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IN THE  
**Supreme Court of the United States**

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SUE EVENWEL, EDWARD PFENNINGER,

*Appellants,*

*v.*

GREG ABBOTT, IN HIS OFFICIAL CAPACITY  
AS GOVERNOR OF TEXAS, *et al.*,

*Appellees.*

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ON APPEAL FROM THE UNITED STATES DISTRICT COURT  
FOR THE WESTERN DISTRICT OF TEXAS

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**SUPPLEMENTAL APPENDIX**

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# EXHIBIT A

**Declaration of Peter A. Morrison, Ph.D.**

1. My name is Peter A. Morrison. I am President of Peter A. Morrison & Associates, Inc., a consulting firm I founded in 1984.
2. I am a demographer with expertise in applications of demographic analysis in tracking socioeconomic trends and envisioning their consequences for public policy and the law. Relevant here, I have expertise in conducting demographic analyses for electoral redistricting and have been qualified by courts to offer expert testimony.
3. I received my B.A. in sociology from Dartmouth College in 1962 and my Ph.D. in sociology from Brown University in 1967. From 1969 to 2009, I was a Senior Staff Demographer and Resident Consultant at The RAND Corporation in Santa Monica, California. While at RAND, I was also the Director of the Population Research Center from its founding in 1979 through 1990.
4. I have taught at the RAND Graduate School and the University of Pennsylvania and frequently address congressional, academic, and business audiences. I have testified before Congress regarding demographic constraints on public policy. Specifically, I have given an invited briefing to House Subcommittee Members on technical issues in implementing the Voting Rights Act. I also have advised the Committee for Economic Development, the Congressional Research Service, and committees of several state and federal government agencies.
5. I have published over two dozen papers in the last 10 years on applied demographic topics including redistricting and voter registration. I have also constructed and/or evaluated proposed redistricting plans for or pertaining to approximately three dozen jurisdictions since 1985. I have personally prepared redistricting plans and maps for local jurisdictions, and have assisted more than a dozen jurisdictions with actual or threatened redistricting-related litigation under the Voting Rights Act.
6. Counsel for Plaintiffs in this proceeding asked me, in connection with Texas Senate Districting Plan S172, to examine: (a) whether Plan S172 created senatorial districts in which the Citizen Voting Age Population (“CVAP”) differed widely amongst the districts; and (b) whether, taking into account the goal of equalizing district total populations with minimal variance, an alternative plan or plans could be constructed that would simultaneously minimize differences among districts in CVAP.
7. I initially considered whether the techniques demographers use could produce districts that minimized *both* total population deviations and CVAP deviations for the 31 contiguous districts as required by the Texas Constitution. Using standard available GIS software, one can readily adjust the boundaries of the districts in Plan S172 to create numerous alternatives to Plan S172. I observed that it is possible to devise a number of feasible alternative 31-district plans with different combinations of total population deviations and CVAP deviations. I was not asked to, and did not attempt to, devise a plan that would optimally balance these two deviations.

8. I did, however, test my analytical conclusions by generating a redistricting plan adhering to Plan S172 districting as closely as possible but minimizing total population and CVAP deviations. For this test, I obtained the data used to create Plan S172, presented on the Texas Legislative Council website. I also obtained population data from the United States Census Bureau, including 2010 full-count Census data and 2008-2012 American Community Survey (“ACS”) CVAP data.

9. My analysis of the 2008-2012 ACS data revealed major deviations in CVAP amongst the Senate districts in Plan S172. The CVAP total plan deviation for Plan S172 is 44.89%. (The district with the highest CVAP had 118.55% of the benchmark average CVAP for a district, whereas the district with the lowest CVAP had just 73.66% of that average.) I also observed that 19 of the 31 districts in Plan S172 extended more than 5% above or below a Senate district’s average CVAP. Lastly, I noted that the Plan’s total population deviation from ideal was 8.04%.

10. I then applied the technique described in paragraph 7 above within the constraints described in paragraph 8 above. I was able to create a 31-district plan within these constraints that eliminated the gross deviations in CVAP without significantly exceeding the 8.04% total population deviation from ideal in Plan S172.

11. Based on my familiarity with the technique described in paragraph 7 above and the test result described in paragraph 10 above, I reaffirmed my conclusion that there are many feasible ways to eliminate gross deviations in CVAP without causing significantly larger deviations in total population. All those options were available, and are available, to the Texas Legislature as alternatives to Plan S172. I also observed that many more options are available if one is not constrained to use Plan S172 as a baseline starting point.

12. In sum, it is my professional opinion that the large CVAP deviations in Plan S172 districts were not a necessary consequence of population equalization and that the distribution of CVAP could be substantially equalized among all 31 districts without departing from the goal of equalizing each district’s total population.

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



DATE: 4/5/2014

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Peter A. Morrison, Ph.D

# EXHIBIT B

American Community Survey Special Tabulation  
Using Census and American Community Survey Data  
SENATE DISTRICTS - PLANS172

