

**The Senate Alternative (February 9, 2012) Redistricting Plan:  
a Basis for Evaluating the LATFOR Senate Proposal Released on January 26, 2012**

Todd A. Breitbart\*

The *Senate Alternative (February 9, 2012)* is being submitted to the NYS Legislative Task Force on Demographic Research and Reapportionment (LATFOR) to illustrate the principles that ought to be the basis for any Senate redistricting plan, and to demonstrate, by comparison, how far and in how many ways the Senate Majority proposal, published by LATFOR on January 26<sup>th</sup>, departs from sound principles. The *Senate Alternative (February 9, 2012)* is a complete, correct Senate plan that could be enacted into law.

The submission includes the following:

1. This summary comparison of the two plans.
2. A block assignment list file, which may be used to generate the plan with a redistricting software application.
3. Maps showing the details of the *Senate Alternative (February 9, 2012)*.
4. Demographic tables for both plans.
5. Thematic maps showing the district population deviations of both plans.
6. Tables of compactness measures for both plans.
7. An appendix on determining the number of Senate districts.
8. An appendix, consisting of a fact sheet and maps, illustrating the history of racially discriminatory Senate redistricting in Long Island.

I will later submit a more detailed explanation of how the *Senate Alternative (February 9, 2012)* adheres to appropriate redistricting criteria.

The *Senate Alternative (February 9, 2012)* differs in some particulars from other Senate plans previously submitted to LATFOR – the Unity Plan Update and the Common Cause plans. In relation to those other submissions, it should be regarded as part of a continuing conversation about how best to apply sound principles. In relation to the Senate Majority / LATFOR proposal, however, it reveals the difference between principles that are valid, reasonable, and just, and those that are not.

---

\* I directed the staff work on redistricting for the Minority (Democratic) Leaders of the New York State Senate from 1980 through my retirement at the end of 2005. I have offered advice to the redistricting staff of the Democratic Senate Conference during the current redistricting process, and exchanged information with them, but I do not now work for or represent the Minority Leader. I consulted with the Committee on Election Law of the Bar Association of the City of New York during the preparation of their 2007 report on reform of the redistricting process, and was the principal drafter of the text, but I do not, and never did, represent or speak for the Committee or the Association. (I am not a lawyer.) *The opinions I express are solely my own.*

The *Senate Alternative (February 9, 2012)* was drafted independently and on my own initiative. The plan was not requested, nor was it subject to review or approval, by any member of the Legislature or the legislative staff. The date refers to the LATFOR hearing at which I intend to testify about the plan.

### **The Number of Senate Districts**

All constitutional precedent and prior practice, applied to the 2010 census counts, would now yield a Senate of 62 districts. The *Senate Alternative (February 9, 2012)* therefore consists of that number of districts. The rationale now offered by the Senate Majority for creating 63 districts is irrational and inconsistent. The Senate Majority's outside counsel framed his exposition of the new – or newly disclosed – constitutional theory as a correction of the supposed errors in my previous testimony to LATFOR on this subject. Essentially, I am accused of supposing that he meant what he said, and said what he meant, ten years ago. I have attempted to straighten out the confusion in a statement, "The Size of the New York State Senate: a Reply to Michael Carvin," which is attached, along with an updated version of my prior testimony.

In addition, it would be useful to dispose of two excuses that have recently been offered to the press by Senators Skelos and Nozzolio.

The new revelation did not have to wait until January, when LATFOR, after much unjustified delay, finally produced the adjusted database required by Chap. 57 of the Laws of 2010. The table appended to Mr. Carvin's January 5, 2012 memorandum uses the unadjusted PL94-171 population counts released by the Census Bureau on March 25, 2011. He does not even refer to the adjusted database. There is no reason the memorandum could not have been written at the end of March – except that the Senate Majority had not yet decided what number of districts they wanted to pretend the Constitution to requires.

Furthermore, no method for determining the size of the Senate – neither the actual practice, nor Mr. Carvin's fanciful invention – was upheld by any court reviewing the 2002 Senate plan. The question was last litigated in *Schneider v. Rockefeller*, in 1972.

The only judicial ruling on the 2002 Senate plan was *Rodriguez v. Pataki*, 308 F.Supp.2d 346 (2004), which refers eight times to the creation of 62 Senate districts. (*Id.* at 353, 355, 356, FN7, 357, 358, 367, 441) The only reference to any possible legal controversy concerning the increase from 61, and the new constitutional theory that was offered to rationalize it, is the observation that the Department of Justice had granted VRA §5 preclearance to the increase. (*Id.* at 358). There are five references to NYS CONST. art. III, §4. (*Id.* at 354, FN25, 450, 451, 452.) None of these deals with the third paragraph of art. III, §4 – the formula for determining the size of the Senate.

The summary of 'Holdings' in the syllabus, and the Introduction of the opinion (*Id.* at 351- 354) show clearly that the court made no ruling on the proper interpretation of the NYS constitutional rule for determining the size of the Senate. The opinion's summary of the Joint Consolidated and Amended Complaint (*Id.* at 359-360) shows that this question was not before the Court. Note that the parallel case in NY County Supreme Court, *Allen v. Pataki*, addressed the same questions as *Rodriguez* and did not result in a ruling on the merits.

And since Mr. Carvin's March 7, 2002 memorandum gives no indication that he proposed to treat the Suffolk/Richmond combination differently from Queens/Nassau, no one, including the *Rodriguez* Court and the Department of Justice, could even have been aware of this element of his constitutional theory - supposing that it was actually invented before last month. Neither could this distinction have been inferred from the Legislature's actual practice in 2002, since both methods of aggregation would have produced the same result for Richmond/Suffolk on the basis of the 2000 census counts (unlike the difference that arises when the 2010 census counts are applied).

### **Population Deviations**

The *Senate Alternative (February 9, 2012)* shows clearly that the extreme population deviations in the Senate Majority / LATFOR proposal have no justification.

The deviation statistics for *Senate Alternative (February 9, 2012)* are:

Total deviation (range between the most and least populous districts): 18,591  
Total deviation %: 5.95%  
Mean deviation %: 1.10%  
Standard deviation %: 1.30%

The deviation statistics for the Senate Majority / LATFOR proposal are:

Total deviation: 27,035  
Total deviation %: 8.80%  
Mean deviation %: 3.67%  
Standard deviation %: 3.85%

The *Senate Alternative (February 9, 2012)* has no district with a population as much as 4% above the ideal population, only two with populations more than 3% above the ideal, and none with a population as much as 3% below the ideal.

The Senate Majority / LATFOR proposal has 23 districts with a population more than 4% below the ideal, and 26 districts with a population more than 3% above the ideal. (Neither plan has a district with a population more than 4% above the ideal.)

The *Senate Alternative (February 9, 2012)* achieves this much higher degree of population equality, by every measure, while (as discussed further below):

- a. Avoiding the regional malapportionment of the Senate Majority proposal;
- b. Dividing fewer counties;
- c. Achieving a higher degree of compactness by every measure; and
- d. Providing better representation for members of minority groups.

## **Regional Apportionment**

In the Senate Majority / LATFOR proposal, the contiguous cluster of 25 underpopulated upstate districts (SD's 38-40 and 42-63) has a total population of 7,329,048. With a statewide average district population of 307,356, those 25 upstate districts have enough population for 23.85 districts of the average population. In other words, the upstate region gets 1-and-1/7<sup>th</sup> district more than its share of the state population entitles it to.

At the same time, the contiguous cluster of 26 districts wholly or partly within New York City (SD's 10-34 and 36) has enough population for 26.93 districts of the average population. In other words, New York City gets almost one full district less than its share of the state population entitles it to. Note that the two Bronx/Westchester districts (SD's 34 and 36) each have most of their population in the Bronx.<sup>1</sup>

The regional skewing of the population extremes is shown clearly in the thematic map titled, "Proposed Senate Districts, LATFOR January 26, 2012, % Deviation from Ideal Population, Based on LATFOR Adjusted Database."

The *Senate Alternative (February 9, 2012)* shows an entirely different pattern. In the two areas – New York City and Long Island - where large numbers of districts must have almost exactly equal populations, due to the NYS Constitution's block-on-border rule, the district populations are less than one per-cent above or below the ideal. There is no resulting malapportionment.

The 26 New York City districts have the aggregate population for 25.79 districts of the ideal population. Include the three adjoining districts in lower Westchester that are part of the same 'block-on-border' cluster, and the 29 districts have the population for 28.76 districts of the ideal population.

The 27 districts north of New York City have the population for 27.13 districts of the ideal population. Subtract from this group the three Westchester districts mentioned just above, and the 24 upstate districts have the population for 24.15 districts of the ideal population.

The stark difference between the two proposals can be seen clearly by comparing the thematic map of the Senate Majority proposal with the map titled, "Senate Alternative, February 9, 2012, Submitted to LATFOR by Todd Breitbart, % Deviation from Ideal Population, Based on LATFOR Adjusted Database."

Not only are the deviations smaller on the whole in the *Senate Alternative (February 9, 2012)*, but the distribution is radically different. The upstate region shows a

---

<sup>1</sup> Three districts in Westchester or the Mid-Hudson Valley (SD's 35, 37, and 41) have populations almost exactly at the mean, ranging from 107 persons above the mean, (+0.03%), to 596 persons below (-0.19%). For this reason, including these districts in either of the clusters identified above will not change the apportionment arithmetic at all.

mix of under- and over-populated districts, and the most and least populous districts are both located upstate. Indeed, all the districts that are more than one per-cent above or below the ideal are located upstate. This is the pattern that results when population deviations are used for the legitimate purpose of minimizing the division of counties, as required by the NYS Constitution.

The malapportionment in the Senate Majority / LATFOR proposal is not the consequence of population deviations that serve some other, legitimate purpose. The extreme population deviations have been designed for the purpose of producing the malapportionment.

### **County Integrity**

Rockland and Albany counties each have the correct population to constitute Senate districts by themselves. But both are divided in the Senate Majority / LATFOR proposal. And it is obvious from the promiscuous division of the surrounding counties that neither is divided so that another nearby county can be kept intact.

Monroe County has the population for two whole districts and a fraction, and Orange County has the population for one whole district and a fraction. But in the Senate Majority / LATFOR proposal, Monroe County has only one wholly contained district, and is split up among five others, while Orange County has no wholly contained district.

The Senate Majority / LATFOR proposal also divides 16 of the counties that have a population that is less than the ideal district population: Cayuga, Chenango, Dutchess, Delaware, Herkimer, Livingston, Oneida, Ontario, Putnam Rensselaer, St. Lawrence, Saratoga, Schenectady, Tompkins, Ulster, and Washington.

In contrast, the *Senate Alternative (February 9, 2012)* creates one district that is simply Albany County, and another that is simply Rockland County. It places two districts wholly within Monroe County and one district wholly within Orange County. Of the counties without the population to form a whole Senate district, the *Senate Alternative (February 9, 2012)* divides only eight: Broome, Dutchess, Niagara, Oswego, Ontario, Saratoga, Schenectady, and Steuben.

### **Compactness**

The attached tables show that the *Senate Alternative (February 9, 2012)* achieves a higher degree of district compactness than the Senate Majority / LATFOR proposal, by every standard measure available in the *Maptitude for Redistricting* (Version 4.6) redistricting software.<sup>2</sup>

---

<sup>2</sup> The latest version of *Maptitude for Redistricting* includes an additional measure, the Length-Width measure. Since I do not have the latest version, I have not been able to evaluate the plans using that additional measure.

### **The Absence of Justifying Trade-offs in the Senate Majority Proposal**

Each of the above comparisons understates the flaws of the Senate Majority / LATFOR proposal. There are significant potential trade-offs among the redistricting criteria: population equality, preservation of local government units such as counties, and compactness. More counties can generally be kept intact with the flexibility allowed by a larger total deviation. Greater compactness can be achieved if counties can be freely divided. This is especially the case in New York, where counties have irregular shapes and highly unequal populations. And compactness suffers when a county or town with extensive land area must be assigned to so as to make the adjoining districts more nearly equal in population, as the NYS Constitution requires.

And yet – the *Senate Alternative (February 9, 2012)* is superior to the Senate Majority / LATFOR proposal by all of these criteria at the same time. If the *Senate Alternative (February 9, 2012)* had the population deviations of the Senate Majority / LATFOR proposal, it could keep even more counties intact. If it divided more counties, it could achieve a higher degree of compactness. Comparing the plans by one criterion at a time makes the Senate Majority / LATFOR proposal, bad as it is, look better than it is.

### **Representation of Minority Groups**

From the foregoing discussion, it will be evident that the failure of the Senate Majority / LATFOR proposal to provide fair representation to minority groups does not result from adherence to objective race-neutral redistricting principles. In several instances, it is the direct result of departures from those principles.

#### **Long Island**

The systematic splitting of African-American and Latino communities in Long Island by Senate district boundaries is continued in the Senate Majority / LATFOR proposal – for what will now be a full half-century. The attached fact sheet, maps, and demographic tables bring this appalling history up to date.

The *Senate Alternative (February 9, 2012)* shows that adhering to other objective redistricting criteria, and uniting what the US Supreme Court has called “communities defined by actual shared interests” – *not* merely or primarily race or ethnicity – will produce Long Island Senate districts in which the splitting of the black and Hispanic communities does not continue, and all citizens of Long Island can be fairly represented.

#### **The Bronx and Upper Manhattan**

By denying New York City its fair apportionment of districts, by creating a pair of Bronx/Westchester districts where one would do, and by departing shamelessly from the compactness rule of the NYS Constitution, the Senate Majority plan provides only two districts in the Bronx and northern Manhattan with a Latino majority of the citizen voting-age population (CVAP), and only two more with a Latino plurality.

In contrast, the *Senate Alternative (February 9, 2012)* creates *five* districts in this area with a Hispanic CVAP majority – and it creates those districts as a direct result of minimizing population deviations, fairly apportioning districts to New York City (and every other region of the state), avoiding excess division of counties, and respecting the compactness requirement of the NYS Constitution.

### **Buffalo and Niagara Falls**

Having Created a Buffalo / Niagara Falls District in 1992 that became the first district with a non-Hispanic white majority to elect a black candidate to the New York State Senate, the Senate Majority has now decided to make sure that doesn't happen again. After 20 years, they now propose to separate the two cities, which are united by economic factors, and both of which have large African-American communities.

In 2000, Byron Brown, since elected Mayor of Buffalo, was elected to the Senate that with 60% of the vote in the former SD 57. In order to win – and especially with such a large percentage – Senator Brown must have had the support of a broad interracial coalition of voters. During this decade, existing SD 60 has elected two black candidates – Sen. Byron Brown and Sen. Antoine Thompson – and two white candidates – Sen. Marc Coppola and Sen. Mark Grisanti. It is thus a district that requires – and rewards – the building of interracial coalitions. A black candidate cannot win without, at least, a large minority of the white voters. And a white candidate is unlikely to win who cannot appeal to black voters. This is healthy for the region and for the state.

Existing SD 60 has also proven to be, contrary to the expectations of those who designed it, a competitive district from a partisan standpoint. And for exactly that reason, it is now to be split up so that building interracial coalitions will no longer be either necessary or effective. The *Senate Alternative (February 9, 2012)*, in contrast, maintains the connection between Buffalo and Niagara Falls, while still creating two districts wholly within Erie County.

### **Rochester**

The Senate Majority / LATFOR proposal would divide Rochester among three districts, splitting the city's black community among all three. The center of the city would be connected by various paths to distant rural areas, and proposed SD 61 would extend to the Buffalo city line. Indeed, the correction of a violation of the block-on-border rule could result in the inclusion of several blocks from the city of Buffalo in this district. The plan is obviously designed to dilute the voting power not only of the black citizens of Rochester, but of their white neighbors as well. All are to be prevented from seeing that their common interests are represented in the Senate.

The *Senate Alternative (February 9, 2012)*, by contrast, places all of Rochester in a single district, which would be one of two districts wholly within Monroe County.

## Senate Alternative (February 9, 2012)

<b>District</b>	<b>Total Adjusted Population</b>	<b>Deviation from Mean Population</b>	<b>% Deviation</b>
<b>01</b>	315,163	2,850	0.91%
<b>02</b>	315,163	2,850	0.91%
<b>03</b>	315,164	2,851	0.91%
<b>04</b>	315,164	2,851	0.91%
<b>05</b>	315,163	2,850	0.91%
<b>06</b>	315,161	2,848	0.91%
<b>07</b>	315,164	2,851	0.91%
<b>08</b>	315,163	2,850	0.91%
<b>09</b>	315,164	2,851	0.91%
<b>10</b>	309,761	-2,552	-0.82%
<b>11</b>	309,762	-2,551	-0.82%
<b>12</b>	309,762	-2,551	-0.82%
<b>13</b>	309,762	-2,551	-0.82%
<b>14</b>	309,760	-2,553	-0.82%
<b>15</b>	309,761	-2,552	-0.82%
<b>16</b>	309,760	-2,553	-0.82%
<b>17</b>	309,759	-2,554	-0.82%
<b>18</b>	309,761	-2,552	-0.82%
<b>19</b>	309,761	-2,552	-0.82%
<b>20</b>	309,761	-2,552	-0.82%
<b>21</b>	309,760	-2,553	-0.82%
<b>22</b>	309,762	-2,551	-0.82%
<b>23</b>	309,761	-2,552	-0.82%
<b>24</b>	309,761	-2,552	-0.82%
<b>25</b>	309,761	-2,552	-0.82%
<b>26</b>	309,760	-2,553	-0.82%
<b>27</b>	309,761	-2,552	-0.82%
<b>28</b>	309,760	-2,553	-0.82%
<b>29</b>	309,759	-2,554	-0.82%
<b>30</b>	309,763	-2,550	-0.82%
<b>31</b>	309,762	-2,551	-0.82%
<b>32</b>	309,758	-2,555	-0.82%
<b>33</b>	309,767	-2,546	-0.82%
<b>34</b>	309,760	-2,553	-0.82%
<b>35</b>	309,759	-2,554	-0.82%

## Senate Alternative (February 9, 2012)

<b>District</b>	<b>Total Adjusted Population</b>	<b>Deviation from Mean Population</b>	<b>% Deviation</b>
36	309,762	-2,551	-0.82%
37	309,760	-2,553	-0.82%
38	309,761	-2,552	-0.82%
39	311,978	-335	-0.11%
40	308,045	-4,268	-1.37%
41	308,002	-4,311	-1.38%
42	312,620	307	0.10%
43	315,113	2,800	0.90%
44	304,217	-8,096	-2.59%
45	305,530	-6,783	-2.17%
46	320,227	7,914	2.53%
47	320,580	8,267	2.65%
48	322,476	10,163	3.25%
49	317,302	4,989	1.60%
50	322,808	10,495	3.36%
51	318,516	6,203	1.99%
52	318,516	6,203	1.99%
53	306,641	-5,672	-1.82%
54	318,586	6,273	2.01%
55	313,513	1,200	0.38%
56	309,143	-3,170	-1.02%
57	318,487	6,174	1.98%
58	313,490	1,177	0.38%
59	315,227	2,914	0.93%
60	316,690	4,377	1.40%
61	313,077	764	0.24%
62	313,077	764	0.24%

