CalRCV
Better Elections. Better Democracy.

MED
more equitable democracy

Mapping and Improved Representation

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CalRCV
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We're a diverse, nonpartisan coalition of Californians dedicated to bringing the benefits of RCV to every voter in our state. We combine research and education with grassroots organizing to build a movement that is inclusive, effective, and enduring.

Mission: To expand the use of RCV to all Californians to ensure we have a greater voice in our democracy.

CalRCV

Better Elections. Better Democracy.

Mission: Advance racial equity by transforming electoral systems.

Vision: An inclusive, multi-racial democracy liberated from systemic racism

What we do: We support communities of color to advocate for transformative systems changes in order to achieve a more racially just democracy

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Redistricting Simulation Methodology

- We used **GerryChain**, a redistricting simulation tool developed by the Metric Geometry and Gerrymandering Group (MGGG).
- The tool uses **ReCom (Recombination)**, a standard academic method that generates thousands of legally valid maps **without optimizing for political or demographic outcomes**.
- For each plan, we generated **10,000 random maps** to establish a neutral baseline for Los Angeles.
- We used the **average and mode** of these simulations to estimate expected representation by race using **Citizen Voting Age Population (CVAP)**. CVAP is the number of persons who are U.S. citizens and at least 18 years of age. At the request of the Department of Justice, the U.S. Census Bureau publishes an annual (CVAP) by Race and Ethnicity special tabulation, based upon either the most recent Decennial Census or the American Community Survey 5-year estimates.

District Definitions

- **Single-Member Districts:**
  - *Solid:* ≥45% CVAP | *Influence:* 35–45% CVAP
- **Three-Member Districts:**
  - *Solid:* ≥25% CVAP | *Influence:* 15–25% CVAP

Source: DeFord, Duchin & Solomon (2021), Harvard Data Science Review

The following slides shows the Summary of Simulation Results, comparing Single-Member Districts of 21, 23, 25, 27, 31 and 33 seats to nine and 11 Multi-Member Districts of 27 seats (nine three-seats districts) and 33 seats (11 three-seat districts)

- We averaged results from **10,000 simulated maps** across multiple district structures, including **Single-Member Districts (SMDs)** and **Multi-Member Districts (MMDs)**.

- **Single-Member Districts consistently limit minority influence**:

    - **API voters** have *at most* influence over **1 seat** under SMDs—and often none.
    - **Black voters** have *at most* influence over **2 seats** under SMDs.

- **Multi-Member Districts substantially increase representation**:

    - **API voters** are likely to influence **4–5 seats** under MMDs.
    - **Black voters** are likely to influence **3–4 seats** under MMDs.

- **Latino and White representation remains relatively stable** across SMD and MMD plans.

Bottom line: Multi-Member Districts consistently produce outcomes that better reflect Los Angeles' demographic and political diversity, while Single-Member Districts systematically constrain representation for minority and non-majority groups.

Summary of Data

Estimated Representation by Race by District Plan

	AAPI Seats *(Influence + Solid)*	Black Seats *(Influence + Solid)*	Latino Seats *(Influence + Solid)*	White Seats *(Influence + Solid)*
33 * 1 SMD	**0/33** *(0 + 0)*	**2/33** *(1 + 1)*	**18/33** *(7 + 11)*	**15/33** *(4 + 11)*
31 * 1 SMD	**0/31** *(0 + 0)*	**2/31** *(0 + 2)*	**17/31** *(6 + 11)*	**14/31** *(4 + 10)*
29 * 1 SMD	**0/29** *(0 + 0)*	**3/29** *(1 + 2)*	**16/29** *(6 + 10)*	**14/29** *(4 + 10)*
27 * 1 SMD	**0/27** *(0 + 0)*	**2/27** *(1 + 1)*	**15/27** *(5 + 10)*	**12/27** *(4 + 8)*
25 * 1 SMD	**0/25** *(0 + 0)*	**2/25** *(1 + 1)*	**14/25** *(5 + 9)*	**11/25** *(4 + 7)*
23 * 1 SMD	**0/23** *(0 + 0)*	**2/23** *(1 + 1)*	**13/23** *(6 + 7)*	**11/23** *(4 + 7)*
11 * 3 MMD	**5/33** *(5 + 0)*	**4/33** *(3 + 1)*	**17/33** *(5 + 12)*	**15/33** *(5 + 10)*
9 * 3 MMD	**4/27** *(3 + 0)*	**3/27** *(1 + 2)*	**9/27** *(2+ 7)*	**10/27** *(2 + 8)*

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ANALYSIS of 33 SMD (single-member districts)

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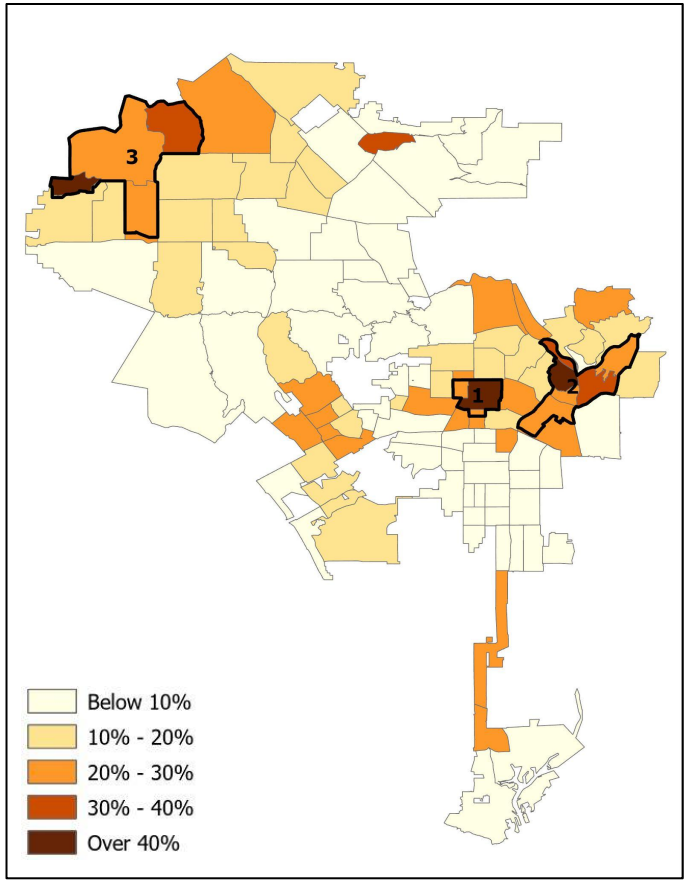
The following slide shows a map where we **manually drew three districts** to maximize **AAPI Citizen Voting Age Population (CVAP)**, while limiting neighborhood splits to **no more than one**.

Even under this intentionally favorable scenario, the **highest AAPI CVAP achieved in any single district is 41%**. All three districts also contain **substantial Latino and/or White CVAP**, meaning AAPI voters would **not be guaranteed the ability to elect a candidate of choice** even in a highly optimized map.