District	2010 Census		Special Tabulation of Citizen Voting Age Population (CVAP) from the 2005-2009 American Community Survey with Margins of Error												
	Total	VAP	Hispanic CVAP		Citizen Voting Age Population (CVAP)					Not Hispanic or Latino					
			CVAP	% Hispanic	% Black Alone	% Black + American Indian	% White Alone	% Indian Alone	% Asian Alone	% Native Hawaiian Alone	% Indian + White	% Asian + White	% Remainder 2 or More		
1	819,976	616,458	557,525 (±6,784)	4.3 (±0.4)	17.7 (±0.6)	0.2 (±0.6)	0.1 (±0.6)	76.0 (±0.4)	0.5 (±0.5)	0.4 (±0.5)	0.1 (±0.6)	0.5 (±0.5)	0.1 (±0.6)	0.1 (±0.6)	0.1 (±0.6)
2	808,524	582,997	493,000 (±5,744)	11.9 (±0.5)	12.0 (±0.5)	0.1 (±0.6)	0.1 (±0.6)	73.0 (±0.5)	0.4 (±0.5)	1.6 (±0.5)	0.1 (±0.6)	0.5 (±0.5)	0.6 (±0.5)	0.1 (±0.6)	0.1 (±0.6)
3	843,567	641,369	588,210 (±6,683)	5.3 (±0.4)	13.1 (±0.5)	0.1 (±0.5)	0.1 (±0.5)	80.1 (±0.4)	0.4 (±0.5)	0.3 (±0.5)	0.1 (±0.5)	0.5 (±0.4)	0.5 (±0.4)	0.1 (±0.5)	0.0 (±0.5)
4	815,995	597,765	506,235 (±6,007)	8.6 (±0.4)	15.2 (±0.7)	0.1 (±0.5)	0.0 (±0.5)	73.7 (±0.4)	0.3 (±0.5)	1.4 (±0.4)	0.0 (±0.5)	0.5 (±0.5)	0.5 (±0.5)	0.1 (±0.5)	0.1 (±0.5)
5	827,039	620,718	514,350 (±6,829)	13.0 (±0.5)	10.8 (±0.5)	0.1 (±0.5)	0.1 (±0.5)	73.1 (±0.5)	0.3 (±0.4)	1.8 (±0.4)	0.0 (±0.5)	0.4 (±0.4)	0.4 (±0.4)	0.2 (±0.5)	0.1 (±0.5)
6	812,881	551,137	368,950 (±5,840)	53.0 (±0.9)	16.7 (±0.8)	0.1 (±0.7)	0.0 (±0.7)	27.3 (±0.7)	0.3 (±0.7)	2.1 (±0.7)	0.0 (±0.7)	0.3 (±0.7)	0.3 (±0.7)	0.0 (±0.7)	0.1 (±0.7)
7	809,277	572,446	435,445 (±4,903)	14.9 (±0.5)	11.0 (±0.6)	0.1 (±0.4)	0.1 (±0.4)	67.7 (±0.5)	0.3 (±0.4)	5.2 (±0.4)	0.1 (±0.4)	0.1 (±0.4)	0.3 (±0.4)	0.2 (±0.4)	0.1 (±0.4)
8	794,900	572,635	476,975 (±4,991)	8.5 (±0.5)	8.8 (±0.5)	0.1 (±0.4)	0.1 (±0.5)	73.9 (±0.5)	0.5 (±0.4)	7.2 (±0.4)	0.1 (±0.4)	0.4 (±0.4)	0.4 (±0.4)	0.3 (±0.5)	0.1 (±0.5)
9	815,389	580,100	462,815 (±5,204)	16.6 (±0.6)	10.8 (±0.5)	0.1 (±0.6)	0.1 (±0.6)	66.8 (±0.5)	0.5 (±0.5)	3.9 (±0.5)	0.3 (±0.6)	0.6 (±0.5)	0.6 (±0.5)	0.3 (±0.5)	0.1 (±0.6)
10	834,267	602,461	500,380 (±5,254)	15.1 (±0.5)	18.3 (±0.6)	0.1 (±0.6)	0.1 (±0.6)	62.7 (±0.5)	0.4 (±0.5)	2.6 (±0.5)	0.1 (±0.6)	0.4 (±0.5)	0.4 (±0.5)	0.1 (±0.6)	0.1 (±0.6)
11	791,770	582,677	506,755 (±5,517)	16.6 (±0.5)	10.8 (±0.5)	0.1 (±0.5)	0.0 (±0.5)	67.5 (±0.5)	0.3 (±0.5)	3.9 (±0.5)	0.1 (±0.5)	0.4 (±0.5)	0.4 (±0.5)	0.2 (±0.5)	0.1 (±0.5)
12	818,893	588,816	478,300 (±5,963)	10.4 (±0.5)	6.8 (±0.5)	0.1 (±0.4)	0.1 (±0.4)	78.0 (±0.5)	0.4 (±0.4)	3.1 (±0.4)	0.1 (±0.4)	0.7 (±0.4)	0.7 (±0.4)	0.2 (±0.4)	0.1 (±0.4)
13	808,680	590,736	416,360 (±6,798)	16.1 (±0.7)	57.6 (±0.7)	0.1 (±0.6)	0.1 (±0.6)	19.5 (±0.7)	0.2 (±0.6)	6.0 (±0.6)	0.1 (±0.6)	0.2 (±0.6)	0.2 (±0.6)	0.1 (±0.6)	0.1 (±0.6)
14	834,750	640,349	523,010 (±6,717)	17.9 (±0.6)	9.6 (±0.5)	0.2 (±0.5)	0.0 (±0.5)	67.4 (±0.5)	0.3 (±0.5)	3.7 (±0.4)	0.0 (±0.5)	0.5 (±0.5)	0.5 (±0.5)	0.3 (±0.5)	0.1 (±0.5)
15	793,108	574,255	428,365 (±5,737)	22.2 (±0.7)	25.9 (±0.7)	0.1 (±0.5)	0.0 (±0.6)	46.7 (±0.7)	0.3 (±0.5)	4.1 (±0.5)	0.2 (±0.6)	0.2 (±0.6)	0.2 (±0.6)	0.1 (±0.5)	0.1 (±0.6)
16	816,670	614,614	486,655 (±5,425)	13.8 (±0.6)	11.2 (±0.6)	0.1 (±0.6)	0.2 (±0.6)	68.6 (±0.4)	0.3 (±0.6)	5.0 (±0.5)	0.0 (±0.6)	0.5 (±0.6)	0.5 (±0.6)	0.2 (±0.6)	0.1 (±0.6)
17	804,162	605,764	495,810 (±5,868)	13.2 (±0.5)	11.9 (±0.6)	0.1 (±0.5)	0.0 (±0.5)	64.4 (±0.5)	0.3 (±0.5)	9.5 (±0.5)	0.0 (±0.5)	0.3 (±0.5)	0.3 (±0.5)	0.2 (±0.5)	0.1 (±0.5)
18	809,726	587,890	475,120 (±5,630)	20.9 (±0.6)	11.9 (±0.6)	0.1 (±0.6)	0.0 (±0.6)	63.1 (±0.5)	0.2 (±0.5)	3.3 (±0.6)	0.0 (±0.6)	0.4 (±0.5)	0.4 (±0.5)	0.1 (±0.6)	0.1 (±0.6)
19	800,501	566,604	447,295 (±6,244)	59.1 (±0.8)	7.3 (±0.6)	0.1 (±0.6)	0.0 (±0.6)	31.6 (±0.6)	0.3 (±0.6)	0.9 (±0.6)	0.0 (±0.6)	0.4 (±0.6)	0.4 (±0.6)	0.2 (±0.6)	0.1 (±0.6)
20	833,339	577,960	434,520 (±6,063)	68.2 (±0.8)	2.5 (±0.6)	0.0 (±0.6)	0.0 (±0.6)	27.8 (±0.6)	0.2 (±0.6)	0.8 (±0.5)	0.0 (±0.6)	0.3 (±0.6)	0.3 (±0.6)	0.1 (±0.6)	0.0 (±0.6)
21	807,460	567,099	435,510 (±6,019)	59.8 (±0.7)	4.9 (±0.6)	0.1 (±0.6)	0.0 (±0.6)	33.8 (±0.6)	0.3 (±0.5)	0.7 (±0.5)	0.0 (±0.6)	0.3 (±0.5)	0.3 (±0.5)	0.1 (±0.6)	0.0 (±0.6)
22	809,840	592,255	521,795 (±5,719)	11.6 (±0.4)	11.3 (±0.5)	0.1 (±0.5)	0.0 (±0.5)	74.4 (±0.4)	0.5 (±0.5)	1.4 (±0.5)	0.1 (±0.5)	0.4 (±0.5)	0.4 (±0.5)	0.1 (±0.5)	0.1 (±0.5)
23	813,699	576,192	444,510 (±6,086)	24.0 (±0.7)	47.5 (±0.8)	0.2 (±0.7)	0.2 (±0.7)	25.8 (±0.7)	0.3 (±0.7)	1.1 (±0.6)	0.1 (±0.7)	0.1 (±0.7)	0.4 (±0.7)	0.1 (±0.7)	0.2 (±0.7)
24	798,189	596,939	532,450 (±6,204)	12.8 (±0.5)	10.4 (±0.6)	0.3 (±0.5)	0.0 (±0.5)	73.4 (±0.4)	0.6 (±0.5)	1.3 (±0.4)	0.2 (±0.5)	0.5 (±0.5)	0.5 (±0.5)	0.3 (±0.5)	0.2 (±0.5)
25	815,771	610,120	525,160 (±5,572)	22.9 (±0.6)	3.7 (±0.4)	0.1 (±0.4)	0.0 (±0.4)	70.2 (±0.5)	0.4 (±0.4)	1.6 (±0.4)	0.1 (±0.4)	0.5 (±0.4)	0.5 (±0.4)	0.2 (±0.4)	0.2 (±0.4)
26	802,046	589,522	499,425 (±6,723)	60.9 (±0.7)	6.9 (±0.6)	0.1 (±0.6)	0.1 (±0.6)	29.4 (±0.7)	0.5 (±0.6)	1.3 (±0.5)	0.1 (±0.6)	0.2 (±0.6)	0.2 (±0.6)	0.2 (±0.6)	0.1 (±0.6)
27	786,946	524,120	358,205 (±5,261)	79.8 (±0.7)	0.7 (±0.7)	0.0 (±0.7)	0.1 (±0.7)	18.7 (±0.6)	0.2 (±0.7)	0.4 (±0.7)	0.0 (±0.7)	0.1 (±0.7)	0.1 (±0.7)	0.0 (±0.7)	0.0 (±0.7)
28	778,341	586,992	531,960 (±5,853)	26.7 (±0.6)	6.0 (±0.5)	0.2 (±0.6)	0.0 (±0.6)	65.5 (±0.4)	0.4 (±0.6)	0.5 (±0.6)	0.0 (±0.6)	0.5 (±0.6)	0.5 (±0.6)	0.1 (±0.6)	0.1 (±0.6)
29	816,681	571,426	404,414 (±5,172)	74.5 (±0.6)	3.2 (±0.6)	0.1 (±0.7)	0.0 (±0.7)	20.2 (±0.5)	0.4 (±0.6)	1.0 (±0.6)	0.1 (±0.7)	0.3 (±0.6)	0.3 (±0.6)	0.1 (±0.6)	0.1 (±0.7)
30	829,574	623,474	554,555 (±6,060)	7.6 (±0.4)	5.3 (±0.5)	0.1 (±0.5)	0.1 (±0.5)	84.5 (±0.3)	0.7 (±0.4)	0.7 (±0.4)	0.0 (±0.5)	0.8 (±0.4)	0.8 (±0.4)	0.1 (±0.5)	0.1 (±0.5)
31	793,600	573,847	489,810 (±5,158)	25.1 (±0.6)	4.8 (±0.6)	0.1 (±0.7)	0.1 (±0.7)	67.7 (±0.5)	0.5 (±0.6)	0.8 (±0.6)	0.1 (±0.7)	0.7 (±0.6)	0.7 (±0.6)	0.0 (±0.7)	0.0 (±0.7)