## Senate Alternative (February 9, 2012)

Voting-Age Population from Unadjusted PL94-171 Data													
District	18+_Pop	18+ AP_Black	% 18+ AP_Black	18+ AP_Asian	% 18+ AP_Asian	18+ Hispanic	% 18+ Hispanic	NH18+ White	% NH18+ White	NH18+ AP_Black	% NH18+ AP_Black	NH18+ AP_Asian	% NH18+ AP_Asian
01	243829	13,814	5.67%	5,377	2.21%	29,623	12.15%	194,547	79.79%	12,817	5.26%	5,227	2.14%
02	239294	7,251	3.03%	13,793	5.76%	17,806	7.44%	200,294	83.70%	6,541	2.73%	13,634	5.70%
03	240728	10,050	4.17%	6,248	2.60%	25,558	10.62%	198,973	82.65%	8,950	3.72%	6,101	2.53%
04	234757	46,693	19.89%	7,828	3.33%	78,238	33.33%	105,579	44.97%	42,251	18.00%	7,395	3.15%
05	237652	9,741	4.10%	16,861	7.09%	20,845	8.77%	190,285	80.07%	9,030	3.80%	16,700	7.03%
06	244233	6,426	2.63%	18,997	7.78%	21,284	8.71%	197,490	80.86%	5,871	2.40%	18,810	7.70%
07	242055	7,191	2.97%	32,902	13.59%	22,588	9.33%	179,197	74.03%	6,539	2.70%	32,681	13.50%
08	239415	89,978	37.58%	14,344	5.99%	67,466	28.18%	71,114	29.70%	85,336	35.64%	13,952	5.83%
09	241669	12,188	5.04%	9,606	3.97%	23,809	9.85%	196,333	81.24%	11,164	4.62%	9,393	3.89%
10	234760	135,977	57.92%	22,381	9.53%	35,345	15.06%	43,392	18.48%	129,559	55.19%	21,938	9.34%
11	237270	129,328	54.51%	39,615	16.70%	44,844	18.90%	22,832	9.62%	123,436	52.02%	39,019	16.44%
12	253750	15,782	6.22%	67,910	26.76%	37,641	14.83%	133,344	52.55%	13,642	5.38%	67,357	26.54%
13	254042	8,545	3.36%	135,700	53.42%	31,740	12.49%	79,182	31.17%	7,252	2.85%	135,097	53.18%
14	240263	22,807	9.49%	53,282	22.18%	145,064	60.38%	24,568	10.23%	16,955	7.06%	52,404	21.81%
15	257760	15,945	6.19%	64,003	24.83%	71,278	27.65%	107,480	41.70%	12,860	4.99%	63,256	24.54%
16	241168	21,777	9.03%	52,260	21.67%	69,443	28.79%	96,135	39.86%	17,823	7.39%	51,445	21.33%
17	231244	55,684	24.08%	19,914	8.61%	122,740	53.08%	42,657	18.45%	43,907	18.99%	19,155	8.28%
18	230420	144,853	62.86%	8,644	3.75%	27,655	12.00%	56,253	24.41%	136,997	59.46%	8,457	3.67%
19	232044	149,499	64.43%	15,244	6.57%	26,556	11.44%	47,455	20.45%	141,807	61.11%	14,964	6.45%
20	235432	136,902	58.15%	16,103	6.84%	34,509	14.66%	55,510	23.58%	128,597	54.62%	15,754	6.69%
21	235544	145,223	61.65%	10,321	4.38%	39,017	16.56%	49,440	20.99%	135,891	57.69%	9,936	4.22%
22	231597	6,456	2.79%	29,788	12.86%	18,815	8.12%	176,629	76.27%	5,491	2.37%	29,578	12.77%
23	240308	7,875	3.28%	93,111	38.75%	57,819	24.06%	84,019	34.96%	5,043	2.10%	92,549	38.51%
24	238085	41,997	17.64%	26,634	11.19%	48,987	20.58%	124,449	52.27%	37,167	15.61%	26,161	10.99%
25	242564	6,287	2.59%	19,258	7.94%	22,888	9.44%	194,305	80.10%	5,379	2.22%	18,999	7.83%
26	246625	21,865	8.87%	22,599	9.16%	42,852	17.38%	162,130	65.74%	17,949	7.28%	22,101	8.96%
27	273328	19,241	7.04%	67,913	24.85%	44,376	16.24%	145,008	53.05%	15,180	5.55%	67,232	24.60%
28	275428	17,430	6.33%	36,765	13.35%	29,046	10.55%	193,890	70.40%	14,691	5.33%	36,282	13.17%
29	272594	10,678	3.92%	31,437	11.53%	18,503	6.79%	212,249	77.86%	9,509	3.49%	31,119	11.42%
30	247646	115,708	46.72%	16,446	6.64%	67,806	27.38%	59,961	24.21%	102,713	41.48%	15,826	6.39%
31	248250	44,507	17.93%	10,760	4.33%	146,684	59.09%	66,005	26.59%	24,803	9.99%	9,506	3.83%
32	225546	92,209	40.88%	7,328	3.25%	131,216	58.18%	14,045	6.23%	72,473	32.13%	6,394	2.83%
33	224655	79,182	35.25%	12,540	5.58%	127,475	56.74%	22,664	10.09%	61,218	27.25%	11,548	5.14%
34	220088	76,372	34.70%	9,671	4.39%	121,647	55.27%	29,311	13.32%	58,641	26.64%	8,885	4.04%
35	228646	71,543	31.29%	13,281	5.81%	123,272	53.91%	35,536	15.54%	54,882	24.00%	12,368	5.41%

## Senate Alternative (February 9, 2012)

Voting-Age Population from Unadjusted PL94-171 Data													
District	18+_Pop	18+ AP_Black	% 18+ AP_Black	18+ AP_Asian	% 18+ AP_Asian	18+ Hispanic	% 18+ Hispanic	NH18+ White	% NH18+ White	NH18+ AP_Black	% NH18+ AP_Black	NH18+ AP_Asian	% NH18+ AP_Asian
36	235595	124,547	52.86%	8,179	3.47%	42,830	18.18%	64,950	27.57%	117,646	49.94%	7,829	3.32%
37	236919	38,076	16.07%	18,385	7.76%	58,386	24.64%	126,437	53.37%	32,901	13.89%	17,967	7.58%
38	235284	21,332	9.07%	14,270	6.07%	51,616	21.94%	149,338	63.47%	19,204	8.16%	13,952	5.93%
39	224107	29,423	13.13%	16,027	7.15%	34,135	15.23%	146,105	65.19%	27,200	12.14%	15,775	7.04%
40	235325	13,339	5.67%	6,895	2.93%	26,265	11.16%	189,380	80.48%	11,850	5.04%	6,673	2.84%
41	243823	23,612	9.68%	8,846	3.63%	19,670	8.07%	192,000	78.75%	21,946	9.00%	8,701	3.57%
42	225985	26,157	11.57%	6,888	3.05%	38,583	17.07%	155,990	69.03%	23,259	10.29%	6,649	2.94%
43	250947	18,632	7.42%	4,773	1.90%	22,416	8.93%	205,042	81.71%	16,766	6.68%	4,607	1.84%
44	243420	5,601	2.30%	2,254	0.93%	5,850	2.40%	228,431	93.84%	5,090	2.09%	2,180	0.90%
45	243573	29,568	12.14%	12,103	4.97%	10,024	4.12%	192,347	78.97%	27,870	11.44%	11,960	4.91%
46	247055	19,117	7.74%	9,220	3.73%	9,322	3.77%	207,540	84.01%	17,763	7.19%	9,059	3.67%
47	264432	10,194	3.86%	2,100	0.79%	6,060	2.29%	242,399	91.67%	9,288	3.51%	2,054	0.78%
48	251744	4,422	1.76%	2,742	1.09%	7,530	2.99%	235,989	93.74%	3,968	1.58%	2,685	1.07%
49	246353	7,826	3.18%	3,156	1.28%	6,787	2.75%	226,235	91.83%	7,205	2.92%	3,058	1.24%
50	254106	12,173	4.79%	5,253	2.07%	7,680	3.02%	228,427	89.89%	11,313	4.45%	5,176	2.04%
51	244088	33,295	13.64%	9,817	4.02%	9,487	3.89%	190,316	77.97%	31,583	12.94%	9,695	3.97%
52	247794	7,289	2.94%	3,505	1.41%	4,140	1.67%	230,511	93.03%	6,879	2.78%	3,461	1.40%
53	247552	11,542	4.66%	15,396	6.22%	7,729	3.12%	212,105	85.68%	10,644	4.30%	15,224	6.15%
54	246519	7,702	3.12%	3,423	1.39%	6,592	2.67%	227,820	92.41%	7,221	2.93%	3,384	1.37%
55	246398	13,397	5.44%	11,143	4.52%	7,442	3.02%	213,898	86.81%	12,811	5.20%	11,043	4.48%
56	233254	65,602	28.12%	7,552	3.24%	24,320	10.43%	137,743	59.05%	62,201	26.67%	7,348	3.15%
57	255796	10,421	4.07%	2,606	1.02%	4,949	1.93%	236,503	92.46%	9,886	3.86%	2,536	0.99%
58	246667	7,789	3.16%	2,041	0.83%	4,788	1.94%	229,794	93.16%	7,395	3.00%	1,998	0.81%
59	250075	9,108	3.64%	10,654	4.26%	4,068	1.63%	225,484	90.17%	8,742	3.50%	10,585	4.23%
60	248079	5,682	2.29%	2,139	0.86%	7,016	2.83%	230,345	92.85%	5,135	2.07%	2,087	0.84%
61	246630	8,381	3.40%	2,507	1.02%	5,530	2.24%	227,935	92.42%	8,025	3.25%	2,477	1.00%
62	238964	81,064	33.92%	7,707	3.23%	16,750	7.01%	132,971	55.64%	78,778	32.97%	7,559	3.16%

## Senate Alternative (February 9, 2012)

<b>Citizen Voting-Age Population from 2005-2009 American Community Survey Special Tabulation</b>									
<b>District</b>	<b>CVAP TOTAL</b>	<b>CVAP NH_WHITE</b>	<b>% CVAP NH_WHITE</b>	<b>CVAP HISPANIC</b>	<b>% CVAP HISPANIC</b>	<b>CVAP_NH BLACK_ALL</b>	<b>% CVAP_NH BLACK_ALL</b>	<b>CVAP_NH ASIAN_ALL</b>	<b>% CVAP_NH ASIAN_ALL</b>
01	225,407	199,341	88.44%	11,252	4.99%	11,245	4.99%	2,678	1.19%
02	226,720	201,601	88.92%	11,134	4.91%	4,791	2.11%	8,767	3.87%
03	228,044	203,401	89.19%	13,476	5.91%	6,674	2.93%	3,453	1.51%
04	193,937	111,141	57.31%	36,632	18.89%	40,425	20.84%	4,408	2.27%
05	222,595	194,988	87.60%	8,575	3.85%	6,730	3.02%	11,593	5.21%
06	236,337	206,056	87.19%	14,026	5.93%	3,878	1.64%	11,668	4.94%
07	221,149	183,928	83.17%	11,636	5.26%	5,659	2.56%	19,313	8.73%
08	185,671	74,014	39.86%	25,691	13.84%	74,139	39.93%	10,741	5.78%
09	232,595	202,048	86.87%	15,025	6.46%	8,274	3.56%	6,626	2.85%
10	202,654	47,486	23.43%	22,701	11.20%	116,456	57.47%	14,162	6.99%
11	181,498	24,153	13.31%	26,601	14.66%	106,233	58.53%	22,507	12.40%
12	217,756	139,473	64.05%	28,231	12.96%	9,644	4.43%	38,924	17.88%
13	181,008	87,403	48.29%	23,843	13.17%	6,192	3.42%	62,057	34.28%
14	127,008	25,432	20.02%	59,335	46.72%	15,047	11.85%	26,426	20.81%
15	183,029	101,614	55.52%	41,815	22.85%	9,523	5.20%	28,985	15.84%
16	190,587	103,236	54.17%	45,647	23.95%	11,094	5.82%	28,987	15.21%
17	157,033	31,659	20.16%	81,015	51.59%	34,636	22.06%	8,837	5.63%
18	203,121	60,069	29.57%	22,570	11.11%	114,375	56.31%	5,406	2.66%
19	179,582	44,417	24.73%	15,576	8.67%	111,888	62.30%	6,549	3.65%
20	180,263	49,199	27.29%	21,571	11.97%	101,243	56.16%	7,508	4.16%
21	198,950	42,068	21.15%	27,901	14.02%	122,630	61.64%	5,040	2.53%
22	190,368	158,250	83.13%	10,673	5.61%	4,491	2.36%	16,639	8.74%
23	158,331	78,603	49.65%	32,017	20.22%	4,212	2.66%	42,788	27.02%
24	206,199	124,279	60.27%	32,503	15.76%	32,244	15.64%	16,284	7.90%
25	233,150	196,159	84.13%	17,883	7.67%	4,258	1.83%	14,314	6.14%
26	202,027	138,531	68.57%	35,400	17.52%	15,033	7.44%	11,904	5.89%
27	233,291	138,032	59.17%	35,987	15.43%	13,166	5.64%	44,766	19.19%
28	247,102	193,527	78.32%	22,711	9.19%	11,600	4.69%	18,221	7.37%
29	238,466	204,616	85.81%	11,418	4.79%	5,957	2.50%	15,901	6.67%
30	201,463	54,908	27.25%	41,162	20.43%	97,253	48.27%	6,698	3.32%
31	188,636	63,392	33.61%	93,682	49.66%	25,355	13.44%	5,279	2.80%
32	150,612	11,144	7.40%	79,676	52.90%	55,960	37.16%	3,144	2.09%
33	152,829	21,918	14.34%	76,307	49.93%	47,639	31.17%	5,930	3.88%
34	158,771	31,555	19.87%	77,590	48.87%	44,231	27.86%	4,717	2.97%
35	185,045	41,645	22.51%	90,692	49.01%	45,162	24.41%	6,806	3.68%

## Senate Alternative (February 9, 2012)

<b>Citizen Voting-Age Population from 2005-2009 American Community Survey Special Tabulation</b>									
<b>District</b>	<b>CVAP TOTAL</b>	<b>CVAP NH_WHITE</b>	<b>% CVAP NH_WHITE</b>	<b>CVAP HISPANIC</b>	<b>% CVAP HISPANIC</b>	<b>CVAP_NH BLACK_ALL</b>	<b>% CVAP_NH BLACK_ALL</b>	<b>CVAP_NH ASIAN_ALL</b>	<b>% CVAP_NH ASIAN_ALL</b>
36	194,738	63,750	32.74%	28,496	14.63%	97,099	49.86%	4,113	2.11%
37	197,149	127,920	64.89%	29,661	15.04%	27,540	13.97%	11,482	5.82%
38	189,302	146,703	77.50%	18,351	9.69%	15,398	8.13%	8,250	4.36%
39	185,883	142,644	76.74%	14,953	8.04%	17,173	9.24%	10,286	5.53%
40	211,974	184,013	86.81%	13,908	6.56%	8,347	3.94%	4,462	2.11%
41	217,403	183,972	84.62%	10,531	4.84%	16,683	7.67%	5,112	2.35%
42	204,826	155,511	75.92%	22,547	11.01%	20,752	10.13%	4,854	2.37%
43	231,048	200,356	86.72%	14,281	6.18%	11,964	5.18%	2,640	1.14%
44	230,028	220,350	95.79%	3,694	1.61%	3,162	1.37%	1,254	0.55%
45	224,404	188,819	84.14%	6,454	2.88%	22,645	10.09%	5,385	2.40%
46	226,292	201,195	88.91%	5,871	2.59%	12,158	5.37%	4,746	2.10%
47	244,012	230,044	94.28%	4,260	1.75%	5,147	2.11%	1,253	0.51%
48	242,420	230,483	95.08%	5,344	2.20%	3,113	1.28%	1,790	0.74%
49	233,646	219,323	93.87%	4,762	2.04%	6,264	2.68%	1,467	0.63%
50	234,558	219,152	93.43%	4,717	2.01%	7,512	3.20%	2,015	0.86%
51	221,810	183,875	82.90%	5,361	2.42%	25,960	11.70%	3,796	1.71%
52	235,823	225,489	95.62%	1,944	0.82%	3,916	1.66%	2,435	1.03%
53	225,868	203,196	89.96%	5,529	2.45%	7,943	3.52%	7,392	3.27%
54	228,771	215,404	94.16%	4,438	1.94%	5,771	2.52%	1,826	0.80%
55	228,247	207,474	90.90%	5,029	2.20%	9,561	4.19%	5,335	2.34%
56	218,089	140,614	64.48%	17,972	8.24%	54,582	25.03%	3,512	1.61%
57	240,562	227,940	94.75%	3,094	1.29%	6,297	2.62%	1,583	0.66%
58	232,354	218,288	93.95%	3,374	1.45%	7,329	3.15%	1,320	0.57%
59	229,261	215,343	93.93%	2,874	1.25%	5,886	2.57%	4,438	1.94%
60	238,639	226,428	94.88%	4,876	2.04%	3,262	1.37%	1,078	0.45%
61	240,853	226,303	93.96%	4,173	1.73%	6,646	2.76%	1,323	0.55%
62	233,489	141,182	60.47%	12,960	5.55%	74,218	31.79%	2,371	1.02%

## Senate Alternative (February 9, 2012)

<b>Citizen Voting-Age Population from 2006-2010 American Community Survey</b>									
<b>District</b>	<b>CVAP_TOT</b>	<b>CVAP BLACK</b>	<b>% CVAP BLACK</b>	<b>CVAP ASIAN</b>	<b>% CVAP ASIAN</b>	<b>CVAP NH_WHITE</b>	<b>% CVAP NH_WHITE</b>	<b>CVAP HISPANIC</b>	<b>% CVAP HISPANIC</b>
01	219,979	10,521	4.78%	2,686	1.22%	191,100	86.87%	14,017	6.37%
02	223,657	4,382	1.96%	8,358	3.74%	194,556	86.99%	14,786	6.61%
03	222,606	7,882	3.54%	3,398	1.53%	194,069	87.18%	16,012	7.19%
04	190,618	39,990	20.98%	4,205	2.21%	103,801	54.45%	41,217	21.62%
05	219,791	6,602	3.00%	11,048	5.03%	190,243	86.56%	10,688	4.86%
06	231,027	4,034	1.75%	12,244	5.30%	196,363	85.00%	16,996	7.36%
07	215,738	6,059	2.81%	19,836	9.19%	174,866	81.05%	13,236	6.14%
08	188,826	75,767	40.13%	10,726	5.68%	69,410	36.76%	31,471	16.67%
09	225,878	8,351	3.70%	6,955	3.08%	192,786	85.35%	16,562	7.33%
10	199,576	115,957	58.10%	14,394	7.21%	43,393	21.74%	23,250	11.65%
11	178,000	98,581	55.38%	21,960	12.34%	21,484	12.07%	27,452	15.42%
12	208,378	9,671	4.64%	44,333	21.28%	123,644	59.34%	27,997	13.44%
13	178,457	6,295	3.53%	66,683	37.37%	79,021	44.28%	24,362	13.65%
14	122,571	15,196	12.40%	28,285	23.08%	21,619	17.64%	56,723	46.28%
15	177,040	10,512	5.94%	30,155	17.03%	91,390	51.62%	42,439	23.97%
16	184,307	10,106	5.48%	27,790	15.08%	90,893	49.32%	46,869	25.43%
17	160,480	38,066	23.72%	9,374	5.84%	31,271	19.49%	82,283	51.27%
18	201,001	116,744	58.08%	5,438	2.71%	56,626	28.17%	22,951	11.42%
19	174,356	110,902	63.61%	7,182	4.12%	41,625	23.87%	15,979	9.16%
20	178,866	101,647	56.83%	8,006	4.48%	48,771	27.27%	21,529	12.04%
21	197,436	120,393	60.98%	6,256	3.17%	43,172	21.87%	27,711	14.04%
22	183,959	4,400	2.39%	19,550	10.63%	148,736	80.85%	10,243	5.57%
23	154,396	5,460	3.54%	45,046	29.18%	71,940	46.59%	31,514	20.41%
24	199,432	32,988	16.54%	17,909	8.98%	114,910	57.62%	33,282	16.69%
25	224,676	5,022	2.24%	14,124	6.29%	185,137	82.40%	19,365	8.62%
26	202,373	16,340	8.07%	13,654	6.75%	134,963	66.69%	34,996	17.29%
27	229,190	13,955	6.09%	44,446	19.39%	130,779	57.06%	36,632	15.98%
28	236,087	12,782	5.41%	19,402	8.22%	177,880	75.34%	23,761	10.06%
29	233,541	6,152	2.63%	17,399	7.45%	193,727	82.95%	13,683	5.86%
30	204,302	100,332	49.11%	7,554	3.70%	54,309	26.58%	45,514	22.28%
31	187,114	29,326	15.67%	5,465	2.92%	60,964	32.58%	95,426	51.00%
32	165,762	70,716	42.66%	4,263	2.57%	11,044	6.66%	86,627	52.26%
33	154,084	51,945	33.71%	5,699	3.70%	20,013	12.99%	78,112	50.69%
34	157,530	47,931	30.43%	5,149	3.27%	27,978	17.76%	79,314	50.35%
35	183,549	50,970	27.77%	6,658	3.63%	36,804	20.05%	92,254	50.26%

