

**UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF ILLINOIS
EASTERN DIVISION**

JULIE CONTRERAS, IRVIN FUENTES,
ABRAHAM MARTINEZ, IRENE PADILLA, and
ROSE TORRES

Plaintiffs,

v.

ILLINOIS STATE BOARD OF ELECTIONS,
CHARLES W. SCHOLZ, IAN K. LINNABARY,
WILLIAM J. CADIGAN, LAURA K.
DONAHUE, WILLIAM R. HAINE, WILLIAM
M. MCGUFFAGE, KATHERINE S. O'BRIEN,
and CASANDRA B. WATSON in their official
capacities as members of the Illinois State Board
of Elections, DON HARMON, in his official
capacity as President of the Illinois Senate, and
THE OFFICE OF THE PRESIDENT OF THE
ILLINOIS SENATE, EMANUEL
CHRISTOPHER WELCH, in his official capacity
as Speaker of the Illinois House of
Representatives, and the OFFICE OF THE
SPEAKER OF THE ILLINOIS HOUSE OF
REPRESENTATIVES,

Defendants.

Case No. 1:21-cv-03139

Circuit Judge Michael B. Brennan
Chief District Judge Jon E. DeGuilio
District Judge Robert M. Dow, Jr.

Three-Judge Court
Pursuant to 28 U.S.C. § 2284(a)

PLAINTIFFS' STATEMENT OF MATERIAL FACTS

Pursuant to Fed. R. Civ. P. 56 and local rule 56.1(a)(1)(3) of the United States District Court for the Northern District of Illinois, Plaintiffs Julie Contreras, Irvin Fuentes, Abraham Martinez, Irene Padilla, and Rose Torres file the following statement of material facts as to which there does not exist a dispute in support of Plaintiffs' Motion for Summary Judgment.

The Parties

1. Plaintiff Julie Contreras is a registered voter of Latina heritage residing within Representative District 60 under the Enacted Plans. Exhibit B.
2. Plaintiff Irvin Fuentes is a registered voter of Latino heritage residing within Representative District 1 under the Enacted Plans. Exhibit B.
3. Plaintiff Abraham Martinez is a registered voter of Latino heritage residing within Representative District 86 under the Enacted Plans. Exhibit B.
4. Plaintiff Irene Padilla is a registered voter of Latina heritage residing within Representative District 6 under the Enacted Plans. Exhibit B.
5. Plaintiff Rose Torres is a registered voter of Latina heritage residing within Representative District 6 under the Enacted Plans. Exhibit B.
6. Defendant Illinois State Board of Elections (“the Board”) supervises the administration of registration and election laws throughout Illinois under Article III, Section 5 of the Illinois Constitution and 10 ILCS 5/1A-1, *et seq.*, ensuring that elections in Illinois are conducted in accordance with all applicable laws. The Board will supervise the administration of the 2022 general election for the Illinois Senate and Illinois House of Representatives.¹
7. Defendant Charles W. Scholz is the Chair of the Illinois State Board of Elections and is sued in his official capacity. In this capacity, Mr. Scholtz supervises the administration of registration and election laws throughout Illinois. Mr. Scholtz will supervise the administration of the 2022 general election.²
8. Defendant Ian K. Linnabary is the Vice Chair of the Illinois State Board of Elections and is sued in his official capacity. In this capacity, Mr. Linnabary supervises the administration of registration

¹ Ill. Const. 1970, art. III, § 5; 10 ILCS 5/1A-1, *et seq.*

² Board Member Scholz, Ill. SBOE, <https://www.elections.il.gov/abouttheboard/MemScholz.aspx>.

and election laws throughout Illinois. Mr. Linnabary will supervise the administration of the 2022 general election.³

9. Defendant William J. Cadigan is a member of the Illinois State Board of Elections and is sued in his official capacity. In this capacity, Mr. Cadigan supervises the administration of registration and election laws throughout Illinois. Mr. Cadigan will supervise the administration of the 2022 general election.⁴

10. Defendant Laura K. Donahue is a member of the Illinois State Board of Elections and is sued in her official capacity. In this capacity, Ms. Donahue supervises the administration of registration and election laws throughout Illinois. Ms. Donahue will supervise the administration of the 2022 general election.⁵

11. Defendant William R. Haine is a member of the Illinois State Board of Elections and is sued in his official capacity. In this capacity, Mr. Haine supervises the administration of registration and election laws throughout Illinois. Mr. Haine will supervise the administration of the 2022 general election.⁶

12. Defendant William M. McGuffage is a member of the Illinois State Board of Elections and is sued in his official capacity. In this capacity, Mr. McGuffage supervises the administration of registration and election laws throughout Illinois. Mr. McGuffage will supervise the administration of the 2022 general election.⁷

13. Defendant Katherine S. O'Brien is a member of the Illinois State Board of Elections and is sued in her official capacity. In this capacity, Ms. O'Brien supervises the administration of registration

³ Board Member Linnabary, Illinois SBOE, <https://elections.il.gov/AbouttheBoard/MemLinnabary.aspx>.

⁴ Board Member Cadigan, Illinois SBOE, <https://www.elections.il.gov/abouttheboard/MemCadigan.aspx>.

⁵ Board Member Donahue, Illinois SBOE, <https://elections.il.gov/AbouttheBoard/MemDonahue.aspx>.