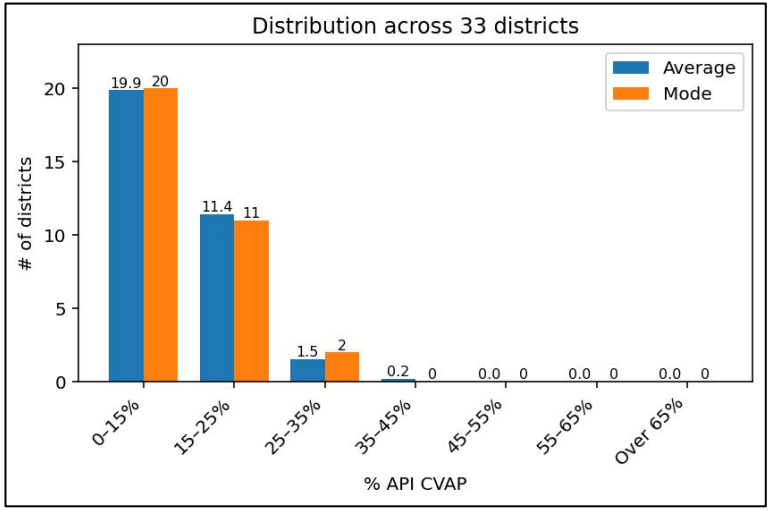
This illustrates a fundamental limitation of **Single-Member Districts**: even deliberate line-drawing cannot reliably produce districts where AAPI voters have decisive electoral power. **Multi-Member Districts** better reflect AAPI voting strength and provide more realistic opportunities for representation.

33 SMD: Maximum AAPI Representation

% AAPI CVAP by Neighborhood (Asia-Pacific Islander.)



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
1	41%	10%	30%	18%	Koreatown, Windsor Square, Harvard Heights*
2	30%	13%	33%	22%	Elysian Park, Elysian Valley, Chinatown, Lincoln Heights, Montecito Heights, Downtown*
3	24%	7%	26%	42%	Porter Ranch, Chatsworth, Chatsworth Reservoir, Winnetka*



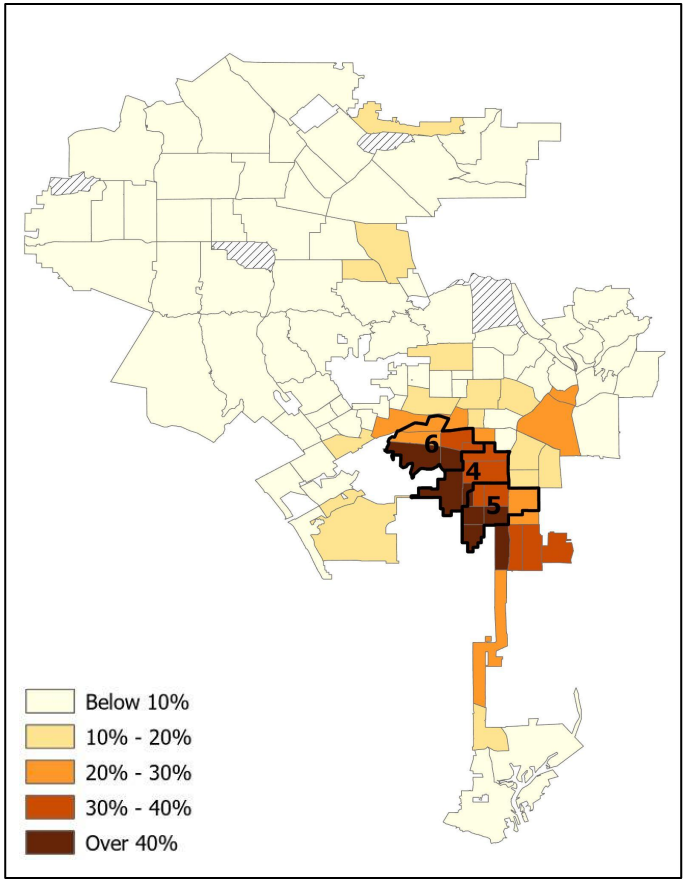
The following slide shows a map where we **manually drew three districts** to maximize **Black Citizen Voting Age Population (CVAP) between the three districts evenly**, while limiting neighborhood splits to **no more than two**.

Even under this intentionally favorable scenario, the **highest Black CVAP achieved in any single district is 46%**. All three districts also contain **substantial Latino CVAP**, meaning Black voters would **not be guaranteed the ability to elect a candidate of choice** even in a highly optimized map.

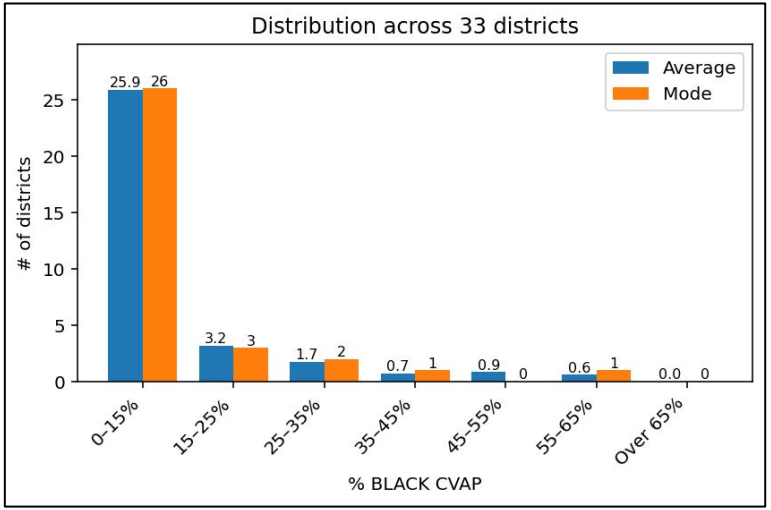
This illustrates a fundamental limitation of **Single-Member Districts**: even deliberate line-drawing cannot reliably produce districts where Black voters have decisive electoral power. **Multi-Member Districts** better reflect Black voting strength and provide more realistic opportunities for representation.

33 SMD: Maximum Black Representation

% Black CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
4	4%	46%	43%	6%	Leimert Park, Baldwin Hills / Crenshaw, Jefferson Park, West Adams, Mid-City*, Exposition Park*
5	1%	46%	50%	2%	Vermont Square, Hyde Park, Chesterfield Square*, Exposition Park*
6	5%	46%	36%	12%	Gramercy Park, Manchester Square, Vermont Knolls, Vermont-Slauson, Harvard Park, Chesterfield Square*, Florence*



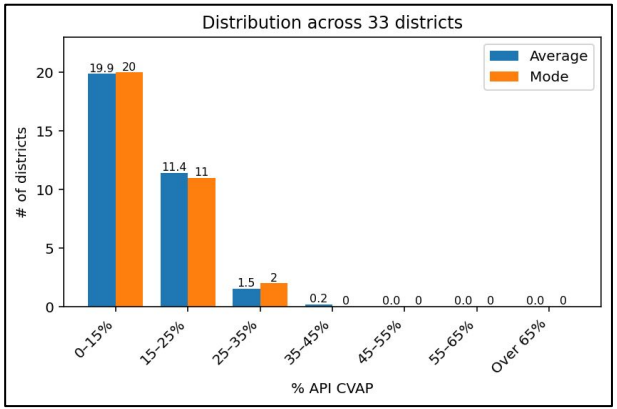
The following slide summarizes results from **10,000 randomly simulated maps** generated using **GerryChain**, showing the **average distribution of representation by race**.

