.0	90	61	76	67	42	12
LD21-043	34.8	19	100	3.9	79	52	52	59	46	26
LD21-044	48.1	19	100	3.9	84	56	76	60	44	32

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-045	30.3	18	100	4.0	78	54	60	63	41	22
LD21-046	28.5	20	100	3.9	80	51	42	64	42	8
LD21-047	21.5	25	100	3.7	80	51	26	66	47	5
LD21-048	35.5	22	100	3.7	91	58	63	67	44	16
LD21-049	13.0	22	100	3.6	27	40	14	77	34	28
LD21-050	17.9	19	100	3.8	63	52	30	61	48	13
LD21-052	22.3	18	100	4.0	78	56	38	62	51	12
LD21-053	18.8	10	100	2.9	90	64	40	68	60	12
LD21-054	11.1	26	100	3.4	38	45	17	58	42	25
LD21-055	24.0	20	100	4.1	75	51	49	74	36	21
LD21-056	10.1	22	100	3.8	36	42	8	77	40	29
LD21-057	39.7	20	100	3.9	80	56	56	63	46	18
LD21-058	42.8	21	100	3.8	76	55	60	63	45	25
LD21-059	26.6	20	100	3.9	75	55	58	65	41	18
LD21-060	34.9	20	100	3.9	85	58	60	64	48	12
LD21-061	40.8	20	100	3.9	70	54	37	63	49	17
LD21-062	13.3	21	100	3.8	67	51	26	64	46	9
LD21-063	24.3	18	100	3.9	78	53	40	63	46	19
LD21-064	15.5	19	100	3.8	68	53	30	61	50	24
LD21-065	18.9	18	100	3.9	89	56	42	66	49	16
LD21-066	27.2	21	100	3.6	76	58	40	66	54	12
LD21-067	13.0	17	100	4.0	76	51	35	68	41	21
LD21-068	8.1	17	100	4.9	82	59	24	66	56	4
LD21-069	11.6	18	100	4.0	78	52	30	63	47	6
LD21-070	7.0	19	100	3.9	79	53	18	67	50	17
LD21-071	39.5	23	100	3.7	87	58	60	63	50	15
LD21-072	33.7	22	100	3.7	68	55	39	65	47	16
LD21-073	17.0	10	100	2.8	90	57	35	72	49	20
LD21-074	11.3	19	100	3.9	68	52	23	64	48	8

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-075	15.3	20	100	3.8	75	52	37	65	44	24
LD21-076	20.4	20	100	3.7	95	57	41	61	54	7
LD21-077	5.5	20	100	3.9	75	52	20	60	50	8
LD21-078	5.5	18	100	3.9	72	53	17	59	51	8
LD21-079	16.9	18	100	3.9	83	57	30	66	53	3
LD21-080	9.4	19	100	3.9	84	54	27	62	51	16
LD21-081	9.6	19	100	3.8	79	55	24	61	54	10
LD21-082	21.0	18	100	3.9	89	56	37	63	52	12
LD21-083	11.9	17	100	4.0	82	53	31	69	45	20
LD21-084	16.0	18	100	3.9	83	52	35	63	46	10
LD21-086	6.1	20	100	3.7	65	54	13	67	51	18
LD21-087	4.9	19	100	3.8	58	51	11	63	49	31
LD21-088	23.3	14	100	4.3	71	55	28	64	52	13
LD21-089	6.7	17	100	4.0	76	52	19	64	49	2
LD21-090	3.5	19	100	3.8	58	49	8	69	47	13
LD21-091	14.1	18	100	3.9	72	51	33	65	46	20
LD21-092	39.1	20	100	3.7	80	59	62	66	48	10
LD21-094	5.3	20	100	3.8	65	51	11	62	50	12
LD21-095	7.6	16	100	4.2	69	50	14	62	48	17
LD21-096	9.9	17	100	4.0	76	53	21	59	51	16
LD21-097	5.5	18	100	3.9	61	54	15	67	52	8
LD21-098	7.5	18	100	3.9	50	50	14	66	48	28
LD21-099	46.8	27	100	3.7	96	62	74	69	44	15
LD21-100	31.0	20	100	3.7	80	57	41	65	51	19
LD21-101	46.8	21	100	3.8	90	60	70	67	43	16
LD21-102	37.6	22	100	3.9	86	59	51	68	50	19
LD21-103	11.8	20	100	3.8	70	53	25	66	49	22
LD21-104	8.5	17	100	3.9	35	40	12	67	37	47
LD21-105	12.2	18	100	4.1	78	55	24	63	52	9

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-106	43.4	27	100	3.7	100	63	68	73	45	13
LD21-107	47.4	23	100	3.6	96	65	68	72	47	14
LD21-108	19.3	19	100	3.8	74	53	38	67	44	15
LD21-110	15.7	19	100	4.0	95	56	46	68	46	11
LD21-111	16.4	19	100	4.0	74	52	33	65	47	10
LD21-112	27.8	20	100	3.7	75	58	48	67	49	18
LD21-113	6.8	19	100	4.0	63	49	13	59	47	3
LD21-114	7.6	19	100	4.4	63	53	7	61	52	9
LD21-115	6.3	17	100	4.2	53	50	6	62	49	13
LD21-117	3.5	10	100	2.8	70	58	5	65	57	4
SD20-001	24.6	17	100	4.0	94	56	41	66	48	10
SD20-002	14.1	20	100	3.9	60	50	32	67	46	23
SD20-003	42.2	18	100	3.9	94	64	61	77	45	7
SD20-004	46.5	18	100	4.1	94	59	65	68	49	12
SD20-005	34.8	17	100	4.0	82	56	49	64	49	21
SD20-006	14.5	17	100	4.0	82	55	45	64	47	10
SD20-007	33.6	20	100	3.8	95	57	62	64	48	7
SD20-008	12.6	21	100	3.7	62	51	27	64	44	20
SD20-009	12.0	18	100	3.9	72	54	20	62	53	13
SD20-010	20.1	19	100	3.9	89	57	47	65	49	14
SD20-011	27.5	18	100	3.9	89	60	52	69	48	14
SD20-012	18.8	21	100	3.7	67	54	41	62	47	5
SD20-013	25.1	25	100	3.9	72	52	32	64	47	4
SD20-014	32.1	22	100	3.6	82	61	44	73	52	8
SD20-015	18.1	22	100	3.5	64	55	23	64	53	12
SD20-016	12.9	22	100	3.6	41	45	15	75	40	24
SD20-017	8.8	22	100	3.6	55	49	15	63	47	21
SD20-018	24.4	20	100	3.8	90	63	46	74	53	11
SD20-019	33.6	18	100	4.0	78	53	56	59	45	16