⁶ Board Member Haine, Illinois SBOE, <https://www.elections.il.gov/AbouttheBoard/MemHaine.aspx>.

⁷ Board Member McGuffage, Illinois SBOE, <https://www.elections.il.gov/abouttheboard/MemMcGuffage.aspx>.

and election laws throughout Illinois. Ms. O'Brien will supervise the administration of the 2022 general election.⁸

14. Defendant Casandra B. Watson is a member of the Illinois State Board of Elections and is sued in her official capacity. In this capacity, Ms. Watson supervises the administration of registration and election laws throughout Illinois. Ms. Watson will supervise the administration of the 2022 general election.⁹

15. Defendant Don Harmon is a member of the General Assembly and is sued in his official capacity as President of the Illinois Senate. In this capacity, Mr. Harmon supervises the administration of registration and election laws throughout Illinois. Mr. Harmon will supervise the administration of the 2022 general election.¹⁰

16. Defendant the Office of the President of the Illinois Senate is the office of the presiding officer of the Illinois Senate, as designated by Article IV, Section 6(b) of the Illinois Constitution.¹¹

17. Defendant Emanuel Christopher Welch is a member of the General Assembly and is sued in his official capacity as Speaker of the Illinois House of Representatives.¹²

18. Defendant the Office of the Speaker of the Illinois House of Representatives is the office of the presiding officer of the Illinois House of Representatives, as designated by Article IV, Section 6(b) of the Illinois Constitution.¹³

American Community Survey Data

⁸ Board Member O'Brien, Illinois SBOE, <https://www.elections.il.gov/abouttheboard/MemOBrien.aspx>.

⁹ Board Member Watson, Illinois SBOE, <https://www.elections.il.gov/abouttheboard/MemWatson.aspx>.

¹⁰ Senator Tom Harmon Biography, <https://www.ilga.gov/senate/Senator.asp?MemberID=2125>.

¹¹ Ill. Const. 1970, art. IV, § 6(b).

¹² Rep. Chris Welch Biography, <https://www.ilga.gov/house/rep.asp?MemberID=2419>.

¹³ Ill. Const. 1970, art. IV, § 6(b).

19. The U.S. Census Bureau (the “Bureau”) generally provides states with the official census population counts per Public Law 94-171 (the “PL 94-171 Data”) within one year of the April 1st census date.¹⁴

20. The General Assembly used estimates from the American Community Survey (“ACS”) five-year estimates for 2015-2019 and “other election data” to draw the boundaries for the districts used to elect members of the General Assembly.¹⁵

21. ACS data are released in one-year and five-year estimates.¹⁶ One-year estimates are available for populations of at least 65,000.¹⁷ The Census Bureau combines five consecutive years of ACS data to produce multiyear estimates for geographic areas with fewer than 65,000 residents.¹⁸

22. PL 94-171 data captures a snapshot in time (i.e., the population on April 1, 2020), as opposed to the ACS, which is a five-year estimate.¹⁹

23. ACS data are not available for census blocks, the smallest geographical units used in redistricting. Rather, ACS estimates are available only at the “block group” level.²⁰ Block groups typically contain between 600 and 3,000 people.²¹ Although the ACS is designed to provide reliable estimates using one year of data for areas with populations over 65,000, which includes all states and many counties, multiple years of data must be aggregated in order to obtain data for smaller areas, such as

¹⁴ 13 U.S.C. § 141(c).

¹⁵ Pub. Act 102-0010 § 5(b)-(c).

¹⁶ U.S. Census Bureau, *When to Use 1-year, 3-year, and 5-year Estimates*, <https://www.census.gov/programs-surveys/acs/guidance/estimates.html>.

¹⁷ U.S. Census Bureau, *Understanding and Using ACS Single Year and Multiyear Estimates*, in ACS General Handbook, https://www.census.gov/content/dam/Census/library/publications/2018/acs/acs_general_handbook_2018_ch03.pdf.

¹⁸ U.S. Census Bureau, *Understanding and Using ACS Single Year and Multiyear Estimates*, in ACS General Handbook, https://www.census.gov/content/dam/Census/library/publications/2018/acs/acs_general_handbook_2018_ch03.pdf.

¹⁹ Census Bureau, *Understanding the ACS Data: What Researchers Need to Know*, 15 (2020), https://www.census.gov/content/dam/Census/library/publications/2020/acs/acs_researchers_handbook_2020_ch04.pdf.

²⁰ United States Census Bureau, Glossary, <https://www.census.gov/programs-surveys/geography/about/glossary.html> [<https://perma.cc/A8JT-Y8Z8>] (last visited on May 6, 2021).