Applying our definitions—**45%+ CVAP as a "solid" seat** and **35%–45% CVAP as an "influence" seat**—the chart estimates **racial influence under an average 33–district Single-Member District (SMD) plan**. **The results highlight the structural limitations of SMDs for AAPI and Black communities in Los Angeles, where winner-take-all, zero-sum elections constrain opportunities for representation even when meaningful population shares exist.**

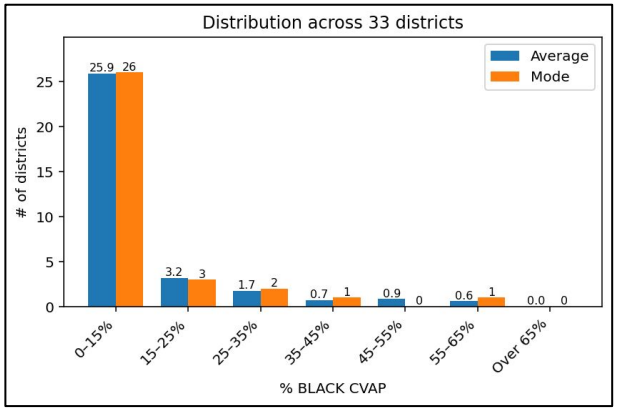
CVAP Distribution by Race: 33 SMD

Average & Mode (10,000 Simulated Maps)

AAPI

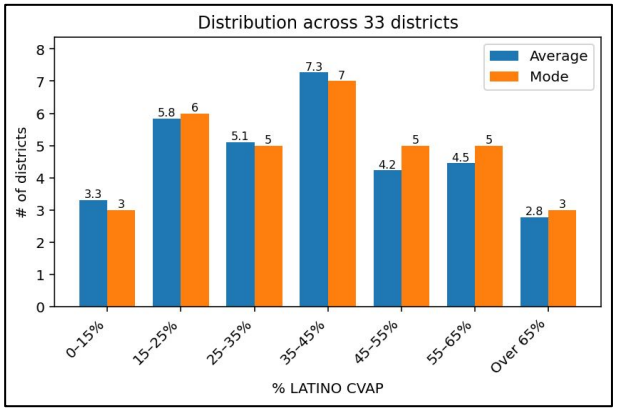


Black

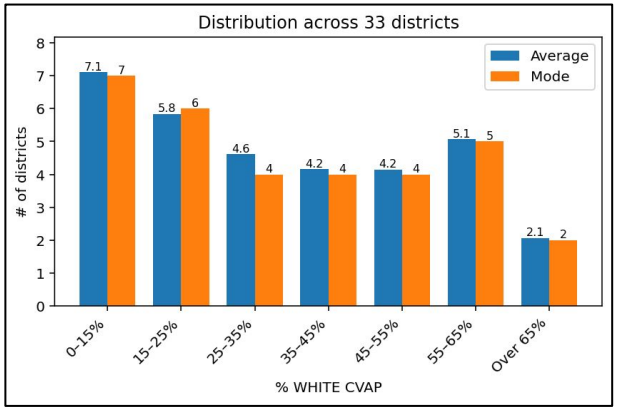


	Influence Districts *(35 - 45%)*	Solid Districts *(45% +)*	Total *(35%+)*
AAPI	0/33	0/33	0/33
Black	1/33	1/33	2/33
Latino	7/33	11/33	18/33
White	4/33	11/33	15/33