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD20-020	35.4	24	100	3.6	71	61	42	74	52	13
SD20-021	41.2	21	100	3.8	76	57	73	61	46	16
SD20-022	30.0	21	100	3.9	76	59	41	66	55	0
SD20-023	11.1	23	100	3.9	48	48	13	58	47	6
SD20-024	22.0	18	100	3.9	83	55	43	63	49	18
SD20-025	23.4	18	100	4.0	67	53	44	62	46	20
SD20-026	12.6	17	100	4.0	82	55	29	63	51	5
SD20-027	24.0	21	100	3.8	76	54	45	62	48	5
SD20-028	43.9	20	100	3.9	70	55	50	64	46	17
SD20-029	10.5	18	100	3.9	78	56	28	63	53	10
SD20-030	14.7	18	100	3.9	78	51	38	60	47	22
SD20-031	22.0	19	100	3.8	79	54	49	64	45	24
SD20-032	23.9	21	100	3.7	62	51	35	65	44	25
SD20-033	14.4	19	100	3.8	95	55	35	63	52	8
SD20-034	10.1	19	100	4.0	74	51	24	60	48	10
SD20-035	12.2	19	100	3.9	84	55	32	62	51	6
SD20-036	17.9	18	100	3.9	83	53	37	65	46	17
SD20-037	13.8	16	100	4.2	56	46	18	62	43	29
SD20-038	42.8	25	100	3.7	92	62	63	69	50	17
SD20-039	21.3	20	100	3.8	80	55	40	66	48	15
SD20-040	38.7	24	100	3.8	88	62	65	69	47	16
SD20-041	29.1	23	100	3.6	83	60	50	69	51	17
SD20-042	7.9	17	100	4.0	82	52	18	60	51	2
SD20-043	17.4	19	100	3.8	79	54	36	65	47	8
SD20-044	13.1	18	100	3.9	72	54	35	66	48	10
SD20-045	3.3	1	100	2.0	0	38	6	72	33	44
SD20-046	5.5	20	100	3.7	65	54	12	63	52	7
SD20-047	5.1	18	100	3.9	39	45	9	65	42	23
SD20-049	6.4	19	100	4.2	68	56	6	63	55	11

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD21-001	28.8	17	100	4.0	88	57	46	67	47	7
SD21-002	29.3	17	100	4.0	94	60	48	70	49	9
SD21-003	25.9	21	100	4.0	90	57	46	70	46	10
SD21-004	34.1	17	100	4.0	88	59	59	66	48	12
SD21-005	39.3	17	100	4.0	94	59	56	65	50	12
SD21-006	13.8	18	100	4.1	83	55	44	63	48	9
SD21-007	11.5	17	100	4.1	71	54	19	62	53	14
SD21-008	13.9	20	100	3.8	65	51	25	64	46	15
SD21-009	23.1	17	100	4.0	94	56	50	66	46	5
SD21-010	15.9	20	100	3.8	80	54	35	65	48	13
SD21-011	35.7	19	100	4.0	84	61	59	74	45	12
SD21-012	19.6	20	100	3.8	65	53	42	62	46	18
SD21-013	20.5	18	100	3.9	78	60	37	66	56	0
SD21-014	41.5	22	100	3.6	86	62	61	75	43	21
SD21-015	13.9	22	100	3.6	36	43	12	72	39	32
SD21-016	8.1	22	100	3.6	45	45	11	76	42	21
SD21-017	10.1	22	100	3.6	64	54	20	62	52	6
SD21-018	21.5	22	100	3.5	64	56	27	64	53	12
SD21-019	45.0	19	100	3.9	74	54	69	58	45	17
SD21-020	26.2	21	100	3.8	67	55	33	76	47	14
SD21-021	18.3	18	100	3.9	61	50	41	59	44	5
SD21-022	33.2	23	100	3.6	74	60	37	73	52	14
SD21-023	16.0	24	100	3.6	58	51	21	60	50	18
SD21-024	28.4	23	100	3.8	78	53	42	69	44	6
SD21-025	17.1	19	100	3.8	84	56	34	62	53	15
SD21-026	16.8	18	100	3.9	78	54	39	62	50	25
SD21-027	26.2	21	100	3.9	67	53	36	62	47	12
SD21-028	49.5	20	100	3.9	85	57	65	63	46	17
SD21-029	17.3	17	100	4.0	76	50	39	67	41	21

Table 2: Primary Elections (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD21-030	8.8	18	100	3.9	83	56	24	62	54	10
SD21-031	11.5	19	100	3.9	68	49	30	64	42	23
SD21-032	33.8	22	100	3.7	68	54	46	63	45	24
SD21-033	14.4	20	100	3.8	95	56	34	62	53	7
SD21-034	18.9	20	100	3.7	85	55	38	63	50	4
SD21-035	11.1	18	100	4.0	83	54	30	62	50	7
SD21-036	4.2	18	100	3.9	56	48	10	65	46	14
SD21-037	10.7	17	100	4.0	71	52	23	62	49	11
SD21-038	33.4	23	100	3.6	91	61	55	71	49	15
SD21-039	39.0	24	100	3.5	92	63	65	70	47	14
SD21-040	47.5	24	100	3.8	100	64	71	70	49	16
SD21-041	10.0	17	100	3.9	65	51	20	66	47	20
SD21-042	20.3	18	100	4.1	72	56	26	64	53	10
SD21-043	17.9	19	100	3.8	79	54	37	65	47	9
SD21-044	12.7	19	100	4.0	74	53	35	67	45	11
SD21-045	7.1	17	100	4.0	82	55	18	61	53	1
SD21-046	4.6	17	100	4.0	59	52	7	72	50	7
SD21-048	5.2	20	100	3.9	55	47	9	60	45	3
SD21-049	6.9	19	100	4.2	68	56	7	62	55	11

Table 3: General Elections (contests with Black candidate)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
CD20-001	41.9	4	100	2.0	100	54	38	100	21	37
CD20-002	18.2	6	100	2.0	17	47	14	99	38	19
CD20-003	18.7	5	100	2.0	0	36	18	98	22	37
CD20-004	24.4	3	100	2.0	100	68	21	93	39	21
CD20-005	10.7	3	100	2.0	0	33	10	100	24	34
CD20-006	32.0	3	100	2.0	100	60	30	100	41	15
CD20-007	15.4	3	100	2.0	0	41	13	91	32	30
CD20-008	25.9	4	100	2.0	0	48	30	100	26	32
CD20-009	17.4	4	100	2.0	0	43	16	100	31	28
CD20-010	10.1	3	100	2.0	0	31	11	100	25	33
CD20-012	34.1	7	100	1.7	100	76	39	99	62	7
CD20-013	13.9	3	100	2.0	0	32	12	100	22	36
CD21-001	22.4	5	100	2.0	0	38	19	98	22	37
CD21-002	39.1	3	100	2.0	100	53	34	100	23	35
CD21-003	15.7	3	100	2.0	0	42	14	93	32	29
CD21-004	27.5	3	100	2.0	0	48	34	100	26	32
CD21-005	23.2	6	100	2.0	33	47	18	99	36	22
CD21-006	20.4	3	100	2.0	100	65	17	100	40	17
CD21-007	15.3	3	100	2.0	0	38	12	100	27	32
CD21-008	16.5	4	100	2.0	0	40	14	100	28	30
CD21-009	36.3	7	100	1.7	100	79	43	99	64	3
CD21-010	16.2	3	100	2.0	0	34	11	100	23	35
CD21-011	19.2	3	100	2.0	0	34	15	100	25	33
CD21-012	17.1	3	100	2.0	0	42	18	100	32	26
CD21-013	14.8	3	100	2.0	0	37	14	100	27	32
LD20-001	36.6	4	100	2.0	0	47	28	100	18	39
LD20-002	25.7	5	100	2.0	0	43	25	100	24	34
LD20-003	19.2	7	100	2.0	0	39	19	100	25	33
LD20-004	20.6	4	100	2.0	0	36	15	100	16	41

