

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

Peter A. Morrison, Ph.D

EXHIBIT B

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

2010 Census		Special Tabulation of Citizen Voting Age Population (CVAP) from the 2005-2009 American Community Survey with Margins of Error														
District	Total	VAP	Hispanic CVAP		Not Hispanic or Latino Citizen Voting Age Population (CVAP)											
			CVAP	% Hispanic	% Black Alone	% Black + White	% Black + Indian	% White Alone	% American Indian Alone	% Asian Alone	% Native Hawaiian Alone	% American 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)	0.1 (±0.6)	76.0 (±0.4)	0.5 (±0.5)	0.4 (±0.5)	0.1 (±0.6)	0.1 (±0.6)	0.5 (±0.5)	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)	0.1 (±0.6)	73.0 (±0.5)	0.4 (±0.5)	1.6 (±0.5)	0.1 (±0.6)	0.1 (±0.6)	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)	0.1 (±0.5)	80.1 (±0.4)	0.4 (±0.5)	0.3 (±0.5)	0.1 (±0.5)	0.1 (±0.5)	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)	0.0 (±0.5)	73.7 (±0.4)	0.3 (±0.5)	1.4 (±0.4)	0.0 (±0.5)	0.1 (±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)	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)	0.0 (±0.7)	27.3 (±0.7)	0.3 (±0.7)	2.1 (±0.7)	0.0 (±0.7)	0.0 (±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)	0.1 (±0.4)	67.7 (±0.5)	0.3 (±0.4)	5.2 (±0.4)	0.1 (±0.4)	0.3 (±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 (±0.5)	0.1 (±0.5)	0.1 (±0.5)	73.9 (±0.5)	0.5 (±0.4)	7.2 (±0.4)	0.1 (±0.5)	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)	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)	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)	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)	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)	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)	0.1 (±0.5)	0.1 (±0.5)	67.4 (±0.5)	0.3 (±0.5)	3.7 (±0.4)	0.0 (±0.5)	0.0 (±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)	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 (±0.5)	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)	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)	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)	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)	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)	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)	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)	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)	0.2 (±0.7)	25.8 (±0.7)	0.3 (±0.7)	1.1 (±0.6)	0.1 (±0.7)	0.4 (±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)	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)	0.0 (±0.4)	70.2 (±0.5)	0.4 (±0.4)	1.6 (±0.3)	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)	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)	0.1 (±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)	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)	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)	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)	0.1 (±0.5)	84.5 (±0.3)	0.7 (±0.4)	0.7 (±0.5)	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)	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		Not Hispanic or Latino Citizen Voting Age Population (CVAP)							% Asian + White	% Remainder 2 or More		
			% Hispanic	CVAP	% Black Alone	% Black + White	% Black + Indian	% White Alone	% American Indian Alone	% Asian Alone	% Native Hawaiian Alone			% American Indian + White	
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)	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)