The American Community Survey provided estimated citizen voting age population (CVAP) data at the block group level in a Special Tabulation. All block groups with more than 50% of the population in a district are included in the analysis. The percent for each CVAP population category is that group's CVAP divided by the CVAP total. Numbers in parentheses are margins of error at 90% confidence level. Black = Non-Hispanic Black

# EXHIBIT C



American Community Survey Special Tabulation  
Using Census and American Community Survey Data  
SENATE DISTRICTS - PLANS172

District	2010 Census		Special Tabulation of Citizen Voting Age Population (CVAP) from the 2006-2010 American Community Survey with Margins of Error												
	Total	VAP	Hispanic CVAP		Citizen Voting Age Population (CVAP)					Not Hispanic or Latino					
			CVAP	% Hispanic	% Black Alone	% Black + American Indian	% White Alone	% Indian Alone	% Asian Alone	% Native Hawaiian Alone	% Indian + White	% Asian + White	% Remainder 2 or More		
1	819,976	616,458	568,780 (±6,298)	4.7 (±0.4)	17.8 (±0.6)	0.1 (±0.5)	0.1 (±0.5)	75.5 (±0.4)	0.5 (±0.5)	0.4 (±0.5)	0.1 (±0.5)	0.5 (±0.5)	0.1 (±0.5)	0.1 (±0.5)	0.1 (±0.5)
2	808,524	582,997	502,380 (±5,525)	12.2 (±0.5)	12.7 (±0.6)	0.1 (±0.6)	0.1 (±0.6)	71.7 (±0.5)	0.4 (±0.5)	1.8 (±0.5)	0.1 (±0.6)	0.4 (±0.5)	0.6 (±0.5)	0.1 (±0.6)	0.1 (±0.6)
3	843,567	641,369	597,775 (±6,456)	5.8 (±0.4)	13.0 (±0.5)	0.1 (±0.5)	0.1 (±0.5)	79.7 (±0.4)	0.4 (±0.5)	0.4 (±0.5)	0.1 (±0.5)	0.4 (±0.5)	0.5 (±0.4)	0.1 (±0.5)	0.0 (±0.5)
4	815,995	597,765	521,980 (±5,943)	9.8 (±0.4)	14.9 (±0.6)	0.1 (±0.5)	0.0 (±0.5)	72.5 (±0.4)	0.3 (±0.5)	1.6 (±0.4)	0.1 (±0.5)	0.3 (±0.5)	0.5 (±0.4)	0.2 (±0.5)	0.1 (±0.5)
5	827,039	620,718	540,030 (±6,475)	14.1 (±0.5)	10.6 (±0.5)	0.1 (±0.5)	0.1 (±0.5)	72.0 (±0.5)	0.3 (±0.5)	2.0 (±0.5)	0.0 (±0.5)	0.4 (±0.5)	0.4 (±0.5)	0.2 (±0.5)	0.1 (±0.5)
6	812,881	551,137	367,345 (±5,649)	54.6 (±0.9)	17.2 (±0.8)	0.1 (±0.7)	0.0 (±0.8)	25.0 (±0.7)	0.3 (±0.7)	2.4 (±0.7)	0.0 (±0.8)	0.3 (±0.7)	0.3 (±0.7)	0.1 (±0.7)	0.1 (±0.7)
7	809,277	572,446	460,655 (±5,193)	16.0 (±0.6)	11.8 (±0.6)	0.1 (±0.5)	0.0 (±0.5)	65.0 (±0.5)	0.3 (±0.4)	6.1 (±0.4)	0.1 (±0.5)	0.3 (±0.4)	0.3 (±0.4)	0.2 (±0.4)	0.1 (±0.4)
8	794,900	572,635	466,925 (±4,858)	8.7 (±0.4)	9.7 (±0.6)	0.1 (±0.6)	0.1 (±0.6)	71.7 (±0.5)	0.4 (±0.6)	8.3 (±0.5)	0.3 (±0.5)	0.4 (±0.6)	0.3 (±0.6)	0.3 (±0.6)	0.1 (±0.6)
9	815,389	580,100	466,660 (±5,253)	17.1 (±0.6)	11.8 (±0.6)	0.1 (±0.6)	0.1 (±0.6)	65.1 (±0.5)	0.5 (±0.6)	4.1 (±0.5)	0.2 (±0.6)	0.5 (±0.6)	0.5 (±0.6)	0.3 (±0.6)	0.1 (±0.6)
10	834,267	602,461	505,950 (±5,460)	15.5 (±0.5)	18.6 (±0.6)	0.1 (±0.6)	0.1 (±0.6)	61.7 (±0.5)	0.3 (±0.5)	2.8 (±0.5)	0.1 (±0.6)	0.4 (±0.5)	0.4 (±0.5)	0.2 (±0.6)	0.1 (±0.6)
11	791,770	582,677	514,070 (±5,585)	17.5 (±0.6)	11.2 (±0.5)	0.1 (±0.5)	0.0 (±0.5)	65.7 (±0.5)	0.3 (±0.5)	4.2 (±0.5)	0.1 (±0.5)	0.5 (±0.5)	0.5 (±0.5)	0.3 (±0.5)	0.1 (±0.5)
12	818,893	588,816	499,190 (±5,364)	11.1 (±0.5)	7.3 (±0.5)	0.2 (±0.5)	0.1 (±0.6)	76.1 (±0.5)	0.4 (±0.5)	3.6 (±0.5)	0.1 (±0.6)	0.6 (±0.5)	0.6 (±0.5)	0.2 (±0.5)	0.1 (±0.5)
13	808,680	590,736	408,940 (±5,936)	16.7 (±0.7)	59.0 (±0.8)	0.1 (±0.7)	0.1 (±0.7)	17.3 (±0.6)	0.2 (±0.7)	6.2 (±0.6)	0.0 (±0.7)	0.2 (±0.7)	0.1 (±0.7)	0.1 (±0.7)	0.1 (±0.7)