## Senate Alternative (February 9, 2012)

<b>Citizen Voting-Age Population from 2006-2010 American Community Survey</b>									
<b>District</b>	<b>CVAP_TOT</b>	<b>CVAP BLACK</b>	<b>% CVAP BLACK</b>	<b>CVAP ASIAN</b>	<b>% CVAP ASIAN</b>	<b>CVAP NH_WHITE</b>	<b>% CVAP NH_WHITE</b>	<b>CVAP HISPANIC</b>	<b>% CVAP HISPANIC</b>
36	196,868	99,808	50.70%	3,896	1.98%	61,098	31.04%	30,944	15.72%
37	196,778	29,895	15.19%	10,947	5.56%	121,688	61.84%	33,799	17.18%
38	190,445	16,833	8.84%	7,579	3.98%	143,378	75.29%	20,881	10.96%
39	191,182	20,937	10.95%	11,201	5.86%	140,660	73.57%	17,753	9.29%
40	213,944	9,838	4.60%	4,056	1.90%	182,449	85.28%	15,939	7.45%
41	225,273	17,366	7.71%	4,849	2.15%	187,855	83.39%	12,339	5.48%
42	205,816	21,164	10.28%	4,467	2.17%	154,310	74.97%	23,895	11.61%
43	238,217	14,510	6.09%	2,333	0.98%	201,823	84.72%	16,715	7.02%
44	238,901	4,432	1.86%	1,032	0.43%	226,396	94.77%	5,025	2.10%
45	230,268	23,886	10.37%	5,416	2.35%	190,367	82.67%	7,685	3.34%
46	232,945	13,000	5.58%	4,131	1.77%	203,597	87.40%	7,059	3.03%
47	257,073	9,223	3.59%	843	0.33%	238,108	92.62%	5,109	1.99%
48	245,383	3,300	1.34%	1,501	0.61%	231,484	94.34%	6,515	2.66%
49	239,524	7,215	3.01%	1,451	0.61%	221,874	92.63%	6,305	2.63%
50	245,134	9,762	3.98%	2,543	1.04%	224,224	91.47%	6,153	2.51%
51	230,112	27,557	11.98%	3,828	1.66%	187,080	81.30%	7,211	3.13%
52	240,547	5,503	2.29%	2,484	1.03%	226,499	94.16%	3,251	1.35%
53	232,851	8,544	3.67%	7,100	3.05%	207,099	88.94%	6,519	2.80%
54	237,427	7,157	3.01%	1,645	0.69%	221,530	93.30%	5,213	2.20%
55	232,815	10,553	4.53%	6,203	2.66%	208,247	89.45%	6,181	2.65%
56	222,874	57,074	25.61%	3,352	1.50%	138,942	62.34%	20,598	9.24%
57	250,604	9,696	3.87%	1,319	0.53%	233,117	93.02%	4,047	1.61%
58	238,391	6,646	2.79%	1,057	0.44%	223,641	93.81%	3,793	1.59%
59	237,614	6,718	2.83%	5,128	2.16%	220,312	92.72%	3,823	1.61%
60	245,014	4,520	1.84%	1,123	0.46%	229,403	93.63%	6,326	2.58%
61	242,624	7,081	2.92%	1,559	0.64%	225,823	93.08%	5,204	2.15%
62	229,705	76,217	33.18%	2,590	1.13%	133,640	58.18%	13,701	5.96%

## Proposed 2012 Senate Districts - Senate Majority / LATFOR - January 26, 2012

<b>District</b>	<b>Total Adjusted Population</b>	<b>Deviation from Mean Population</b>	<b>% Deviation</b>
SD01	315,163	7,807	2.54%
SD02	315,164	7,808	2.54%
SD03	315,163	7,807	2.54%
SD04	315,163	7,807	2.54%
SD05	315,163	7,807	2.54%
SD06	315,163	7,807	2.54%
SD07	315,163	7,807	2.54%
SD08	315,163	7,807	2.54%
SD09	315,164	7,808	2.54%
SD10	319,116	11,760	3.83%
SD11	319,112	11,756	3.82%
SD12	319,113	11,757	3.83%
SD13	319,114	11,758	3.83%
SD14	319,114	11,758	3.83%
SD15	319,113	11,757	3.83%
SD16	319,114	11,758	3.83%
SD17	318,022	10,666	3.47%
SD18	318,022	10,666	3.47%
SD19	318,021	10,665	3.47%
SD20	318,021	10,665	3.47%
SD21	318,021	10,665	3.47%
SD22	318,022	10,666	3.47%
SD23	318,019	10,663	3.47%
SD24	318,021	10,665	3.47%
SD25	318,021	10,665	3.47%
SD26	318,021	10,665	3.47%
SD27	318,021	10,665	3.47%
SD28	318,021	10,665	3.47%
SD29	318,019	10,663	3.47%
SD30	318,021	10,665	3.47%
SD31	318,021	10,665	3.47%
SD32	318,021	10,665	3.47%
SD33	318,021	10,665	3.47%
SD34	318,021	10,665	3.47%
SD35	307,463	107	0.03%
SD36	318,021	10,665	3.47%

## Proposed 2012 Senate Districts - Senate Majority / LATFOR - January 26, 2012

<b>District</b>	<b>Total Adjusted Population</b>	<b>Deviation from Mean Population</b>	<b>% Deviation</b>
SD37	307,463	107	0.03%
SD38	296,208	-11,148	-3.63%
SD39	293,888	-13,468	-4.38%
SD40	302,408	-4,948	-1.61%
SD41	306,760	-596	-0.19%
SD42	292,531	-14,825	-4.82%
SD43	292,750	-14,606	-4.75%
SD44	292,749	-14,607	-4.75%
SD45	293,101	-14,255	-4.64%
SD46	292,750	-14,606	-4.75%
SD47	293,195	-14,161	-4.61%
SD48	292,870	-14,486	-4.71%
SD49	292,749	-14,607	-4.75%
SD50	292,445	-14,911	-4.85%
SD51	292,402	-14,954	-4.87%
SD52	292,497	-14,859	-4.83%
SD53	292,444	-14,912	-4.85%
SD54	292,445	-14,911	-4.85%
SD55	292,306	-15,050	-4.90%
SD56	292,307	-15,049	-4.90%
SD57	292,081	-15,275	-4.97%
SD58	292,933	-14,423	-4.69%
SD59	292,194	-15,162	-4.93%
SD60	292,661	-14,695	-4.78%
SD61	292,307	-15,049	-4.90%
SD62	292,166	-15,190	-4.94%
SD63	292,661	-14,695	-4.78%

## Proposed 2012 Senate Districts - Senate Majority / LATFOR - January 26, 2012

Voting-Age Population from Unadjusted PL94-171 Data													
District	18+_Pop	18+ AP_Black	% 18+ AP_Black	18+ AP_Asian	% 18+ AP_Asian	18+ Hispanic	% 18+ Hispanic	NH18+ White	% NH18+ White	NH18+ AP_Black	% NH18+ AP_Black	NH18+ AP_Asian	% NH18+ AP_Asian
SD01	243,135	14,281	5.87%	5,565	2.29%	29,780	12.25%	192,962	79.36%	13,240	5.45%	5,422	2.23%
SD02	238,990	8,310	3.48%	14,371	6.01%	16,627	6.96%	199,544	83.49%	7,619	3.19%	14,217	5.95%
SD03	235,923	21,721	9.21%	7,590	3.22%	56,397	23.90%	152,014	64.43%	19,056	8.08%	7,296	3.09%
SD04	239,480	24,364	10.17%	8,311	3.47%	40,073	16.73%	168,125	70.20%	22,124	9.24%	8,080	3.37%
SD05	239,647	9,012	3.76%	19,347	8.07%	23,675	9.88%	187,808	78.37%	8,255	3.44%	19,153	7.99%
SD06	242,579	38,183	15.74%	13,787	5.68%	40,073	16.52%	151,966	62.65%	36,135	14.90%	13,529	5.58%
SD07	242,166	19,581	8.09%	35,798	14.78%	31,040	12.82%	155,816	64.34%	18,457	7.62%	35,551	14.68%
SD08	239,145	39,221	16.40%	6,894	2.88%	37,939	15.86%	156,818	65.57%	36,764	15.37%	6,642	2.78%
SD09	242,567	28,659	11.81%	14,293	5.89%	31,613	13.03%	168,759	69.57%	26,849	11.07%	14,003	5.77%
SD10	235,838	135,030	57.26%	34,008	14.42%	43,564	18.47%	22,057	9.35%	128,250	54.38%	33,374	14.15%
SD11	257,168	15,703	6.11%	89,733	34.89%	40,326	15.68%	111,005	43.16%	13,879	5.40%	89,052	34.63%
SD12	259,983	18,253	7.02%	53,003	20.39%	88,300	33.96%	102,609	39.47%	13,808	5.31%	52,223	20.09%
SD13	248,553	23,741	9.55%	44,063	17.73%	145,505	58.54%	40,548	16.31%	17,791	7.16%	43,185	17.37%
SD14	249,234	138,005	55.37%	38,557	15.47%	45,669	18.32%	28,668	11.50%	131,732	52.85%	37,982	15.24%
SD15	252,687	11,165	4.42%	38,967	15.42%	55,159	21.83%	148,135	58.62%	8,318	3.29%	38,425	15.21%
SD16	265,358	10,776	4.06%	141,343	53.27%	40,656	15.32%	74,069	27.91%	8,924	3.36%	140,641	53.00%
SD17	223,150	8,935	4.00%	45,552	20.41%	27,365	12.26%	142,102	63.68%	7,327	3.28%	45,211	20.26%
SD18	241,083	62,009	25.72%	16,313	6.77%	123,174	51.09%	50,508	20.95%	49,170	20.40%	15,570	6.46%
SD19	237,001	144,581	61.00%	18,241	7.70%	33,620	14.19%	48,269	20.37%	135,666	57.24%	17,979	7.59%
SD20	241,152	142,665	59.16%	25,066	10.39%	46,311	19.20%	35,487	14.72%	133,746	55.46%	24,645	10.22%
SD21	247,212	148,711	60.16%	17,592	7.12%	33,269	13.46%	54,820	22.18%	140,708	56.92%	17,195	6.96%
SD22	250,219	4,053	1.62%	57,369	22.93%	27,490	10.99%	161,553	64.56%	3,051	1.22%	57,045	22.80%
SD23	245,973	43,466	17.67%	31,200	12.68%	50,092	20.36%	125,255	50.92%	38,529	15.66%	30,753	12.50%
SD24	249,390	6,500	2.61%	19,091	7.66%	22,892	9.18%	201,047	80.62%	5,601	2.25%	18,827	7.55%
SD25	247,114	147,634	59.74%	12,227	4.95%	42,241	17.09%	53,274	21.56%	138,472	56.04%	11,804	4.78%
SD26	259,935	15,470	5.95%	63,032	24.25%	36,646	14.10%	147,176	56.62%	12,324	4.74%	62,441	24.02%
SD27	289,911	16,864	5.82%	43,935	15.15%	32,424	11.18%	198,062	68.32%	14,232	4.91%	43,391	14.97%
SD28	279,380	8,674	3.10%	30,479	10.91%	17,864	6.39%	222,435	79.62%	7,724	2.76%	30,141	10.79%
SD29	238,329	67,572	28.35%	12,799	5.37%	119,405	50.10%	54,829	23.01%	50,891	21.35%	11,945	5.01%
SD30	252,917	123,463	48.82%	15,570	6.16%	72,873	28.81%	54,462	21.53%	109,220	43.18%	14,944	5.91%
SD31	257,212	42,520	16.53%	15,059	5.85%	138,003	53.65%	80,114	31.15%	23,976	9.32%	13,848	5.38%
SD32	225,422	98,444	43.67%	8,149	3.61%	134,615	59.72%	4,712	2.09%	77,091	34.20%	7,217	3.20%
SD33	222,882	77,943	34.97%	9,402	4.22%	146,908	65.91%	9,219	4.14%	56,914	25.54%	8,354	3.75%
SD34	250,693	46,443	18.53%	17,953	7.16%	88,965	35.49%	105,567	42.11%	36,479	14.55%	17,142	6.84%
SD35	232,371	46,545	20.03%	18,297	7.87%	64,723	27.85%	107,297	46.17%	41,226	17.74%	17,845	7.68%
SD36	239,810	150,688	62.84%	8,482	3.54%	63,336	26.41%	26,073	10.87%	139,491	58.17%	8,022	3.35%

## Proposed 2012 Senate Districts - Senate Majority / LATFOR - January 26, 2012

Voting-Age Population from Unadjusted PL94-171 Data													
District	18+ Pop	18+ AP_Black	% 18+ AP_Black	18+ AP_Asian	% 18+ AP_Asian	18+ Hispanic	% 18+ Hispanic	NH18+ White	% NH18+ White	NH18+ AP_Black	% NH18+ AP_Black	NH18+ AP_Asian	% NH18+ AP_Asian
SD37	236,749	15,927	6.73%	13,963	5.90%	42,741	18.05%	165,187	69.77%	13,945	5.89%	13,684	5.78%
SD38	214,400	28,803	13.43%	15,882	7.41%	30,940	14.43%	140,007	65.30%	26,931	12.56%	15,652	7.30%
SD39	211,828	22,251	10.50%	6,821	3.22%	38,754	18.30%	145,598	68.73%	19,632	9.27%	6,562	3.10%
SD40	228,474	13,638	5.97%	8,728	3.82%	29,815	13.05%	177,195	77.56%	12,030	5.27%	8,486	3.71%
SD41	240,954	22,825	9.47%	8,917	3.70%	22,089	9.17%	187,509	77.82%	21,091	8.75%	8,754	3.63%
SD42	230,283	22,569	9.80%	4,985	2.16%	29,349	12.74%	174,229	75.66%	20,014	8.69%	4,812	2.09%
SD43	229,917	6,221	2.71%	3,492	1.52%	4,861	2.11%	214,364	93.24%	5,861	2.55%	3,435	1.49%
SD44	234,030	33,835	14.46%	12,067	5.16%	11,182	4.78%	177,589	75.88%	31,897	13.63%	11,919	5.09%
SD45	242,860	9,768	4.02%	1,966	0.81%	5,638	2.32%	221,915	91.38%	8,897	3.66%	1,922	0.79%
SD46	233,190	9,893	4.24%	4,745	2.03%	11,147	4.78%	206,813	88.69%	8,990	3.86%	4,652	1.99%
SD47	231,494	11,820	5.11%	5,383	2.33%	7,380	3.19%	205,854	88.92%	11,007	4.75%	5,307	2.29%
SD48	225,544	7,472	3.31%	2,532	1.12%	6,373	2.83%	207,416	91.96%	6,874	3.05%	2,433	1.08%
SD49	224,474	12,633	5.63%	6,418	2.86%	7,178	3.20%	196,126	87.37%	11,672	5.20%	6,292	2.80%
SD50	227,367	8,543	3.76%	4,381	1.93%	4,372	1.92%	208,541	91.72%	8,057	3.54%	4,332	1.91%
SD51	233,130	4,792	2.06%	2,470	1.06%	5,359	2.30%	219,316	94.07%	4,342	1.86%	2,387	1.02%
SD52	230,298	8,273	3.59%	7,133	3.10%	5,213	2.26%	208,769	90.65%	7,625	3.31%	7,050	3.06%
SD53	225,205	31,654	14.06%	9,018	4.00%	8,966	3.98%	173,904	77.22%	30,034	13.34%	8,908	3.96%
SD54	227,202	7,115	3.13%	3,322	1.46%	6,211	2.73%	209,591	92.25%	6,649	2.93%	3,283	1.44%
SD55	225,668	22,652	10.04%	5,965	2.64%	12,555	5.56%	184,823	81.90%	21,243	9.41%	5,863	2.60%
SD56	221,400	37,896	17.12%	8,717	3.94%	16,933	7.65%	158,664	71.66%	35,801	16.17%	8,573	3.87%
SD57	227,093	4,437	1.95%	1,686	0.74%	6,630	2.92%	211,608	93.18%	3,976	1.75%	1,636	0.72%
SD58	233,524	9,481	4.06%	9,352	4.00%	5,360	2.30%	208,154	89.14%	8,963	3.84%	9,228	3.95%
SD59	240,388	10,023	4.17%	4,457	1.85%	5,311	2.21%	219,683	91.39%	9,469	3.94%	4,380	1.82%
SD60	228,818	12,709	5.55%	4,499	1.97%	10,152	4.44%	199,419	87.15%	11,778	5.15%	4,418	1.93%
SD61	228,446	23,378	10.23%	12,092	5.29%	4,910	2.15%	187,214	81.95%	22,706	9.94%	12,000	5.25%
SD62	230,585	14,432	6.26%	2,229	0.97%	4,614	2.00%	206,936	89.74%	13,989	6.07%	2,187	0.95%
SD63	226,243	70,070	30.97%	5,787	2.56%	11,755	5.20%	138,708	61.31%	68,421	30.24%	5,696	2.52%

## Proposed 2012 Senate Districts - Senate Majority / LATFOR - January 26, 2012

<i>Citizen Voting-Age Population from 2005-2009 American Community Survey Special Tabulation</i>									
<b>District</b>	<b>CVAP TOTAL</b>	<b>CVAP NH_WHITE</b>	<b>% CVAP NH_WHITE</b>	<b>CVAP HISPANIC</b>	<b>% CVAP HISPANIC</b>	<b>CVAP_NH BLACK_ALL</b>	<b>% CVAP_NH BLACK_ALL</b>	<b>CVAP_NH ASIAN_ALL</b>	<b>% CVAP_NH ASIAN_ALL</b>
SD01	225,053	198,778	88.32%	11,059	4.91%	11,330	5.03%	2,918	1.30%
SD02	224,197	198,800	88.67%	9,961	4.44%	5,975	2.67%	9,022	4.02%
SD03	205,648	159,232	77.43%	25,951	12.62%	15,318	7.45%	4,217	2.05%
SD04	222,722	173,208	77.77%	22,610	10.15%	20,995	9.43%	4,968	2.23%
SD05	222,661	193,793	87.04%	9,076	4.08%	6,030	2.71%	13,020	5.85%
SD06	214,718	156,287	72.79%	16,746	7.80%	33,186	15.46%	7,848	3.66%
SD07	213,884	161,928	75.71%	14,729	6.89%	14,684	6.87%	21,702	10.15%
SD08	218,179	159,882	73.28%	18,593	8.52%	33,362	15.29%	5,157	2.36%
SD09	225,393	174,609	77.47%	18,721	8.31%	20,937	9.29%	10,394	4.61%
SD10	181,882	26,168	14.39%	27,024	14.86%	108,250	59.52%	18,694	10.28%
SD11	217,874	124,403	57.10%	29,119	13.37%	11,357	5.21%	51,508	23.64%
SD12	181,194	93,887	51.82%	52,519	28.98%	10,048	5.55%	23,680	13.07%
SD13	141,369	41,695	29.49%	59,527	42.11%	14,710	10.41%	24,645	17.43%
SD14	198,605	30,736	15.48%	27,496	13.84%	116,134	58.47%	22,060	11.11%
SD15	220,622	150,096	68.03%	38,975	17.67%	6,368	2.89%	23,788	10.78%
SD16	174,827	77,112	44.11%	28,009	16.02%	7,969	4.56%	59,967	34.30%
SD17	169,003	125,260	74.12%	16,422	9.72%	7,262	4.30%	19,460	11.51%
SD18	172,722	39,765	23.02%	82,606	47.83%	42,439	24.57%	6,963	4.03%
SD19	201,105	51,470	25.59%	27,254	13.55%	110,872	55.13%	10,702	5.32%
SD20	176,111	31,918	18.12%	29,106	16.53%	105,003	59.62%	9,400	5.34%
SD21	202,487	59,312	29.29%	20,671	10.21%	112,283	55.45%	8,908	4.40%
SD22	208,445	156,231	74.95%	16,934	8.12%	2,156	1.03%	32,557	15.62%
SD23	196,118	113,442	57.84%	30,522	15.56%	33,686	17.18%	17,465	8.91%
SD24	242,510	204,961	84.52%	18,133	7.48%	4,468	1.84%	14,417	5.95%
SD25	204,959	43,950	21.44%	31,868	15.55%	122,372	59.71%	5,402	2.64%
SD26	212,638	129,174	60.75%	29,739	13.99%	11,341	5.33%	41,320	19.43%
SD27	247,252	187,572	75.86%	24,567	9.94%	10,543	4.26%	23,367	9.45%
SD28	250,989	216,043	86.08%	13,248	5.28%	5,851	2.33%	15,099	6.02%
SD29	171,396	53,567	31.25%	69,925	40.80%	41,235	24.06%	6,004	3.50%
SD30	209,936	49,947	23.79%	48,293	23.00%	103,388	49.25%	6,702	3.19%
SD31	194,667	78,131	40.14%	85,685	44.02%	23,400	12.02%	6,560	3.37%
SD32	157,085	4,361	2.78%	89,483	56.96%	58,580	37.29%	3,998	2.55%
SD33	146,152	10,412	7.12%	86,914	59.47%	43,483	29.75%	4,575	3.13%
SD34	215,891	110,333	51.11%	66,479	30.79%	28,772	13.33%	9,488	4.39%
SD35	183,495	108,515	59.14%	30,140	16.43%	33,532	18.27%	10,877	5.93%
SD36	194,225	26,905	13.85%	47,111	24.26%	114,241	58.82%	4,271	2.20%