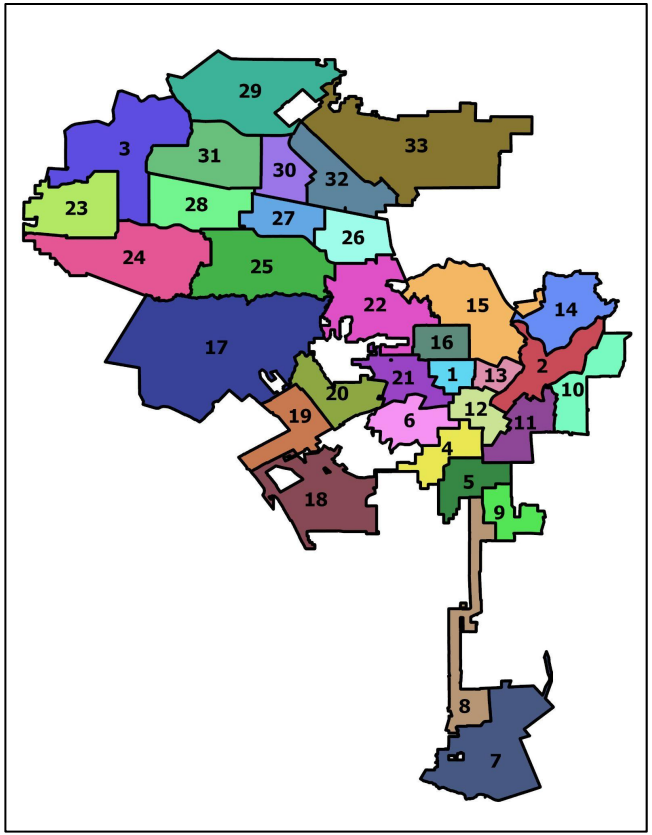
Latino



White



33 SMD Unbiased



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP
1	116,720	41%	10%	30%	18%	AAPI
2	118,300	30%	13%	33%	22%	Latino
3	118,644	24%	7%	26%	42%	White
4	118,163	4%	46%	43%	6%	Black
5	118,040	1%	46%	50%	2%	Latino
6	118,431	5%	46%	36%	12%	Black
7	117,729	7%	6%	55%	31%	Latino
8	117,653	14%	24%	49%	12%	Latino
9	117,286	1%	32%	65%	1%	Latino
10	118,614	7%	3%	82%	7%	Latino
11	118,711	3%	19%	70%	7%	Latino
12	118,292	13%	10%	60%	16%	Latino
13	116,821	24%	13%	45%	17%	Latino
14	118,287	18%	3%	46%	32%	Latino
15	117,701	16%	5%	27%	52%	White
16	118,057	15%	9%	32%	43%	White
17	118,814	17%	4%	10%	68%	White
18	117,336	15%	8%	19%	56%	White
19	118,124	18%	5%	16%	59%	White
20	117,836	14%	10%	14%	61%	White
21	117,297	16%	16%	19%	48%	White
22	118,405	9%	7%	14%	69%	White
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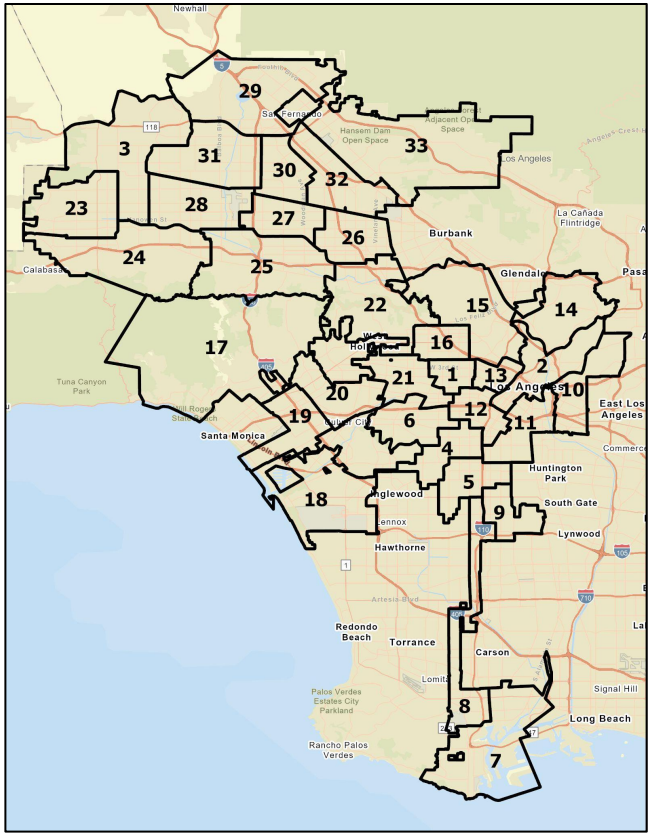
25	116,183	8%	6%	14%	71%	White
26	117,344	7%	10%	34%	48%	White
27	118,094	9%	7%	48%	34%	Latino
28	116,914	14%	6%	45%	35%	Latino
29	118,498	12%	3%	59%	25%	Latino
30	120,706	16%	5%	63%	16%	Latino
31	117,556	18%	6%	35%	39%	White
32	120,749	8%	2%	71%	18%	Latino
33	119,251	8%	6%	41%	44%	White
Total	3,898,747	14%	12%	37%	37%	White

33 SMD Unbiased

Context



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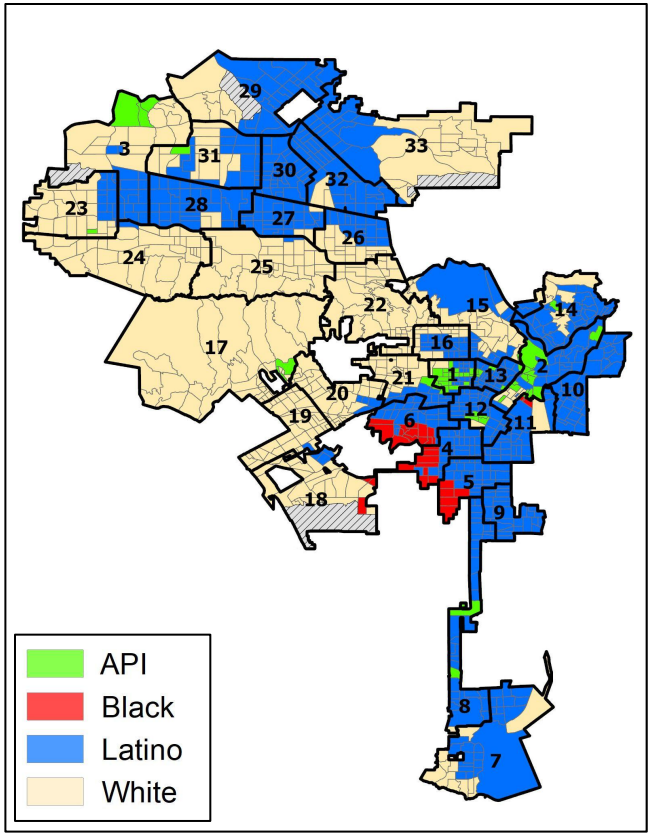
33 SMD Unbiased

Largest Racial Majority by Census Tract



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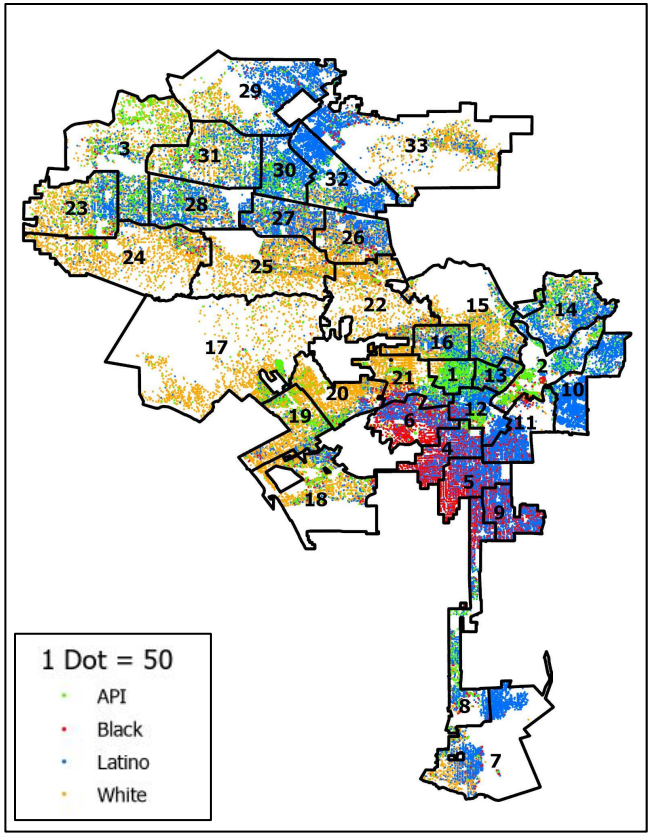
33 SMD Unbiased

Population Density by Race (1 Dot = 50 People)



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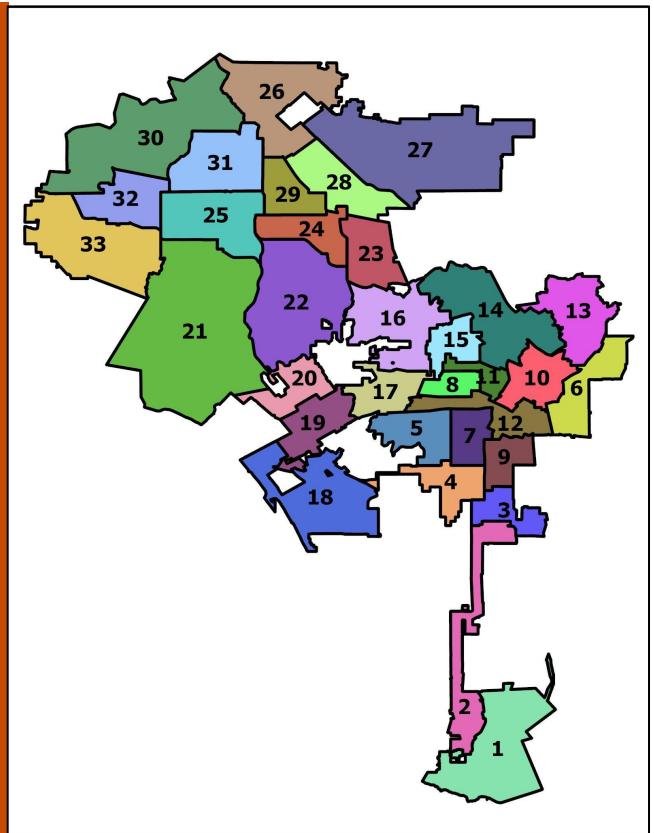
33	119,251	8%	6%	41%	44%	White
Total	3,898,747	14%	12%	37%	37%	White