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)	0.1 (±0.6)	71.7 (±0.5)	0.4 (±0.5)	1.8 (±0.5)	0.1 (±0.6)	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)	0.1 (±0.5)	79.7 (±0.4)	0.4 (±0.5)	0.4 (±0.5)	0.1 (±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)	0.0 (±0.5)	72.5 (±0.4)	0.3 (±0.5)	1.6 (±0.4)	0.1 (±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)	0.1 (±0.5)	72.0 (±0.5)	0.3 (±0.5)	2.0 (±0.5)	0.0 (±0.5)	0.4 (±0.5)	0.2 (±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)	0.0 (±0.8)	25.0 (±0.7)	0.3 (±0.7)	2.4 (±0.7)	0.0 (±0.8)	0.3 (±0.7)	0.1 (±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)	0.0 (±0.5)	65.0 (±0.5)	0.3 (±0.4)	6.1 (±0.4)	0.1 (±0.5)	0.3 (±0.4)	0.2 (±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)	0.1 (±0.6)	71.7 (±0.5)	0.4 (±0.6)	8.3 (±0.5)	0.1 (±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)	0.1 (±0.6)	65.1 (±0.5)	0.5 (±0.6)	4.1 (±0.5)	0.2 (±0.6)	0.5 (±0.6)	0.3 (±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)	0.1 (±0.6)	61.7 (±0.5)	0.3 (±0.5)	2.8 (±0.5)	0.1 (±0.6)	0.4 (±0.5)	0.2 (±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)	0.0 (±0.5)	65.7 (±0.5)	0.3 (±0.5)	4.2 (±0.5)	0.1 (±0.5)	0.5 (±0.5)	0.3 (±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)	0.1 (±0.6)	76.1 (±0.5)	0.4 (±0.5)	3.6 (±0.5)	0.1 (±0.6)	0.6 (±0.5)	0.2 (±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)	0.1 (±0.7)	17.3 (±0.6)	0.2 (±0.7)	6.2 (±0.6)	0.0 (±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)	0.1 (±0.5)	66.3 (±0.5)	0.3 (±0.5)	4.4 (±0.4)	0.0 (±0.5)	0.5 (±0.5)	0.4 (±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)	0.1 (±0.6)	42.5 (±0.6)	0.2 (±0.6)	4.7 (±0.5)	0.1 (±0.6)	0.2 (±0.6)	0.1 (±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)	0.3 (±0.7)	67.2 (±0.4)	0.3 (±0.6)	5.6 (±0.5)	0.1 (±0.7)	0.5 (±0.6)	0.2 (±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 (±0.6)	0.0 (±0.6)	0.0 (±0.6)	61.7 (±0.5)	0.3 (±0.5)	10.4 (±0.5)	0.0 (±0.6)	0.3 (±0.5)	0.2 (±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)	0.1 (±0.5)	61.2 (±0.5)	0.2 (±0.5)	4.0 (±0.5)	0.0 (±0.5)	0.4 (±0.5)	0.1 (±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)	0.0 (±0.6)	31.1 (±0.6)	0.3 (±0.6)	1.1 (±0.5)	0.1 (±0.6)	0.3 (±0.5)	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)	0.0 (±0.6)	27.0 (±0.6)	0.2 (±0.6)	1.0 (±0.5)	0.0 (±0.6)	0.2 (±0.6)	0.1 (±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)	0.0 (±0.6)	32.9 (±0.6)	0.3 (±0.6)	0.7 (±0.6)	0.0 (±0.6)	0.3 (±0.6)	0.1 (±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)	0.0 (±0.5)	73.7 (±0.4)	0.5 (±0.5)	1.7 (±0.5)	0.0 (±0.5)	0.4 (±0.5)	0.1 (±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)	0.3 (±0.7)	24.7 (±0.6)	0.2 (±0.6)	1.3 (±0.6)	0.0 (±0.7)	0.4 (±0.6)	0.1 (±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)	0.0 (±0.5)	73.0 (±0.4)	0.4 (±0.5)	1.5 (±0.4)	0.3 (±0.5)	0.5 (±0.5)	0.3 (±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)	0.0 (±0.5)	69.2 (±0.5)	0.3 (±0.5)	1.8 (±0.4)	0.1 (±0.5)	0.4 (±0.4)	0.3 (±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)	0.1 (±0.6)	28.7 (±0.6)	0.3 (±0.5)	1.5 (±0.5)	0.1 (±0.6)	0.2 (±0.6)	0.3 (±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)	0.0 (±0.7)	17.4 (±0.6)	0.1 (±0.7)	0.4 (±0.6)	0.0 (±0.7)	0.1 (±0.7)	0.0 (±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)	0.1 (±0.6)	65.5 (±0.4)	0.4 (±0.5)	0.7 (±0.5)	0.0 (±0.6)	0.4 (±0.5)	0.1 (±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)	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)	0.1 (±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)	0.1 (±0.5)	84.3 (±0.3)	0.7 (±0.4)	0.8 (±0.5)	0.0 (±0.5)	0.7 (±0.4)	0.1 (±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)	0.1 (±0.6)	67.3 (±0.4)	0.5 (±0.5)	0.8 (±0.6)	0.1 (±0.6)	0.6 (±0.5)	0.1 (±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