²¹ See United States Census Bureau, Glossary, <https://www.census.gov/programs-surveys/geography/about/glossary.html> [<https://perma.cc/A8JT-Y8Z8>] (last visited on May 6, 2021).

block groups.²² The ACS does not produce data for census blocks because the populations in question are too small to estimate accurately.²³

24. The Census Bureau clearly states that users should not rely on the ACS data for population counts.²⁴

25. The decennial Census, not the ACS, provides the official population counts for states.²⁵

Redistricting Process

26. The Illinois Constitution governs the redistricting cycle. ILL. CONST. art. IV, § 3(b). If a new legislative redistricting map is not passed by the General Assembly and signed into law by the Governor before June 30 in the year following the decennial census, a Legislative Redistricting Commission (the “Redistricting Commission”) will be created on or before July 10. *Id.* If the Redistricting Commission fails to file a plan on or before August 10, the Supreme Court must submit the names of two persons, not of the same political party, to the Secretary of State on or before September 1. *Id.*

27. On or before September 5, the Secretary of State must publicly and randomly choose the name of one of the two persons nominated by the Illinois Supreme Court to serve as the ninth member of the Redistricting Commission. ILL. CONST. art. IV, § 3(b). On or before October 5, the newly constituted commission must file a redistricting plan with the Secretary of State. A plan so chosen, will have the force and effect of law. *Id.*

²² U.S. Census Bureau, *Understanding and Using ACS Single Year and Multiyear Estimates*, in ACS General Handbook, 15, https://www.census.gov/content/dam/Census/library/publications/2018/acs/acs_general_handbook_2018_ch03.pdf.

²³ *Id.*

²⁴ Census Bureau, *Understanding the ACS Data: What Researchers Need to Know*, 15 (2020), https://www.census.gov/content/dam/Census/library/publications/2020/acs/acs_researchers_handbook_2020_ch04.pdf (“[U]sers need to understand that the American Community Survey (ACS) was designed to provide estimates of the characteristics of the population, not to provide counts of the population in different geographic areas or population subgroups. Therefore, data users are encouraged to rely more upon noncount statistics, such as percent distributions or averages, when using ACS estimates.”)

²⁵ *Id.*

28. On May 28, 2021 the Legislature passed the Enacted Plans and sent them to the Governor for signing.²⁶

29. The Governor signed the Enacted Plans into law on June 4, 2021.²⁷

Malapportionment

30. On August 12, 2021, the Census Bureau released the PL94-171 data.²⁸

31. David R. Ely, Plaintiffs' Expert, Expert Ely analyzed the Enacted Plan using the following datasets: 2020 PL 94-171 redistricting data, 2010 PL 94-171 redistricting data, 2015-2019 American Community Survey ("ACS") data. David R. Ely Decl., Exhibit A.

32. David R. Ely is the manager and founder of Compass Demographics, a consulting and database management firm specializing in projects involving census and election data, redistricting projects, demographic analysis, and analysis of voting behavior. David R. Ely Decl., Exhibit A

33. The 2010 PL94-171 and 2020 redistricting data file has data by Census Block. David R. Ely Decl., Exhibit A.

34. The overall variance, or maximum deviation, as calculated by Plaintiffs' expert, David R. Ely, are as follows:

Dataset	Senate Overall Variance	House Overall Variance
2020 PL-94-171	20.3%	29.9%

²⁶ Public Act 102-0010 (<https://www.ilga.gov/legislation/publicacts/102/PDF/102-0010.pdf>) ("Pub. Act 102-0010"); Bill Status of HB2777, Illinois General Assembly, <https://www.ilga.gov/legislation/billstatus.asp?DocNum=2777&GAID=16&GA=102&DocTypeID=HB&LegID=131631&SessionID=110>) ("Bill Status HB2777"); House Roll Call for HB2777 (https://www.ilga.gov/legislation/votehistory/102/house/10200HB2777sam001_05282021_008000C.pdf); Senate Roll Call HB2777, https://www.ilga.gov/legislation/votehistory/102/senate/10200HB2777_05282021_023000T.pdf.

²⁷ Bill Status HB2777.

²⁸ U.S. Census Bureau, 2020 Census Redistricting File (PL 940171 Dataset, <https://www.census.gov/data/datasets/2020/dec/2020-census-redistricting-summary-file-dataset.html>).

David Ely Decl., Exhibit A, ¶¶ 21,27,28.

35. Senate District 3 has a deviation of 12.3%. David R. Ely Decl., Exhibit A, ¶ 22.

36. Senate District 42 has a deviation of -7.9%. David R. Ely Decl., Exhibit A, ¶ 23.

37. House District 5 has a deviation of 15%. David R. Ely Decl., Exhibit A, ¶ 24.

38. House District 83 has a deviation of -14.9%. David R. Ely Decl., Exhibit A, ¶ 25.

39. The calculations produced by this analysis reveal an overall variance, or a maximum deviation in the Enacted Plan approaching 30%. This calculation is the difference between the most populated and least populated districts as a percentage of the ideal district population size. David R. Ely Decl., Exhibit A; Ely Tables 1 and 2 (House ideal district: 108580.5763; Senate ideal district: 217161.1525).

Dated: August 20, 2021

Respectfully submitted,

/s/ Griselda Vega Samuel

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Attorneys for Plaintiffs

CERTIFICATE OF SERVICE

I hereby certify that on August 20, 2021, a copy of the foregoing document was filed electronically in compliance with Local Rule 5.9.

/s/ Griselda Vega Samuel
Attorney for Plaintiffs

Exhibit A

**UNITED STATES DISTRICT COURT
FOR THE NORTHERN DISTRICT OF ILLINOIS
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JULIE CONTRERAS, IRVIN FUENTES,
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Plaintiffs,

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ILLINOIS STATE BOARD OF ELECTIONS,
CHARLES W. SCHOLZ, IAN K. LINNABARY,
WILLIAM J. CADIGAN, LAURA K. DONAHUE,
WILLIAM R. HAINE, WILLIAM M.
MCGUFFAGE, KATHERINE S. O'BRIEN, and
CASANDRA B. WATSON in their official
capacities as members of the Illinois State Board of
Elections, DON HARMON, in his official capacity
as President of the Illinois Senate, and THE
OFFICE OF THE PRESIDENT OF THE
ILLINOIS SENATE, EMANUEL CHRISTOPHER
WELCH, in his official capacity as Speaker of the
Illinois House of Representatives, and the OFFICE
OF THE SPEAKER OF THE ILLINOIS HOUSE
OF REPRESENTATIVES,

Defendants.

