## TO: 2021 Citizens Redistricting Commission

FROM: Q2/Karin Mac Donald

DATE: December 19, 2021

RE: Deferral and Numbering System for Senate Districts - Implementation of Methodology and Results

Below, please find a brief explanation of the Senate Deferral Process and the resulting assignment of odd and even district numbers for the proposed Senate Districts.

Population residing in an even numbered district due to elect a State Senator in 2022 will be 'deferred' if moved to an odd numbered district due to elect in 2024.

Below is a brief description of the steps used to minimize the number of persons deferred, followed by the results and the analysis of the outcome of numbering for the process.

## I. Assigning Senate Districts to Odd/Even Pools

Step 1- The number of people for each district in the Senate plan currently in an even district was calculated.

Step 2- The 20 districts with the most people currently in an even district were assigned to the 'even pool.' The remaining districts were assigned to the 'odd pool.' ${ }^{1}$

[^0]Table I: Pool of even numbered districts:

| District | Pop. Even | \% Even | Pop. Odd | \% Odd |
| :--- | ---: | ---: | ---: | ---: |
| SBENFRESNO | 998,216 | $100.00 \%$ | 0 | $0.00 \%$ |
| WESTOF110 | 950,235 | $96.39 \%$ | 35,588 | $3.61 \%$ |
| SACRAMENTO | 945,172 | $100.00 \%$ | 0 | $0.00 \%$ |
| KINGS-KERN | 942,212 | $100.00 \%$ | 0 | $0.00 \%$ |
| FRESNO-KERN | 939,354 | $100.00 \%$ | 0 | $0.00 \%$ |
| SECA | 938,898 | $98.13 \%$ | 17,848 | $1.87 \%$ |
| SDNELA | 931,419 | $98.17 \%$ | 17,404 | $1.83 \%$ |
| NCOAST | 925,539 | $93.34 \%$ | 66,032 | $6.66 \%$ |
| SD10WE | 905,233 | $89.67 \%$ | 104,242 | $10.33 \%$ |
| EDENTECH | 854,196 | $82.42 \%$ | 182,180 | $17.58 \%$ |
| SDSHORELINE | 826,117 | $79.77 \%$ | 209,505 | $20.23 \%$ |
| SD60X605 | 788,911 | $79.58 \%$ | 202,328 | $20.42 \%$ |
| SOC-NSD | 767,138 | $78.66 \%$ | 208,150 | $21.34 \%$ |
| SD-POW-ESC | 707,881 | $74.31 \%$ | 244,729 | $25.69 \%$ |
| N-OC-COAST | 659,350 | $66.71 \%$ | 329,007 | $33.29 \%$ |
| PLACER-ED | 610,750 | $63.17 \%$ | 356,013 | $36.83 \%$ |
| SCSFV | 576,906 | $60.98 \%$ | 369,171 | $39.02 \%$ |
| ECA | 562,840 | $54.54 \%$ | 469,216 | $45.46 \%$ |
| SWRC | 537,156 | $57.14 \%$ | 402,860 | $42.86 \%$ |
| SAA | 524,664 | $55.30 \%$ | 424,024 | $44.70 \%$ |

Table II: Pool of odd numbered districts:

| District | Pop. Even | \% Even | Pop. Odd | \% Odd |
| :--- | ---: | ---: | ---: | ---: |
| NORCA | 511,255 | $54.46 \%$ | 427,579 | $45.54 \%$ |
| COR-CAJON | 504,418 | $48.69 \%$ | 531,616 | $51.31 \%$ |
| POF | 486,716 | $51.59 \%$ | 456,747 | $48.41 \%$ |
| MCV | 461,645 | $48.46 \%$ | 491,020 | $51.54 \%$ |
| EVENTSFV | 376,124 | $37.87 \%$ | 617,016 | $62.13 \%$ |
| SD210 | 371,099 | $35.87 \%$ | 663,442 | $64.13 \%$ |
| MIDCOAST | 299,951 | $30.18 \%$ | 693,970 | $69.82 \%$ |
| COCO | 143,988 | $14.51 \%$ | 848,670 | $85.49 \%$ |
| SPCC | 139,893 | $14.67 \%$ | 813,928 | $85.33 \%$ |
| 710TOWATER | 131,718 | $12.71 \%$ | 904,574 | $87.29 \%$ |
| IOC | 120,633 | $11.83 \%$ | 899,311 | $88.17 \%$ |
| NAPABYRON | 71,097 | $6.87 \%$ | 963,673 | $93.13 \%$ |
| SBRC | 28,821 | $3.02 \%$ | 926,319 | $96.98 \%$ |
| SANJOSE | 27,623 | $2.68 \%$ | $1,004,947$ | $97.32 \%$ |
| SSACSTANIS | 149 | $0.01 \%$ | $1,020,985$ | $99.99 \%$ |
| ANTIVICAL | 120 | $0.01 \%$ | $1,033,629$ | $99.99 \%$ |
| SD8OCORR | 0 | $0.00 \%$ | 960,880 | $100.00 \%$ |
| PENINSULA | 0 | $0.00 \%$ | $1,012,486$ | $100.00 \%$ |
| SF | 0 | $0.00 \%$ | $1,022,311$ | $100.00 \%$ |
| SCOAST | 0 | $0.00 \%$ | $1,024,600$ | $100.00 \%$ |
|  |  |  |  |  |

## II. Assigning Senate Districts Individual Numbers (Geographic Method)

Step 1- The even numbered districts were assigned a district number starting at the Oregon border and moving from north to south, continuing with the most northern point of each district until all even numbers ( $2,4,6 \ldots 40$ ) had been assigned.

Step 2- The odd numbered districts were assigned a district number starting at the Oregon border and moving from north to south, continuing with the most northern point of each district until all odd numbers (1, 3, $5 . . .39$ ) had been assigned.

## Table III: Senate Numbering

| 01 | NORCA |
| :--- | :--- |
| 02 | NCOAST |
| 03 | NAPABYRON |
| 04 | ECA |
| 05 | SSACSTANIS |
| 06 | PLACER-ED |
| 07 | SD8OCORR |
| 08 | SACRAMENTO |
| 09 | COCO |
| 10 | EDENTECH |


| 11 | SF |
| :--- | :--- |
| 12 | FRESNO- <br> KERN |
| 13 | PENINSULA |
| 14 | SBENFRESNO |
| 15 | SANJOSE |
| 16 | KINGS-KERN |
| 17 | MIDCOAST |
| 18 | SECA |
| 19 | MCV |
| 20 | SCSFV |


| 21 | SCOAST |
| :--- | :--- |
| 22 | SD10WE |
| 23 | ANTIVICAL |
| 24 | SDSHORELINE |
| 25 | SD210 |
| 26 | SDNELA |
| 27 | EVENTSFV |
| 28 | WESTOF110 |
| 29 | POF |
| 30 | SD60X605 |


| 31 | SBRC |
| :--- | :--- |
| 32 | SWRC |
| 33 | 710TOWATER |
| 34 | SAA |
| 35 | SPCC |
| 36 | N-OC-COAST |
| 37 | IOC |
| 38 | SOC-NSD |
| 39 | COR-CAJON |
| 40 | SD-POW-ESC |


[^0]:    ${ }^{1}$ The 20 districts assigned to the pools of 'even' or 'odd' districts are the same irrespective of whether they were calculated based on the total number of persons or the percent of the population that is allocated to an even or odd district.