14	834,750	640,349	530,150 (±6,170)	18.0 (±0.5)	9.7 (±0.5)	0.2 (±0.5)	0.1 (±0.5)	66.3 (±0.5)	0.3 (±0.5)	4.4 (±0.4)	0.0 (±0.5)	0.5 (±0.5)	0.5 (±0.5)	0.4 (±0.5)	0.1 (±0.5)
15	793,108	574,255	440,025 (±5,607)	24.1 (±0.7)	27.7 (±0.7)	0.1 (±0.6)	0.1 (±0.6)	42.5 (±0.6)	0.2 (±0.6)	4.7 (±0.5)	0.1 (±0.6)	0.2 (±0.6)	0.2 (±0.6)	0.1 (±0.6)	0.1 (±0.6)
16	816,670	614,614	477,110 (±5,110)	13.9 (±0.5)	11.7 (±0.6)	0.1 (±0.6)	0.3 (±0.7)	67.2 (±0.4)	0.3 (±0.6)	5.6 (±0.5)	0.1 (±0.7)	0.5 (±0.6)	0.5 (±0.6)	0.2 (±0.6)	0.2 (±0.6)
17	804,162	605,764	497,625 (±5,462)	14.2 (±0.5)	12.7 (±0.6)	0.1 (±0.5)	0.0 (±0.6)	61.7 (±0.5)	0.3 (±0.5)	10.4 (±0.5)	0.0 (±0.6)	0.3 (±0.5)	0.3 (±0.5)	0.2 (±0.5)	0.1 (±0.5)
18	809,726	587,890	505,215 (±5,530)	21.2 (±0.6)	12.6 (±0.6)	0.1 (±0.5)	0.1 (±0.5)	61.2 (±0.5)	0.2 (±0.5)	4.0 (±0.5)	0.0 (±0.5)	0.4 (±0.5)	0.4 (±0.5)	0.1 (±0.5)	0.1 (±0.5)
19	800,501	566,604	482,355 (±6,227)	59.4 (±0.8)	7.2 (±0.5)	0.2 (±0.6)	0.0 (±0.6)	31.1 (±0.6)	0.3 (±0.6)	1.1 (±0.5)	0.1 (±0.6)	0.3 (±0.6)	0.3 (±0.6)	0.2 (±0.6)	0.1 (±0.6)
20	833,339	577,960	461,350 (±6,414)	69.0 (±0.7)	2.4 (±0.5)	0.0 (±0.6)	0.0 (±0.6)	27.0 (±0.6)	0.2 (±0.6)	1.0 (±0.5)	0.0 (±0.6)	0.2 (±0.6)	0.2 (±0.6)	0.1 (±0.6)	0.0 (±0.6)
21	807,460	567,099	445,450 (±6,051)	60.9 (±0.8)	4.6 (±0.6)	0.1 (±0.6)	0.0 (±0.6)	32.9 (±0.6)	0.3 (±0.6)	0.7 (±0.6)	0.0 (±0.6)	0.3 (±0.6)	0.3 (±0.6)	0.1 (±0.6)	0.0 (±0.6)
22	809,840	592,255	530,905 (±5,562)	11.9 (±0.5)	11.4 (±0.5)	0.1 (±0.5)	0.0 (±0.5)	73.7 (±0.4)	0.5 (±0.5)	1.7 (±0.5)	0.0 (±0.5)	0.4 (±0.5)	0.4 (±0.5)	0.1 (±0.5)	0.1 (±0.5)
23	813,699	576,192	436,725 (±5,634)	22.7 (±0.7)	49.9 (±0.8)	0.2 (±0.7)	0.3 (±0.7)	24.7 (±0.6)	0.2 (±0.6)	1.3 (±0.6)	0.0 (±0.7)	0.4 (±0.6)	0.4 (±0.6)	0.1 (±0.7)	0.2 (±0.7)
24	798,189	596,939	551,740 (±6,272)	13.1 (±0.5)	10.3 (±0.5)	0.3 (±0.5)	0.0 (±0.5)	73.0 (±0.4)	0.4 (±0.5)	1.5 (±0.4)	0.3 (±0.5)	0.5 (±0.5)	0.5 (±0.5)	0.3 (±0.5)	0.2 (±0.5)
25	815,771	610,120	550,160 (±5,317)	23.8 (±0.6)	3.7 (±0.4)	0.1 (±0.5)	0.0 (±0.5)	69.2 (±0.5)	0.3 (±0.5)	1.8 (±0.4)	0.1 (±0.5)	0.4 (±0.4)	0.4 (±0.4)	0.3 (±0.4)	0.2 (±0.5)
26	802,046	589,522	508,680 (±6,403)	61.2 (±0.7)	7.5 (±0.5)	0.2 (±0.6)	0.1 (±0.6)	28.7 (±0.6)	0.3 (±0.5)	1.5 (±0.5)	0.1 (±0.6)	0.2 (±0.6)	0.2 (±0.6)	0.3 (±0.6)	0.1 (±0.6)
27	786,946	524,120	376,495 (±5,630)	81.3 (±0.7)	0.6 (±0.7)	0.0 (±0.7)	0.0 (±0.7)	17.4 (±0.6)	0.1 (±0.7)	0.4 (±0.6)	0.0 (±0.7)	0.1 (±0.7)	0.1 (±0.7)	0.0 (±0.7)	0.0 (±0.7)
28	778,341	586,992	546,790 (±5,686)	26.8 (±0.6)	5.9 (±0.5)	0.2 (±0.6)	0.1 (±0.6)	65.5 (±0.4)	0.4 (±0.5)	0.7 (±0.5)	0.0 (±0.6)	0.4 (±0.5)	0.4 (±0.5)	0.1 (±0.6)	0.1 (±0.6)
29	816,681	571,426	434,670 (±5,470)	74.9 (±0.6)	3.3 (±0.6)	0.1 (±0.7)	0.0 (±0.7)	19.8 (±0.5)	0.3 (±0.6)	0.9 (±0.6)	0.1 (±0.7)	0.2 (±0.6)	0.2 (±0.6)	0.2 (±0.6)	0.1 (±0.7)
30	829,574	623,474	572,300 (±5,806)	7.9 (±0.4)	5.2 (±0.5)	0.1 (±0.5)	0.1 (±0.5)	84.3 (±0.3)	0.7 (±0.4)	0.8 (±0.5)	0.0 (±0.5)	0.7 (±0.4)	0.7 (±0.4)	0.1 (±0.5)	0.1 (±0.5)
31	793,600	573,847	506,190 (±5,260)	25.5 (±0.6)	4.9 (±0.5)	0.2 (±0.6)	0.1 (±0.6)	67.3 (±0.4)	0.5 (±0.5)	0.8 (±0.6)	0.1 (±0.6)	0.6 (±0.5)	0.6 (±0.5)	0.1 (±0.6)	0.0 (±0.6)