Case No. 1:21-cv-3139

DECLARATION OF DAVID R. ELY

1. I am currently the Manager and Founder of Compass Demographics, a consulting and database management firm specializing in projects involving census and election data, redistricting projects, demographic analysis, and analysis of voting behavior. This declaration is provided in support of Plaintiffs' Motion for Summary Judgment. I have personal knowledge of the facts stated herein, and if required to, could testify competently thereto.

2. Prior to founding Compass Demographics, from 1986 to 2007, I was the Director of Research for the Redistricting and Reapportionment practice of Pactech Data and Research, where in addition to litigation expert and consulting work, I provided database construction and redistricting consultation to numerous jurisdictions.

3. Since 1986, I have served as an expert witness in over 30 federal and state voting rights cases in 12 states. I have been retained as an expert by the Department of Justice and have testified on behalf of the United States in numerous cases involving enforcement of the federal Voting Rights Act, in which I performed analysis similar to the types of analysis discussed in this report.

4. I have also served as a consultant and expert on behalf of private plaintiffs in state and federal voting rights litigation challenging electoral systems in multiple jurisdictions.

5. I have also served as a consultant and expert on behalf of defendant jurisdictions, in voting rights litigation challenging election systems or districts.

6. I have served as an expert witness in numerous cases brought under Section 2 of the federal Voting Rights Act, including with respect to plaintiffs' satisfaction of the first threshold condition under the test of *Thornburg v. Gingles*, 478 U.S. 50 (1986)—namely, whether a minority group is sufficiently large and compact to constitute a majority of the voting age citizen population in a single-member district. Among the cases in which I have provided expert testimony concerning prong one of the *Gingles* test are *Luna v. Kern County Board of Supervisors*, 291 F. Supp.3d 1088 (E.D. Ca. 2018) (Plaintiffs prevailed, my prong one evidence adopted with approval by the court); *Patiño v. City of Pasadena*, 230 F.Supp.3d 667, 674 (S.D.Tex. 2017) (same), *Fabela v. City of Farmers Branch, Tex.*, 2012 WL 3135545, (N.D.Tex, 2012) (same); *Benavidez v. City of Irving, Tex.*, 638 F.Supp.2d 709, 720 (N.D.Tex. 2009) (same).

7. In addition to my expert witness work in cases under the federal Voting Rights Act, I have also testified as an expert in cases under the California Voting Rights Act, including *Pico Neighborhood Association v. City of Santa Monica*, Los Angeles Superior Court Case No. BC616804 (judgement pending); *Jauregui v. City of Palmdale*, Los Angeles Superior Court Case, No. BC 482039 (court relied on my testimony to find racially polarized voting and to enter a remedial plan); *Garrett v. City of Highland, San Bernardino Superior Court*, Case No. CIV-DS-1410696 (court approved my remedial plan); *Yumore Kaku v. City of Santa Clara*, Santa Clara Superior Court Case No. 17CV31982 (remedial plan pending).

8. Following the 1990, 2000, and 2010 Censuses, I have also served as a consultant to construct databases, draw district lines, or prepare presentation maps and reports for redistricting authorities in many jurisdictions in conducting their normal decennial redistricting. These jurisdictions include statewide congressional and legislative redistricting authorities, as well as a variety of County Boards, City Councils, School Boards, Water Districts, Regional Transit Boards and others.

9. I participated in the construction of the California Statewide Redistricting Database for the California State Legislature for the last three redistricting cycles. That publicly available database includes voting, registration, and geographic data sets for the State of California for statewide elections beginning in 1992.

10. A copy of my CV is attached as Appendix A. It contains a listing of selected cases in which I testified as an expert witness and a list of selected jurisdictions in which I performed database construction, demographic and voter analysis, and technical assistance; developed districting plans; participated in public hearings and presentation of plans; and analyzed alternative redistricting plans.

11. I am being compensated at a rate of \$250 per hour for my work in this case.

12. I created a geographic dataset for the State of Illinois using the 2020 TIGER files from the Census Bureau. This Dataset included 2010 Census Blocks and Block Groups, as well as 2020 Census Blocks, block Groups and Counties. 2010 Census PL94-171 data (Census Redistricting File) was downloaded from Census Bureau and joined to 2010 Census Block Geography.

13. I used mapping files for Proposed Legislative Districts downloaded from legislative website to assign 2020 Census Blocks to Districts.

14. I used a geographic overlay procedure and the 2010 to 2020 block correspondence to assign 2010 Census population data to proposed Legislative Districts

15. I used shapefiles (geographic information system format) provided by defendants to verify my assignment of 2020 Census blocks to proposed districts.

16. I created summary district populations to determine that proposed districts were malapportioned based on 2010 Census Data.

17. After the release of 2020 PL94-171 data on August 12 I downloaded that data and joined to the 2020 Census block geography described above.