## Proposed 2012 Senate Districts - Senate Majority / LATFOR - January 26, 2012

<i>Citizen Voting-Age Population from 2005-2009 American Community Survey Special Tabulation</i>									
<b>District</b>	<b>CVAP TOTAL</b>	<b>CVAP NH_WHITE</b>	<b>% CVAP NH_WHITE</b>	<b>CVAP HISPANIC</b>	<b>% CVAP HISPANIC</b>	<b>CVAP_NH BLACK_ALL</b>	<b>% CVAP_NH BLACK_ALL</b>	<b>CVAP_NH ASIAN_ALL</b>	<b>% CVAP_NH ASIAN_ALL</b>
SD37	201,193	161,158	80.10%	18,616	9.25%	12,680	6.30%	8,143	4.05%
SD38	175,202	135,483	77.33%	12,120	6.92%	16,700	9.53%	10,067	5.75%
SD39	193,030	148,206	76.78%	22,290	11.55%	17,064	8.84%	4,656	2.41%
SD40	200,885	172,261	85.75%	13,536	6.74%	8,276	4.12%	5,834	2.90%
SD41	214,357	180,187	84.06%	11,809	5.51%	16,063	7.49%	5,001	2.33%
SD42	206,187	168,657	81.80%	17,994	8.73%	14,682	7.12%	3,044	1.48%
SD43	221,186	209,681	94.80%	3,300	1.49%	4,357	1.97%	2,028	0.92%
SD44	210,296	171,579	81.59%	6,931	3.30%	24,868	11.83%	5,317	2.53%
SD45	222,951	209,804	94.10%	4,020	1.80%	4,727	2.12%	1,184	0.53%
SD46	218,290	202,382	92.71%	6,368	2.92%	6,283	2.88%	2,274	1.04%
SD47	213,477	197,971	92.74%	4,511	2.11%	8,087	3.79%	1,791	0.84%
SD48	214,607	201,889	94.07%	4,491	2.09%	5,223	2.43%	1,201	0.56%
SD49	209,203	190,381	91.00%	4,874	2.33%	8,692	4.16%	3,882	1.86%
SD50	214,068	202,378	94.54%	2,162	1.01%	5,016	2.34%	2,855	1.33%
SD51	219,719	209,613	95.40%	3,435	1.56%	3,524	1.60%	1,312	0.60%
SD52	216,364	202,043	93.38%	3,611	1.67%	5,756	2.66%	3,630	1.68%
SD53	205,061	169,072	82.45%	5,075	2.48%	24,658	12.02%	3,461	1.69%
SD54	212,871	200,353	94.12%	4,019	1.89%	5,178	2.43%	1,874	0.88%
SD55	211,410	180,468	85.36%	10,014	4.74%	16,580	7.84%	3,530	1.67%
SD56	204,638	157,053	76.75%	11,326	5.53%	30,999	15.15%	4,041	1.97%
SD57	220,867	209,016	94.63%	4,834	2.19%	3,298	1.49%	988	0.45%
SD58	217,734	201,946	92.75%	3,719	1.71%	5,808	2.67%	4,528	2.08%
SD59	223,259	210,573	94.32%	3,159	1.41%	5,786	2.59%	2,385	1.07%
SD60	220,644	199,338	90.34%	7,527	3.41%	9,781	4.43%	1,670	0.76%
SD61	206,978	177,757	85.88%	3,546	1.71%	19,761	9.55%	4,709	2.27%
SD62	218,963	199,273	91.01%	3,790	1.73%	12,349	5.64%	1,136	0.52%
SD63	223,234	144,658	64.80%	9,117	4.08%	65,907	29.52%	1,878	0.84%

## Proposed 2012 Senate Districts - Senate Majority / LATFOR - January 26, 2012

<b>Citizen Voting-Age Population from 2006-2010 American Community Survey</b>									
<b>District</b>	<b>CVAP_TOT</b>	<b>CVAP BLACK</b>	<b>% CVAP BLACK</b>	<b>CVAP ASIAN</b>	<b>% CVAP ASIAN</b>	<b>CVAP NH_WHITE</b>	<b>% CVAP NH_WHITE</b>	<b>CVAP HISPANIC</b>	<b>% CVAP HISPANIC</b>
SD01	219,622	10,399	4.74%	2,643	1.20%	190,500	86.74%	14,215	6.47%
SD02	223,158	6,084	2.73%	8,859	3.97%	193,855	86.87%	12,954	5.80%
SD03	201,684	15,899	7.88%	4,029	2.00%	149,976	74.36%	30,628	15.19%
SD04	218,418	21,435	9.81%	4,801	2.20%	164,756	75.43%	26,144	11.97%
SD05	217,336	6,152	2.83%	12,370	5.69%	186,602	85.86%	10,864	5.00%
SD06	213,038	32,433	15.22%	8,466	3.97%	150,072	70.44%	20,841	9.78%
SD07	210,757	15,721	7.46%	22,516	10.68%	153,229	72.70%	17,432	8.27%
SD08	212,672	32,736	15.39%	4,989	2.35%	152,336	71.63%	21,568	10.14%
SD09	221,435	22,729	10.26%	10,784	4.87%	165,866	74.91%	20,339	9.18%
SD10	180,210	104,355	57.91%	16,350	9.07%	22,142	12.29%	27,005	14.99%
SD11	207,196	10,976	5.30%	56,064	27.06%	107,961	52.11%	28,305	13.66%
SD12	176,816	11,419	6.46%	26,248	14.85%	83,788	47.39%	53,490	30.25%
SD13	137,081	15,661	11.42%	25,873	18.87%	37,140	27.09%	57,450	41.91%
SD14	195,376	110,598	56.61%	23,293	11.92%	28,212	14.44%	27,894	14.28%
SD15	209,250	6,514	3.11%	24,799	11.85%	134,156	64.11%	41,051	19.62%
SD16	175,483	7,746	4.41%	63,602	36.24%	72,154	41.12%	29,252	16.67%
SD17	166,240	7,650	4.60%	23,001	13.84%	118,784	71.45%	15,994	9.62%
SD18	174,889	45,209	25.85%	7,679	4.39%	40,914	23.39%	81,698	46.71%
SD19	198,386	113,439	57.18%	10,550	5.32%	48,864	24.63%	26,984	13.60%
SD20	174,533	105,624	60.52%	9,854	5.65%	31,305	17.94%	29,260	16.77%
SD21	198,062	112,053	56.57%	8,760	4.42%	55,632	28.09%	21,220	10.71%
SD22	200,100	2,658	1.33%	35,415	17.70%	143,267	71.60%	17,471	8.73%
SD23	189,327	34,440	18.19%	18,764	9.91%	105,400	55.67%	30,203	15.95%
SD24	232,982	4,839	2.08%	13,920	5.97%	193,373	83.00%	19,808	8.50%
SD25	205,909	120,899	58.71%	7,087	3.44%	46,272	22.47%	32,162	15.62%
SD26	212,797	11,820	5.55%	41,643	19.57%	124,905	58.70%	31,398	14.76%
SD27	241,955	11,715	4.84%	24,853	10.27%	175,999	72.74%	25,683	10.61%
SD28	241,945	5,298	2.19%	16,439	6.79%	202,644	83.76%	15,171	6.27%
SD29	177,369	49,504	27.91%	7,325	4.13%	50,367	28.40%	74,287	41.88%
SD30	209,936	104,807	49.92%	7,349	3.50%	50,766	24.18%	50,645	24.12%
SD31	192,057	29,992	15.62%	6,619	3.45%	72,297	37.64%	87,548	45.58%
SD32	163,702	67,385	41.16%	4,359	2.66%	3,937	2.41%	93,620	57.19%
SD33	146,881	47,741	32.50%	4,381	2.98%	9,510	6.47%	88,684	60.38%
SD34	215,446	35,136	16.31%	9,319	4.33%	100,476	46.64%	70,708	32.82%
SD35	186,063	35,604	19.14%	10,085	5.42%	106,042	56.99%	33,806	18.17%
SD36	194,053	117,316	60.46%	4,638	2.39%	24,516	12.63%	47,254	24.35%

## Proposed 2012 Senate Districts - Senate Majority / LATFOR - January 26, 2012

<b>Citizen Voting-Age Population from 2006-2010 American Community Survey</b>									
<b>District</b>	<b>CVAP_TOT</b>	<b>CVAP BLACK</b>	<b>% CVAP BLACK</b>	<b>CVAP ASIAN</b>	<b>% CVAP ASIAN</b>	<b>CVAP NH_WHITE</b>	<b>% CVAP NH_WHITE</b>	<b>CVAP HISPANIC</b>	<b>% CVAP HISPANIC</b>
SD37	199,399	14,798	7.42%	7,474	3.75%	153,130	76.80%	22,173	11.12%
SD38	182,206	20,291	11.14%	11,132	6.11%	135,312	74.26%	14,499	7.96%
SD39	190,824	18,859	9.88%	4,306	2.26%	143,000	74.94%	24,133	12.65%
SD40	203,339	9,639	4.74%	5,431	2.67%	170,603	83.90%	15,775	7.76%
SD41	221,087	16,565	7.49%	4,810	2.18%	183,278	82.90%	13,860	6.27%
SD42	215,404	16,930	7.86%	2,841	1.32%	172,172	79.93%	20,504	9.52%
SD43	223,233	4,163	1.86%	1,647	0.74%	209,973	94.06%	4,054	1.82%
SD44	219,520	26,564	12.10%	5,362	2.44%	175,204	79.81%	8,460	3.85%
SD45	235,708	8,853	3.76%	821	0.35%	217,553	92.30%	4,828	2.05%
SD46	224,143	7,588	3.39%	2,033	0.91%	204,320	91.16%	8,074	3.60%
SD47	222,192	10,159	4.57%	2,381	1.07%	201,424	90.65%	5,905	2.66%
SD48	219,990	6,411	2.91%	1,178	0.54%	203,871	92.67%	6,002	2.73%
SD49	214,509	9,638	4.49%	3,358	1.57%	193,101	90.02%	5,477	2.55%
SD50	219,932	7,018	3.19%	2,968	1.35%	204,015	92.76%	3,539	1.61%
SD51	227,353	3,624	1.59%	1,000	0.44%	215,845	94.94%	4,427	1.95%
SD52	224,211	6,230	2.78%	3,703	1.65%	207,106	92.37%	4,503	2.01%
SD53	212,301	25,800	12.15%	3,503	1.65%	171,801	80.92%	6,751	3.18%
SD54	218,887	6,094	2.78%	1,772	0.81%	204,408	93.39%	4,603	2.10%
SD55	215,276	18,118	8.42%	3,871	1.80%	180,547	83.87%	11,262	5.23%
SD56	209,992	31,704	15.10%	4,225	2.01%	158,155	75.32%	13,505	6.43%
SD57	224,558	3,540	1.58%	913	0.41%	211,162	94.03%	5,542	2.47%
SD58	222,465	7,554	3.40%	3,913	1.76%	203,740	91.58%	4,709	2.12%
SD59	233,160	9,088	3.90%	2,487	1.07%	215,344	92.36%	4,530	1.94%
SD60	221,290	11,558	5.22%	1,959	0.89%	196,330	88.72%	8,333	3.77%
SD61	214,991	21,096	9.81%	5,305	2.47%	181,890	84.60%	4,238	1.97%
SD62	223,579	12,950	5.79%	1,003	0.45%	202,025	90.36%	4,258	1.90%
SD63	221,199	65,591	29.65%	2,141	0.97%	140,605	63.57%	10,257	4.64%

## Measures of Compactness

The following is based on the descriptions in the *Maptitude for Redistricting™ Version 4.5 User's Guide*.

**Perimeter Test** – computes the length of the perimeter of each district, and the sum of the perimeters of all the districts. The plan with the smallest perimeter sum is the most compact.

**Schwartzberg Test** – a perimeter-based measure that compares a simplified version of each district to a circle, which is considered to be the most compact shape possible. For each district, the Schwartzberg test computes the ratio of the perimeter of the simplified version of the district to the perimeter of a circle with the same area as the original district. The district is simplified to exclude complicated coastlines, by keeping only those shape points where three or more areas in the base layer come together. Water features and a neighboring state also count as base layer areas. This measure is usually greater than or equal to 1, with 1 being the most compact. Unfortunately, the simplification procedure can result in a polygon that is substantially smaller than the original district, which can yield a ratio less than 1 (e.g., an island has a 0 ratio). The Schwartzberg test computes one number for each district and the minimum, maximum, mean and standard deviation for the plan.

**Roeck Test** - an area-based measure that compares each district to a circle, which is considered to be the most compact shape possible. For each district, the Roeck test computes the ratio of the area of the district to the area of the minimum enclosing circle for the district. The measure is always between 0 and 1, with 1 being the most compact. The Roeck test computes one number for each district and the minimum, maximum, mean and standard deviation for the plan.

**Polsby-Popper Test** – computes the ratio of the district area to the area of a circle with the same perimeter:  $4\pi\text{Area}/(\text{Perimeter}^2)$ . The measure is always between 0 and 1, with 1 being the most compact. The Polsby-Popper test computes one number for each district and the minimum, maximum, mean and standard deviation for the plan.

**Population Polygon Test** – computes the ratio of the district population to the approximate population of the convex hull of the district (the minimum convex polygon which completely contains the district). The population of the convex hull is approximated by overlaying it with a base layer, such as Census Blocks. The measure is always between 0 and 1, with 1 being the most compact. The Population Polygon test computes one number for each district and the minimum, maximum, mean and standard deviation for the plan.

**Population Circle Test** – computes the ratio of the district population to the approximate population of the minimum enclosing circle of the district. The population of the circle is approximated by overlaying it with a base layer, such as Census Blocks. The measure is always between 0 and 1, with 1 being the most compact. The Population Circle test computes one number for each district and the minimum, maximum, mean and standard deviation for the plan.

**Ehrenburg Test** – computes the ratio of the largest inscribed circle divided by the area of the district. The measure is always between 0 and 1, with 1 being the most compact. The Ehrenburg test computes one number for each district and the minimum, maximum, mean and standard deviation for the plan.

## Measures of Compactness - Senate Alternative (February 9, 2012)

DISTRICT	Roeck	Schwartz- berg	Perimeter	Polsby- Popper	Population Polygon	Population Circle	Ehrenburg
01	0.40	1.36	194.30	0.53	0.74	0.60	0.36
02	0.60	1.39	68.87	0.50	0.86	0.59	0.47
03	0.31	1.51	106.73	0.43	0.61	0.26	0.34
04	0.27	1.84	53.39	0.29	0.81	0.50	0.31
05	0.57	1.52	82.46	0.42	0.83	0.52	0.55
06	0.29	1.86	59.27	0.28	0.75	0.34	0.30
07	0.51	1.63	65.08	0.36	0.71	0.45	0.58
08	0.32	2.55	55.52	0.14	0.59	0.38	0.15
09	0.50	1.73	73.43	0.31	0.63	0.33	0.33
10	0.21	2.10	72.66	0.22	0.30	0.05	0.23
11	0.58	1.64	20.60	0.37	0.74	0.64	0.30
12	0.33	2.71	48.25	0.13	0.34	0.23	0.13
13	0.48	1.43	21.03	0.46	0.91	0.59	0.42
14	0.54	1.37	12.23	0.53	0.94	0.80	0.45
15	0.50	1.50	18.66	0.43	0.71	0.36	0.44
16	0.31	2.15	27.78	0.21	0.52	0.25	0.21
17	0.34	1.57	15.82	0.40	0.81	0.35	0.32
18	0.63	1.32	24.58	0.57	0.76	0.46	0.71
19	0.31	1.82	16.18	0.30	0.77	0.39	0.32
20	0.46	1.71	16.22	0.34	0.63	0.42	0.33
21	0.34	1.70	14.86	0.35	0.72	0.35	0.30
22	0.27	1.79	20.44	0.31	0.67	0.28	0.37
23	0.26	1.91	19.15	0.27	0.68	0.40	0.25
24	0.24	1.84	38.21	0.29	0.59	0.24	0.26
25	0.63	1.24	41.09	0.63	0.86	0.74	0.60
26	0.29	1.98	26.95	0.23	0.46	0.20	0.28
27	0.41	1.53	13.45	0.43	0.74	0.50	0.36
28	0.29	1.90	17.45	0.28	0.60	0.31	0.32
29	0.31	1.73	12.39	0.33	0.91	0.50	0.34
30	0.36	1.83	14.81	0.30	0.76	0.48	0.41
31	0.26	1.69	19.78	0.35	0.82	0.24	0.33
32	0.33	2.17	22.77	0.21	0.54	0.28	0.23
33	0.30	1.94	17.41	0.26	0.72	0.41	0.34
34	0.36	1.70	16.27	0.34	0.70	0.34	0.34
35	0.39	1.37	25.31	0.52	0.85	0.27	0.30
36	0.35	1.70	29.13	0.33	0.81	0.49	0.36
37	0.32	1.48	50.70	0.43	0.91	0.41	0.36
38	0.30	2.12	95.40	0.21	0.65	0.34	0.29
39	0.44	1.27	64.14	0.61	0.98	0.65	0.59
40	0.33	1.68	171.64	0.35	0.66	0.34	0.34
41	0.22	1.73	210.16	0.33	0.83	0.42	0.29
42	0.52	1.38	125.06	0.50	0.85	0.69	0.54
43	0.60	1.34	247.31	0.49	0.79	0.42	0.50
44	0.37	1.62	425.52	0.35	0.65	0.19	0.42
45	0.43	1.25	103.35	0.63	0.87	0.50	0.68
46	0.55	1.43	146.74	0.46	0.52	0.47	0.43
47	0.34	1.57	480.29	0.37	0.82	0.41	0.41
48	0.50	1.51	257.86	0.41	0.63	0.33	0.33
49	0.38	1.96	610.95	0.25	0.70	0.26	0.26

## Measures of Compactness - Senate Alternative (February 9, 2012)

DISTRICT	Roeck	Schwartz- berg	Perimeter	Polsby- Popper	Population Polygon	Population Circle	Ehrenburg
50	0.51	1.38	323.19	0.48	0.89	0.64	0.47
51	0.40	1.66	208.94	0.28	0.79	0.46	0.49
52	0.33	2.21	299.84	0.19	0.50	0.42	0.37
53	0.37	1.59	201.27	0.37	0.90	0.70	0.31
54	0.44	1.61	324.72	0.37	0.64	0.19	0.39
55	0.24	2.33	183.41	0.17	0.44	0.38	0.30
56	0.24	1.72	99.83	0.32	0.79	0.56	0.33
57	0.30	1.88	379.36	0.27	0.78	0.21	0.25
58	0.56	1.24	266.95	0.50	0.64	0.24	0.45
59	0.36	1.73	133.09	0.25	0.41	0.36	0.32
60	0.28	1.77	441.80	0.30	0.58	0.15	0.30
61	0.46	1.46	123.53	0.44	0.73	0.42	0.51
62	0.23	2.02	71.92	0.22	0.78	0.51	0.29
<b>Sum</b>	<b>N/A</b>	<b>N/A</b>	<b>7,449.50</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<b>Min</b>	<b>0.21</b>	<b>1.24</b>	<b>N/A</b>	<b>0.13</b>	<b>0.30</b>	<b>0.05</b>	<b>0.13</b>
<b>Max</b>	<b>0.63</b>	<b>2.71</b>	<b>N/A</b>	<b>0.63</b>	<b>0.98</b>	<b>0.80</b>	<b>0.71</b>
<b>Mean</b>	<b>0.39</b>	<b>1.70</b>	<b>N/A</b>	<b>0.36</b>	<b>0.71</b>	<b>0.41</b>	<b>0.37</b>
<b>Std. Dev.</b>	<b>0.11</b>	<b>0.31</b>	<b>N/A</b>	<b>0.12</b>	<b>0.15</b>	<b>0.15</b>	<b>0.12</b>