The American Community Survey provided estimated citizen voting age population (CVAP) data at the block group level in a Special Tabulation. All block groups with more than 50% of the population in a district are included in the analysis. The percent for each CVAP population category is that group's CVAP divided by the CVAP total. Numbers in parentheses are margins of error at 90% confidence level. Black = Non-Hispanic Black

# EXHIBIT D

American Community Survey Special Tabulation  
Using Census and American Community Survey Data  
SENATE DISTRICTS - PLANS172

District	2010 Census		Special Tabulation of Citizen Voting Age Population (CVAP) from the 2007-2011 American Community Survey with Margins of Error												
	Total	VAP	Hispanic CVAP		Citizen Voting Age Population (CVAP)					Not Hispanic or Latino					
			CVAP	% Hispanic	% Black Alone	% Black + American Indian	% White Alone	% Indian Alone	% Asian Alone	% Native Hawaiian Alone	% Indian + White	% Asian + White	% Remainder 2 or More		
1	819,976	616,458	573,895 (+5,779)	5.2 (+0.3)	17.9 (+0.5)	0.1 (+0.4)	0.1 (+0.4)	75.0 (+0.4)	0.5 (+0.4)	0.5 (+0.4)	0.1 (+0.4)	0.5 (+0.4)	0.1 (+0.4)	0.1 (+0.4)	0.1 (+0.4)
2	808,524	582,997	509,310 (+5,562)	13.0 (+0.5)	12.9 (+0.5)	0.2 (+0.4)	0.1 (+0.4)	70.5 (+0.5)	0.4 (+0.4)	0.4 (+0.4)	0.1 (+0.4)	0.4 (+0.4)	0.6 (+0.4)	0.1 (+0.4)	0.1 (+0.4)
3	843,567	641,369	603,385 (+6,605)	6.3 (+0.4)	12.9 (+0.5)	0.1 (+0.4)	0.0 (+0.4)	79.3 (+0.4)	0.4 (+0.3)	0.4 (+0.3)	0.0 (+0.4)	0.4 (+0.3)	0.5 (+0.3)	0.1 (+0.4)	0.0 (+0.4)
4	815,995	597,765	533,010 (+5,938)	10.2 (+0.4)	14.9 (+0.5)	0.1 (+0.4)	0.1 (+0.4)	71.9 (+0.5)	0.3 (+0.3)	1.7 (+0.3)	0.1 (+0.4)	0.1 (+0.4)	0.5 (+0.3)	0.2 (+0.4)	0.1 (+0.4)
5	827,039	620,718	556,490 (+6,715)	14.6 (+0.5)	10.6 (+0.5)	0.1 (+0.4)	0.1 (+0.4)	71.5 (+0.4)	0.3 (+0.4)	2.1 (+0.4)	0.0 (+0.4)	0.4 (+0.3)	0.4 (+0.3)	0.2 (+0.4)	0.1 (+0.4)
6	812,881	551,137	372,420 (+5,681)	56.3 (+0.9)	16.9 (+0.7)	0.1 (+0.5)	0.0 (+0.6)	23.8 (+0.6)	0.3 (+0.5)	2.2 (+0.5)	0.0 (+0.6)	0.0 (+0.6)	0.2 (+0.5)	0.1 (+0.5)	0.0 (+0.5)
7	809,277	572,446	475,440 (+5,526)	16.8 (+0.6)	12.4 (+0.6)	0.1 (+0.3)	0.0 (+0.3)	63.4 (+0.5)	0.2 (+0.3)	6.3 (+0.4)	0.0 (+0.3)	0.0 (+0.3)	0.3 (+0.3)	0.2 (+0.3)	0.1 (+0.3)
8	794,900	572,635	481,570 (+5,265)	9.0 (+0.5)	9.8 (+0.5)	0.2 (+0.4)	0.1 (+0.4)	71.0 (+0.5)	0.4 (+0.4)	8.5 (+0.4)	0.1 (+0.4)	0.4 (+0.4)	0.4 (+0.4)	0.3 (+0.4)	0.1 (+0.4)
9	815,389	580,100	475,495 (+5,392)	18.0 (+0.6)	11.8 (+0.5)	0.2 (+0.4)	0.1 (+0.5)	64.0 (+0.5)	0.4 (+0.4)	4.3 (+0.4)	0.2 (+0.5)	0.2 (+0.5)	0.4 (+0.4)	0.3 (+0.4)	0.1 (+0.4)
10	834,267	602,461	514,760 (+5,371)	15.7 (+0.5)	19.1 (+0.6)	0.2 (+0.4)	0.1 (+0.4)	60.7 (+0.5)	0.3 (+0.4)	3.0 (+0.4)	0.1 (+0.4)	0.1 (+0.4)	0.4 (+0.4)	0.2 (+0.4)	0.1 (+0.4)
11	791,770	582,677	524,120 (+5,727)	18.1 (+0.6)	11.2 (+0.5)	0.1 (+0.4)	0.0 (+0.4)	64.8 (+0.5)	0.3 (+0.4)	4.5 (+0.4)	0.0 (+0.4)	0.0 (+0.4)	0.5 (+0.3)	0.2 (+0.4)	0.1 (+0.4)
12	818,893	588,816	517,625 (+5,598)	11.5 (+0.5)	7.4 (+0.4)	0.2 (+0.4)	0.1 (+0.4)	75.4 (+0.5)	0.5 (+0.4)	3.8 (+0.4)	0.1 (+0.4)	0.1 (+0.4)	0.7 (+0.3)	0.2 (+0.4)	0.2 (+0.4)
13	808,680	590,736	414,000 (+5,797)	17.1 (+0.6)	58.2 (+0.8)	0.2 (+0.5)	0.1 (+0.5)	17.6 (+0.6)	0.2 (+0.5)	6.2 (+0.5)	0.0 (+0.5)	0.0 (+0.5)	0.1 (+0.5)	0.1 (+0.5)	0.1 (+0.5)