18. This data was used to compute 2020 population summary data for proposed Legislative Districts. This analysis demonstrates that Districts are Malapportioned with 2020 Census Data.

19. I analyzed the Enacted Plans using the following datasets: 2020 PL 94-171 redistricting data, 2010 PL 94-171 redistricting data, 2015-2019 American Community Survey (“ACS”) data.

20. The 2010 PL 94-171 and 2020 PL 94-171 redistricting data file has data by Census

Block.

21. The overall variances, or maximum percentage deviations, are as follows:

Dataset	Senate Overall Variance	House Overall Variance
2020 PL 94-171	20.3%	29.9%

22. Using Census 2020 2020 PL 94-171 data, Senate District 3 has a deviation of 12.3% from the ideal district population.

23. Using Census 2020 2020 PL 94-171 data, Senate District 42 has a deviation of - 7.9% from the ideal district population.

24. Using Census 2020 2020 PL 94-171 data, House District 5 has a deviation of 15% from the ideal district population.

25. Using Census 2020 2020 PL 94-171 data, House District 83 has a deviation of - 14.9% from the ideal district population.

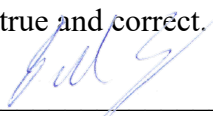
26. This calculation is the difference between the most populated and least populated districts as a percentage of the ideal district population size. The ideal district population of the House is 108,580.5763, and the ideal district population of the Senate is 217,161.1525. Tables 1 and 2.

27. The overall variance or maximum deviation in the Senate District Plan is 20.3%.

28. The overall variance or maximum deviation in the House District Plan is 29.9%.

Executed on August 20, 2021, at Pasadena, California.

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



 David R. Ely

Table 1 - Ely Declaration - 20201 Enacted House Plan Deviations

House Dist	2020 PL 94-171 Population	Deviation	% Deviation
1	113224	4643.423729	4.3%
2	112075	3494.423729	3.2%
3	105132	-3448.576271	-3.2%
4	109899	1318.423729	1.2%
5	124836	16255.42373	15.0%
6	119058	10477.42373	9.6%
7	110409	1828.423729	1.7%
8	110811	2230.423729	2.1%
9	114253	5672.423729	5.2%
10	116532	7951.423729	7.3%
11	108644	63.42372881	0.1%
12	111326	2745.423729	2.5%
13	103708	-4872.576271	-4.5%
14	107823	-757.5762712	-0.7%
15	109721	1140.423729	1.1%
16	109891	1310.423729	1.2%
17	112775	4194.423729	3.9%
18	112497	3916.423729	3.6%
19	106275	-2305.576271	-2.1%
20	111497	2916.423729	2.7%
21	110895	2314.423729	2.1%
22	108518	-62.57627119	-0.1%
23	109696	1115.423729	1.0%
24	107419	-1161.576271	-1.1%
25	108487	-93.57627119	-0.1%
26	113480	4899.423729	4.5%
27	107878	-702.5762712	-0.6%
28	103205	-5375.576271	-5.0%
29	106616	-1964.576271	-1.8%
30	101719	-6861.576271	-6.3%
31	109821	1240.423729	1.1%
32	108187	-393.5762712	-0.4%
33	107444	-1136.576271	-1.0%
34	106970	-1610.576271	-1.5%
35	107085	-1495.576271	-1.4%
36	110606	2025.423729	1.9%
37	109448	867.4237288	0.8%
38	106369	-2211.576271	-2.0%
39	109336	755.4237288	0.7%
40	102621	-5959.576271	-5.5%
41	106170	-2410.576271	-2.2%
42	110931	2350.423729	2.2%
43	110756	2175.423729	2.0%
44	107147	-1433.576271	-1.3%
45	105586	-2994.576271	-2.8%
46	109507	926.4237288	0.9%
47	110442	1861.423729	1.7%

Table 1 - Ely Declaration - 20201 Enacted House Plan Deviations

48	106344	-2236.576271	-2.1%
49	108422	-158.5762712	-0.1%
50	107156	-1424.576271	-1.3%
51	110139	1558.423729	1.4%
52	109755	1174.423729	1.1%
53	112157	3576.423729	3.3%
54	109297	716.4237288	0.7%
55	111230	2649.423729	2.4%
56	113450	4869.423729	4.5%
57	109687	1106.423729	1.0%
58	109916	1335.423729	1.2%
59	113036	4455.423729	4.1%
60	108705	124.4237288	0.1%
61	109579	998.4237288	0.9%
62	110217	1636.423729	1.5%
63	112120	3539.423729	3.3%
64	109063	482.4237288	0.4%
65	110625	2044.423729	1.9%
66	106732	-1848.576271	-1.7%
67	107492	-1088.576271	-1.0%
68	108426	-154.5762712	-0.1%
69	107484	-1096.576271	-1.0%
70	111087	2506.423729	2.3%
71	105383	-3197.576271	-2.9%
72	108840	259.4237288	0.2%
73	108973	392.4237288	0.4%
74	106987	-1593.576271	-1.5%
75	111471	2890.423729	2.7%
76	107563	-1017.576271	-0.9%
77	108809	228.4237288	0.2%
78	114451	5870.423729	5.4%
79	105113	-3467.576271	-3.2%
80	108265	-315.5762712	-0.3%
81	109499	918.4237288	0.8%
82	109791	1210.423729	1.1%
83	92390	-16190.57627	-14.9%
84	107522	-1058.576271	-1.0%
85	107703	-877.5762712	-0.8%
86	108289	-291.5762712	-0.3%
87	108742	161.4237288	0.1%
88	106648	-1932.576271	-1.8%
89	109988	1407.423729	1.3%
90	109678	1097.423729	1.0%
91	105676	-2904.576271	-2.7%
92	103890	-4690.576271	-4.3%
93	109437	856.4237288	0.8%
94	106344	-2236.576271	-2.1%
95	110054	1473.423729	1.4%