**Measures of Compactness - Proposed Senate Districts  
Senate Majority / LATFOR - January 26, 2012**

<b>DISTRICT</b>	<b>Roeck</b>	<b>Schwartz- berg</b>	<b>Perimeter</b>	<b>Polsby- Popper</b>	<b>Population Polygon</b>	<b>Population Circle</b>	<b>Ehrenburg</b>
SD01	0.39	1.41	201.78	0.48	0.83	0.60	0.36
SD02	0.35	2.08	105.13	0.23	0.59	0.30	0.49
SD03	0.40	2.17	128.02	0.20	0.68	0.37	0.29
SD04	0.35	1.95	100.97	0.26	0.62	0.35	0.37
SD05	0.58	1.52	85.01	0.43	0.86	0.73	0.54
SD06	0.33	2.03	52.00	0.24	0.65	0.38	0.23
SD07	0.41	1.81	58.09	0.30	0.59	0.36	0.38
SD08	0.42	1.75	70.19	0.32	0.65	0.35	0.42
SD09	0.49	1.85	62.34	0.28	0.65	0.42	0.28
SD10	0.34	1.85	42.09	0.27	0.79	0.39	0.26
SD11	0.38	3.67	68.35	0.07	0.52	0.30	0.15
SD12	0.16	3.55	41.09	0.08	0.46	0.14	0.16
SD13	0.45	1.87	21.68	0.28	0.63	0.46	0.40
SD14	0.38	3.15	42.42	0.10	0.64	0.45	0.38
SD15	0.20	3.08	91.61	0.10	0.13	0.06	0.27
SD16	0.17	5.14	59.16	0.04	0.37	0.23	0.11
SD17	0.33	2.96	26.36	0.11	0.64	0.37	0.17
SD18	0.22	2.91	28.98	0.12	0.58	0.25	0.20
SD19	0.47	2.36	41.28	0.18	0.59	0.27	0.58
SD20	0.14	3.13	24.99	0.10	0.53	0.21	0.30
SD21	0.40	2.20	22.61	0.21	0.61	0.34	0.28
SD22	0.21	3.11	41.27	0.10	0.48	0.21	0.17
SD23	0.20	2.74	56.88	0.13	0.33	0.18	0.17
SD24	0.59	1.36	45.36	0.53	0.75	0.71	0.57
SD25	0.25	2.34	27.88	0.17	0.58	0.19	0.20
SD26	0.29	2.51	27.13	0.15	0.59	0.33	0.25
SD27	0.39	2.79	26.73	0.13	0.58	0.54	0.15
SD28	0.31	2.54	16.74	0.16	0.72	0.55	0.21
SD29	0.17	3.33	34.69	0.09	0.31	0.17	0.12
SD30	0.31	2.88	19.89	0.12	0.74	0.56	0.28
SD31	0.11	3.02	31.80	0.11	0.50	0.15	0.20
SD32	0.40	3.45	28.70	0.08	0.76	0.61	0.17
SD33	0.33	2.84	20.71	0.12	0.71	0.43	0.30
SD34	0.44	3.57	81.99	0.08	0.21	0.17	0.22
SD35	0.43	2.47	70.26	0.16	0.58	0.47	0.47
SD36	0.31	1.77	20.75	0.30	0.89	0.49	0.33
SD37	0.23	2.78	125.75	0.12	0.50	0.33	0.18
SD38	0.40	1.44	64.62	0.47	0.89	0.72	0.47
SD39	0.41	1.80	146.30	0.28	0.79	0.43	0.26
SD40	0.31	2.18	166.39	0.20	0.72	0.41	0.21
SD41	0.35	1.57	168.39	0.39	0.82	0.42	0.46
SD42	0.32	1.95	372.46	0.23	0.61	0.36	0.38
SD43	0.26	1.93	298.63	0.24	0.34	0.27	0.20
SD44	0.41	1.86	83.42	0.27	0.85	0.65	0.30
SD45	0.36	1.74	550.53	0.30	0.85	0.37	0.44
SD46	0.23	2.25	359.74	0.19	0.57	0.21	0.23
SD47	0.19	2.37	509.23	0.17	0.77	0.35	0.26
SD48	0.25	1.71	413.34	0.31	0.86	0.46	0.32
SD49	0.38	1.77	408.53	0.30	0.71	0.31	0.42

**Measures of Compactness - Proposed Senate Districts  
Senate Majority / LATFOR - January 26, 2012**

<b>DISTRICT</b>	<b>Roeck</b>	<b>Schwartz- berg</b>	<b>Perimeter</b>	<b>Polsby- Popper</b>	<b>Population Polygon</b>	<b>Population Circle</b>	<b>Ehrenburg</b>
<b>SD50</b>	0.46	2.20	215.04	0.17	0.58	0.53	0.35
<b>SD51</b>	0.26	2.62	640.42	0.14	0.34	0.17	0.32
<b>SD52</b>	0.40	1.60	255.35	0.36	0.93	0.59	0.40
<b>SD53</b>	0.42	1.97	245.73	0.21	0.75	0.51	0.40
<b>SD54</b>	0.42	1.45	276.16	0.46	0.66	0.18	0.44
<b>SD55</b>	0.18	2.23	228.60	0.19	0.44	0.27	0.24
<b>SD56</b>	0.43	1.64	148.28	0.36	0.59	0.47	0.49
<b>SD57</b>	0.33	1.72	422.82	0.29	0.63	0.18	0.34
<b>SD58</b>	0.62	1.26	233.89	0.62	0.94	0.84	0.52
<b>SD59</b>	0.29	2.17	335.08	0.18	0.54	0.18	0.29
<b>SD60</b>	0.31	2.03	152.88	0.22	0.45	0.34	0.33
<b>SD61</b>	0.24	1.77	190.57	0.25	0.77	0.29	0.35
<b>SD62</b>	0.44	1.26	234.67	0.46	0.83	0.24	0.51
<b>SD63</b>	0.50	1.72	50.04	0.32	0.82	0.65	0.35
<b>Sum</b>	<b>N/A</b>	<b>N/A</b>	<b>9,221.79</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
<b>Min</b>	<b>0.11</b>	<b>1.26</b>	<b>N/A</b>	<b>0.04</b>	<b>0.13</b>	<b>0.06</b>	<b>0.11</b>
<b>Max</b>	<b>0.62</b>	<b>5.14</b>	<b>N/A</b>	<b>0.62</b>	<b>0.94</b>	<b>0.84</b>	<b>0.58</b>
<b>Mean</b>	<b>0.34</b>	<b>2.29</b>	<b>N/A</b>	<b>0.23</b>	<b>0.63</b>	<b>0.38</b>	<b>0.32</b>
<b>Std. Dev.</b>	<b>0.11</b>	<b>0.73</b>	<b>N/A</b>	<b>0.13</b>	<b>0.18</b>	<b>0.17</b>	<b>0.12</b>

## **The Size of the New York State Senate: a Reply to Michael Carvin**

Todd A. Breitbart

January 8, 2012

On Friday, January 6, the NYS Legislative Task Force on Demographic Research and Reapportionment (LATFOR) posted on the FAQ page of its web site a memorandum titled "Senate Size," dated January 5, 2012, from Michael Carvin, outside counsel to the NYS Senate Majority. Mr. Carvin's memo presents the Republicans' new interpretation of the NYS constitutional rule for determining the number of State Senate districts. Mr. Carvin falsely claims that an increase from 62 to 63 districts is the necessary and straightforward application of his previous interpretation, given in a memo, also titled "Senate Size," dated March 7, 2002.

Most of Mr. Carvin's new memo is devoted to arguing that I erred in testifying at a LATFOR hearing that the interpretation he offered in 2002, when applied to the 2010 census data, would again produce 62 districts. **Essentially, Mr. Carvin faults me for applying, consistently, what he called in 2002 "the best method for apportioning the New York Senate," the "methodology [that] is most consistent with the intent underlying the New York Constitution."**

As explained below, the constitutional rule requires that present-day counties be compared with the counties and Senate districts as they stood when the rule was adopted in 1894. For this purpose certain pairs of counties must be treated as though each pair were a single county. There are two different procedures, both reasonable, that might be followed for combining the counties. One procedure was applied to every pair of counties in 1972, 1982 and 1992. The other was applied to every pair of counties in 2002.

**The Senate Republicans and their counsel Mr. Carvin have now decided that they cannot achieve their partisan designs by following one constitutional rule consistently. They apply one procedure to one pair of counties, and a different procedure to another pair, in order to arrive at the exact number of districts that will suit their partisan purposes. There is no justification for this inconsistent and self-contradictory practice, and they have offered none. Instead, they attempt to obscure what they are doing.**

### **Historical and Legal Background**

For those coming into this conversation in the middle, some background will be helpful.

The number of Senate districts is determined by a rule, dating from 1894, in Article III, §4, of the NY State Constitution. The rule applies to counties that contain more than 6% of the total state population. Whenever the population of such a county rises to a larger proportion of the statewide total than in 1894 – counting by increments of 1/50<sup>th</sup> (2%) of the state total, after dropping the remainders – then a district is added to the total of 50 districts that were created in 1894. The counties that have grown enough to

matter are Bronx, Nassau, Queens, Richmond, Suffolk, and Westchester. A county's decline in population, relative to the rest of the state, has no effect, and a county with less than 6% of the state population does not figure in the formula.

The rule is somewhat ambiguous because the NYS Court of Appeals has ruled that the population comparison must be based on the counties as they were in 1894.<sup>1</sup> Nassau County was created out of Queens County in 1899, so Queens and Nassau are treated as a unit.<sup>2</sup> According to one interpretation of the rule, Westchester County must be considered as a unit with the part of the Bronx east of the Bronx River, since that area was part of Westchester in 1894, but other interpretations combine the whole of Bronx County with New York County, or with both New York and Westchester Counties.<sup>3</sup> (Bronx County did not exist until 1914.) The Court has also ruled that Richmond and Suffolk Counties must be treated as a unit, since those two counties were combined as a single Senate district in 1894.<sup>4</sup>

There have been two different methods of combining the counties for this comparison. One method was used in the reapportionment law of 1972, upheld that year by the Court of Appeals in *Schneider v. Rockefeller*,<sup>5</sup> and used again without question in 1982 and 1992. The Senate Republicans drew all of these reapportionment plans. That formula produced 60 districts in 1972, and 61 districts in 1982 and 1992. The increase of one district resulted from changes in population distribution, not from a change in the formula. If the same formula had been applied in 2002, there would again have been 61 districts. The Republican Senate Majority decided, however, that their political calculations would be best served by creating 62 districts in 2002.<sup>6</sup> The Senate Majority's outside counsel, Mr. Carvin, then produced his March 7, 2002 memo justifying the new formula. From that date until last week, the 2002 memo, which remained on the LATFOR web site, was the only guidance provided to the public about the correct method for determining the number of Senate districts. Then late in the afternoon of Friday, January 6, 2012, Mr. Carvin's new memo was added.

---

<sup>1</sup> *Schneider v. Rockefeller*, 31 N.Y.2d 420, 432 (1972)

<sup>2</sup> *Id.* at 432-433.

<sup>3</sup> *Id.* at 433-434. *See also* Carvin, "Senate Size," March 7, 2002, section titled "**1. Westchester, New York and Bronx Counties.**"

<sup>4</sup> *Id.* at 435.

<sup>5</sup> *Id.* at 432-433.

<sup>6</sup> An internal Senate Majority memorandum, dated July 20, 2001, and divulged during the document discovery phase of *Rodriguez v. Pataki* (2004), states: "We have had numerous discussions regarding the possibility of the Senate increasing in size to 63. While the ultimate decision will be made with political numbers for proposed districts at each size in hand, I believe that the decision basically comes down to the raw census numbers." There is no discussion of what the NYS Constitution might require. Memorandum titled "Size of the Senate" (filename: "Not63"), July 20, 2001, at 1, *Rodriguez v. Pataki* SDNY 02 Civ. 618.

The memo can be found at the following locations:

<http://blog.timesunion.com/capitol/archives/81427/senate-spokesmen-duel-over-prospect-of-63rd-member/>  
<http://www.nydailynews.com/blogs/dailypolitics/2011/09/hammond-the-smoking-gun-on-redistricting>

### Determining the Proper Number of Senate Districts

The current disagreement concerns the procedure for aggregating the populations of the present-day counties, for comparison with the counties and districts of 1894. This is not a dispute over the proper method to use. The question is whether one method – either method – is to be used consistently.

**Mr. Carvin's new method is to follow one procedure for combining the populations of Queens and Nassau, which constituted Senate District 2 in 1894, and a different procedure for Richmond and Suffolk, which then constituted Senate District 1.**

In the following discussion I will refer, for the sake of convenience, to Procedure A and Procedure B (my terms). The term 'ratio of apportionment' means 1/50<sup>th</sup> (2%) of the total state population. The number of 'full ratios' in a county is determined by dividing the county's population by the 'ratio of apportionment,' then dropping the remainder. So a county with 2.01% of the state population, and a county with 3.99%, would both have one 'full ratio.'

Procedure A: Combine the populations of the two counties, and then round down to the number of 'full ratios' contained in the combined population.

Procedure B: Round down the population of each county separately to the number of 'full ratios' in each county, and then add the 'full ratios' (after rounding, not before). This is the procedure that Mr. Carvin described in his March 7, 2002 memo as part of "the best method for apportioning the New York Senate," the "methodology [that] is most consistent with the intent underlying the New York Constitution."<sup>7</sup>

In 1972 (as upheld in *Schneider v. Rockefeller*), and again in 1982 and 1992, Procedure A was used – by Republican Senate majorities in each year. In order to get to 62 districts in 2002, but not 63, Mr. Carvin argued for the following.

- 1) The part of the Bronx east of the Bronx River should be combined with Westchester, not with New York County as in the three prior decades. This brought Westchester into play, by bringing the combined population above the 6% threshold, and thereby added two districts beyond what the previous interpretation of the Bronx/Westchester/New York history would have produced.

---

<sup>7</sup> Mr. Carvin's March 7, 2002 memo is now available as an attachment to his January 5, 2012 memo:

<http://latfor.state.ny.us/faqs/docs/2012senatesize.pdf>

The memos are also available by a link from the LATFOR FAQ page:

<http://latfor.state.ny.us/faqs/>

In the 2002 memo, the phrases quoted above appear in the first paragraph, and the method he advocated for combining counties is presented in the second and third paragraphs from the end, under the heading "2. Nassau and Queens Counties."

- 2) County-combination Procedure B, as described above, should be used instead of Procedure A. This second change produced a reduction of one district when applied to the Queens/Nassau combination, but no difference elsewhere. The net effect of the two changes was an increase of one district, from 61 to 62, as explained in Mr. Carvin's March 7, 2002 memo.

### Mr. Carvin's New Mix-and-Match Calculation

Mr. Carvin now argues that county-combination Procedure A should be used for Richmond and Suffolk, while county-combination Procedure B should be used again for Queens and Nassau. He seeks to hide the inconsistency in the table that follows his new memo ("2010 Senate Size Calculation") by showing separately the populations of the counties (or parts of Bronx County) that figure in every other part of the calculation, but stating the combined population of Richmond and Suffolk, from the outset, as a single number. Of course, no such number is to be found in any census data tabulation except Mr. Carvin's. If he had displayed the entire calculation for every combination, the inconsistency would have been glaringly obvious.

The label Mr. Carvin uses in his table is "District 1 (Richmond/Suffolk)," after which he shows the combined current population of the counties and the number of 'full ratios' derived from that combined population. His justification for listing Richmond/Suffolk as a unit, with the combined 2010 population, not the sum of the separately computed 'full ratios' is that he is simply listing the present day population of what in 1894 was Senate District 1.

But the first three sentences of the NYS Constitution, Article III, §3, in the original 1894 text,<sup>8</sup> are as follows:

§ 3. [Senate districts.]-The State shall be divided into fifty districts to be called senate districts, each of which shall choose one senator. The districts shall be numbered from one to fifty, inclusive.

District number one (1) shall consist of the counties of Suffolk and Richmond.

District number two (2) shall consist of the county of Queens.

The area that in 1894 was the county of Queens now comprises the counties of Queens and Nassau. So why does Mr. Carvin list the present-day Queens and Nassau Counties separately, showing the current population of each? Why does he not simply show: "District 2 (Queens/Nassau)," with the combined population, since the present-day Queens and Nassau counties constituted District 2 in 1894? The obvious answer is that, in order to arrive at the exact number of districts that serves the Senate Republicans' partisan calculation, he must, when dealing with the District 2 of 1894, employ what he

---

<sup>8</sup> The 1894 text of the Constitution is available at:  
[http://www.nycourts.gov/history/constitutions/1894\\_constitution.htm](http://www.nycourts.gov/history/constitutions/1894_constitution.htm)

called in 2002 the "methodology [that] is most consistent with the intent underlying the New York Constitution." But to arrive at the desired result, he must also employ a different methodology when dealing with the District 1 of 1894.

If county-combination Procedure B were applied consistently, the result would be 62 districts, as shown in the technical appendix to the written testimony I submitted to LATFOR on September 22, 2011. If Procedure A were used consistently, the result would be 64 districts, since the combined populations of Queens and Nassau would equal 9.21 full ratios, which according to Procedure A would then be rounded down to 9, not 8 - producing an addition of 8 full ratios, not 7, over Queens County's one Senate district of 1894. (The 64-district possibility was not addressed in anyone's testimony, since no one has ever advocated that the treatment of the Bronx adopted in 2002, which Mr. Carvin proposes to employ again this year, be combined with county-combination Procedure A. The constitutional interpretation adopted by the Senate Republicans in 1972, 1982, and 1992, taken as a whole, and the different interpretation they adopted in 2002, would each produce 62 districts if applied *consistently* to the 2010 census data.)

Mr. Carvin offers no justification for the inconsistency, except to argue that Procedure A was always used previously for Richmond and Suffolk. But the same was true in 1972, 1982, and 1992 for Queens and Nassau as well. For 2002 the case of Richmond and Suffolk is undetermined, since both methods would have produced the same result for Richmond/Suffolk on the basis of the 2000 census.

The last paragraph of Part IV of the Court of Appeals decision in *Schneider v. Rockefeller*, 31 N.Y.2d 420, 434 (1972), reads in full:

Finally, there is no dispute as to the increase of two senators attributable to the grouping of Richmond and Suffolk Counties, which under the 1894 Constitution constituted one Senate district. The apparent reason is that, in this instance, under either method -- aggregating of population or aggregating of full ratios -- the same result is indicated -- an increase of two senators.

The Court gives no indication that the case of Suffolk/Richmond was to be distinguished from that of Queens/Nassau, and it would have made no difference. The method of aggregating populations, then rounding down afterward, was used for all county combinations in 1982 and 1992 (and by the Federal District Court's Special Master in 1982). In 2002, both methods of aggregation would again have produced the same result for Richmond/Suffolk, just as noted by the Court of Appeals in reference to the 1972 redistricting. In 2002, both methods produced an increase of three districts over the one Richmond/Suffolk district of 1894.

Mr. Carvin's March 7, 2002 memorandum does not mention the Richmond/Suffolk combination. It was unnecessary to do so, since both methods would have produced the same result. **If he meant to distinguish the Richmond/Suffolk case, and to arrive at the same result, but by a different constitutional reading, he did not**

**reveal that until January 5, 2012. If the two cases were indeed distinguished in 2002, Mr. Carvin has held that secret in his heart of hearts for ten painful years.**

The Richmond/Suffolk combination did not figure in the size-of-the-Senate formula until 1972. (According to the 1960 census counts, the Richmond/Suffolk combination did not yet reach the threshold of three full ratios, by either method of reckoning.<sup>9</sup>)

So when Mr. Carvin, in his January 5, 2012 memo, says that the proper method "is to combine Richmond and Suffolk's populations ... as has been done in every redistricting," he is speaking only of the redistrictings of 1972 through 2002. In 1972, 1982, and 1992, however, this method was also used for Queens and Nassau, and in 2002 both procedures would have produced the same result for Richmond and Suffolk. Neither Mr. Carvin nor anyone else said anything in 2002 about adopting, for the first time, differing methods of calculation for Richmond/Suffolk and Queens/Nassau.