Map L: 33 SMD Packed

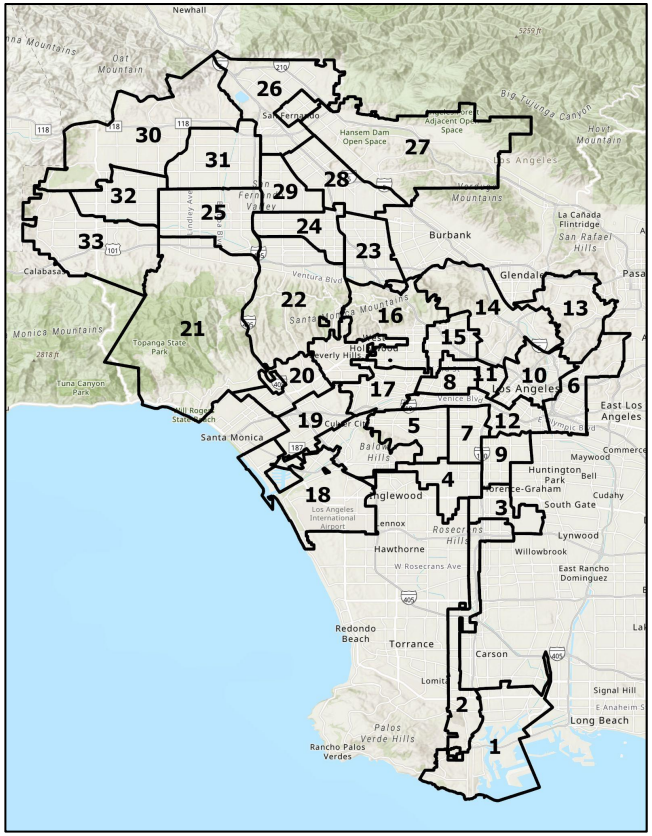
Show extreme example of 33 districts, where black and API packed, but splits neighborhoods – not encouraged in LA redistricting



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP
1	118,743	7%	6%	58%	28%	Latino
2	118,080	15%	23%	46%	15%	Latino
3	117,551	1%	33%	64%	2%	Latino
4	118,164	2%	56%	35%	6%	Black
5	118,349	4%	51%	34%	9%	Black
6	118,662	7%	3%	83%	7%	Latino
7	118,568	9%	24%	52%	14%	Latino
8	118,806	44%	10%	31%	14%	API
9	118,282	1%	18%	79%	2%	Latino
10	118,447	28%	15%	32%	24%	Latino
11	118,143	26%	13%	45%	15%	Latino
12	117,854	9%	21%	58%	12%	Latino
13	117,484	20%	3%	45%	31%	Latino
14	118,400	18%	4%	33%	45%	White
15	118,056	14%	7%	34%	44%	White
16	117,421	9%	8%	13%	69%	White
17	118,745	12%	17%	20%	50%	White
18	117,746	14%	7%	19%	59%	White
19	118,596	18%	7%	17%	57%	White
20	118,132	22%	5%	12%	61%	White
21	118,515	8%	4%	10%	76%	White
22	117,654	8%	6%	14%	71%	White
23	118,353	8%	10%	30%	52%	White
24	117,985	9%	7%	38%	45%	White
25	118,565	12%	6%	44%	37%	Latino
26	117,903	9%	3%	71%	15%	Latino
27	118,371	8%	6%	41%	44%	White
28	118,152	8%	2%	73%	15%	Latino
29	117,555	16%	6%	55%	22%	Latino
30	117,745	22%	7%	20%	50%	White
31	117,488	18%	7%	37%	37%	White
32	118,326	19%	5%	44%	31%	Latino
33	117,906	12%	7%	15%	65%	White
Total	3,898,747	14%	12%	37%	37%	White

Map L: 33 SMD Packed

Context



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP
1	118,743	7%	6%	58%	28%	Latino
2	118,080	15%	23%	46%	15%	Latino
3	117,551	1%	33%	64%	2%	Latino
4	118,164	2%	56%	35%	6%	Black
5	118,349	4%	51%	34%	9%	Black
6	118,662	7%	3%	83%	7%	Latino
7	118,568	9%	24%	52%	14%	Latino
8	118,806	44%	10%	31%	14%	API
9	118,282	1%	18%	79%	2%	Latino
10	118,447	28%	15%	32%	24%	Latino
11	118,143	26%	13%	45%	15%	Latino
12	117,854	9%	21%	58%	12%	Latino
13	117,484	20%	3%	45%	31%	Latino
14	118,400	18%	4%	33%	45%	White
15	118,056	14%	7%	34%	44%	White
16	117,421	9%	8%	13%	69%	White
17	118,745	12%	17%	20%	50%	White
18	117,746	14%	7%	19%	59%	White
19	118,596	18%	7%	17%	57%	White
20	118,132	22%	5%	12%	61%	White
21	118,515	8%	4%	10%	76%	White
22	117,654	8%	6%	14%	71%	White
23	118,353	8%	10%	30%	52%	White
24	117,985	9%	7%	38%	45%	White
25	118,565	12%	6%	44%	37%	Latino
26	117,903	9%	3%	71%	15%	Latino
27	118,371	8%	6%	41%	44%	White
28	118,152	8%	2%	73%	15%	Latino
29	117,555	16%	6%	55%	22%	Latino
30	117,745	22%	7%	20%	50%	White
31	117,488	18%	7%	37%	37%	White
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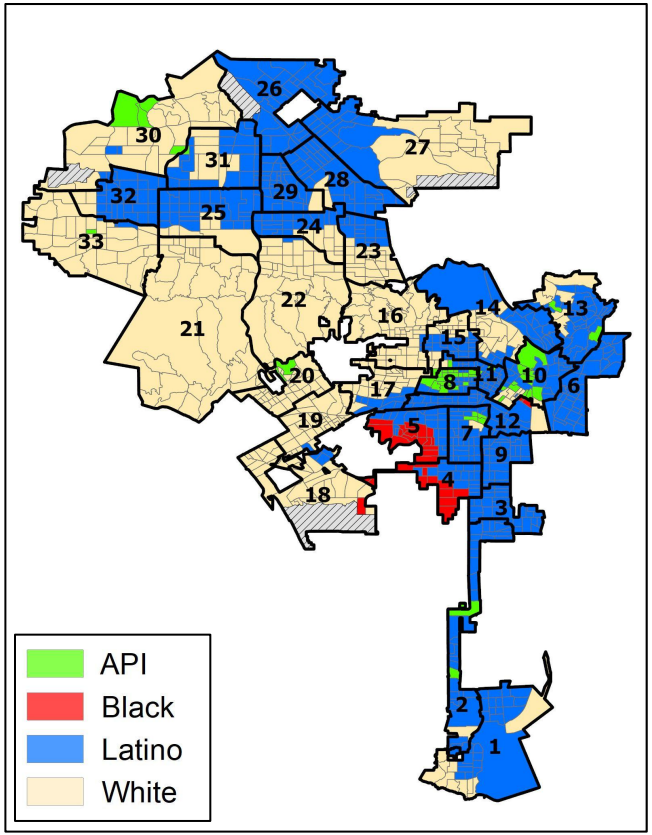
Largest Racial Majority by Census Tract