14	834,750	640,349	543,255 (+5,992)	18.1 (+0.5)	9.8 (+0.5)	0.2 (+0.4)	0.1 (+0.4)	65.9 (+0.5)	0.3 (+0.4)	4.5 (+0.4)	0.1 (+0.4)	0.1 (+0.4)	0.5 (+0.3)	0.4 (+0.3)	0.1 (+0.4)
15	793,108	574,255	452,055 (+5,673)	24.4 (+0.7)	28.1 (+0.7)	0.2 (+0.4)	0.1 (+0.4)	41.3 (+0.6)	0.2 (+0.4)	5.0 (+0.4)	0.2 (+0.4)	0.2 (+0.4)	0.2 (+0.4)	0.1 (+0.4)	0.2 (+0.4)
16	816,670	614,614	483,810 (+5,229)	14.4 (+0.5)	11.8 (+0.5)	0.2 (+0.5)	0.4 (+0.5)	66.2 (+0.4)	0.3 (+0.4)	5.7 (+0.4)	0.1 (+0.5)	0.1 (+0.5)	0.5 (+0.4)	0.3 (+0.5)	0.2 (+0.5)
17	804,162	605,764	507,530 (+5,737)	15.2 (+0.5)	12.9 (+0.6)	0.1 (+0.4)	0.0 (+0.4)	60.5 (+0.5)	0.3 (+0.4)	10.3 (+0.5)	0.0 (+0.4)	0.3 (+0.4)	0.3 (+0.4)	0.3 (+0.4)	0.1 (+0.4)
18	809,726	587,890	518,570 (+5,664)	21.5 (+0.6)	12.7 (+0.5)	0.1 (+0.4)	0.1 (+0.4)	60.5 (+0.5)	0.1 (+0.4)	4.3 (+0.5)	0.0 (+0.4)	0.0 (+0.4)	0.4 (+0.4)	0.2 (+0.4)	0.1 (+0.4)
19	800,501	566,604	497,880 (+6,185)	60.0 (+0.8)	7.0 (+0.4)	0.1 (+0.4)	0.0 (+0.4)	30.6 (+0.5)	0.3 (+0.4)	1.0 (+0.4)	0.1 (+0.4)	0.1 (+0.4)	0.3 (+0.4)	0.2 (+0.4)	0.2 (+0.4)
20	833,339	577,960	469,725 (+6,264)	69.7 (+0.8)	2.3 (+0.4)	0.0 (+0.4)	0.0 (+0.4)	26.4 (+0.5)	0.2 (+0.4)	1.0 (+0.4)	0.0 (+0.4)	0.0 (+0.4)	0.2 (+0.4)	0.1 (+0.4)	0.1 (+0.4)
21	807,460	567,099	452,990 (+5,897)	61.3 (+0.8)	4.6 (+0.4)	0.1 (+0.5)	0.0 (+0.5)	32.5 (+0.6)	0.2 (+0.4)	0.8 (+0.4)	0.1 (+0.5)	0.2 (+0.4)	0.2 (+0.4)	0.1 (+0.5)	0.0 (+0.5)
22	809,840	592,255	540,785 (+5,634)	12.6 (+0.5)	11.5 (+0.5)	0.1 (+0.4)	0.0 (+0.4)	72.9 (+0.4)	0.4 (+0.4)	1.8 (+0.4)	0.0 (+0.4)	0.4 (+0.4)	0.4 (+0.4)	0.1 (+0.4)	0.1 (+0.4)
23	813,699	576,192	446,105 (+5,770)	23.3 (+0.7)	49.7 (+0.8)	0.2 (+0.5)	0.3 (+0.5)	24.1 (+0.5)	0.3 (+0.5)	1.5 (+0.5)	0.0 (+0.5)	0.0 (+0.5)	0.4 (+0.5)	0.1 (+0.5)	0.2 (+0.5)
24	798,189	596,939	561,460 (+6,099)	13.5 (+0.5)	10.3 (+0.5)	0.3 (+0.4)	0.1 (+0.4)	72.5 (+0.5)	0.4 (+0.4)	1.4 (+0.3)	0.3 (+0.4)	0.3 (+0.4)	0.5 (+0.3)	0.4 (+0.4)	0.2 (+0.4)
25	815,771	610,120	567,655 (+5,730)	24.4 (+0.6)	3.8 (+0.3)	0.1 (+0.3)	0.0 (+0.4)	68.4 (+0.5)	0.3 (+0.3)	2.0 (+0.3)	0.1 (+0.4)	0.1 (+0.4)	0.4 (+0.3)	0.3 (+0.3)	0.2 (+0.3)
26	802,046	589,522	514,260 (+6,092)	61.2 (+0.7)	7.6 (+0.5)	0.2 (+0.4)	0.1 (+0.4)	28.5 (+0.5)	0.2 (+0.4)	1.4 (+0.4)	0.1 (+0.4)	0.1 (+0.4)	0.2 (+0.4)	0.3 (+0.4)	0.2 (+0.4)
27	786,946	524,120	384,910 (+5,869)	81.6 (+0.7)	0.7 (+0.5)	0.0 (+0.5)	0.0 (+0.5)	16.8 (+0.5)	0.1 (+0.5)	0.5 (+0.5)	0.0 (+0.5)	0.0 (+0.5)	0.1 (+0.5)	0.0 (+0.5)	0.0 (+0.5)
28	778,341	586,992	549,895 (+5,926)	27.3 (+0.6)	5.8 (+0.4)	0.2 (+0.4)	0.1 (+0.4)	64.9 (+0.4)	0.3 (+0.4)	0.7 (+0.4)	0.0 (+0.4)	0.0 (+0.4)	0.4 (+0.4)	0.1 (+0.4)	0.1 (+0.4)
29	816,681	571,426	446,560 (+5,668)	75.1 (+0.7)	3.4 (+0.4)	0.1 (+0.5)	0.0 (+0.5)	19.6 (+0.5)	0.3 (+0.5)	0.9 (+0.4)	0.1 (+0.5)	0.2 (+0.5)	0.2 (+0.5)	0.2 (+0.5)	0.1 (+0.5)
30	829,574	623,474	581,420 (+5,923)	8.2 (+0.4)	5.3 (+0.4)	0.1 (+0.4)	0.1 (+0.4)	83.7 (+0.3)	0.8 (+0.3)	0.9 (+0.3)	0.1 (+0.4)	0.1 (+0.4)	0.6 (+0.3)	0.2 (+0.4)	0.1 (+0.4)
31	793,600	573,847	511,195 (+5,337)	26.2 (+0.6)	4.9 (+0.4)	0.2 (+0.5)	0.1 (+0.5)	66.6 (+0.5)	0.5 (+0.4)	0.9 (+0.4)	0.1 (+0.5)	0.1 (+0.5)	0.6 (+0.4)	0.1 (+0.5)	0.1 (+0.5)