**It seems that Mr. Carvin now reads his own March 7, 2002 memo as containing several substantial paragraphs that are not to be seen there, and that no one else could have guessed at. One might have supposed that Mr. Carvin was being consistent in 2002. He now tells us otherwise.** The invisible paragraphs presumably explained that the method for aggregating county populations or full ratios was to depart from the 1972-1992 precedents for Queens/Nassau, but not for Richmond/Suffolk. Presumably the invisible paragraphs also explained the basis for this distinction, but Mr. Carvin has not yet revealed his reasoning. When I made the statement cited in Mr. Carvin's latest memo, that the legal theory in his March 7, 2002 memo - as distinguished from the circumstances in which it was produced - was reasonable, I was unaware that the theory had hidden, unexplained provisions that do not actually appear in the 2002 memo.<sup>10</sup>

---

<sup>9</sup> The total state population in 1960 was 16,782,304, yielding a 'full ratio' of 335,646. Richmond had a population of 221,991, and Suffolk had 666,784. The total of 888,775 would have been 2.65 ratios - only 2 full ratios - not enough to matter. Taken separately, Richmond had zero full ratios (its population was less than one full ratio), and Suffolk had one (1.99, rounded down), for a total of one full ratio for the combination

<sup>10</sup> The only difference between the two pairs of counties is that Queens/Nassau involves comparison with a single 1894 county (Queens) as well as a single 1894 district (District 2), while Richmond/Suffolk involves comparison with a single 1894 district (District 1) where the counties remain unchanged. But this provides no basis at all for using inconsistent procedures to combine present-day counties in making the comparison. If Queens and Nassau had been separate counties in 1894, but a single district (1894 District 2), the growth of their populations would still bring them into the Senate-size computation, just as population growth has brought Richmond and Suffolk (1894 District 1) into the computation. As noted above, the only legal precedent that addresses these two county combinations attaches no significance to this difference (*Schneider v. Rockefeller*, 31 N.Y.2d 420, 434 [1972]). Mr. Carvin does not mention it in his 2002 memo, and he offers no reason for it in his 2012 memo. Indeed, as shown above, his latest memo tries to obscure the fact that he is treating the two county combinations differently, not to offer a reason for doing so.

### The Senate Majority's Tell-tale Timing

The timing of the new Carvin memo is telling. If the number of districts were to be determined on the basis of Mr. Carvin's reasoning, the matter could have been settled definitively in March, when the block-level census data became available. If Mr. Carvin had meant - for reasons not yet explained - to distinguish the Queens/Nassau and Richmond/Suffolk cases in 2002, but just forgot to mention it in his 2002 memo, he need not have waited until January 5, 2012 to make good his omission. Sen. Nozzolio could have sought Mr. Carvin's guidance on the constitutional issue after any of the many occasions when this matter was addressed during the hearings and meetings of LATFOR.

The public have again been misled, and encouraged as in 2001-02 to propose plans for a different number of districts than the Senate Majority intended to create. No one relying on Mr. Carvin's March 7, 2002 memo, as the LATFOR FAQ page encouraged them to do, could have guessed that his interpretation would yield any number but 62 districts when applied to the 2010 census data. To have known about the distinction between the method for combining Queens and Nassau and the method for combining Richmond and Suffolk, they had to be privy to the hidden provisions of Mr. Carvin's constitutional theory – the invisible paragraphs of his 2002 memo.

It is clear that Senators Skelos and Nozzolio waited until they had decided the number of districts that would serve their partisan purposes - exactly as Sen. Skelos did as Co-Chair of LATFOR in 2001-02 - and that, having again made the decision for reasons having nothing to do with constitutional rules, they again left it to Mr. Carvin to provide a constitutional rationale.

In 2002, Mr. Carvin was able to provide a legal theory that was reasonable, if considered apart from the circumstances in which he produced it, and if applied consistently. This year he has not been able to discover a reasonable theory that yields the desired result.

## **The Number of New York State Senate Districts**

Todd A. Breitbart

**Updated February 8, 2012**

“The Constitution is an inconvenient truth.”

- Sen. Michael F. Nozzolio, September 21, 2011

My epigraph is a statement made by Sen. Michael F. Nozzolio, the Co-Chairman of the NYS Legislative Task Force on Demographic Research and Reapportionment (LATFOR), at yesterday’s LATFOR hearing in Manhattan. He was explaining that, absent an amendment to the NYS Constitution, the Legislature cannot divest itself of the authority to redistrict the Senate and Assembly.

Later in the same hearing, asked whether LATFOR intended to propose the creation of 62 Senate districts or some other number, Sen. Nozzolio said that no decision had yet been made. I urge Sen. Nozzolio to heed something that someone said yesterday when addressing a different question: “The Constitution is an inconvenient truth.”

At the July 19, 2011 public hearing, in Syracuse, Sen. Nozzolio, expressed the belief that LATFOR should postpone determining and announcing the number of Senate districts to be created, but “should be asking the public for their view as opposed to determining any kind of dictation of a number,” and should find out “what the public wants in terms of a number of representatives.”<sup>1</sup>

At the July 20, 2011 hearing in Rochester, anticipating that Sen. Dilan would repeat his earlier request that LATFOR settle the size of the Senate, so that persons recommending redistricting plans to LATFOR would know how many districts to create, Sen. Nozzolio said:

The Senate is currently at a number, the New York State Senate is currently at a number of 62 members, and that Senator Dilan raising a very thought-provoking question as to what will the number of the Senate be? The Constitution and the laws of the state provide for the ability for that number to grow or shrink depending on particular policy questions, and Senator Dilan has raised that question now twice. I think that it's important to put out that we certainly would welcome, and I frankly don't believe any decision should be made, Senator, until at such time as the public has an opportunity to review that process and provide us with input. Let the public tell us whether the State Senate, which is now at 62 should be changed to another number.<sup>2</sup>

---

<sup>1</sup> *New York State Legislative Task Force on Demographic Research and Reapportionment, Public Hearing, Congressional and State Legislative Redistricting, Syracuse, New York, Tuesday, July 19, 2011, at 88:12-21; available at: <http://latfor.state.ny.us/hearings/docs/20110719trans.pdf>.*

<sup>2</sup> *New York State Legislative Task Force on Demographic Research and Reapportionment, Public Hearing, Congressional and State Legislative Redistricting, Rochester, New York, Wednesday, July 20, 2011, at 9:23 - 10:16; available at: <http://latfor.state.ny.us/hearings/docs/20110720trans.pdf>*

These statements are disturbing for the following reasons:

1. There is no constitutional basis for creating any other number than 62 districts in the pending redistricting.
2. The New York State Constitution does not give the Legislature discretion to create a convenient number of Senate districts, whatever considerations may be thought to determine convenience, and it does not “provide for the ability for that number to grow or shrink depending on particular policy questions.”
3. NYS CONST. art. III, §4, par. 3, contains a rule, which must be followed, for determining the number of Senate districts on the basis of the growth of certain county populations since 1894, relative to the state as a whole, and on no other factors whatever. The Legislature has no more discretion to vary the number of Senate districts on the supposed basis of “what the public wants in terms of a number of representatives” or “particular policy questions,” than to create some number other than 150 Assembly districts. The county population figures from the 2010 census, which have been available since March, provide all the information that is necessary to determine the number of Senate districts to be created, and there is no valid reason for delaying that determination.
4. The correct interpretation of some aspects of the rule has been subject to dispute, and the ambiguities have provided an opportunity for the Legislature to manipulate the rule for the political convenience of the Senate Majority; but such a history hardly constitutes a constitutional grant of discretion to the Legislature.<sup>3</sup> The interpretation upheld by the NYS Court of Appeals in 1972, and followed by the Legislature in redistricting the Senate in 1972, 1982, and 1992, and the new interpretation followed in 2002, would both yield a Senate of 62 districts when applied to the 2010 census counts. The subtraction and reallocation of prison populations required by Legislative Law §83-m(13) cannot change the relevant county populations sufficiently to affect the number of Senate districts.
5. As of this date, September 14, 2011, the ‘FAQ’ page of the LATFOR website still shows a link, “Click here to view technical determination of the size of the Senate,” which leads to the March 7, 2002 memorandum by the Senate Majority’s outside counsel, Michael A. Carvin, advocating the interpretation of art. III, §4, par. 3, that was used to justify the creation of 62 districts in 2002.<sup>4</sup> The Senate Majority recently entered into a new \$3 million contract with Mr. Carvin’s firm, Jones Day, for legal consulting on redistricting through March 2014.<sup>5</sup> Sen.

---

<sup>3</sup> See the Appendix, *Determining the Number of New York State Senate Districts, 1972-2012*, for a detailed discussion of the rule, the development of its interpretation in a series of rulings by the NYS Court of Appeals, the variant interpretations of several elements of the formula, and the application of those interpretations to past and current census data.

<sup>4</sup> <http://latfor.state.ny.us/docs/20020308/>

<sup>5</sup> See a press report at: <http://www.nydailynews.com/blogs/dailypolitics/2011/07/senate-and-assembly-lawyering-up-for-redistricting-updated>; and the listing on the NYS Comptroller’s web site at:

Nozzolio’s remarks in Syracuse and Rochester can only mean that either a) he has not read Mr. Carvin’s memorandum; or b) he and his colleagues in the Senate Majority are preparing a further self-serving manipulation of the constitutional rule. This will presumably be followed by the discovery that a wholly novel constitutional interpretation is, in Mr. Carvin’s words from 2002, “the best way to implement the New York and federal requirements governing apportionment,” and the “methodology ... most consistent with the intent underlying the New York Constitution.”

### **NYS CONST. art. III, §4, par. 3: the Constitutional History**

There have been varying interpretations of the rule, arising from the fact that two populous counties – Bronx and Nassau – were erected after the adoption of art. III, §4, in 1894, and from the fact that in 1894 art. III, §4, established Richmond and Suffolk Counties, combined, as a single Senate district. In *Matter of Dowling*, 219 N.Y. 44 (1916), and *Matter of Fay*, 291 N.Y. 198 (1943), the NYS Court of Appeals determined that the rule must be based on the counties as they existed in 1894 (treating the Richmond/Suffolk combination as a single county). After the US Supreme Court ruled, in *WMCA, Inc. v. Lomenzo*, 377 U.S. 633 (1964), that the population deviations of New York State legislative districts violated the Equal Protection Clause of the 14<sup>th</sup> Amendment, the Court of Appeals considered, in *Matter of Orans*, 15 NY2d 339 (1965), the degree to which the rules established in NYS CONST. art. III, §§4-5, were still to be followed. The Court determined that although the rule for determining the number of Senate districts could no longer affect the apportionment of districts, it must still operate to determine the total number of Senate districts. The proper interpretation of the rule was last litigated in *Schneider v. Rockefeller*, 31 NY2d 420 (1972). The interpretation upheld in *Schneider* was followed without question or controversy in the redistrictings of 1982 and 1992, and followed also by the Special Master appointed by the US District Court to prepare a plan that the Court itself might have imposed in *Flateau v. Anderson* (1982).<sup>6</sup> In 2002 the Legislature created 62 Senate districts, adopting the interpretation that had been advocated by the unsuccessful *Schwartz* group of plaintiffs in *Schneider*. This is the interpretation presented in Mr. Carvin’s March 7, 2002 memorandum. A more complete account of this history, with tables showing how the rule applied to the census counts of each decade, may be found in the Appendix.

### **The Manipulation of the Size-of-the-Senate Rule in 2001 - 2002**

The Senate Majority announced on the LATFOR website, beginning in the spring of 2001, that the Senate would have 61 districts, and solicited proposals from the public

---

<http://www1.osc.state.ny.us/transparency/contracts/contracttransactions.cfm?Contract=C150024&Agency=04000&entitytype=Agency>

<sup>6</sup> See *Appendix II to Report of the Special Master: New York State Senate Plan*, June 7, 1982 and *Appendix B to Report of the Special Master: Report of Ketron, Inc.*, June 7, 1982. The Special Master proposed to create 61 Senate districts, in place of the 60 districts then existing, not from considerations of policy, convenience, or public opinion, but because the constitutional interpretation that was followed by the Legislature in 1972, and upheld in *Schneider*, yielded 61 districts when applied to the 1980 census data. The plan eventually enacted into law also created 61 districts, for the same reason.

on that basis. The website continued to indicate that there would be 61 districts until February 2002 (at least as late as February 13, *the day before* the Senate Majority first announced its 62-district proposal).

But the decision to create 62 districts was made long before it was disclosed to the public, and for reasons having nothing to do with the proper interpretation of NYS CONST. art. III, §4, par. 3. The story is told in three memoranda written by the staff member who performed most of the technical work of drafting redistricting plans for the Senate Majority, addressed to the principal policy-makers, and divulged in 2003 during the discovery phase of *Rodriguez v. Pataki* (2004).<sup>7</sup>

The May 4, 2001 Memorandum: “Reapportionment Areas”

An internal memorandum titled “Reapportionment Areas,” dated May 4, 2001, shows that the Senate Majority had decided by that date that they would probably create 62 districts, and discusses the parts of the state where “wobble room” could be found to create a Senate of either 61 or 62 districts.<sup>8</sup>

The July 20, 2001 Memorandum: “Size of the Senate”

A second internal memorandum, “Size of the Senate,” dated July 20, 2001, shows that the decision to create 62 districts had been settled by that date, although there had been many internal discussions of the possibility of creating 63 districts.<sup>9</sup> The memorandum makes it clear that:

- a. The decision to create 62 districts involved no discussion whatever of the proper interpretation of NYS CONST. art. III, §4, par. 3.
- b. The decision to create 62 districts, and not 61 or 63, was purely a calculation of partisan advantage (p. 1, par. 1-2):

While the ultimate decision will be made with political numbers for proposed districts at each size in hand, I believe that the decision basically comes down to the raw census numbers.

---

<sup>7</sup> The author’s name has been redacted from the copies of the memoranda accompanying this statement. The documents are not otherwise altered, and the originals can be provided when necessary. The important issue is not the conduct of a staff member, but the decisions made by the policy-makers to whom the memoranda are addressed. The memoranda, originally confidential, provide authoritative testimony about the decisions the policy-makers and the author had made together, and the reasons for those decisions. The policy-makers to whom the memoranda were addressed are: Sen. Dean Skelos, then the Co-Chairman of LATFOR (since elected Majority Leader); Steve Boggess, then the Secretary of the Senate (since retired); and the late Vinnie Bruy, then the public member of LATFOR appointed by Majority Leader Bruno, and an expert analyst of political data for the Nassau County Republican Party.

<sup>8</sup> Memorandum titled “Reapportionment Areas,” May 4, 2001, *Rodriguez v. Pataki* SDNY 02 Civ. 618. For “wobble room,” see p. 1, par. 2, ninth line.

<sup>9</sup> Memorandum titled “Size of the Senate,” July 20, 2001, *Rodriguez v. Pataki* SDNY 02 Civ. 618. (PDF file name: “Not63.”)

I have previously stated my contention that the only reason to go to 63 is to strengthen the Long Island delegation by combining politically undesirable areas in the extra district. There are no areas elsewhere in the state where we have the opportunity to pick up a district, or strengthen surrounding districts solely on the basis of adding another district to an area. [Emphasis in original.]

- c. The size of the Senate was increased to facilitate the manipulation of district population deviations, so as to skew the apportionment of districts in favor of the upstate region, to the disadvantage of the downstate region – thus preventing population trends revealed in the 2000 census from leading to the reapportionment of one district from upstate to downstate (p. 1, par. 2, last two sentences):

In fact, as you will recall, our proposed redistricting areas upstate are already configured in such a manner as to draw districts *light*, to avoid migration downstate. Adding another district anywhere upstate would exacerbate that situation. [Emphasis in original.]

The author uses “migration” in this passage to refer to the “migration” of a district, *i.e.*, reapportionment, not to the migration of persons. The LATFOR computer system was programmed at that time to produce a “Migration Report,” showing how much of the population of each newly drawn district would come from each previously existing district. The “exacerbat[ion]” of “that situation” would have been the creation of a total population deviation of more than 10% between the largest and smallest districts, making the plan especially vulnerable to a complaint based on the Equal Protection Clause of the 14<sup>th</sup> Amendment.

In other words, the Senate was increased from 61 to 62 districts, and not to 63, to elect the maximal number of Republicans, and to permit the greatest skewing of the regional apportionment that could be achieved while keeping the total deviation below 10% – and for no other reason whatever.

#### The December 18, 2001 Memorandum: “The 135”

A third internal memorandum, “The 135,” dated December 18, 2001 explains the number of persons from Westchester who will be included in Bronx/Westchester bi-county districts (approximately 135,000).<sup>10</sup> It is significant because:

- a. There was no longer any discussion of a number of Senate districts other than 62, although the website still indicated at that date that there would be 61 districts, and proposals were still being solicited from the public on the basis of 61 districts.
- b. The memorandum shows how assiduously the state constitutional rules were manipulated to underpopulate the upstate districts and overpopulate the downstate districts, within a total deviation of 10% (p. 2. par. 1-2, table omitted):

---

<sup>10</sup> Memorandum titled “The 135,” December 18, 2001, *Rodriguez v. Pataki* SDNY 02 Civ. 618.

In order to craft districts whose population falls within the acceptable overall deviation of 10%, 23 Senate districts, stretching from Brooklyn to Columbia County, are drawn at a population of 310,493. Because of manipulation of town combinations in Dutchess and Westchester, I was able to take advantage of the NYS Constitution's "town on border" rule and draw the Saland and Leibell districts a little bit "lite" at 301,541 and 303,359 respectively.

...

Dividing this remaining total by 21 gives us a district size of 311,259 for the remaining 21 SD's in this R/A [reapportionment area]. Because of the NYS Constitution's "block on border" rule, the size of the districts within the city and lower Westchester will each be within one or two of this 311,259 size, simply because you will almost always be able to find a block with small enough populations to equalize the districts.

After secretly deciding in the summer of 2001 that they would create 62 districts, while still encouraging and accepting public proposals for 61-district plans, the Senate Majority announced publicly only in February 2002 that they intended to create 62 districts.

The screen-shot of the 'Frequently Asked Questions' page of the LATFOR web site was made on February 13, 2002 – *the day before* the Senate Majority first announced its proposal for 62 Senate Districts. It shows that there are to be 61 districts with an average population of 311,089. It can hardly be claimed that use of the present tense in one sentence ("currently at 61") means that the FAQ page was not deceptive. The same paragraph gives the population to which the average Senate district "will increase," and – more significantly – the average population of the 29 congressional districts that were to be created, not of the 31 districts then existing.

There should be no room for quibbles. An outsider looking at a list of 'Frequently Asked Questions' reasonably expects to see basic information clearly presented in a form that an outsider can understand. The answers to the 'Frequently Asked Questions' are not understood to mean, "If you read carefully between the lines, and if you are alert to subtle nuances and linguistic hedges, here are some clues from which you may be able to guess at the truth." In any case, as shown above, the decision to create 62 districts had actually been made seven months before.

Then in March 2002 the Senate Majority produced Mr. Carvin's legal memorandum arguing that art. III, §4, par. 3, required 62 districts, rejecting the constitutional interpretation that was upheld by the Court of Appeals in 1972, and that had been followed without controversy in 1982 and 1992. The Senate Majority maintained that they could not seriously consider the public proposals of 61-district plans, since these were for the wrong number of districts. When the Voting Rights Act complaints in *Rodriguez v. Pataki* alleged that the Legislature should have created the additional majority-minority district that was possible under a 62-district plan, the Senate Majority replied that there had been no proposal from the public for such additional

district. But that, of course, was because the plans submitted by the public were based on a 61-district Senate.

The legal argument in Mr. Carvin's March 7, 2002 memorandum is reasonable, and it entails no intrinsic partisan bias. The *Schwartz* group of plaintiffs who unsuccessfully advocated precisely the same argument in *Schneider v. Rockefeller* (1972) were Democrats. But it is obvious that the decision to create 62 districts in 2002 was not based on Mr. Carvin's reasoning, and that his memorandum was only supplied in retrospect, to provide a legal rationale for a decision that had been made previously and for other reasons entirely.

### **The Manipulation of the Size-of-the-Senate Rule in 2011 – 2012**

Either of the two interpretations of art. III, §4, par. 3, that have been followed previously – the only interpretations that anyone has advocated during the one-person-one-vote era – would yield a Senate of 62 districts when applied to the 2010 census counts. The arithmetic is shown in the tables in the Appendix. Moreover, as the tables show, if LATFOR complies with its legally mandatory duty to create a redistricting database free of prison-based gerrymandering, that will have no effect on the formula for determining the size of the Senate; none of the relevant county populations are close enough to a tipping point.