Table 1 - Ely Declaration - 20201 Enacted House Plan Deviations

96	104264	-4316.576271	-4.0%
97	113482	4901.423729	4.5%
98	107650	-930.5762712	-0.9%
99	106843	-1737.576271	-1.6%
100	105106	-3474.576271	-3.2%
101	104689	-3891.576271	-3.6%
102	105283	-3297.576271	-3.0%
103	106450	-2130.576271	-2.0%
104	103519	-5061.576271	-4.7%
105	106399	-2181.576271	-2.0%
106	105924	-2656.576271	-2.4%
107	108108	-472.5762712	-0.4%
108	108549	-31.57627119	0.0%
109	111147	2566.423729	2.4%
110	106266	-2314.576271	-2.1%
111	104424	-4156.576271	-3.8%
112	113336	4755.423729	4.4%
113	108460	-120.5762712	-0.1%
114	99346	-9234.576271	-8.5%
115	105955	-2625.576271	-2.4%
116	106482	-2098.576271	-1.9%
117	107649	-931.5762712	-0.9%
118	102827	-5753.576271	-5.3%
Total	12812508	32446	29.9%
Ideal	108580.5763		

Table 2 - Ely Declaration - 2021 Enacted Senate Plan Deviations

Senate Dist	2020 PL 94-171 Population	Deviation	% Deviation
1	225299	8137.847458	3.7%
2	215031	-2130.152542	-1.0%
3	243894	26732.84746	12.3%
4	221220	4058.847458	1.9%
5	230785	13623.84746	6.3%
6	219970	2808.847458	1.3%
7	211531	-5630.152542	-2.6%
8	219612	2450.847458	1.1%
9	225272	8110.847458	3.7%
10	217772	610.8474576	0.3%
11	219413	2251.847458	1.0%
12	217115	-46.15254237	0.0%
13	221967	4805.847458	2.2%
14	211083	-6078.152542	-2.8%
15	208335	-8826.152542	-4.1%
16	218008	846.8474576	0.4%
17	214414	-2747.152542	-1.3%
18	217691	529.8474576	0.2%
19	215817	-1344.152542	-0.6%
20	211957	-5204.152542	-2.4%
21	217101	-60.15254237	0.0%
22	217903	741.8474576	0.3%
23	215093	-2068.152542	-1.0%
24	216786	-375.1525424	-0.2%
25	215578	-1583.152542	-0.7%
26	219894	2732.847458	1.3%
27	221454	4292.847458	2.0%
28	224680	7518.847458	3.5%
29	219603	2441.847458	1.1%
30	221741	4579.847458	2.1%
31	219796	2634.847458	1.2%
32	221183	4021.847458	1.9%
33	217357	195.8474576	0.1%
34	215918	-1243.152542	-0.6%
35	218571	1409.847458	0.6%
36	214223	-2938.152542	-1.4%
37	215960	-1201.152542	-0.6%
38	219034	1872.847458	0.9%
39	223260	6098.847458	2.8%
40	213378	-3783.152542	-1.7%
41	219290	2128.847458	1.0%
42	199912	-17249.15254	-7.9%
43	215992	-1169.152542	-0.5%
44	215390	-1771.152542	-0.8%
45	219666	2504.847458	1.2%
46	209566	-7595.152542	-3.5%
47	215781	-1380.152542	-0.6%

Table 2 - Ely Declaration - 2021 Enacted Senate Plan Deviations

48	214318	-2843.152542	-1.3%
49	221132	3970.847458	1.8%
50	211949	-5212.152542	-2.4%
51	209972	-7189.152542	-3.3%
52	209969	-7192.152542	-3.3%
53	212323	-4838.152542	-2.2%
54	216657	-504.1525424	-0.2%
55	217413	251.8474576	0.1%
56	217760	598.8474576	0.3%
57	207806	-9355.152542	-4.3%
58	212437	-4724.152542	-2.2%
59	210476	-6685.152542	-3.1%
Total	12812508	43982	20.3%
Ideal	217161.1525		

Attachment A

VITA

DAVID R. ELY

Compass Demographics, Inc.

6575 N. Vista Street

San Gabriel, CA 91775

(626) 807-0719

E-mail: ely@compass-demographics.com

Employment:

2007 to present

David Ely is the president and founder of Compass Demographics, a consulting and database management firm specializing in projects involving census and election data, redistricting projects, demographic analysis, and analysis of voting behavior.

1986 to 2007

Director of Research for the Redistricting and Reapportionment practice of Pactech Data and Research, Pasadena, California. As Director of Research, Mr. Ely testified or consulted to counsel in a variety of litigation involving the configuration of election districts as well as providing database construction and redistricting consulting for numerous jurisdictions.

Education:

California Institute of Technology in Pasadena, CA with a B.S. in Social Sciences and Mechanical Engineering in 1987.