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-005	41.0	3	100	2.0	100	55	33	100	18	39
LD20-006	7.1	5	100	2.0	0	34	7	84	25	49
LD20-007	22.4	4	100	2.0	0	43	23	100	26	32
LD20-008	42.5	6	100	2.0	33	51	33	100	26	32
LD20-009	27.9	4	100	2.0	0	43	21	100	27	31
LD20-010	22.0	5	100	2.0	0	35	23	100	15	41
LD20-011	15.4	6	100	2.0	83	54	13	100	48	6
LD20-012	36.9	7	100	2.0	14	47	38	100	15	41
LD20-013	7.9	2	100	2.0	0	27	9	94	18	42
LD20-014	17.8	5	100	2.0	0	40	20	100	25	33
LD20-015	10.7	5	100	2.0	0	31	12	100	22	36
LD20-016	18.3	5	100	2.0	0	36	17	95	24	37
LD20-017	10.1	11	100	2.0	0	37	11	90	30	34
LD20-018	21.1	3	100	2.0	100	62	21	100	51	5
LD20-019	6.3	1	100	2.0	0	37	6	100	33	25
LD20-021	37.4	5	100	2.0	20	44	29	100	21	37
LD20-022	29.3	4	100	2.0	0	43	28	100	18	39
LD20-023	50.6	6	100	2.0	100	60	38	100	16	41
LD20-024	38.2	8	100	2.0	100	56	37	100	28	29
LD20-025	42.6	4	100	2.0	0	40	34	99	14	42
LD20-026	16.5	5	100	2.0	0	31	11	100	22	36
LD20-027	51.6	6	100	2.0	100	63	44	100	20	37
LD20-028	15.8	5	100	2.0	0	27	10	100	19	38
LD20-029	37.2	10	100	1.6	100	87	40	100	78	0
LD20-030	28.2	4	100	2.0	100	59	25	100	45	11
LD20-031	39.8	8	100	1.6	100	84	48	100	71	0
LD20-032	48.1	10	100	2.0	100	63	50	100	28	31
LD20-033	39.9	6	100	2.0	100	61	38	99	38	19

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-034	11.5	6	100	2.0	0	40	6	100	36	22
LD20-035	18.0	6	67	2.0	33	46	12	64	44	39
LD20-036	7.5	3	33	2.0	67	56	6	59	56	15
LD20-037	11.3	6	100	2.0	0	34	10	100	27	31
LD20-038	39.4	10	100	1.6	100	83	42	98	72	2
LD20-040	11.3	6	100	2.0	0	38	7	100	33	25
LD20-041	7.1	3	100	2.0	0	43	6	94	40	16
LD20-042	38.1	6	100	2.0	100	66	48	100	36	22
LD20-043	33.9	6	100	2.0	0	47	29	100	26	32
LD20-044	48.1	5	100	2.0	100	71	52	100	40	16
LD20-045	31.4	7	100	2.0	57	50	32	100	27	32
LD20-046	25.0	5	100	2.0	20	42	27	99	21	37
LD20-047	23.8	6	100	2.0	17	43	24	98	26	32
LD20-048	35.5	6	100	2.0	100	56	40	100	29	30
LD20-049	12.3	6	100	2.0	50	49	7	100	45	10
LD20-050	17.5	3	100	2.0	0	41	24	92	25	37
LD20-052	11.0	4	100	2.0	0	26	10	100	18	38
LD20-054	12.9	8	50	2.0	0	43	9	91	38	22
LD20-055	26.2	5	100	2.0	0	42	25	100	22	36
LD20-056	10.2	7	100	2.0	100	71	10	100	66	0
LD20-057	39.7	5	100	2.0	100	58	38	98	33	25
LD20-058	43.1	8	100	2.0	100	69	45	96	47	8
LD20-059	28.6	5	100	2.0	0	37	24	100	17	40
LD20-060	34.6	8	100	2.0	88	59	38	100	34	24
LD20-061	40.0	8	100	2.0	100	64	31	100	48	8
LD20-062	13.7	5	100	2.0	0	32	11	100	24	34
LD20-063	24.8	4	100	2.0	0	48	24	100	32	27
LD20-064	15.1	4	100	2.0	0	39	14	100	29	30

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-065	19.6	5	100	2.0	0	33	19	94	19	43
LD20-066	24.0	4	100	2.0	0	42	21	100	22	36
LD20-067	7.9	7	100	2.0	0	21	6	100	16	40
LD20-068	8.4	5	100	2.0	0	36	7	100	31	27
LD20-069	11.6	5	100	2.0	0	34	11	100	26	32
LD20-070	7.2	4	100	2.0	0	24	6	100	19	38
LD20-071	40.3	7	100	1.9	100	76	46	99	56	4
LD20-072	34.4	8	100	2.0	100	71	34	100	56	1
LD20-073	14.6	3	100	2.0	0	35	19	100	28	31
LD20-074	11.4	6	100	2.0	0	45	11	100	38	19
LD20-075	15.3	5	100	2.0	0	38	15	100	27	32
LD20-076	21.6	7	100	2.0	0	41	20	100	26	32
LD20-077	7.3	4	100	2.0	0	26	7	100	19	38
LD20-079	22.3	7	100	2.6	14	34	16	98	15	41
LD20-080	9.5	7	100	2.0	0	23	8	100	16	40
LD20-081	9.6	5	100	2.0	0	26	8	100	19	38
LD20-082	20.2	1	100	2.0	0	40	18	100	27	32
LD20-083	19.5	5	100	2.0	60	48	12	100	24	34
LD20-084	14.1	6	100	2.0	0	31	13	100	21	37
LD20-086	6.0	4	100	2.0	0	32	6	100	28	31
LD20-088	16.0	4	100	2.0	100	56	18	99	47	6
LD20-089	7.9	4	100	2.0	0	27	7	100	22	36
LD20-091	4.8	2	100	2.0	0	23	6	100	16	40
LD20-092	40.2	9	100	1.7	100	80	47	100	63	9
LD20-095	9.6	6	100	2.0	0	32	8	100	26	32
LD20-096	8.9	4	100	2.0	0	35	7	100	30	30
LD20-098	9.2	6	100	2.0	0	41	8	100	36	22
LD20-099	36.0	6	100	2.0	100	63	42	99	38	20

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-100	30.5	8	100	1.6	100	82	36	100	71	0
LD20-101	48.0	10	100	1.7	100	82	55	99	60	12
LD20-102	33.8	9	100	1.6	100	87	40	98	79	0
LD20-103	14.2	4	100	2.0	0	47	14	100	38	19
LD20-104	12.0	6	100	2.0	0	47	10	100	41	16
LD20-105	12.9	6	100	2.0	50	49	13	100	41	14
LD20-106	46.3	15	100	1.5	100	91	60	99	79	2
LD20-107	53.6	10	100	1.6	100	87	58	99	70	4
LD20-108	19.5	8	100	2.0	0	38	17	100	25	33
LD20-109	15.3	8	100	2.0	0	35	12	100	27	32
LD20-110	14.6	3	100	2.0	0	28	13	100	17	39
LD20-111	22.8	6	100	2.0	0	38	22	100	20	37
LD20-112	9.2	4	100	2.0	0	28	8	100	22	36
LD20-115	6.9	1	100	2.0	100	59	6	100	44	11
LD20-116	7.2	1	100	2.0	0	49	7	100	46	7
LD21-001	17.7	5	100	2.0	0	35	15	91	22	42
LD21-002	23.7	5	100	2.0	20	43	23	99	26	32
LD21-003	19.4	6	100	2.0	0	38	18	100	25	34
LD21-004	24.9	3	100	2.0	0	33	19	100	17	40
LD21-005	37.5	3	100	2.0	67	51	30	100	17	40
LD21-007	22.2	4	100	2.0	0	43	22	100	27	32
LD21-008	44.2	6	100	2.0	83	54	36	100	28	30
LD21-009	24.6	5	100	2.0	0	37	19	98	23	37
LD21-010	33.1	5	100	2.0	0	38	26	100	17	40
LD21-011	14.2	6	100	2.0	83	52	11	100	46	8
LD21-012	37.7	5	100	2.0	0	45	34	100	16	41
LD21-013	8.3	6	100	2.0	0	28	7	97	22	37
LD21-014	17.8	5	100	2.0	0	40	20	100	25	33