The adoption of a number of Senate districts other than 62 would not only entail the adoption of a completely unprecedented constitutional interpretation. It would be a repudiation of the constitutional interpretation advocated in 2002 by the Senate Majority's former and current legal advisor, Mr. Carvin.

LATFOR should decide now, publicly, that there are to be 62 Senate districts in 2012, because that is the only constitutionally correct decision.

And if the Senate Majority intends to create some other number, necessarily using an unprecedented reading of the NYS Constitution, they should at least announce now what that number is to be. The county population totals – the only constitutional basis for computing the number of Senate districts – have been available for five months.<sup>11</sup> As the internal memoranda show, in 2001 the Senate Majority had made their secret decision to change the size of the Senate by July 20. Surely they have had enough time by now to make this decade's calculations of partisan advantage and regional malapportionment.

Indeed, LATFOR is currently soliciting Senate redistricting proposals from the public on the basis of 62 districts. The second screen shot of the LATFOR 'Frequently Asked Questions' page was made yesterday, September 21, 2011. (Unfortunately the frame and the text have been separated in the copying, but the content is not otherwise altered.) It offers a link, "Click here to view technical determination of the size of the Senate." Clicking the link leads to Mr. Carvin's March 7, 2002 memorandum. As noted

---

<sup>11</sup> The block-level counts, needed to determine the populations in Bronx County, respectively east and west of the Bronx River, have also been available since March. Both the county-level and block-level counts were released by the Census Bureau as part of the PL94-171 redistricting data set.

above, and shown in the technical appendix to this statement, applying Mr. Carvin's constitutional interpretation to the 2010 census counts yields a Senate of 62 members.<sup>12</sup>

To keep the number of Senate districts secret until the end of the process, as in 2001-02, under the guise of waiting to hear from the public, as if there were no binding constitutional rule, would actually deprive the public of any meaningful participation in the process of State Senate redistricting.

When discussing Governor Cuomo's pledge to veto certain types of redistricting plans, members of LATFOR have argued emphatically that the Governor should not veto a redistricting bill merely because it is the product of LATFOR, but should base his decision on the substantive merits of the redistricting plans. They are right.

If the redistricting bill ignores the NYS Constitution, and all the relevant precedents, in determining the number of Senate districts – if there is any number but 62 – then the bill ought to be vetoed on its merits.

If the number of Senate districts is changed, ignoring the Constitution, so as to maintain or increase the regional malapportionment of Senate districts, or to facilitate a partisan gerrymander, or as an excuse for ignoring, in particular places, the county-integrity rule of the NYS Constitution, that will be an even stronger reason for a veto on the merits.

---

<sup>12</sup> Mr. Carvin's statement, in the next to last sentence, that his interpretation will yield 62 districts, is not what matters now. The point is that the interpretation also yields 62 districts *when applied to the 2010 census counts*.

## Appendix: Determining the Number of New York State Senate Districts, 1972-2012

The formula for determining the number of Senate districts is based on Article III, §4, par. 3, of the New York State Constitution, originally adopted in 1894:

The ratio for apportioning senators shall always be obtained by dividing the number of inhabitants . . . by fifty, and the senate shall always be composed of fifty members, except that if any county having three or more senators at the time of any apportionment, shall be entitled on such ratio to an additional senator or senators, such additional senator or senators shall be given to such county in addition to the fifty senators, and the whole number of senators shall be increased to that extent.

Art. III, § 4, was adopted at a time when New York County (then including much of what is now Bronx County) held nearly a quarter of the population of the state. Politicians representing upstate and rural areas feared that New York and Brooklyn would continue to grow until they entirely dominated state government. That outcome was to be prevented by a constitutional provision that effectively gave an extra Senate seat to the less populous counties, each time one of the more populous counties qualified for an additional seat on the basis of population growth. The provision was one of several that operated, over the following decades, to produce a gross malapportionment of Senate districts. By 1964, when the U.S. Supreme Court applied the equal representation principle to the New York State Legislature in *WMCA, Inc. v. Lomenzo*, the most populous Senate district had four times the population of the least populous.

In the equal representation era, art. III, § 4, should no longer operate to produce a malapportionment. Paragraph 3 just determines the total number of seats, and the state should then be divided into that number of districts, all of approximately equal population, according to the equal representation principle. The interpretation of Paragraph 3 was last litigated in *Schneider v. Rockefeller* (1972), a challenge to the reapportionment that took effect in 1972. The interpretation followed by the Legislature in the 1972 reapportionment was upheld by the NYS Court of Appeals in *Schneider*, and followed by the Legislature in 1982 and 1992.

Some of the language in art. III, § 4, par. 3, is not perfectly clear. The application of the formula is further complicated by the fact that some county boundaries have changed since 1894. As interpreted in a series of decisions by the Court of Appeals – *Matter of Dowling*, 219 N.Y. 44 (1916), *Matter of Fay*, 291 N.Y. 198 (1943), *Matter of Orans*, 15 NY2d 339 (1965), and *Schneider v. Rockefeller*, 31 NY2d 420 (1972) – the paragraph may be parsed as follows:

- **“ratio”** A ratio of apportionment is 1/50 (2%) of the total state population, not including remainders. The rounding is always downward; thus a county with 6.01% of the total state population is deemed to have as many ‘full ratios of apportionment’ as a county with 7.99% (three ‘full ratios,’ but still short of four).
- **“any county”** Territory comprising a single county, *as it existed in 1894*; the particular instances will be explained below.

- **“having three or more senators at the time of any apportionment”** Having a population, based on the new census data, equal to at least three ‘full ratios.’
- **“shall be entitled on such ratio to an additional senator or senators”** In addition to the number of Senate districts apportioned to the county in 1894.
- **“such additional senator or senators”** In addition to the county’s 1894 apportionment.
- **“and the whole number of senators shall be increased to that extent”** Increased above the basic number of 50. The application of the formula can only add districts to the basic 50. No loss of population share in any county can cause a subtraction from the original 50 seats.

There are three instances in which the application of the formula requires the reconstruction of counties as they were in 1894 (or, in one case, a bi-county Senate district of 1894):

#### **New York/Bronx/Westchester**

Bronx County was created in 1914. In 1894, that part of the Bronx west of the Bronx River was part of New York County, and the part east of the river was part of Westchester County. There are two ways to construe the application of the formula to these counties in the reapportionments that took effect in 1972, 1982, and 1992. In one way, New York and Bronx Counties are taken to be a single county, and the number of ‘full ratios of apportionment’ in their combined population is compared with the 12 Senate districts apportioned to New York County in 1894. The other way, the three counties – New York, Bronx, and Westchester – are treated as a single county, and the number of ‘full ratios of apportionment’ in their combined population is compared with the total of 13 Senate districts apportioned to New York and Westchester Counties in 1894 (12 to New York, one to Westchester). Both methods produce the same result: no effect on the size of the Senate.

#### **Queens/Nassau**

Nassau County was created in 1899, from territory that was part of Queens County in 1894. Under art. III, § 4, par. 3, the number of ‘full ratios of apportionment’ in the combined populations of Queens and Nassau Counties is compared with the one Senate district apportioned to Queens County in 1894.

#### **Richmond/Suffolk**

In 1894, Richmond and Suffolk Counties shared a single Senate district. (Without defending this odd arrangement, it can be explained as a reflection of the priority given in the 1894 Constitution to preserving the integrity of county boundaries. The creation of a district that divided a county without being wholly contained within the county was strictly forbidden. Richmond’s population was too small for a Senate district of its own, and New York, Kings, and Queens Counties were each too populous to be combined with

Richmond in a single district, so a Senate district was created comprising Richmond and Suffolk.) Under art. III, § 4, par. 3, the number of ‘full ratios of apportionment’ in the combined populations of Richmond and Suffolk Counties is compared with the one Senate district apportioned to the pair of counties in 1894.

Kings County has also exceeded the three-full-ratios-of-apportionment threshold, but this case is not complicated by boundary changes.

An increase from 60 to 61 occurred in 1982, when the Richmond/Suffolk combination achieved its fourth ‘full ratio.’ **Tables A, B,** and **C** show how the number of Senate seats was determined in 1972, 1982, and 1992. Erie County appears only in the 1972 chart, since it did not reach three ‘full ratios’ in subsequent censuses.

**Table A. Determining the Size of the Senate – 1972 (‘Full Ratio’ = 364,828)**

1894 ‘County’	1970 (Combined) Population	‘Full Ratios’ of Apportionment	1894 Senate Districts	‘Additional’ Districts (above 50)
Erie	1,113,491	3	3	0
Kings	2,602,012	7	7	0
New York + Bronx	3,010,934	8	12	0
New York + Bronx + Westchester (alternate to above)	3,905,340	10	13	0
Queens + Nassau	3,416,012	9	1	8
Richmond + Suffolk	1,422,473	3	1	2

**Table B. Determining the Size of the Senate – 1982 (Full Ratio = 351,146)**

1894 ‘County’	1980 (Combined) Population	‘Full Ratios’ of Apportionment	1894 Senate Districts	‘Additional’ Districts (above 50)
Kings	2,230,936	6	7	0
New York + Bronx	2,596,648	7	12	0
New York + Bronx + Westchester (alternate to above)	3,463,247	9	13	0
Queens + Nassau	3,212,907	9	1	8
Richmond + Suffolk	1,636,352	4	1	3

**Table C. Determining the Size of the Senate – 1992 ('Full Ratio' = 359,809)**

1894 'County'	1990 (Combined) Population	'Full Ratios' of Apportionment	1894 Senate Districts	'Additional' Districts (above 50)
Kings	2,300,664	6	7	0
New York + Bronx	2,691,325	7	12	0
New York + Bronx + Westchester (alternate to above)	3,566,191	9	13	0
Queens + Nassau	3,239,164	9	1	8
Richmond + Suffolk	1,700,623	4	1	3

In 1982 it was not only the Legislature that applied the formula upheld in *Schneider* to arrive at a 61-seat Senate. The Special Master appointed by the three-judge Constitutional Court in *Fleteau v. Anderson* also proposed the creation of 61 Senate districts, in place of the then-existing 60 districts. See *Appendix II to Report of the Special Master: New York State Senate Plan*, June 7, 1982 and *Appendix B to Report of the Special Master: Report of Ketrion, Inc.*, June 7, 1982.

Note also that the combined population of Queens/Nassau achieved its ninth 'full ratio' in 1992 with only 882 persons to spare. The 1990 census showed the population of Nassau County declining during the 1980's. Had a further 883 persons been lost (assuming the same total state population), the number of Senate districts would have reverted to 60. Loss of population share by a county (or reconstructed 1894 county) cannot produce a subtraction from the basis of 50 seats – Kings County in the charts above produces a value of zero in the last column, not a negative value – but loss of population share can subtract from the number of 'additional' seats that have been generated by the county's previous (post 1894) growth. The formula is applied anew in the reapportionment following each census.

**Table D** shows how the application of the formula used in 1972, 1982 and 1992, would have produced a Senate of 61 districts if applied to the 2000 census counts.

**Table D. Determining the Size of the Senate – 2002 ('Full Ratio' = 379,529)  
(Using the Same Procedure as in 1972, 1982, and 1992)**

1894 'County'	2000 (Combined) Population	'Full Ratios' of Apportionment	1894 Senate Districts	'Additional' Districts (above 50)
Kings	2,465,326	6	7	0
New York + Bronx	2,869,845	7	12	0
New York + Bronx + Westchester (alternate to above)	3,793,304	9	13	0
Queens + Nassau	3,563,923	9	1	8
Richmond + Suffolk	1,863,097	4	1	3

In 2002, however, the Legislature created a Senate of 62 districts. A memorandum dated March 7, 2002, from Michael Carvin, outside counsel to the Senate Majority, gives a constitutional rationale for this result. Mr Carvin asserts that the “best method for apportioning the New York Senate” would differ from the method approved by the Court of Appeals in *Schneider* and employed by the Legislature in 1972, 1982, and 1992. Although he does not note the fact, Mr. Carvin’s favored interpretation is exactly that which was advocated unsuccessfully by the *Schwartz* group of plaintiffs in *Schneider*. (Mr. Carvin’s memorandum does not mention the combination of Suffolk and Richmond Counties, but that combination does figure in the method employed in 2002, and its role in the formula is assumed in the calculation that concludes Mr. Carvin’s penultimate paragraph.) The formula applied by the Legislature to the 2000 census counts differs in two respects from the formula employed during the previous three decades.

### **Manhattan, Bronx, and Westchester – the 2002 Interpretation**

New York and Bronx Counties (or, alternatively, New York, Bronx, and Westchester Counties) were not combined in their entirety, to reconstitute an 1894 county. Instead, that part of Bronx County east of the Bronx River – the territory that was part of Westchester County in 1894 – was combined with all of Westchester County to construct the ‘county’ whose ‘full ratios of apportionment’ were to be compared with the one Senate district apportioned to Westchester in 1894. Only the part of Bronx County west of the river was combined with New York County.

Westchester County alone would have had only two ‘full ratios of apportionment’ (2.41, rounded down) according to the 2000 census, and therefore would not have figured in determining the number of Senate districts (only counties with at least three ‘full ratios’ are relevant). But when Westchester County was combined with the part of Bronx County east of the Bronx River, the resulting 1894 ‘county’ had three full ratios of apportionment. Subtracting the single Senate district apportioned to Westchester in 1894, the reconstituted Westchester County of 1894 contributed two additional seats to the computation of the total number of districts.

### **Aggregation of County Apportionment Ratios – the 2002 Interpretation**

When two counties were to be combined to reconstitute an 1894 county, by the method used in 1972, 1982, and 1992, the number of ‘full ratios of apportionment’ in the reconstituted ‘county’ was determined by first summing the populations of the present-day counties, then calculating the number of ‘full ratios’ in the combined total population (as shown in **Tables A** through **D**, above).

Under the new method adopted by the Legislature in 2002, the number of ‘full ratios’ was first calculated for each present-day county (or relevant part of such county), the remainders were dropped, and the rounded-down ‘full ratios’ – not populations – were then summed.

This change in procedure made a difference in the Queens-Nassau combination. The combined population of the two counties in 2000 was 3,563,923. Under the formula used previously, the combined total population would be divided by the ‘full ratio’ of

379,529; and the result would be 9.39, rounded down to 9 ‘full ratios of apportionment.’ Subtracting the one district apportioned to Queens County in 1894, the reconstituted ‘county’ would have contributed 8 districts to be added to the basic number of 50.

But under the new method, the ratios of apportionment were calculated separately for present-day Queens and Nassau Counties. Queens’s population of 2,229,379, divided by 379,529, yielded 5.87 ‘ratios,’ rounded down to 5 ‘full ratios.’ Nassau’s population of 1,334,544 yielded 3.52 ‘ratios,’ rounded down to 3 ‘full ratios.’ Adding the ‘full ratios’ – not the populations – the reconstituted ‘county’ had 8 ‘full ratios.’ Subtracting the one district apportioned to Queens County in 1894, the Queens-Nassau combination contributed 7 districts to be added to the basic number of 50.

For the Bronx-Westchester and Richmond-Suffolk combinations, the new method for aggregating county ‘apportionment ratios’ yielded the same results as the old method, as applied to the 2000 county population counts.

In summary, one change in the constitutional interpretation (the treatment of Bronx and Westchester Counties) produced two more Senate districts than the prior method, and the other change (aggregating ‘full ratios’ rather than populations) produced one less. The net result was a Senate of 62 districts, instead of 61, as shown in **Table E**.

**Table E. Determining the Size of the Senate – 2002 (‘Full Ratio’ = 379,529)  
(The New Procedure Adopted in 2002)**

Modern County	2000 Population	‘Full Ratios’	1894 ‘County’	Sum of ‘Full Ratios’	1894 Senate Districts	‘Additional’ Districts (above 50)
Kings	2,465,326	6	Kings	6	7	0
New York	1,537,195	4	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Bronx (west of the Bronx River)	794,061	2	New York + Bronx(pt.)	6	12	0
Bronx (east of the Bronx River)	538,589	1	Westchester + Bronx(pt.)	3	1	2
Westchester	923,459	2	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Queens	2,229,379	5	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Nassau	1,334,544	3	Queens + Nassau	8	1	7
Richmond	443,728	1	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Suffolk	1,419,369	3	Richmond + Suffolk	4	1	3

**Determining the Size of the Senate for 2012**

**Tables F1** and **G1** are based on the county population counts from the 2010 census, PL94-171 redistricting data set, published by the Census Bureau on March 25, 2011.

**Table F1. Determining the Size of the Senate – 2012**  
*Based on 2010 County Population Counts ('Full Ratio' = 387,562)*  
**(Using the Same Procedure as in 1972, 1982, and 1992)**

1894 'County'	2010 (Combined) Population	'Full Ratios' of Apportionment	1894 Senate Districts	'Additional' Districts (above 50)
Kings	2,504,700	6	7	0
New York + Bronx	2,970,981	7	12	0
New York + Bronx + Westchester (alternate to above)	3,920,094	10	13	0
Queens + Nassau	3,570,254	9	1	8
Richmond + Suffolk	1,962,080	5	1	4

**Table G1. Determining the Size of the Senate – 2012**  
*Based on 2010 County Population Counts ('Full Ratio' = 387,562)*  
**(The New Procedure Adopted in 2002)**

Modern County	2010 Population	'Full Ratios of Appor- tionment'	1894 'County'	Sum of 'Full Ratios'	1894 Senate Districts	'Additional' Districts (above 50)
Kings	2,504,700	6	Kings	6	7	0
New York	1,585,873	4	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Bronx (west of the Bronx River)	829,963	2	New York + Bronx (pt.)	6	12	0
Bronx (east of the Bronx River)	555,145	1	Westchester + Bronx (pt.)	3	1	2
Westchester	949,113	2	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Queens	2,230,722	5	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Nassau	1,339,532	3	Queens + Nassau	8	1	7
Richmond	468,730	1	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Suffolk	1,493,350	3	Richmond + Suffolk	4	1	3

Both methods would produce a Senate of **62 seats** in 2012. The convergence of the two methods is a coincidence, arising from the new population counts for certain counties, and may not hold after the 2020 census.

**Tables F2 and G2** use on the legally mandatory database, finally produced by LATFOR in January 2012, that subtracts inmates of federal and state prisoners from their places of incarceration, reallocating them insofar as possible to their prior home addresses. It will be seen that the adjustment has no effect on the Senate size calculation.

**Table F2. Determining the Size of the Senate – 2012**  
**2010 County Population Counts with Prisoner Subtractions and Reallocations**  
**(Total State Population = 19,363,397; ‘Ratio of Apportionment’ = 387,268)**  
**(Using the Same Procedure as in 1972, 1982, and 1992)**

1894 ‘County’	2010 (Combined) Population after subtraction	‘Full Ratios’ of Apportionment	1894 Senate Districts	‘Additional’ Districts (above 50)
Kings	2,513,044	6	7	0
New York + Bronx	2,980,799	7	12	0
New York + Bronx + Westchester (alternate to above)	3,928,313	10	13	0
Queens + Nassau	3,574,678	9	1	8
Richmond + Suffolk	1,964,163	5	1	4

**Table G2. Determining the Size of the Senate – 2012**  
**2010 County Population Counts with Prisoner Subtractions and Reallocations**  
**(Total State Population = 19,363,397; ‘Ratio of Apportionment’ = 387,268)**  
**(The New Procedure Adopted in 2002)**

Modern County	2010 Population after subtraction	‘Full Ratios of Appor- tionment’	1894 ‘County’	Sum of ‘Full Ratios’	1894 Senate Districts	‘Additional’ Districts (above 50)
Kings	2,513,044	6	Kings	6	7	0
New York	1,590,254	4	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Bronx (west of the Bronx River)	833,760	2	New York + Bronx(pt.)	6	12	0
Bronx (east of the Bronx River)	556,785	1	Westchester + Bronx(pt.)	3	1	2
Westchester	947,514	2	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Queens	2,233,796	5	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Nassau	1,340,882	3	Queens + Nassau	8	1	7
Richmond	468,576	1	XXXXXXXX	XXXX	XXXX	XXXXXXXX
Suffolk	1,495,587	3	Richmond + Suffolk	4	1	3

## **Facts About Racially Discriminatory State Senate Redistricting in Nassau and Suffolk Counties: 1972 - 2012**

Todd A. Breitbart

January 31, 2012

The proposed State Senate districts, designed by the Senate Majority and released by LATFOR<sup>1</sup> on January 26, would continue – *through a full half-century* – the systematic splitting of Long Island minority communities, diluting the voting power of black and Hispanic voters. All nine Long Island districts have again been designed to have super-majorities of non-Hispanic white voters.