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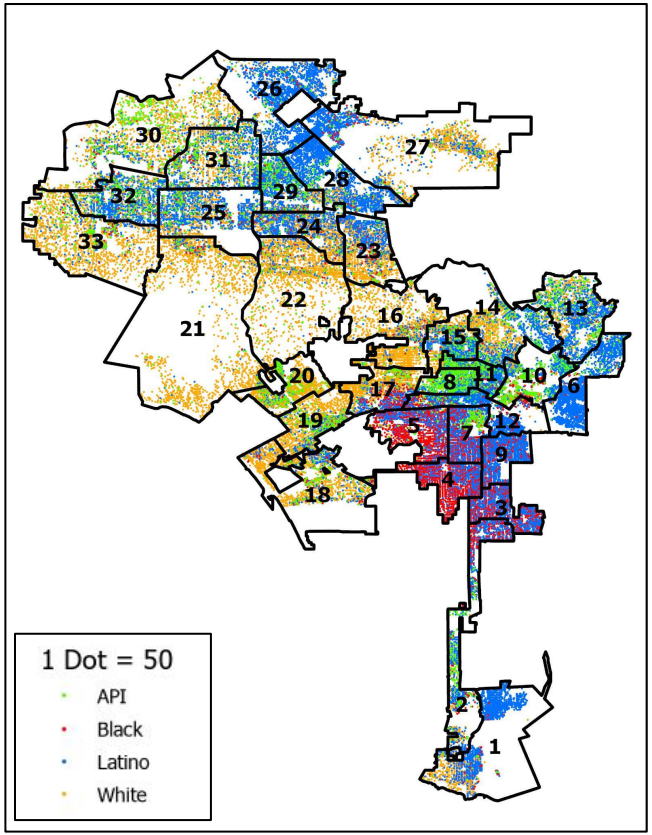
Population Density by Race (1 Dot = 50 People)



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more equitable democracy

ANALYSIS of 31 SMD (single-member districts)

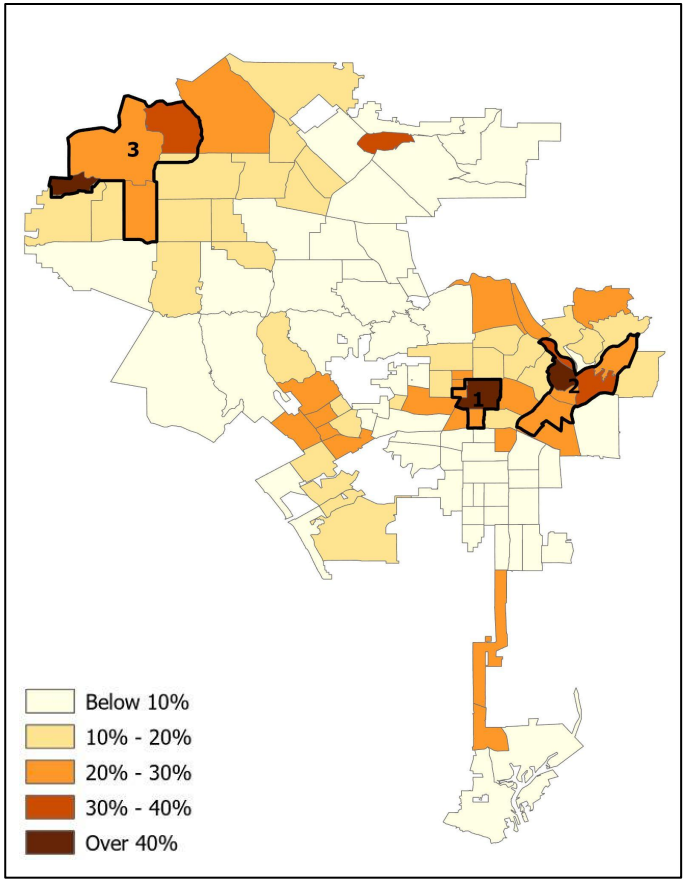
The following slide shows a map where we **manually drew three districts** to maximize **AAPI Citizen Voting Age Population (CVAP)**, while limiting neighborhood splits to **no more than one**.

Even under this intentionally favorable scenario, the **highest AAPI CVAP achieved in any single district is 39%**. All three districts also contain **substantial Latino and/or White CVAP**, meaning AAPI voters would **not be guaranteed the ability to elect a candidate of choice** even in a highly optimized map.

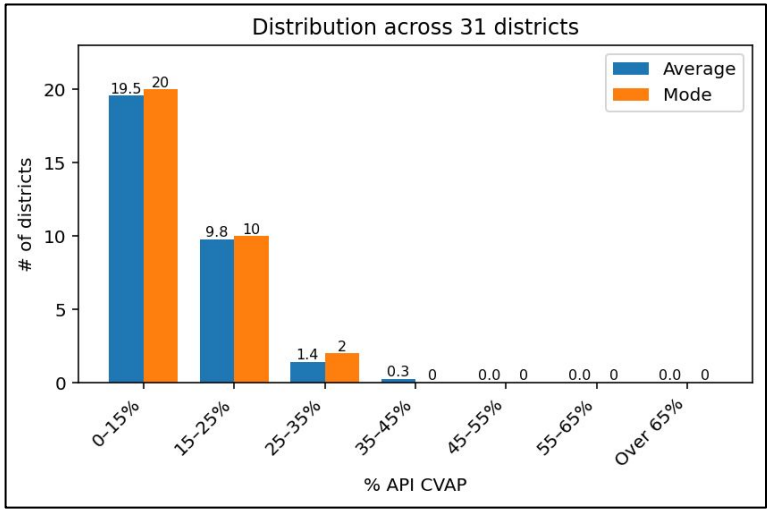
This illustrates a fundamental limitation of **Single-Member Districts**: even deliberate line-drawing cannot reliably produce districts where AAPI voters have decisive electoral power. **Multi-Member Districts** better reflect AAPI voting strength and provide more realistic opportunities for representation.