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-015	10.6	5	100	2.0	0	32	13	100	22	36
LD21-016	13.2	5	100	2.0	0	34	14	95	23	38
LD21-017	10.3	11	100	2.0	0	37	11	90	31	32
LD21-018	21.6	3	100	2.0	100	62	21	100	52	4
LD21-019	5.1	1	100	2.0	0	34	5	100	31	28
LD21-021	10.8	6	100	2.0	0	35	7	87	31	37
LD21-022	27.7	4	100	2.0	0	39	26	100	17	40
LD21-023	52.5	6	100	2.0	100	61	39	100	15	41
LD21-024	36.6	8	100	2.0	100	55	37	100	28	29
LD21-025	40.0	5	100	2.0	20	42	30	99	14	42
LD21-027	50.8	8	100	2.0	100	64	48	100	26	32
LD21-028	16.2	5	100	2.0	0	26	10	100	17	40
LD21-029	38.3	8	100	1.6	100	85	44	100	74	0
LD21-030	33.0	7	100	1.6	100	87	34	100	80	0
LD21-031	38.1	3	100	1.0	100	100	44	.	.	.
LD21-032	42.4	4	100	2.0	100	57	43	100	26	32
LD21-033	29.8	10	100	1.6	100	83	31	99	76	0
LD21-034	18.2	6	100	2.0	33	48	13	100	41	15
LD21-036	8.0	2	100	2.0	0	36	7	100	30	28
LD21-038	43.6	2	100	1.0	100	100	47	.	.	.
LD21-040	10.7	4	100	2.0	0	39	6	100	35	23
LD21-042	38.1	6	100	2.0	100	66	48	100	36	22
LD21-043	34.8	6	100	2.0	17	49	30	100	27	31
LD21-044	48.1	5	100	2.0	100	71	52	100	40	16
LD21-045	30.3	7	100	2.0	29	49	31	100	26	33
LD21-046	28.5	4	100	2.0	0	40	28	100	17	39
LD21-047	21.5	6	100	2.0	17	46	23	97	30	28
LD21-048	35.5	6	100	2.0	100	56	40	100	29	30

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-049	13.0	6	100	2.0	33	47	8	100	42	13
LD21-050	17.9	3	100	2.0	0	42	26	93	25	37
LD21-052	22.3	4	100	2.0	0	44	22	100	21	36
LD21-054	11.1	8	50	2.0	0	45	10	84	40	22
LD21-055	24.0	5	100	2.0	0	41	22	100	23	35
LD21-056	10.1	7	100	2.0	100	71	10	100	66	0
LD21-057	39.7	5	100	2.0	100	58	38	98	33	25
LD21-058	42.8	8	100	2.0	100	68	44	98	45	11
LD21-059	26.6	5	100	2.0	0	35	22	100	17	40
LD21-060	34.9	8	100	2.0	100	59	38	100	34	23
LD21-061	40.8	8	100	2.0	100	64	32	100	48	8
LD21-062	13.3	5	100	2.0	0	31	10	100	23	34
LD21-063	24.3	4	100	2.0	0	47	22	100	32	26
LD21-064	15.5	4	100	2.0	0	39	14	100	29	30
LD21-065	18.9	5	100	2.0	0	33	19	94	19	43
LD21-066	27.2	6	100	2.0	50	51	23	100	36	22
LD21-067	13.0	5	100	2.0	0	29	13	100	19	38
LD21-068	8.1	5	100	2.0	0	36	7	100	31	27
LD21-069	11.6	4	100	2.0	0	34	10	100	26	32
LD21-070	7.0	4	100	2.0	0	23	6	100	18	39
LD21-071	39.5	6	100	2.0	100	71	46	98	49	4
LD21-072	33.7	7	100	2.0	100	68	32	100	53	2
LD21-073	17.0	2	100	2.0	0	36	13	100	22	36
LD21-074	11.3	6	100	2.0	0	43	11	100	36	22
LD21-075	15.3	5	100	2.0	0	38	15	100	27	32
LD21-076	20.4	7	100	2.0	0	40	20	100	26	33
LD21-077	5.5	3	100	2.0	0	24	6	100	18	39
LD21-079	16.9	5	100	2.0	0	36	12	92	23	40

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-080	9.4	7	100	2.0	0	24	9	100	17	40
LD21-081	9.6	5	100	2.0	0	26	9	100	19	38
LD21-082	21.0	5	100	2.0	0	34	15	100	23	35
LD21-083	11.9	3	100	2.0	0	27	7	100	21	37
LD21-084	16.0	6	100	2.0	0	33	15	100	22	36
LD21-086	6.1	4	100	2.0	0	31	6	100	27	32
LD21-088	23.3	5	100	1.8	100	67	23	100	57	6
LD21-089	6.7	4	100	2.0	0	25	6	100	20	38
LD21-091	14.1	3	100	2.0	0	36	19	100	30	28
LD21-092	39.1	9	100	1.7	100	79	44	100	62	12
LD21-095	7.6	6	100	2.0	0	31	5	100	27	32
LD21-096	9.9	4	100	2.0	0	36	9	100	30	30
LD21-098	7.5	6	100	2.0	0	39	7	100	35	23
LD21-099	46.8	13	100	1.7	100	85	58	99	65	3
LD21-100	31.0	8	100	1.6	100	82	36	99	71	0
LD21-101	46.8	9	100	1.7	100	81	52	99	62	13
LD21-102	37.6	9	100	1.6	100	89	45	98	81	0
LD21-103	11.8	4	100	2.0	0	42	12	100	34	24
LD21-104	8.5	6	100	2.0	0	45	7	100	41	16
LD21-105	12.2	7	100	2.0	43	48	13	100	41	15
LD21-106	43.4	11	100	1.6	100	86	55	99	71	2
LD21-107	47.4	8	100	1.6	100	82	50	99	65	10
LD21-108	19.3	8	100	2.0	0	37	16	100	25	34
LD21-109	16.8	4	100	2.0	0	39	14	100	28	30
LD21-110	15.7	3	100	2.0	0	33	18	100	18	39
LD21-111	16.4	3	100	2.0	0	30	13	100	19	38
LD21-112	27.8	7	100	1.7	100	78	38	99	65	2
LD21-113	6.8	3	100	2.0	0	32	6	97	25	34

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-114	7.6	1	100	2.0	100	60	7	100	58	0
LD21-115	6.3	1	100	2.0	0	46	5	100	43	12
SD20-001	24.6	4	100	2.0	0	42	18	98	21	38
SD20-002	14.1	6	100	2.0	0	33	15	99	23	35
SD20-003	42.2	5	100	2.0	100	53	42	100	21	37
SD20-004	46.5	6	100	2.0	100	59	40	100	22	36
SD20-005	34.8	4	100	2.0	100	54	29	100	25	33
SD20-006	14.5	6	100	2.0	0	34	16	100	20	38
SD20-007	33.6	3	100	2.0	0	46	35	100	18	39
SD20-008	12.6	3	100	2.0	0	37	10	86	31	35
SD20-009	12.0	3	100	2.0	67	55	10	100	49	6
SD20-010	20.1	5	100	2.0	0	37	20	100	16	40
SD20-011	27.5	4	100	2.0	0	48	23	100	20	38
SD20-012	18.8	3	100	2.0	0	40	15	100	22	36
SD20-013	25.1	4	100	2.0	25	43	26	100	22	35
SD20-014	32.1	7	100	1.9	100	67	32	99	53	10
SD20-015	18.1	6	100	2.0	17	43	12	100	34	23
SD20-016	12.9	6	100	2.0	33	47	9	100	42	13
SD20-017	8.8	6	100	2.0	0	37	7	88	33	32
SD20-018	24.4	3	100	2.0	0	43	21	100	27	32
SD20-019	33.6	5	100	2.0	100	51	31	100	29	30
SD20-020	35.4	8	100	1.6	100	83	40	100	72	0
SD20-021	41.2	4	100	2.0	100	67	49	100	35	23
SD20-022	30.0	3	100	2.0	33	47	27	100	27	32
SD20-023	11.1	7	57	2.0	57	54	10	79	49	13
SD20-024	22.0	3	100	2.0	0	44	19	100	31	27
SD20-025	23.4	4	100	2.0	0	43	26	100	21	37
SD20-026	12.6	4	100	2.0	0	24	7	100	18	39