The American Community Survey provided estimated citizen voting age population (CVAP) data at the block group level in a Special Tabulation. All block groups with more than 50% of the population in a district are included in the analysis. The percent for each CVAP population category is that group's CVAP divided by the CVAP total. Numbers in parentheses are margins of error at 90% confidence level.

# EXHIBIT E

Population and Voter Data  
with Voter Registration Comparison  
SENATE DISTRICTS - PLANS172

District	Deviation	Population										Total Voter Registration				Non-Suspense Voter Registration			
		Total	%A	%B	%H	%BH	%O	General Election	Turnout	Total	SSVR	TOVR	Total	SSVR	TOVR	Total	SSVR	TOVR	
1	8.829 1.09%	819,976	66.8	18.2	13.2	31.1	2.1	2010	199,566	489,990	3.5 %	40.7 %	425,248	3.4 %	46.9 %	437,044	3.2 %	70.8 %	
		VAP: 616,458	70.5	17.2	10.5	27.6	2.0	2008	309,570	513,259	3.3 %	60.3 %							
2	-2,623 -0.32%	808,524	57.1	13.3	26.6	39.4	3.5	2010	153,440	417,295	9.3 %	36.8 %	363,147	9.3 %	42.3 %	372,280	9.1 %	70.9 %	
		VAP: 582,997	62.4	12.1	22.3	34.1	3.5	2008	263,783	431,826	9.1 %	61.1 %							
3	32,420 4.00%	843,567	72.5	13.0	12.9	25.7	1.8	2010	202,590	497,278	4.3 %	40.7 %	435,170	4.3 %	46.6 %	448,547	4.1 %	67.0 %	
		VAP: 641,369	75.3	12.5	10.6	23.0	1.7	2008	300,355	512,687	4.1 %	58.6 %							
4	4,848 0.60%	815,995	62.8	14.5	19.3	33.4	3.8	2010	202,941	466,066	7.3 %	43.5 %	406,880	7.3 %	49.9 %	409,923	7.2 %	71.2 %	
		VAP: 597,765	66.0	14.0	16.5	30.3	3.7	2008	291,807	468,949	7.1 %	62.2 %							
5	15,892 1.96%	827,039	62.4	11.0	21.9	32.4	5.2	2010	188,228	439,147	10.5 %	42.9 %	371,664	10.2 %	50.6 %	382,993	10.4 %	75.0 %	
		VAP: 620,718	66.1	10.3	18.9	28.9	5.1	2008	287,168	442,979	10.6 %	64.8 %							
6	1,734 0.21%	812,881	12.4	12.3	73.8	85.3	2.3	2010	83,615	290,230	48.8 %	28.8 %	252,087	50.2 %	33.2 %	256,879	50.5 %	52.4 %	
		VAP: 551,137	15.5	12.5	70.0	81.9	2.6	2008	134,682	297,692	46.9 %	45.2 %							
7	-1,870 -0.23%	809,277	51.8	13.3	26.3	38.9	9.3	2010	196,805	422,591	12.4 %	46.6 %	373,295	12.3 %	52.7 %	366,697	12.2 %	76.0 %	
		VAP: 572,446	55.6	12.1	23.4	35.0	9.3	2008	278,731	414,140	11.4 %	67.3 %							
8	-16,247 -2.00%	794,900	58.8	10.9	16.2	26.7	14.4	2010	161,434	431,040	6.0 %	37.5 %	373,002	5.8 %	43.3 %	377,198	5.9 %	80.6 %	
		VAP: 572,635	62.0	10.1	14.2	24.1	13.9	2008	304,060	437,259	6.0 %	69.5 %							
9	4,242 0.52%	815,389	48.1	12.5	32.7	44.6	7.3	2010	133,663	387,954	13.2 %	34.5 %	317,329	13.1 %	42.1 %	338,264	13.0 %	74.3 %	
		VAP: 580,100	53.0	11.6	28.4	39.6	7.4	2008	251,314	406,064	13.1 %	61.9 %							
10	23,120 2.85%	834,267	47.6	19.2	28.9	47.5	4.9	2010	172,661	443,388	12.1 %	38.9 %	376,946	12.3 %	45.8 %	396,787	12.1 %	76.7 %	
		VAP: 602,461	52.7	17.9	24.8	42.4	4.9	2008	304,396	458,509	12.1 %	66.4 %							
11	-19,377 -2.39%	791,770	55.8	11.6	26.1	37.2	7.0	2010	194,160	454,059	14.6 %	42.8 %	386,958	14.5 %	50.2 %	398,955	14.2 %	70.0 %	
		VAP: 582,677	59.6	10.9	22.9	33.5	6.9	2008	279,129	466,493	14.0 %	59.8 %							
12	7,746 0.95%	818,893	64.5	8.7	19.8	28.1	7.5	2010	163,704	445,790	8.3 %	36.7 %	373,606	8.1 %	43.8 %	383,165	8.2 %	77.7 %	
		VAP: 588,816	68.0	8.0	17.0	24.8	7.2	2008	297,692	447,179	8.3 %	66.6 %							
13	-2,467 -0.30%	808,680	10.5	44.0	38.2	81.0	8.5	2010	133,543	373,008	12.4 %	35.8 %	311,402	12.7 %	42.9 %	331,031	12.5 %	65.8 %	
		VAP: 590,736	12.8	44.3	34.4	77.7	9.5	2008	217,895	385,612	11.6 %	56.5 %							
14	23,603 2.91%	834,750	52.8	10.3	30.0	39.6	7.6	2010	202,606	501,604	13.3 %	40.4 %	406,249	13.0 %	49.9 %	433,220	13.4 %	76.9 %	
		VAP: 640,349	57.3	9.4	26.0	35.0	7.7	2008	333,005	510,601	13.6 %	65.2 %							
15	-18,039 -2.22%	793,108	27.8	24.7	42.9	66.7	5.6	2010	143,657	364,994	18.8 %	39.4 %	312,287	18.9 %	46.0 %	316,347	18.9 %	68.7 %	
		VAP: 574,255	32.8	23.6	38.3	61.2	6.0	2008	217,294	367,501	17.7 %	59.1 %							
16	5,523 0.68%	816,670	48.3	11.8	30.0	41.3	10.4	2010	173,788	424,324	9.6 %	41.4 %	355,151	9.4 %	49.5 %	375,986	9.5 %	78.5 %	
		VAP: 614,614	53.0	11.1	25.8	36.6	10.4	2008	295,191	447,545	9.6 %	66.0 %							
17	-6,985 -0.86%	804,162	49.3	13.8	22.5	35.8	15.0	2010	209,934	452,535	11.2 %	46.4 %	389,637	10.9 %	53.9 %	398,933	10.9 %	75.7 %	
		VAP: 605,764	52.5	12.8	20.2	32.6	14.9	2008	301,910	457,545	10.6 %	66.0 %							
18	-1,421 -0.18%	809,726	50.6	12.8	30.1	42.2	7.2	2010	197,953	462,645	18.2 %	42.8 %	405,778	17.9 %	48.8 %	407,349	17.9 %	69.2 %	
		VAP: 587,890	55.0	12.0	26.5	38.2	6.8	2008	282,015	454,324	18.4 %	62.1 %							
19	-10,646 -1.31%	800,501	24.4	7.5	66.7	73.4	2.3	2010	127,672	411,724	54.5 %	31.0 %	355,699	55.3 %	35.9 %	358,102	55.3 %	59.2 %	
		VAP: 566,604	27.8	7.3	63.0	69.8	2.4	2008	211,988	417,328	54.7 %	50.8 %							
20	22,192 2.74%	833,339	18.6	2.4	77.5	79.4	2.0	2010	107,811	386,230	63.7 %	27.9 %	325,322	64.9 %	33.1 %	340,673	64.6 %	56.5 %	
		VAP: 577,960	22.1	2.3	73.8	75.8	2.1	2008	192,401	400,723	63.8 %	48.0 %							