Redistricting Consulting

Activities include database construction, demographic and voter analysis, development of districting plans, public hearings and presentation of plans, technical assistance, and analysis of alternative redistricting plans.

2018 Coalinga City Council District Formation

2018 Coalinga-Huron Recreation & Parks Board Member District Formation

2017 San Marcos Unified School District Trustee Area Formation

2016 Upland City Council District Formation

2016 Costa Mesa City Council District Formation

2015 Garden Grove City Council District Formation

2015 Fullerton City Council District Formation

2014 Saugus Union School District Trustee Area Formation

2014 Whittier City Council District Formation

2014 Sulphur Springs School District Trustee Area Formation

David R. Ely, Vita, page 2

(Redistricting Consulting, cont.)

2014 Lancaster Elementary School District Trustee Area Formation

2012 Los Angeles Unified School District Redistricting

2012 Los Angeles City Council Redistricting

2012 Pasadena Unified School Board Districting

2012 Pasadena City Council Redistricting

2011 Bay Area Rapid Transit (BART) Board Redistricting

2011 California Legislative Redistricting

2011 Los Angeles County Redistricting

2008 Ceres Unified School District Redistricting

2008 Madera Unified School District Redistricting

2008 Merced Elementary School District Redistricting

2008 Merced High School District Redistricting

2005 Hanford Joint Union High School District Redistricting

2003 Oakland City Council and Oakland Unified School Board Redistricting

2002 Los Angeles City Council Redistricting

2002 Los Angeles Unified School District Board Member Redistricting

2002 Pasadena, California, City Council Redistricting

2001 California Legislative Redistricting (Senate, Assembly, and Congressional)

2001 Los Angeles County Supervisorial Redistricting

2001 Bay Area Rapid Transit Board Member Districts Redistricting

1992 Rancho Mirage, California, City Council Redistricting

1992 Three Valleys Municipal Water District Redistricting

1992 Los Angeles Unified School Board Member Redistricting

1992 Los Angeles City Council Redistricting

1992 Pasadena, California, City Council Redistricting

1991 California Congressional Redistricting

David R. Ely, Vita, page 3

(Redistricting Consulting, cont.)

1991 California State Assembly Redistricting

1991 Los Angeles County Board of Supervisors Redistricting

1987 City of Boston, Massachusetts Redistricting

1986 Los Angeles City Council Redistricting

1987 to 2012, California State Legislature, Redistricting Database construction

Litigation Analysis

Activities include database construction, demographic analysis, expert witness testimony, surname matching, geocoding of registered and actual voter lists, and construction of illustrative districting plans.

2000-Present Provided analysis on numerous voting rights investigations

Tyson v. Richardson Independent School District (2018), expert witness (Texas)

Yumori-Kaku v. City of Santa Clara (2018), expert witness (California)

Loya v. City of Santa Monica (2018), expert witness (California)

Luna v. Kern County (2017), expert witness (California)

Patino v. City of Pasadena (2015), expert witness (Texas)

Garrett v. City of Highland (2015), expert witness (California)

Ramos v. Carrollton-Farmers Branch Independent School District (2015), expert witness (Texas)

Rodriguez v. City of Grand Prairie (2015), expert witness (Texas)

Rodriguez v. Grand Prairie Independent School District (2014), expert witness (Texas)

Navajo Nation v. San Juan County (2014), expert witness (Utah)

Solis v. City of Santa Clarita (2014), expert witness (California)

Jauregui v. City of Palmdale (2013), expert witness (California)

Gonzalez v. City of Compton (2012), expert witness (California)

Fabela v. City of Farmers Branch (2011), expert witness (Texas)

Benavidez v. Irving Independent School District (2008, 2013), expert witness (Texas)

Benavidez v. City of Irving (2008), expert witness (Texas)

Avitia v. Tulare Local Health Care District (2008), expert witness (California)

David R. Ely, Vita, page 4

(Litigation Analysis, cont.)

U.S. v. City of Euclid (2007), election data consultant (Ohio)

Bexar Metropolitan Water District (2007), election data consultant (Texas)

U.S. v. City of Springfield, Massachusetts (2006)

U.S. v. State of Missouri (2006), election data consultant

U.S. v. City of Philadelphia and Philadelphia City Commission (2006), Pennsylvania

State of Georgia v. Ashcroft, (2004) election data consultant

Gomez v. Hanford Joint Union High School District, (2004) California

Sanchez v. City of Modesto, (2004), California

Governor Gray Davis v. Kevin Shelley, (2003) data analysis and declaration (California)

U.S. v. Alamosa County, (2002), expert witness (Colorado)

Cano v. Davis, (2002), election data consultant, (California)

U.S. v. City of Lawrence, (2000), expert witness (Massachusetts)

U.S. v. City of Santa Paula, (2000) voting rights litigation (California)

U.S. v. Upper San Gabriel Valley Municipal Water District, (2000) voting rights litigation (California)

U.S. v. Passaic (2000) voting rights litigation (New Jersey)

U.S. v. City of Lawrence, (1999) voting rights litigation (Massachusetts)

Bonilla v. Chicago City Council (1992-1998), expert witness (Illinois)

Ruiz v. City of Santa Maria, (1992-1998), voting rights litigation (California)

Garza v. County of Los Angeles, (1988-90), Constructed databases and designed remedial plans for Los Angeles County Supervisorial Districts