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD20-027	24.0	5	100	2.0	0	41	21	100	25	33
SD20-028	43.9	7	100	2.0	100	67	41	99	45	11
SD20-029	10.5	5	100	2.0	0	27	9	100	18	39
SD20-030	14.7	3	100	2.0	0	32	18	100	19	38
SD20-031	22.0	3	100	2.0	0	45	23	100	29	30
SD20-032	23.9	6	100	2.0	100	57	23	100	44	10
SD20-033	14.4	4	100	2.0	0	30	12	100	20	38
SD20-034	10.1	5	100	2.0	0	30	10	100	23	35
SD20-035	12.2	4	100	2.0	0	36	11	100	28	31
SD20-036	17.9	5	100	2.0	0	40	12	100	23	35
SD20-037	13.8	4	100	2.0	50	49	12	100	42	14
SD20-038	42.8	10	100	1.6	100	87	53	99	73	0
SD20-039	21.3	5	100	2.0	100	57	24	100	43	12
SD20-040	38.7	9	100	1.7	100	81	49	99	65	6
SD20-041	29.1	5	100	2.0	100	58	30	100	39	17
SD20-042	7.9	4	100	2.0	0	29	6	100	24	34
SD20-043	17.4	8	100	2.0	0	35	15	100	24	34
SD20-044	13.1	5	100	2.0	0	31	16	99	19	39
SD20-049	6.4	1	100	2.0	100	58	6	100	48	4
SD21-001	28.8	3	100	2.0	0	46	20	97	21	38
SD21-002	29.3	3	100	2.0	0	45	22	100	24	34
SD21-003	25.9	5	100	2.0	0	41	26	99	20	38
SD21-004	34.1	4	100	2.0	0	48	34	100	21	37
SD21-005	39.3	4	100	2.0	100	56	30	100	25	34
SD21-006	13.8	6	100	2.0	0	32	15	100	20	38
SD21-007	11.5	3	100	2.0	67	55	10	100	50	6
SD21-008	13.9	3	100	2.0	0	38	11	84	31	36
SD21-009	23.1	3	100	2.0	0	37	20	99	22	37

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD21-010	15.9	5	100	2.0	0	37	10	100	19	38
SD21-011	35.7	3	100	2.0	67	51	32	100	25	33
SD21-012	19.6	3	100	2.0	0	40	16	100	22	36
SD21-013	20.5	3	100	2.0	0	42	22	100	26	32
SD21-014	41.5	6	100	2.0	100	61	40	100	34	22
SD21-015	13.9	6	100	2.0	50	52	10	100	47	8
SD21-016	8.1	6	100	2.0	17	44	6	100	40	16
SD21-017	10.1	6	100	2.0	0	33	8	99	28	31
SD21-018	21.5	6	100	2.0	50	48	16	100	38	19
SD21-019	45.0	5	100	2.0	100	65	45	100	37	21
SD21-020	26.2	5	60	2.0	60	51	14	85	45	13
SD21-021	18.3	3	100	2.0	0	38	22	100	22	36
SD21-022	33.2	4	100	2.0	100	64	30	100	48	9
SD21-023	16.0	3	100	2.0	100	65	24	87	31	32
SD21-024	28.4	4	100	2.0	50	51	31	98	28	31
SD21-025	17.1	3	100	2.0	0	38	15	100	28	31
SD21-026	16.8	3	100	2.0	0	33	16	100	20	37
SD21-027	26.2	6	100	2.0	50	50	23	99	35	23
SD21-028	49.5	5	100	2.0	100	68	49	98	39	18
SD21-029	17.3	3	100	2.0	0	33	13	100	19	38
SD21-030	8.8	4	100	2.0	0	24	8	100	18	39
SD21-031	11.5	4	100	2.0	0	37	12	100	29	30
SD21-032	33.8	6	100	2.0	100	69	36	99	51	3
SD21-033	14.4	4	100	2.0	0	31	12	100	21	37
SD21-034	18.9	5	100	2.0	20	45	13	100	23	35
SD21-035	11.1	4	100	2.0	0	35	10	100	28	30
SD21-037	10.7	6	100	2.0	0	32	10	100	24	34
SD21-038	33.4	5	100	2.0	100	62	35	100	42	14

Table 3: General Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD21-039	39.0	8	100	1.6	100	82	48	100	66	9
SD21-040	47.5	10	100	1.6	100	89	60	97	76	0
SD21-041	10.0	5	100	2.0	0	44	9	100	38	19
SD21-042	20.3	4	100	2.0	100	59	20	100	49	3
SD21-043	17.9	8	100	2.0	0	36	15	100	24	34
SD21-044	12.7	5	100	2.0	0	31	15	99	19	39
SD21-045	7.1	4	100	2.0	0	30	7	100	25	33
SD21-049	6.9	1	100	2.0	100	59	6	100	50	0

Table 4: Primary Elections (contests with Black candidate)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
CD20-001	41.9	14	100	4.1	100	61	62	69	48	12
CD20-002	18.2	15	100	4.1	67	55	26	71	50	14
CD20-003	18.7	15	100	4.0	73	54	40	66	47	22
CD20-004	24.4	16	100	3.9	75	59	34	68	55	12
CD20-005	10.7	16	100	3.9	56	51	21	62	48	15
CD20-006	32.0	15	100	4.2	67	51	47	59	44	23
CD20-007	15.4	15	100	4.0	73	52	30	62	47	5
CD20-008	25.9	14	100	4.1	79	54	52	60	48	20
CD20-009	17.4	16	100	4.6	56	46	33	63	42	13
CD20-010	10.1	15	100	4.0	73	52	25	62	48	27
CD20-011	3.7	1	100	5.0	100	54	5	100	47	.
CD20-012	34.1	20	100	3.6	85	60	54	68	50	18
CD20-013	13.9	14	100	4.1	71	54	33	59	52	14
CD21-001	22.4	15	100	4.0	73	55	41	66	47	18
CD21-002	39.1	14	100	4.1	100	61	60	70	47	13
CD21-003	15.7	16	100	4.1	56	48	28	65	40	17
CD21-004	27.5	14	100	4.1	71	54	55	60	48	20
CD21-005	23.2	14	100	4.1	71	59	32	71	54	12
CD21-006	20.4	15	100	4.5	60	52	25	76	47	10
CD21-007	15.3	14	100	4.1	57	49	32	61	44	30
CD21-008	16.5	14	100	4.1	64	48	36	62	41	29
CD21-009	36.3	20	100	3.6	80	60	56	68	50	19
CD21-010	16.2	14	100	4.1	86	54	35	63	50	15
CD21-011	19.2	14	100	4.1	64	51	35	63	46	24
CD21-012	17.1	16	100	3.9	75	53	36	63	47	21
CD21-013	14.8	17	100	3.9	76	53	31	64	48	11
CD21-014	3.6	1	100	5.0	100	54	5	100	47	.
LD20-001	36.6	14	100	4.1	93	58	58	73	40	19
LD20-002	25.7	15	100	4.1	87	57	45	70	47	12