2010 Census		Special Tabulation of Citizen Voting Age Population (CVAP) from the 2007-2011 American Community Survey with Margins of Error														
District	Total	VAP	Hispanic CVAP		Citizen Voting Age Population (CVAP)											
			CVAP	% Hispanic	% Black Alone	% Black + White	% Black + Indian	% White Alone	% American Indian Alone	% Asian Alone	% Native Hawaiian Alone	% American 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)	0.1 (±0.4)	75.0 (±0.4)	0.5 (±0.4)	0.5 (±0.4)	0.1 (±0.4)	0.1 (±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)	0.1 (±0.4)	70.5 (±0.5)	0.4 (±0.4)	2.0 (±0.4)	0.1 (±0.4)	0.1 (±0.4)	0.1 (±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)	0.0 (±0.4)	79.3 (±0.4)	0.4 (±0.3)	0.4 (±0.3)	0.0 (±0.4)	0.0 (±0.4)	0.1 (±0.4)	0.0 (±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)	0.1 (±0.4)	71.9 (±0.5)	0.3 (±0.3)	1.7 (±0.3)	0.1 (±0.4)	0.1 (±0.4)	0.2 (±0.4)	0.1 (±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)	0.1 (±0.4)	71.5 (±0.4)	0.3 (±0.4)	2.1 (±0.4)	0.0 (±0.4)	0.0 (±0.4)	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)	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)	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)	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)	0.1 (±0.5)	64.0 (±0.5)	0.4 (±0.4)	4.3 (±0.4)	0.2 (±0.5)	0.4 (±0.4)	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)	0.1 (±0.4)	60.7 (±0.5)	0.3 (±0.4)	3.0 (±0.4)	0.1 (±0.4)	0.4 (±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)	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)	0.1 (±0.4)	75.4 (±0.5)	0.5 (±0.4)	3.8 (±0.4)	0.1 (±0.4)	0.7 (±0.3)	0.2 (±0.4)	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)	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)	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)	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)	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)	0.0 (±0.4)	60.5 (±0.5)	0.3 (±0.4)	10.3 (±0.5)	0.0 (±0.4)	0.0 (±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)	0.1 (±0.4)	60.5 (±0.5)	0.1 (±0.4)	4.3 (±0.5)	0.0 (±0.4)	0.4 (±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)	0.0 (±0.4)	30.6 (±0.5)	0.3 (±0.4)	1.0 (±0.4)	0.1 (±0.4)	0.3 (±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)	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)	0.0 (±0.5)	32.5 (±0.6)	0.2 (±0.4)	0.8 (±0.4)	0.1 (±0.5)	0.1 (±0.5)	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)	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)	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)	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)	0.0 (±0.4)	68.4 (±0.5)	0.3 (±0.3)	2.0 (±0.3)	0.1 (±0.4)	0.4 (±0.3)	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)	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)	0.0 (±0.5)	16.8 (±0.5)	0.1 (±0.5)	0.5 (±0.5)	0.0 (±0.5)	0.1 (±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)	0.1 (±0.4)	64.9 (±0.4)	0.3 (±0.4)	0.7 (±0.4)	0.0 (±0.4)	0.4 (±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)	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)	0.1 (±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)	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)	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	TO/VR	Total	SSVR	TO/VR				
1	8,829 1.09%	819,976 616,458	66.8 70.5	18.2 17.2	13.2 10.5	31.1 27.6	2.1 2.0	2010 2008	199,566 309,570	489,990 513,259	3.5 % 3.3 %	40.7 % 60.3 %	425,248 437,044	3.4 % 3.2 %	46.9 % 70.8 %				
2	-2,623 -0.32%	808,524 582,997	57.1 62.4	13.3 12.1	26.6 22.3	39.4 34.1	3.5 3.5	2010 2008	153,440 263,783	417,295 431,826	9.3 % 9.1 %	36.8 % 61.1 %	363,147 372,280	9.3 % 9.1 %	42.3 % 70.9 %				