31 SMD: Maximum AAPI Representation

% AAPI CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
1	39%	11%	32%	16%	Koreatown, Harvard Heights, Windsor Square*
2	27%	16%	32%	22%	Elysian park, Elysian Valley, Chinatown, Lincoln Heights, Montecito Heights, Downtown*
3	24%	7%	26%	42%	Porter Ranch, Winnetka, Chatsworth, Chatsworth Reservoir, Northridge*



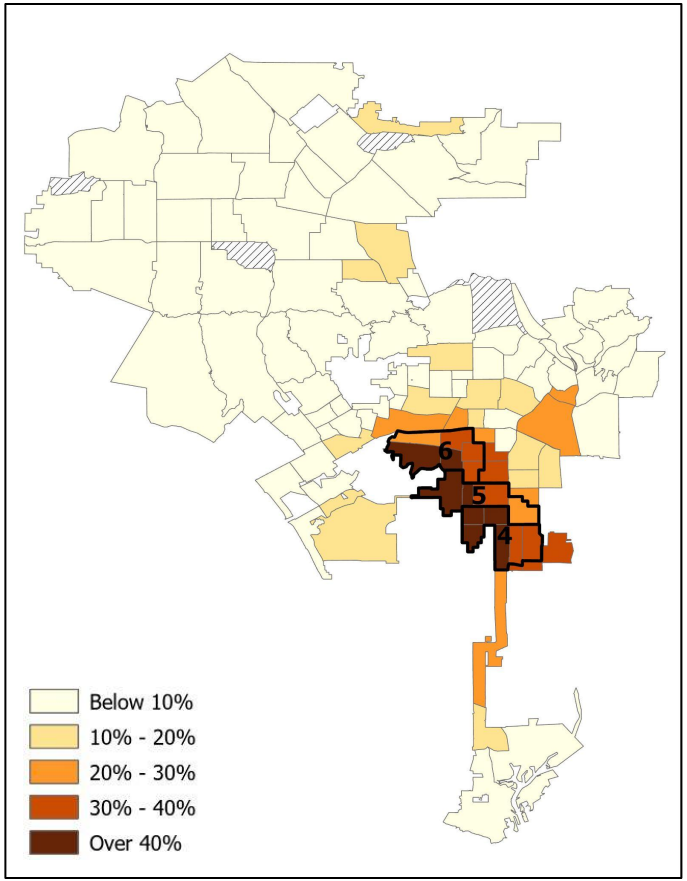
The following slide shows a map where we **manually drew three districts** to maximize **Black Citizen Voting Age Population (CVAP) between the three districts evenly**, while limiting neighborhood splits to **no more than two**.

Even under this intentionally favorable scenario, the **highest Black CVAP achieved in any single district is 49%**. All three districts also contain **substantial Latino CVAP**, meaning Black voters would **not be guaranteed the ability to elect a candidate of choice** even in a highly optimized map.

This illustrates a fundamental limitation of **Single-Member Districts**: even deliberate line-drawing cannot reliably produce districts where Black voters have decisive electoral power. **Multi-Member Districts** better reflect Black voting strength and provide more realistic opportunities for representation.

31 SMD: Maximum Black Representation

% Black CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
4	1%	49%	47%	2%	Gramercy Park, Manchester Square, Vermont Knolls, Vermont Vista, Broadway-Manchester*, Green Meadows*
5	1%	46%	48%	9%	Hyde Park, Chesterfield Square, Harvard Park, Vermont-Slauson, Florence*
6	5%	47%	38%	4%	West Adams, Baldwin Hills / Crenshaw, Leimert Park, Jefferson Park, Exposition Park*, Vermont Square*

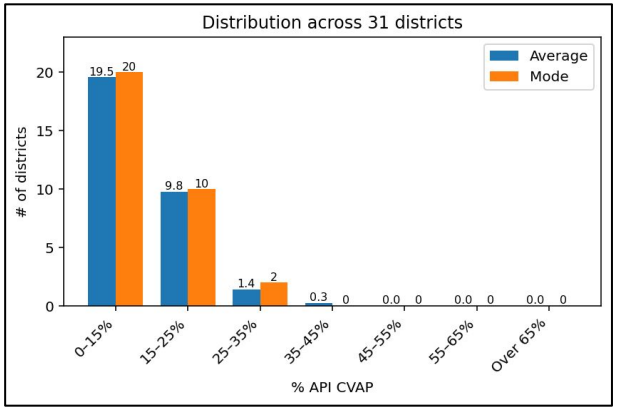
The following slide summarizes results from **10,000 randomly simulated maps** generated using **GerryChain**, showing the **average distribution of representation by race**.

Applying our definitions—**45%+ CVAP as a "solid" seat** and **35%–45% CVAP as an "influence" seat**—the chart estimates **racial influence under an average 31–district Single-Member District (SMD) plan**. **The results highlight the structural limitations of SMDs for AAPI and Black communities in Los Angeles, where winner-take-all, zero-sum elections constrain opportunities for representation even when meaningful population shares exist.**

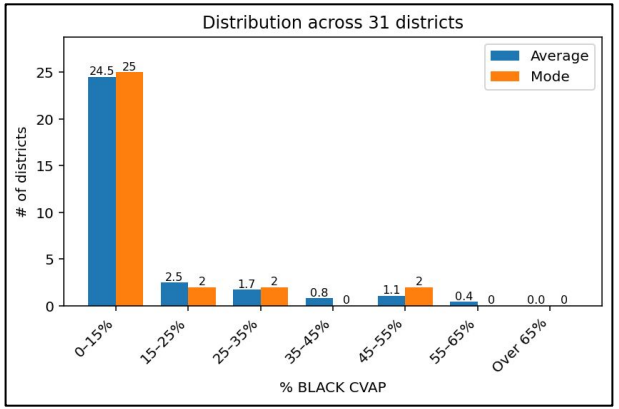
CVAP Distribution by Race: 31 SMD

Average & Mode (10,000 Simulated Maps)

AAPI

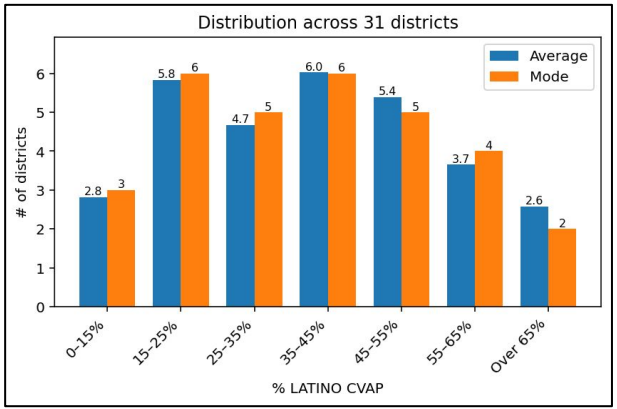


Black

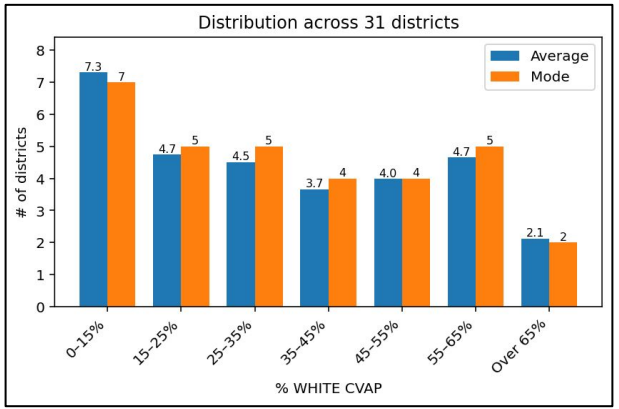


	Influence Districts *(35 - 45%)*	Solid Districts *(45% +)*	Total *(35%+)*
AAPI	0/31	0/31	0/31
Black	0/31	2/31	2/31
Latino	6/31	11/31	17/31
White	4/31	10/31	14/31