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-003	19.2	19	100	3.7	63	53	41	66	43	24
LD20-004	20.6	15	100	4.0	93	58	52	69	46	12
LD20-005	41.0	17	100	3.8	94	60	61	68	47	16
LD20-006	7.1	13	100	4.3	69	51	15	63	49	8
LD20-007	22.4	15	100	4.1	93	63	49	78	49	4
LD20-008	42.5	15	100	4.1	93	58	59	66	47	16
LD20-009	27.9	14	100	4.1	71	56	38	64	50	13
LD20-010	22.0	14	100	4.1	79	54	44	72	36	18
LD20-011	15.4	15	100	4.1	47	45	16	67	40	29
LD20-012	36.9	15	100	4.1	87	59	61	67	46	6
LD20-013	7.9	14	100	4.1	57	50	22	65	45	10
LD20-014	17.8	13	100	4.2	92	56	47	61	51	12
LD20-015	10.7	13	100	4.2	77	52	38	62	45	9
LD20-016	18.3	15	100	4.0	73	50	39	60	44	4
LD20-017	10.1	16	100	3.9	69	53	26	64	49	6
LD20-018	21.1	14	100	4.1	71	55	35	61	51	14
LD20-019	6.3	15	100	4.0	53	49	10	66	47	13
LD20-020	5.5	12	100	4.4	58	50	8	79	47	7
LD20-021	37.4	17	100	3.9	88	56	62	63	46	15
LD20-022	29.3	18	100	3.9	94	58	55	72	42	9
LD20-023	50.6	16	100	4.0	100	64	66	70	50	12
LD20-024	38.2	16	100	3.9	94	63	63	68	52	11
LD20-025	42.6	8	100	5.2	100	58	68	68	40	24
LD20-026	16.5	15	100	4.0	60	53	35	67	46	27
LD20-027	51.6	18	100	3.8	78	57	59	72	36	36
LD20-028	15.8	15	100	4.0	93	57	35	66	51	8
LD20-029	37.2	20	100	3.7	65	61	38	79	50	7
LD20-030	28.2	19	100	3.7	68	59	33	73	52	8

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-031	39.8	20	100	3.7	95	64	58	74	49	7
LD20-032	48.1	16	100	3.9	100	68	66	78	52	6
LD20-033	39.9	16	100	4.0	88	65	58	75	52	0
LD20-034	11.5	15	100	4.1	33	42	12	71	38	39
LD20-035	18.0	15	100	4.0	67	57	31	68	52	13
LD20-036	7.5	16	100	4.0	50	49	13	62	47	18
LD20-037	11.3	16	100	4.0	62	52	24	62	50	6
LD20-038	39.4	15	100	4.0	73	61	53	69	54	21
LD20-040	11.3	14	100	4.1	43	46	17	69	41	31
LD20-041	7.1	15	100	4.1	40	44	11	70	41	28
LD20-042	38.1	9	100	2.8	89	60	76	66	44	12
LD20-043	33.9	16	100	4.0	75	51	51	58	44	30
LD20-044	48.1	16	100	4.0	81	56	76	60	44	36
LD20-045	31.4	17	100	3.9	71	54	60	62	42	29
LD20-046	25.0	15	100	4.1	93	52	41	60	47	13
LD20-047	23.8	18	100	4.1	67	47	24	66	41	10
LD20-048	35.5	18	100	3.8	94	58	63	67	43	18
LD20-049	12.3	15	100	4.1	33	41	10	68	38	38
LD20-050	17.5	16	100	3.9	56	50	28	60	47	16
LD20-052	11.0	15	100	4.1	67	55	26	62	52	10
LD20-054	12.9	14	100	4.1	57	52	18	62	50	0
LD20-055	26.2	17	100	4.2	71	49	51	72	34	24
LD20-056	10.2	14	100	4.5	43	45	8	76	42	21
LD20-057	39.7	16	100	4.1	75	54	56	62	43	24
LD20-058	43.1	17	100	4.0	71	54	60	61	43	32
LD20-059	28.6	17	100	4.1	71	53	60	62	39	24
LD20-060	34.6	16	100	4.1	81	56	60	63	44	16
LD20-061	40.0	16	100	4.1	62	52	35	62	46	23

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-062	13.7	17	100	4.0	65	50	27	65	44	11
LD20-063	24.8	15	100	4.1	73	52	43	60	45	20
LD20-064	15.1	16	100	4.1	62	51	30	59	48	31
LD20-065	19.6	15	100	4.0	87	55	43	66	48	18
LD20-066	24.0	15	100	4.3	80	50	42	61	42	12
LD20-067	7.9	14	100	4.1	64	47	22	70	41	18
LD20-068	8.4	15	100	4.3	80	54	24	63	51	5
LD20-069	11.6	15	100	4.1	73	51	31	61	47	6
LD20-070	7.2	15	100	4.1	80	56	19	65	53	19
LD20-071	40.3	19	100	3.8	84	58	63	62	50	17
LD20-072	34.4	19	100	3.8	68	53	41	65	44	24
LD20-073	14.6	15	100	4.1	73	50	36	64	43	24
LD20-074	11.4	16	100	4.0	62	50	23	65	45	9
LD20-075	15.3	17	100	3.9	76	52	37	65	44	27
LD20-076	21.6	15	100	4.0	93	55	42	60	51	25
LD20-077	7.3	15	100	4.1	73	52	24	61	49	11
LD20-078	6.1	15	100	4.1	60	52	19	62	50	14
LD20-079	22.3	16	100	4.2	81	54	41	68	44	15
LD20-080	9.5	14	100	4.1	79	55	26	62	52	21
LD20-081	9.6	14	100	4.1	71	54	24	61	52	12
LD20-082	20.2	8	100	2.6	100	61	42	69	56	8
LD20-083	19.5	14	100	4.1	71	51	37	64	44	33
LD20-084	14.1	14	100	4.1	93	52	32	63	47	11
LD20-086	6.0	15	100	4.0	67	54	14	65	52	12
LD20-087	5.1	15	100	4.0	80	52	13	66	50	2
LD20-088	16.0	11	100	4.5	55	52	24	65	49	16
LD20-089	7.9	14	100	4.1	86	54	23	60	52	1
LD20-090	3.3	14	100	4.1	50	46	8	69	44	21

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD20-091	4.8	16	100	3.9	56	52	13	64	50	33
LD20-092	40.2	18	100	3.7	78	60	65	65	49	14
LD20-094	5.7	19	100	3.9	47	45	12	57	43	15
LD20-095	9.6	14	100	4.1	64	51	22	61	49	13
LD20-096	8.9	14	100	4.1	64	48	17	57	47	18
LD20-097	5.5	14	100	4.1	57	54	14	65	51	11
LD20-098	9.2	14	100	4.2	50	51	18	62	49	29
LD20-099	36.0	20	100	3.6	85	61	65	69	46	17
LD20-100	30.5	17	100	3.8	76	56	42	65	49	21
LD20-101	48.0	18	100	3.7	89	61	72	67	44	21
LD20-102	33.8	16	100	4.3	81	58	47	66	51	18
LD20-103	14.2	14	100	4.2	57	49	24	63	44	30
LD20-104	12.0	12	100	4.4	50	44	16	61	42	37
LD20-105	12.9	15	100	4.2	73	54	24	64	50	10
LD20-106	46.3	23	100	3.7	100	64	73	71	45	13
LD20-107	53.6	21	100	3.7	95	64	72	71	44	14
LD20-108	19.5	16	100	3.9	69	52	41	67	42	16
LD20-109	15.3	17	100	3.8	71	52	30	62	48	9
LD20-110	14.6	15	100	4.0	87	53	37	64	47	14
LD20-111	22.8	16	100	4.1	94	54	46	67	42	13
LD20-112	9.2	14	100	4.1	79	50	19	64	48	10
LD20-115	6.9	12	100	4.5	58	57	7	68	56	20
LD20-116	7.2	12	100	4.8	58	55	8	67	54	16
LD20-117	3.6	17	100	3.8	59	52	5	68	51	5
LD21-001	17.7	14	100	4.1	100	55	35	69	47	11
LD21-002	23.7	15	100	4.0	67	55	37	62	51	25
LD21-003	19.4	18	100	3.8	61	51	35	68	41	25
LD21-004	24.9	15	100	4.1	87	56	54	65	45	9