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SSVR = Spanish surname voter registration

Population and Voter Data  
with Voter Registration Comparison

SENATE DISTRICTS - PLANS172

District	Deviation	Population						Total Voter Registration				Non-Suspense Voter Registration			
		Total	%A	%B	%H	%BH	%O	General Election	Turnout	Total	SSVR	TOVR	Total	SSVR	TOVR
21	-3,687 -0.45%	Total: 807,460 VAP: 567,099	22.9 26.9	3.9 4.0	72.3 67.9	75.7 71.5	1.4 1.6	2010 2008	118,551 198,901	400,931 405,670	58.3 % 58.3 %	29.6 % 49.0 %	343,708 358,282	60.0 % 59.9 %	34.5 % 55.5 %
22	-1,307 -0.16%	Total: 809,840 VAP: 592,255	63.1 67.6	12.4 11.3	21.5 18.0	33.5 29.0	3.4 3.3	2010 2008	180,192 284,074	451,261 463,645	9.8 % 9.7 %	39.9 % 61.3 %	393,379 402,841	9.7 % 9.6 %	45.8 % 70.5 %
23	2,552 0.31%	Total: 813,699 VAP: 576,192	14.8 18.7	40.4 40.9	43.5 38.7	83.2 79.1	2.0 2.2	2010 2008	132,486 238,636	391,521 410,171	18.1 % 17.9 %	33.8 % 58.2 %	336,170 353,283	18.9 % 18.3 %	39.4 % 67.5 %
24	-12,958 -1.60%	Total: 798,189 VAP: 596,939	65.3 69.8	12.7 10.9	19.0 16.0	30.7 26.4	3.9 3.8	2010 2008	178,111 287,721	459,872 475,070	9.9 % 9.9 %	38.7 % 60.6 %	378,879 397,337	9.4 % 9.4 %	47.0 % 72.4 %
25	4,624 0.57%	Total: 815,771 VAP: 610,120	61.7 65.2	5.0 4.5	29.6 26.5	34.1 30.7	4.3 4.1	2010 2008	238,958 355,389	525,777 521,632	17.8 % 17.7 %	45.4 % 68.1 %	448,818 450,467	17.4 % 17.5 %	53.2 % 78.9 %
26	-9,101 -1.12%	Total: 802,046 VAP: 589,522	21.2 24.8	8.1 7.6	68.4 64.8	75.5 71.7	3.3 3.5	2010 2008	117,909 221,971	406,523 428,679	54.0 % 54.7 %	29.0 % 51.8 %	331,902 353,876	54.9 % 55.6 %	35.5 % 62.7 %
27	-24,201 -2.98%	Total: 786,946 VAP: 524,120	9.6 12.4	0.8 0.8	89.1 86.2	89.5 86.7	0.8 1.0	2010 2008	84,385 147,282	332,655 337,884	77.4 % 78.1 %	25.4 % 43.6 %	294,491 299,517	78.4 % 79.1 %	28.7 % 49.2 %
28	-32,806 -4.04%	Total: 778,341 VAP: 586,992	57.1 61.6	6.5 5.9	34.9 30.5	40.8 36.2	2.1 2.2	2010 2008	161,247 269,335	441,104 465,637	24.2 % 24.1 %	36.6 % 57.8 %	381,530 396,772	23.9 % 23.6 %	42.3 % 67.9 %
29	5,534 0.68%	Total: 816,681 VAP: 571,426	13.3 15.6	3.6 3.4	82.0 79.6	84.9 82.5	1.8 1.9	2010 2008	92,281 190,351	389,687 399,178	67.8 % 68.2 %	23.7 % 47.7 %	366,995 352,408	68.3 % 69.5 %	25.1 % 54.0 %
30	18,427 2.27%	Total: 829,574 VAP: 623,474	76.0 79.0	5.8 5.3	15.3 12.7	20.9 17.8	3.2 3.1	2010 2008	181,288 306,115	485,314 494,937	6.0 % 5.9 %	37.4 % 61.8 %	410,484 425,536	5.7 % 5.7 %	44.2 % 71.9 %
31	-17,547 -2.16%	Total: 793,600 VAP: 573,847	54.8 59.9	5.4 4.9	37.6 32.8	42.6 37.5	2.7 2.7	2010 2008	150,385 254,197	416,219 433,023	21.9 % 21.6 %	36.1 % 58.7 %	361,309 374,044	21.7 % 21.2 %	41.6 % 68.0 %

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