Exhibit B

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VOTER'S CERTIFICATE OF REGISTRATION
ISSUED BY ROBIN M. O'CONNOR, LAKE COUNTY CLERK

Julie Contreras

██

LOCAL VOTING DISTRICTS

██

████████████████████████████████████

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████████████████████████████████████

██

██

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██

YOUR ELECTION DAY VOTING SITE

Prince of Peace Lutheran Church
2720 N McAree Rd, Waukegan, IL

DATE OF ISSUE

July 2021

PRECINCT

████████

TOWNSHIP

████████████████

CONGRESSIONAL

10

STATE SENATE

30

REPRESENTATIVE

60

COUNTY BOARD

████████



THIS IS NOT IDENTIFICATION FOR VOTING PURPOSES



Robin M. O'Connor
Lake County Clerk

18 N. County Street

Waukegan, Illinois 60085

Phone: 847.377.2410 Fax: 847.984.5827

VoterRegistration@lakecountyil.gov

LakeCountyClerk.info

**TO COMPLETE CHANGE OF ADDRESS
WITHIN LAKE COUNTY**

- Use this form to confirm a move within Lake County. Immediately fax, scan and e-mail, or mail notice. Address/e-mail/fax listed above.
- If you change your name and move within Lake County, you must complete a new registration form.

New Address: _____

City: _____ ZIP Code: _____

Phone No.: _____ S.S. No.: _____
(Last 4 digits)

Birth date: _____ DL. No.: _____

Signature: _____

Voter Power for Registered Voters

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Julie Contreras

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- Locate your precinct polling place for voting or registering on Election Day
- Verify your voter registration (if you include your last name below)
- Obtain a sample ballot
- Find contact information for your public officials
- Check the status of your Vote-By-Mail application (if you include your last name below)

Voter Status/ Polling Place	Sample Ballot	Vote By Mail/Early Voting Status	Public Officials
<p>Voter IRVIN CESAR FUENTES</p> <p>Ward & Precinct [REDACTED]</p> <p>Polling Place Information [REDACTED]</p> <p>This site is not fully accessible to voters with disabilities.</p>		<p>Voter Status Voter Registration Number: [REDACTED] Voter Status: Active (in good standing)</p> <p>District Information United States Congress: 3 State Senate: 1 Rep. In General Assembly: 1 [REDACTED]</p>	

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69 West Washington Street
Suites 600/800
Chicago, Illinois 60602

312.269.7900

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LAUREN STALEY FER

WILL COUNTY CLERK

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[ELECTIONS](#) > [VOTER SERVICES](#) > CHECK MY VOTER REGISTRATION STATUS
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- [EARLY VOTING](#)
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CHECK MY VOTER REGISTRATION STATUS

You must confirm your voter registration status before you may complete a Vote By Mail Ballot application.

You are not required by Illinois law to present your Voter Registration Card if you choose to vote on Election Day.

If your status is **Active**, the Vote By Mail ballot request will be below under VOTER LINKS. If your status is

Inactive, a Register to Vote link will be below under VOTER LINKS.

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Voter Eligibility Detail

VOTER ID

XXXXXXXXXX

STATUS

Active

ABRAHAM MARTINEZ

DATE OF BIRTH

XXXXXXXXXX

STREET ADDRESS

XXXXXXXXXX

APARTMENT NUMBER

CITY

JOLIET

ZIP

XXXXXX

REGISTRATION DATE

XXXXXXXXXX

PRECINCT

JOLIET XXXXXXXX

Voter Links

VOTE BY MAIL BALLOT REQUEST

 **MY ELECTED OFFICIALS**

MY ELECTIONS

No Elections Found



WILL COUNTY CLERK

302 North Chicago Street

Joliet, Illinois 60432

Phone: (815) 740-4615

Fax: (815) 740-4699

Mon-Fri: 8:30 AM - 4:30 PM

FAQS

DID YOU RECEIVE MY VOTE BY MAIL BALLOT?

WHERE CAN I CHECK FOR SOLD TAXES?

HOW CAN I VOTE?

HELPFUL LINKS

MARRIAGE LICENSES

MONTHLY REDEMPTION REPORT FOR TAX BUYERS

MONTHLY REGISTRATION LISTINGS



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Voter Status/ Polling Place	Sample Ballot	Vote By Mail/Early Voting Status	Public Officials
<p>Voter IRENE PADILLA [REDACTED]</p> <p>Polling Place Information [REDACTED]</p> <p>This site is not fully accessible to voters with disabilities.</p>		<p>Ward & Precinct [REDACTED]</p> <p>District Information United States Congress: 7 State Senate: 3 Rep. In General Assembly: 6 [REDACTED] B Mental Health District:</p>	<p>Voter Status Voter Registration Number: [REDACTED] Voter Status: Active (in good standing)</p>

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Voter Status/ Polling Place	Sample Ballot	Vote By Mail/Early Voting Status	Public Officials
<p>Voter ROSE A TORRES [REDACTED]</p> <p>Polling Place Information [REDACTED]</p> <p>This site is not fully accessible to voters with disabilities.</p>		<p>Ward & Precinct [REDACTED]</p> <p>District Information United States Congress: 4 State Senate: 1 Rep. In General Assembly: 2 [REDACTED]</p>	<p>Voter Status Voter Registration Number: [REDACTED] Voter Status: Active (in good standing)</p>

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