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-005	37.5	16	100	3.9	94	59	60	67	46	22
LD21-007	22.2	15	100	4.1	93	63	48	78	49	4
LD21-008	44.2	15	100	4.1	93	58	59	66	46	13
LD21-009	24.6	14	100	4.1	64	55	38	61	52	19
LD21-010	33.1	14	100	4.1	100	58	58	64	49	12
LD21-011	14.2	15	100	4.1	40	44	15	67	40	39
LD21-012	37.7	14	100	4.1	100	59	60	68	46	7
LD21-013	8.3	15	100	4.1	67	53	19	64	49	16
LD21-014	17.8	13	100	4.2	92	56	47	61	51	12
LD21-015	10.6	14	100	4.3	71	50	40	60	44	7
LD21-016	13.2	14	100	4.1	64	51	38	59	46	7
LD21-017	10.3	17	100	3.9	65	51	26	62	47	7
LD21-018	21.6	15	100	4.1	67	52	35	60	48	14
LD21-019	5.1	15	100	4.0	60	50	10	64	48	15
LD21-020	5.3	11	100	4.4	64	52	8	80	50	7
LD21-021	10.8	15	100	4.1	60	50	16	63	47	22
LD21-022	27.7	17	100	3.9	94	57	54	70	46	12
LD21-023	52.5	15	100	4.0	100	65	67	71	50	13
LD21-024	36.6	15	100	4.0	93	61	61	67	50	13
LD21-025	40.0	15	100	4.0	100	63	62	77	43	17
LD21-026	16.8	9	100	2.6	78	61	37	75	54	30
LD21-027	50.8	18	100	3.9	89	60	62	75	49	17
LD21-028	16.2	15	100	4.0	93	57	35	67	51	8
LD21-029	38.3	20	100	3.7	80	63	44	78	51	7
LD21-030	33.0	19	100	3.7	74	61	30	74	55	8
LD21-032	42.4	14	100	4.1	93	61	61	78	35	12
LD21-033	29.8	15	100	4.1	73	62	34	75	57	0
LD21-034	18.2	15	100	4.1	53	49	18	69	45	29

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-036	8.0	6	100	6.2	50	39	13	52	37	0
LD21-040	10.7	14	100	4.1	36	43	14	75	39	33
LD21-042	38.1	9	100	2.8	89	60	76	66	44	12
LD21-043	34.8	16	100	4.0	75	51	52	58	44	30
LD21-044	48.1	16	100	4.0	81	56	76	60	44	36
LD21-045	30.3	15	100	4.1	73	54	60	63	41	25
LD21-046	28.5	16	100	4.0	81	50	41	64	40	9
LD21-047	21.5	19	100	4.1	84	50	27	63	45	2
LD21-048	35.5	18	100	3.8	94	58	63	67	43	18
LD21-049	13.0	15	100	4.1	27	38	14	75	32	28
LD21-050	17.9	15	100	4.1	60	51	30	61	47	18
LD21-052	22.3	15	100	4.1	80	55	38	61	50	14
LD21-053	18.8	9	100	2.7	89	65	40	67	63	12
LD21-054	11.1	19	100	3.7	37	42	18	57	39	23
LD21-055	24.0	17	100	4.2	71	49	49	72	34	25
LD21-056	10.1	14	100	4.5	43	45	8	76	42	21
LD21-057	39.7	16	100	4.1	75	54	56	62	43	24
LD21-058	42.8	17	100	4.0	71	54	61	62	43	32
LD21-059	26.6	16	100	4.1	69	53	58	64	38	22
LD21-060	34.9	16	100	4.1	81	56	60	63	45	16
LD21-061	40.8	16	100	4.1	62	52	37	62	46	23
LD21-062	13.3	17	100	4.0	65	50	26	64	44	12
LD21-063	24.3	14	100	4.1	71	51	40	62	43	25
LD21-064	15.5	15	100	4.0	67	52	30	60	49	31
LD21-065	18.9	15	100	4.0	87	55	42	66	48	18
LD21-066	27.2	14	100	4.1	79	59	41	65	55	8
LD21-067	13.0	14	100	4.1	79	49	35	68	40	25
LD21-068	8.1	13	100	5.5	77	57	24	64	54	6

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-069	11.6	15	100	4.1	73	51	30	61	47	6
LD21-070	7.0	16	100	4.0	75	53	18	64	50	20
LD21-071	39.5	19	100	3.8	84	58	61	62	50	18
LD21-072	33.7	18	100	3.9	67	53	40	65	45	19
LD21-073	17.0	8	100	2.6	88	58	35	73	49	25
LD21-074	11.3	16	100	4.0	69	51	23	64	47	10
LD21-075	15.3	17	100	3.9	76	52	37	65	44	27
LD21-076	20.4	16	100	3.9	94	55	41	60	52	9
LD21-077	5.5	16	100	4.1	75	49	20	57	48	11
LD21-078	5.5	15	100	4.1	67	51	17	59	50	9
LD21-079	16.9	14	100	4.1	79	55	30	64	50	4
LD21-080	9.4	15	100	4.2	80	53	27	61	50	22
LD21-081	9.6	15	100	4.1	73	54	24	60	52	14
LD21-082	21.0	14	100	4.1	86	55	38	62	52	16
LD21-083	11.9	14	100	4.1	79	52	31	68	45	23
LD21-084	16.0	14	100	4.1	93	52	36	63	46	11
LD21-086	6.1	15	100	4.0	67	54	13	66	52	13
LD21-087	4.9	15	100	4.0	67	51	11	64	49	27
LD21-088	23.3	11	100	4.5	64	53	28	61	50	17
LD21-089	6.7	14	100	4.1	71	50	19	63	47	2
LD21-090	3.5	16	100	3.9	56	48	8	69	47	15
LD21-091	14.1	15	100	4.0	73	51	33	65	45	23
LD21-092	39.1	17	100	3.8	76	58	63	64	49	11
LD21-094	5.3	17	100	3.9	65	51	11	61	50	14
LD21-095	7.6	12	100	4.5	58	48	14	62	46	22
LD21-096	9.9	14	100	4.1	71	52	21	58	50	18
LD21-097	5.5	14	100	4.1	57	53	15	64	51	11
LD21-098	7.5	14	100	4.2	43	47	14	64	44	40

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
LD21-099	46.8	24	100	3.8	96	61	75	67	44	17
LD21-100	31.0	17	100	3.8	76	56	42	64	49	21
LD21-101	46.8	18	100	3.9	89	59	70	66	43	18
LD21-102	37.6	19	100	3.9	84	58	52	66	50	21
LD21-103	11.8	15	100	4.1	60	49	25	64	44	30
LD21-104	8.5	12	100	4.4	33	38	12	64	35	58
LD21-105	12.2	15	100	4.2	73	54	25	64	50	10
LD21-106	43.4	24	100	3.7	100	63	68	72	46	14
LD21-107	47.4	20	100	3.6	95	64	68	71	47	16
LD21-108	19.3	16	100	3.9	69	52	38	66	44	17
LD21-110	15.7	16	100	4.1	100	55	46	66	46	12
LD21-111	16.4	16	100	4.1	75	51	32	62	47	11
LD21-112	27.8	17	100	3.8	71	57	49	66	48	20
LD21-113	6.8	14	100	4.1	57	49	12	57	48	4
LD21-114	7.6	12	100	5.1	67	56	6	62	56	22
LD21-115	6.3	12	100	4.5	42	49	6	64	48	20
LD21-117	3.5	8	100	2.6	75	60	5	64	60	4
SD20-001	24.6	14	100	4.1	100	55	40	66	48	12
SD20-002	14.1	17	100	3.9	53	48	32	66	44	26
SD20-003	42.2	15	100	4.0	93	64	61	77	46	8
SD20-004	46.5	15	100	4.3	93	59	64	69	50	14
SD20-005	34.8	14	100	4.1	79	55	49	64	48	24
SD20-006	14.5	14	100	4.1	86	54	45	64	46	11
SD20-007	33.6	15	100	4.0	100	59	61	67	48	9
SD20-008	12.6	15	100	4.0	60	49	28	64	41	17
SD20-009	12.0	13	100	4.3	69	53	20	61	51	18
SD20-010	20.1	16	100	4.1	88	57	47	64	49	16
SD20-011	27.5	14	100	4.1	93	62	52	71	49	4