Long Island's black and Hispanic populations were systematically split in every Senate redistricting plan adopted by the Legislature during the one-person-one-vote era: the plans enacted in 1972, 1982 (slightly revised in 1984), 1992, and 2002.<sup>2</sup> The Republican Senate majority now proposes to add 2012 to this roll-call of shame.

This issue involves no conflict between the interests of Latino and African-American communities. In both counties, the black and Hispanic populations are concentrated in the same incorporated villages and unincorporated hamlets. Districts that split one group, diluting their voting power, will split the other group as well. Districts that permit one group to exercise their full voting power will do the same for the other.

The maps explained and listed in Appendix A show the pattern, with the demographic data from each census as a color theme, and an overlay of the Senate district boundaries for the same decade, including the newly proposed 2012 districts.

### **A Question of Justice – Not of Law**

A group of voters brought suit to challenge the 2002 Long Island Senate districts, but a three-judge Federal District Court ruled, in *Rodriguez v. Pataki* (2004), that they were not entitled to relief under the Voting Rights Act of 1965. Whether the Court ruled correctly is not the important question now. The prospects for challenging a new discriminatory redistricting plan under the Voting Rights Act will depend largely on recent demographic trends, and on a statistical analysis of recent voting patterns. These essential facts may be different from 2002.

But the decision facing the Legislature and the Governor is not primarily a question of law. It is a question of justice.

The courts set limits: some things the Legislature and Governor must do, and some that they must not do. Within those limits, the Legislature and the Governor enjoy

---

<sup>1</sup> The NYS Legislative Task Force on Demographic Research and Reapportionment. The acronym LATFOR comes from a previous name for the Task Force.

<sup>2</sup> During the 1960's, court-imposed plans – not legislation – brought New York State into compliance with the original one-person-one-vote court rulings.

broad discretion to act wisely or unwisely, justly or unjustly. If that were not so, it would not much matter whom we elect, or how the districts are drawn.

Suppose, for the sake of argument, that the systematic splitting of Long Island minority communities by Senate district boundaries *may*, as a matter of law, be extended through a full half-century. That does not even begin to address the question of what the Legislature *should* do, or what the Governor *should* approve.

The Co-Chairs of the Legislative Task Force on Reapportionment (LATFOR) have argued that Governor Cuomo should not veto a redistricting bill merely because it was designed by them, and not by an independent commission. They urge the Governor to base his decision on the bill's substance, not its source.

Surely, though, if the racially discriminatory Long Island Senate boundaries of 1972, 1982, 1992, and 2002 are continued in 2012, then Governor Cuomo will have compelling grounds to veto the reapportionment bill – because what it does is morally repugnant, regardless of who has done it.

### **Legislative Decision-Making: the View from Inside**

In 2002, the Senate Majority took advantage of a constitutional ambiguity to increase the number of Senate districts from 61 to 62. This was primarily a device to prevent the reapportionment of a district from upstate to downstate as the result of population trends. But it turns out that consideration was secretly given to the creation of 63 districts, for reasons that involved Long Island.

A Republican Senate staff member, who handled the technical work of designing the Senate districts, discussed this subject in a confidential July 20, 2001 memo titled “Size of the Senate,” addressed to Sen. Dean Skelos, who was then the Co-Chair of LATFOR.<sup>3</sup> The memo became public during the *Rodriguez* case. The second paragraph begins: “I have previously stated my contention that the only reason to go to 63 is to strengthen the Long Island delegation by combining politically undesirable areas in the extra district.” [Emphasis in original.]

The memo then explains the reasons for rejecting this idea:

**Initially, my thinking was that in going to 63 we would strengthen all nine members by carving out a tenth district strictly on the island, combining all the minority areas from Elmont on the Nassau/Queens border east to Brentwood in the town of Islip. This would serve the dual purpose of carving out politically undesirable areas and at the same time demonstrate sensitivity to**

---

<sup>3</sup> Memorandum titled “Size of the Senate,” July 20, 2001, *Rodriguez v. Pataki* SDNY 02 Civ. 618. (PDF file name: “Not63.”) The addressees are: Sen. Dean Skelos, then the Co-Chairman of LATFOR (since elected Majority Leader); Steve Boggess, then the Secretary of the Senate (since retired); and the late Vinnie Bruy, then the public member of LATFOR appointed by Majority Leader Bruno, and an expert analyst of political data for the Republican Party.

**testimony received at both the Nassau/Suffolk and Westchester public hearings. There are four major reasons mitigating against this scenario:**

- a. At a district population of 275,391, the deviation from the ideal for 10 districts on the island would be –8.57%. With a total permissible deviation of 10%, this would give us precious little room to maneuver elsewhere in the state;**
- b. While this minority district is theoretically possible, it is extremely unsightly and would most likely bring scrutiny ala Shaw v. Reno;**
- c. Senator Trunzo lives squarely within one of the major minority concentrations which would be included in the minority district (Brentwood).**
- d. The additional district almost certainly would not be a republican pickup. Thus, all else being equal, the republican majority would be 36-27**

Apparently it was decided that the “politically undesirable areas” could be handled just as well by splitting them evenly, once again, among several districts. There is nothing secret about the how this was done. It is described in detail below.

**The geographic and demographic pattern.** The 2012 Senate proposal continues to split the contiguous, large (and growing) concentrations of black and Hispanic population, so as to dilute the voting power of minority-group voters.<sup>4</sup>

- **In Nassau County** the communities with large black and Hispanic populations are split among four proposed districts. As in 1972, 1982, 1992, and 2002, Freeport and Roosevelt are in Senate District 8; and Hempstead Village, Uniondale, and Lakeview are in SD 6. Valley Stream, North Valley Stream and part of Elmont are in SD 9, and the balance of Elmont, South Floral Park, Westbury, and New Cassel are in SD 7. Baldwin and Baldwin Harbor are divided between SD’s 8 and 9.
- **In Suffolk County** the communities with large black and Hispanic populations are split among three proposed districts, a pattern that has been carefully maintained since 1982. The black and Hispanic communities in the Town of Babylon are divided once again between SD’s 4 and 8, along a line that differs little from the previous decades. In the Town of Islip, the Hispanic and black communities are again divided between SD’s 3 and 4. **The line through Brentwood, splitting the Hispanic and black populations of the Town of Islip between SD’s 3 and 4, is precisely identical to the boundary that was drawn in 1982, 1992, and 2002.** Apparently it has proven its effectiveness.
- **The minority populations are so carefully balanced between the newly proposed districts** that the combined black and Hispanic voting-age population (VAP) percentage of Nassau County SD 6 is 31.42%, in adjoining SD 8 it is 31.24%, and in SD 9 it is 24.10%. In Suffolk County, the figure for SD 3 is 31.98%, and in SD 4 it is 25.97%. Each senator can be re-elected without support from minority-group voters.

---

<sup>4</sup> Unless otherwise stated, the figures given in this fact sheet for the black population include all persons who identified themselves in the census as black, whether or not they also checked off another racial category, and whether or not they also identified themselves as being of Hispanic origin. See the last paragraph of the Appendix for the legal background. VAP stands for ‘voting-age population.’

- **The 2012 Senate proposal continues to create nine districts with non-Hispanic white super-majorities**, even though the non-Hispanic white share of Long Island's VAP dropped from 85.4% in 1990, to 78.2% in 2000, and then to 70.9% in 2010.
- In absolute numbers, **Long Island's total non-Hispanic white population (all ages) declined** by 89,228 (4.1%) during the 1990's, and by a further 159,315 (7.6%) in the 2000's. Long Island's total population nevertheless grew by 5.5% during the 1990's, and by 2.9% in the 2000's – keeping pace with the statewide growth rate and maintaining Long Island's share of representation in the State Senate – only because the growth of minority-group populations more than offset the decline in non-Hispanic white population. The 2012 Senate proposal, however, like the Senate plan enacted in 2002, minimizes the role of minority-group voters in electing Long Island's State Senate delegation.
- In 1992 the Senate Plan, the VAP in all nine Long Island nine districts was at least 76.8% non-Hispanic white, according to the 1990 census.
- In the 2002 Senate Plan, the VAP in all nine districts was at least 69.0% non-Hispanic white, according to the 2000 census.
- In the Senate Majority's proposal for 2012 no district has a non-Hispanic white VAP percentage of less than 62.65%. And none has a black VAP percentage exceeding 16.40%, or a Hispanic VAP percentage exceeding 23.90%

**Racial gerrymandering.** For a half-century, dividing large concentrations of black and Hispanic voters so as to dilute their voting power – and, conversely, concentrating non-Hispanic white populations to create nothing but super-majority non-Hispanic white districts – has been the only consistent principle followed in drawing Senate districts in Long Island.

- **The boundary between Senate Districts 6 and 8 in Nassau.** Both districts have changed greatly over the decades. In 1972, SD 8 extended from the New York City line to the Hempstead/Oyster Bay town line; in 1982, the western boundary of SD 8 was moved to South Hempstead, and the eastern boundary was moved to the Suffolk County line; in 1992, SD 8 was extended across the county line into the Town of Babylon. In 1972, SD 6 was entirely within the Town of Hempstead; in 1982 and 1992 SD 6 was extended through the Town of Oyster Bay to the Suffolk County line. For decade after decade, however, the boundary dividing the minority communities between the SD's 6 and 8 remained virtually unchanged. Under the 2002 Senate Plan, it remained virtually unchanged for a fourth decade, **and now the proposed districts would divide the minority communities along the same line for the fifth consecutive decade.** (In the 2012 proposal, as in 1982, 1992, and 2002, the principal boundary between SD's 6 and 8 follows the Roosevelt-Uniondale boundary line.)

- **The boundary line dividing the minority communities within the Town of Babylon.** In 1982 a section of the Town of Babylon – comprising East Farmingdale and North Amityville, and parts of Wyandanch, West Babylon, North Lindenhurst, Copiague, and Amityville – was attached to SD 5, which extended northward to the Long Island Sound, extending into the Towns of Huntington and Oyster Bay and the City of Glen Cove. It was primarily a North Shore district. In 1992, the same part of the Town of Babylon – identical except for three blocks – was attached to SD 8, a South Shore district extending into the southern part of the Town of Oyster Bay and thence into the Town of Hempstead. Under the 2002 Senate Plan, the line through the minority community in Babylon again remained unchanged for most of its length – southward from the Babylon-Huntington town line almost to the northern boundary of the Village of Lindenhurst – and then divided Lindenhurst, Copiague, and Amityville along a line only slightly different from the 1992 boundary. In the 2012 proposal, this line through Babylon remains almost the same, shifted slightly in response to the continued eastward movement of Long Island’s population
- **The boundary line dividing the minority communities within the Town of Islip.** SD’s 3 and 4 changed extensively from 1982 to 1992, and again changed extensively under the 2002 Senate Plan – except in one place. The portion of the district boundary that divides Brentwood – and thereby splits the minority communities in the Town of Islip – was precisely identical in the three plans, from the town line at Moreland Road in the north to the intersection of Commack Road and Candlewood Road in the south. The 2012 proposal again draws that line through Brentwood, along precisely the same streets as in the three previous decades.

The pattern is too consistent to be coincidental. The parts of the Senate district boundaries that split the minority communities were established first, and any necessary changes (such as to equalize district populations in accordance with the latest census) were made around those fixed features.

- **The splitting of the minority communities did not result from any effort to preserve existing local government subdivisions or traditionally recognized communities.** Although it has been necessary to cut through county, town and village boundaries in Long Island in order to comply with the one-person-one-vote principle, the division of these local government units has been far more extensive than necessary. In 1992, for example, the Legislature created, for the first time, a pair of Nassau-Suffolk districts, one of which – SD 8 – splits the minority population in the Town of Babylon. If the Legislature had wished to keep local government units intact insofar as possible, it could have created a single Nassau-Suffolk district by including more of the Town of Huntington in SD 5, and it need not have brought SD 8 into Babylon at all. The 2002 Senate Plan again included a pair of Nassau/Suffolk districts, and the 2012 proposal does so yet again.

**Systematically splitting the minority communities, decade after decade, undermines democracy.**

- Splitting the minority populations denies representation to communities defined by actually shared interests, not just by race, and makes it difficult for their senators to respond to their needs. Education is the best example. Education is the largest single category of state and local government expenditure in New York State. Funding for local school districts is the largest single item in the state budget, and the education aid formula is the most contentious issue the Legislature addresses each year. In Nassau and Suffolk counties, the school districts with large minority populations tend to be less affluent, less able to finance public education from their local tax base, and less well financed than the districts with very small minority populations.

Systematically splitting minority populations not only dilutes the voting power of minority voters, as such, but also dilutes the power of voters who have a shared interest in changing the state school aid formula to reduce the inequality in school financing. The senators, wishing to be re-elected, are then forced to respond to those voters who have a vested interest in the *status quo*.

- **Splitting the minority communities discourages interracial coalition-building.** Racially polarized or segregated politics has a corrosive effect on democracy. Interracial coalition-building should be encouraged. But redistricting so as to dilute minority voting power and minimize the minority percentage in any one district has just the opposite effect. Drawing districts in which black or Hispanic voters are not just a minority, but the smallest possible minority, reduces their value as coalition partners, and makes it easy – and tempting – for candidates to win election without appealing for their support or addressing their interests.

## **Appendix A: Mapping the Discriminatory Pattern in State Senate Redistricting**

The maps show the black or Hispanic percentage of the total population in each census tract, from each census since 1970. Two maps show the combined black and Hispanic percentage from the 2010 census. In order to present the maps at the largest possible scale, they show only the part of each county where large Latino and African-American communities are located.

It was not possible to locate tract-level data for the Hispanic population from the 1970 census, so the maps showing Hispanic population begin with the 1980 census.

The percentages displayed in the map color themes are based on total population – all ages. This measure has been chosen in order to provide comparable data across the five decades. It was not possible to locate voting-age population (VAP) data from 1970. But the geographic distribution of the VAP for each group will be nearly the same as the geographic distribution of the total population.

The data from 1970, 1980, and 1990 have been matched to the census tracts from the 2000 census, which provide the geographic basis for those maps. The maps showing data from the 2010 census use the latest census tract boundaries. The Senate districts enacted in 1982 were revised slightly in 1984, to equalize the populations of several pairs of adjoining districts in compliance with the NYS Constitution's 'block-on-border' rule. The final 1984 district boundaries are shown.

The black percentage includes all persons who identified themselves in the census as black, whether or not they also identified themselves as Hispanic. The maps based on the censuses of 2000 and 2010, which permitted multiple-race responses, include all persons who identified themselves as black, whether or not they also listed another race. This is the method of tabulation prescribed for enforcement of civil rights laws in US Office of Management and the Budget (OMB) Bulletin No. 00-02, *Guidance on Aggregation and Allocation of Data on Race for Use in Civil Rights Monitoring and Enforcement*. It also accords with the method prescribed by the US Supreme Court in *Georgia v. Ashcroft*, 539 US 461, FN1 (2003). The maps showing combined percentages are based on the sum of the non-Hispanic black and Hispanic populations.

### **List of Maps**

Map Pages 1-4: Black percentages for Nassau County, 1970-2000, with the Senate district boundaries enacted after each respective census (1972, 1984, 1992, 2002).

Map Page 5: Black percentages for Nassau County from the 2010 census, with the district boundaries proposed by the Legislative Task Force on Reapportionment (LATFOR) on January 26, 2012.

Map Pages 6-8: Hispanic percentages for Nassau County, 1980-2000, with the Senate district boundaries enacted after each respective census (1984, 1992, 2002).

Map Page 9: Hispanic percentages for Nassau County from the 2010 census, with the district boundaries proposed by LATFOR on January 26, 2012.

Map Page 10: The combined black and Hispanic percentage for each tract from the 2010 census, with the district boundaries proposed by LATFOR on January 26, 2012.

Map Pages 11-14: Black percentages for Suffolk County, 1970-2000, with the Senate district boundaries enacted after each respective census (1972, 1984, 1992, 2002).

Map Page 15: Black percentages for Suffolk County from the 2010 census, with the district boundaries proposed by LATFOR on January 26, 2012.

Map Pages 16-18: Hispanic percentages for Suffolk County, 1980-2000, with the Senate district boundaries enacted after each respective census (1984, 1992, 2002).

Map Page 19: Hispanic percentages for Suffolk County from the 2010 census, with the district boundaries proposed by LATFOR on January 26, 2012.

Map Page 20: The combined black and Hispanic percentage for each tract from the 2010 census, with the district boundaries proposed by LATFOR on January 26, 2012.

**Appendix B: Long Island Senate District Demographics**

The data for race and Hispanic origin in the tables below are for voting-age population (VAP). Some of the percentages given in the section of the fact sheet on ‘The Demographic Pattern’ (pp. 4-5) refer to total population, the same variable displayed in the maps. Where the fact sheet gives voting-age population, that is stated in the text.

**Current Long Island Senate Districts (2002 Plan) – 2000 Census Data**

District	Population	Deviation from Ideal Population	% Deviation	Voting Age Population	Non-Hispanic White Voting Age Population	Hispanic Voting Age Population	Black Voting Age Population	Non-Hispanic Black Voting Age Population	Non-Hispanic Asian Voting Age Population	Hispanic plus Non-Hispanic Black Voting Age Population
1	305,989	-83	-0.03%	229,551	85.31%	6.92%	5.44%	5.19%	1.66%	12.11%
2	305,990	-82	-0.03%	226,892	88.46%	4.38%	2.10%	1.94%	4.81%	6.33%
3	305,989	-83	-0.03%	222,314	74.25%	15.59%	7.77%	7.09%	2.37%	22.68%
4	305,991	-81	-0.03%	225,017	76.41%	11.92%	9.33%	8.77%	2.17%	20.69%
5	305,990	-82	-0.03%	231,528	84.14%	7.18%	3.39%	3.23%	4.97%	10.41%
6	305,993	-79	-0.03%	229,090	69.04%	11.15%	16.51%	15.87%	3.48%	27.02%
7	305,991	-81	-0.03%	233,048	73.07%	9.26%	8.78%	8.36%	8.54%	17.62%
8	305,990	-82	-0.03%	225,348	71.85%	10.31%	15.69%	15.06%	2.25%	25.37%
9	305,990	-82	-0.03%	231,965	81.44%	8.48%	5.98%	5.67%	3.78%	14.15%

**Long Island Senate Districts Proposed by LATFOR on January 26, 2012 – 2010 Census Data**

District	Population	Deviation from Ideal Population	% Deviation	Voting Age Population	Non-Hispanic White Voting Age Population	Hispanic Voting Age Population	Black Voting Age Population	Non-Hispanic Black Voting Age Population	Non-Hispanic Asian Voting Age Population	Hispanic plus Non-Hispanic Black Voting Age Population
1	315,163	7,807	2.54%	243,135	79.36%	12.25%	5.87%	5.45%	2.23%	17.69%
2	315,164	7,808	2.54%	238,990	83.49%	6.96%	3.48%	3.19%	5.95%	10.15%
3	315,163	7,807	2.54%	235,923	64.43%	23.90%	9.21%	8.08%	3.09%	31.98%
4	315,163	7,807	2.54%	239,480	70.20%	16.73%	10.17%	9.24%	3.37%	25.97%
5	315,163	7,807	2.54%	239,647	78.37%	9.88%	3.76%	3.44%	7.99%	13.32%
6	315,163	7,807	2.54%	242,579	62.65%	16.52%	15.74%	14.90%	5.58%	31.42%
7	315,163	7,807	2.54%	242,166	64.34%	12.82%	8.09%	7.62%	14.68%	20.44%
8	315,163	7,807	2.54%	239,145	65.57%	15.86%	16.40%	15.37%	2.78%	31.24%
9	315,164	7,808	2.54%	242,567	69.57%	13.03%	11.81%	11.07%	5.77%	24.10%

The total populations and population deviations in the second table reflect the subtraction of prisoners in state and federal custody from the places of incarceration, and the reallocation of the prisoners to their prior home addresses, as now required by law. The *voting-age* population data do *not* reflect the reallocation of prisoners to their home addresses, since persons imprisoned for felonies are disenfranchised until the completion of the sentence, and should therefore be excluded from any estimate of voting-power. Moreover, the adjusted VAP data provided by LATFOR do not conform to the tabulation protocols of OMB Bulletin 00-02, or the US Supreme Court ruling in *Georgia v. Ashcroft*, 539 US 461, FN1 (2003).