3	32,420 4.00%	843,567 641,369	72.5 75.3	13.0 12.5	12.9 10.6	25.7 23.0	1.8 1.7	2010 2008	202,590 300,355	497,278 512,687	4.3 % 4.1 %	40.7 % 58.6 %	435,170 448,547	4.3 % 4.1 %	46.6 % 67.0 %				
4	4,848 0.60%	815,995 597,765	62.8 66.0	14.5 14.0	19.3 16.5	33.4 30.3	3.8 3.7	2010 2008	202,941 291,807	466,066 468,949	7.3 % 7.1 %	43.5 % 62.2 %	406,880 409,923	7.3 % 7.2 %	49.9 % 71.2 %				
5	15,892 1.96%	827,039 620,718	62.4 66.1	11.0 10.3	21.9 18.9	32.4 28.9	5.2 5.1	2010 2008	188,228 287,168	439,147 442,979	10.5 % 10.6 %	42.9 % 64.8 %	371,664 382,993	10.2 % 10.4 %	50.6 % 75.0 %				
6	1,734 0.21%	812,881 551,137	12.4 15.5	12.3 12.5	73.8 70.0	85.3 81.9	2.3 2.6	2010 2008	83,615 134,682	290,230 297,692	48.8 % 46.9 %	28.8 % 45.2 %	252,087 256,879	50.2 % 50.5 %	33.2 % 52.4 %				
7	-1,870 -0.23%	809,277 572,446	51.8 55.6	13.3 12.1	26.3 23.4	38.9 35.0	9.3 9.3	2010 2008	196,805 278,731	422,591 414,140	12.4 % 11.4 %	46.6 % 67.3 %	373,295 366,697	12.3 % 12.2 %	52.7 % 76.0 %				
8	-16,247 -2.00%	794,900 572,635	58.8 62.0	10.9 10.1	16.2 14.2	26.7 24.1	14.4 13.9	2010 2008	161,434 304,060	431,040 437,259	6.0 % 6.0 %	37.5 % 69.5 %	373,002 377,198	5.8 % 5.9 %	43.3 % 80.6 %				
9	4,242 0.52%	815,389 580,100	48.1 53.0	12.5 11.6	32.7 28.4	44.6 39.6	7.3 7.4	2010 2008	133,663 251,314	387,954 406,064	13.2 % 13.1 %	34.5 % 61.9 %	317,329 338,264	13.1 % 13.0 %	42.1 % 74.3 %				
10	23,120 2.85%	834,267 602,461	47.6 52.7	19.2 17.9	28.9 24.8	47.5 42.4	4.9 4.9	2010 2008	172,661 304,396	443,388 458,509	12.1 % 12.1 %	38.9 % 66.4 %	376,946 396,787	12.3 % 12.1 %	45.8 % 76.7 %				
11	-19,377 -2.39%	791,770 582,677	55.8 59.6	11.6 10.9	26.1 22.9	37.2 33.5	7.0 6.9	2010 2008	194,160 279,129	454,059 466,493	14.6 % 14.0 %	42.8 % 59.8 %	386,958 398,955	14.5 % 14.2 %	50.2 % 70.0 %				
12	7,746 0.95%	818,893 588,816	64.5 68.0	8.7 8.0	19.8 17.0	28.1 24.8	7.5 7.2	2010 2008	163,704 297,692	445,790 447,179	8.3 % 8.3 %	36.7 % 66.6 %	373,606 383,165	8.1 % 8.2 %	43.8 % 77.7 %				
13	-2,467 -0.30%	808,680 590,736	10.5 12.8	44.0 44.3	38.2 34.4	81.0 77.7	8.5 9.5	2010 2008	133,543 217,895	373,008 385,612	12.4 % 11.6 %	35.8 % 56.5 %	311,402 331,031	12.7 % 12.5 %	42.9 % 65.8 %				
14	23,603 2.91%	834,750 640,349	52.8 57.3	10.3 9.4	30.0 26.0	39.6 35.0	7.6 7.7	2010 2008	202,606 333,005	501,604 510,601	13.3 % 13.6 %	40.4 % 65.2 %	406,249 433,220	13.0 % 13.4 %	49.9 % 76.9 %				
15	-18,039 -2.22%	793,108 574,255	27.8 32.8	24.7 23.6	42.9 38.3	66.7 61.2	5.6 6.0	2010 2008	143,657 217,294	364,994 367,501	18.8 % 17.7 %	39.4 % 59.1 %	312,287 316,347	18.9 % 18.9 %	46.0 % 68.7 %				
16	5,523 0.68%	816,670 614,614	48.3 53.0	11.8 11.1	30.0 25.8	41.3 36.6	10.4 10.4	2010 2008	175,788 295,191	424,324 447,545	9.6 % 9.6 %	41.4 % 66.0 %	355,151 375,986	9.4 % 9.5 %	49.5 % 78.5 %				
17	-6,985 -0.86%	804,162 605,764	49.3 52.5	13.8 12.8	22.5 20.2	35.8 32.6	15.0 14.9	2010 2008	209,934 301,916	452,535 457,545	11.2 % 10.6 %	46.4 % 66.0 %	389,637 398,933	10.9 % 10.9 %	53.9 % 75.7 %				
18	-1,421 -0.18%	809,726 587,890	50.6 55.0	12.8 12.0	30.1 26.5	42.2 38.2	7.2 6.8	2010 2008	197,953 282,015	462,645 454,324	18.2 % 18.4 %	42.8 % 62.1 %	405,778 407,349	17.9 % 17.9 %	48.8 % 69.2 %				
19	-10,646 -1.31%	800,501 566,604	24.4 27.8	7.5 7.3	66.7 63.0	73.4 69.8	2.3 2.4	2010 2008	127,672 211,988	411,724 417,328	54.5 % 54.7 %	31.0 % 50.8 %	355,699 358,102	55.3 % 55.3 %	35.9 % 59.2 %				
20	22,192 2.74%	833,339 577,960	18.6 22.1	2.4 2.3	77.5 73.8	79.4 75.8	2.0 2.1	2010 2008	107,811 192,401	386,230 400,723	63.7 % 63.8 %	27.9 % 48.0 %	325,322 340,673	64.9 % 64.6 %	33.1 % 56.5 %				

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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	TO/VR	Total	SSVR	TO/VR	
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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