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD20-012	18.8	17	100	3.9	65	52	41	60	47	7
SD20-013	25.1	20	100	4.2	65	48	33	62	43	5
SD20-014	32.1	15	100	4.1	80	62	45	74	53	0
SD20-015	18.1	15	100	4.0	67	56	23	64	53	7
SD20-016	12.9	15	100	4.1	40	43	15	73	38	29
SD20-017	8.8	15	100	4.1	47	46	16	62	43	34
SD20-018	24.4	15	100	4.1	87	62	47	73	51	16
SD20-019	33.6	15	100	4.1	80	53	56	59	45	18
SD20-020	35.4	20	100	3.7	70	62	43	75	52	7
SD20-021	41.2	17	100	3.9	71	56	74	60	46	19
SD20-022	30.0	17	100	4.1	71	56	41	66	52	0
SD20-023	11.1	16	100	4.3	44	44	14	61	44	11
SD20-024	22.0	14	100	4.1	79	53	43	62	47	24
SD20-025	23.4	15	100	4.1	67	51	44	60	46	23
SD20-026	12.6	14	100	4.1	79	54	29	62	50	6
SD20-027	24.0	17	100	4.0	71	53	45	61	45	6
SD20-028	43.9	16	100	4.1	62	53	51	62	43	23
SD20-029	10.5	14	100	4.1	71	54	28	62	51	14
SD20-030	14.7	15	100	4.0	73	50	37	60	45	25
SD20-031	22.0	16	100	3.9	81	54	50	64	44	28
SD20-032	23.9	17	100	3.8	59	50	36	65	41	31
SD20-033	14.4	15	100	4.0	100	55	35	62	52	10
SD20-034	10.1	15	100	4.2	73	50	25	60	47	12
SD20-035	12.2	15	100	4.1	80	53	32	59	50	8
SD20-036	17.9	14	100	4.1	79	51	37	64	44	22
SD20-037	13.8	13	100	4.5	46	43	18	61	39	37
SD20-038	42.8	22	100	3.8	91	61	64	68	49	19
SD20-039	21.3	17	100	3.8	76	54	40	66	46	17

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD20-040	38.7	21	100	3.8	86	61	65	68	46	18
SD20-041	29.1	20	100	3.6	80	59	50	68	50	18
SD20-042	7.9	14	100	4.1	79	51	18	59	49	3
SD20-043	17.4	16	100	3.9	75	53	36	64	47	10
SD20-044	13.1	14	100	4.1	71	52	35	63	46	14
SD20-045	3.3	1	100	2.0	0	38	6	72	33	44
SD20-046	5.5	15	100	4.0	67	54	12	64	53	10
SD20-047	5.1	13	100	4.2	38	43	8	63	41	25
SD20-049	6.4	12	100	4.8	67	56	6	66	55	15
SD21-001	28.8	14	100	4.1	93	57	45	67	48	8
SD21-002	29.3	14	100	4.1	93	60	48	71	49	10
SD21-003	25.9	18	100	4.1	89	56	46	71	44	11
SD21-004	34.1	14	100	4.1	93	59	59	66	48	14
SD21-005	39.3	14	100	4.1	93	58	56	65	49	14
SD21-006	13.8	15	100	4.2	87	54	44	62	48	11
SD21-007	11.5	12	100	4.5	67	53	19	62	51	22
SD21-008	13.9	15	100	4.0	53	47	26	63	41	20
SD21-009	23.1	14	100	4.1	93	55	50	66	45	6
SD21-010	15.9	16	100	3.9	81	54	35	66	49	15
SD21-011	35.7	16	100	4.1	81	60	58	74	43	14
SD21-012	19.6	16	100	4.0	62	51	42	61	44	24
SD21-013	20.5	14	100	4.1	79	59	37	66	55	0
SD21-014	41.5	15	100	4.1	87	64	62	76	46	7
SD21-015	13.9	15	100	4.1	33	42	12	71	38	33
SD21-016	8.1	15	100	4.1	40	43	11	73	40	25
SD21-017	10.1	15	100	4.1	67	53	20	61	52	6
SD21-018	21.5	15	100	4.0	67	56	27	64	53	7
SD21-019	45.0	16	100	4.1	75	54	69	58	45	20

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD21-020	26.2	17	100	4.0	65	55	34	77	47	8
SD21-021	18.3	15	100	4.1	60	49	41	60	43	6
SD21-022	33.2	19	100	3.7	74	61	38	74	52	8
SD21-023	16.0	17	100	4.1	47	46	23	58	44	30
SD21-024	28.4	18	100	4.1	78	51	43	70	41	9
SD21-025	17.1	14	100	4.1	79	53	34	60	50	22
SD21-026	16.8	15	100	4.0	73	54	39	61	49	29
SD21-027	26.2	16	100	4.1	62	52	36	63	45	16
SD21-028	49.5	16	100	4.1	81	55	65	62	42	23
SD21-029	17.3	14	100	4.1	79	49	39	64	40	25
SD21-030	8.8	14	100	4.1	79	55	24	61	53	13
SD21-031	11.5	16	100	4.0	69	48	30	64	41	26
SD21-032	33.8	18	100	3.9	67	52	47	63	43	30
SD21-033	14.4	15	100	4.0	100	55	35	62	52	9
SD21-034	18.9	16	100	3.9	81	54	38	62	49	4
SD21-035	11.1	15	100	4.1	80	53	30	60	50	8
SD21-036	4.2	15	100	4.0	53	48	10	64	45	16
SD21-037	10.7	14	100	4.1	64	51	24	60	48	13
SD21-038	33.4	20	100	3.6	90	61	56	70	49	16
SD21-039	39.0	21	100	3.6	90	62	66	69	47	15
SD21-040	47.5	21	100	3.8	100	63	72	68	48	18
SD21-041	10.0	12	100	4.4	50	44	20	63	40	32
SD21-042	20.3	15	100	4.2	67	55	27	64	52	12
SD21-043	17.9	16	100	3.9	75	53	37	64	47	10
SD21-044	12.7	15	100	4.3	73	51	35	64	43	14
SD21-045	7.1	14	100	4.1	79	54	18	59	52	2
SD21-046	4.6	14	100	4.1	57	51	7	69	49	8
SD21-048	5.2	15	100	4.0	53	46	9	58	45	3

Table 4: Primary Elections (contests with Black candidate) (*continued*)

District	Percent Black Voting Age Population	Number of Contests	Percent of Black-preferred candidates Democratic	Average Number of Candidates	Black-preferred win rate	Average Black-preferred candidate vote share	Avg. Pct. Voters Black	Avg. ER Black cohesion (pct.)	Avg. ER White crossover support (pct.)	Pct. Black needed for majority
SD21-049	6.9	12	100	4.8	67	56	7	65	55	15