Latino

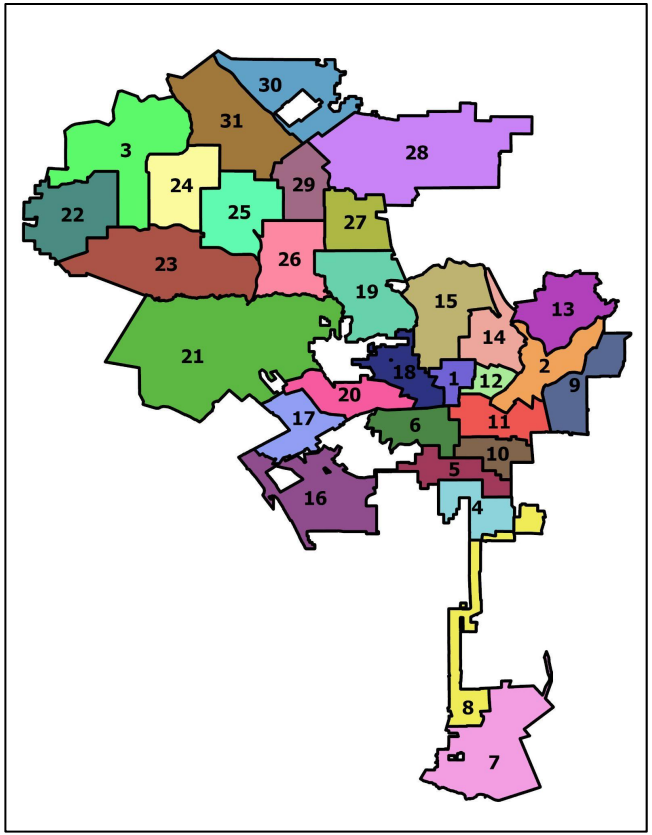


White



31 SMD: Unbiased

Context



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP
1	125,817	39%	11%	32%	16%	AAPI
2	125,504	27%	16%	32%	22%	Latino
3	126,258	24%	7%	26%	42%	White
4	125,110	1%	49%	47%	2%	Black
5	127,456	2%	46%	48%	4%	Latino
6	125,229	5%	47%	38%	9%	Black
7	124,769	7%	6%	54%	31%	Latino
8	127,194	13%	23%	53%	10%	Latino
9	126,857	8%	3%	81%	7%	Latino
10	125,986	1%	21%	76%	2%	Latino
11	127,976	11%	13%	59%	16%	Latino
12	124,198	24%	13%	49%	13%	Latino
13	126,941	19%	3%	46%	32%	Latino
14	126,890	17%	4%	30%	48%	White
15	126,673	13%	9%	27%	51%	White
16	124,947	14%	9%	18%	57%	White
17	126,291	20%	6%	17%	55%	White
18	125,237	16%	13%	17%	53%	White
19	124,051	8%	8%	15%	67%	White
20	124,517	12%	13%	19%	55%	White
21	124,916	16%	4%	10%	69%	White
22	127,965	15%	6%	27%	51%	White
23	125,932	8%	7%	13%	71%	White
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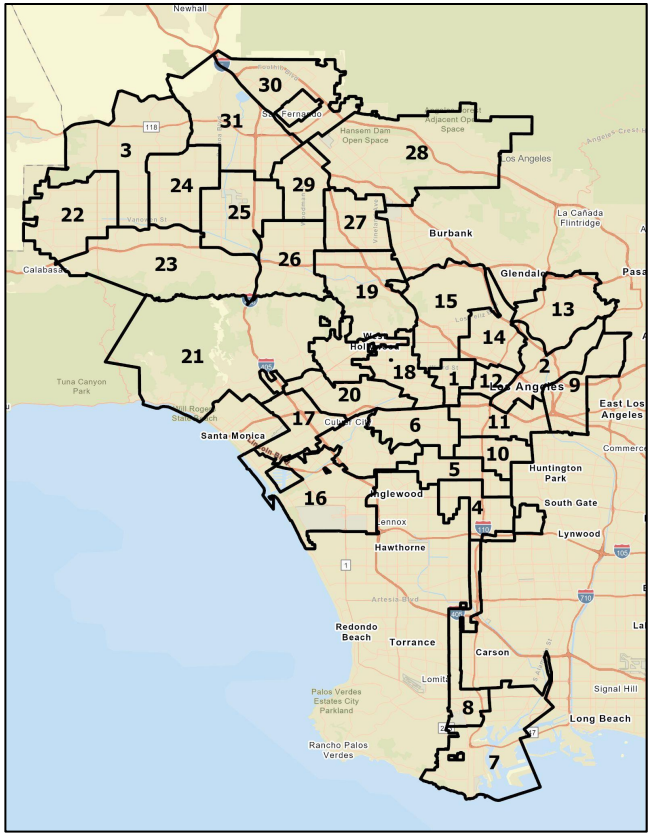

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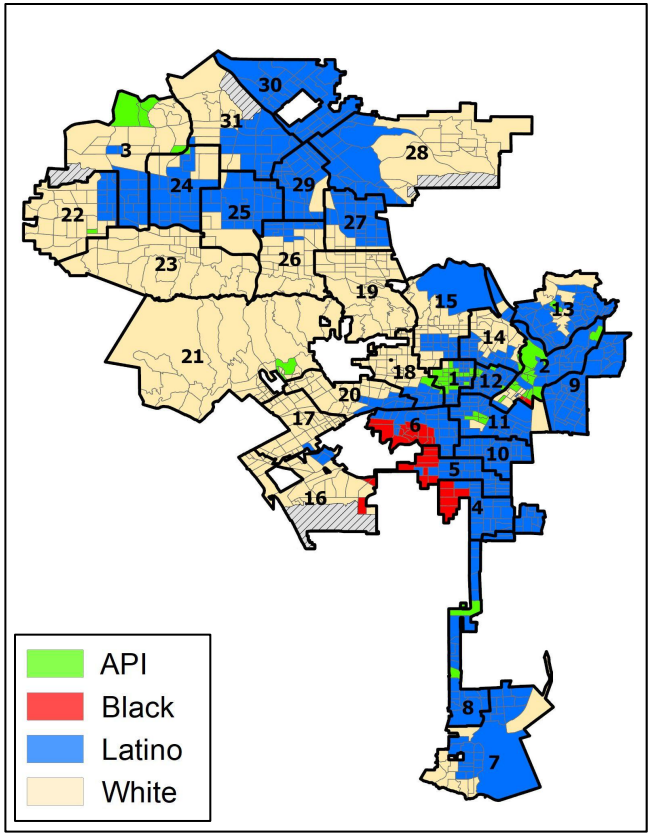

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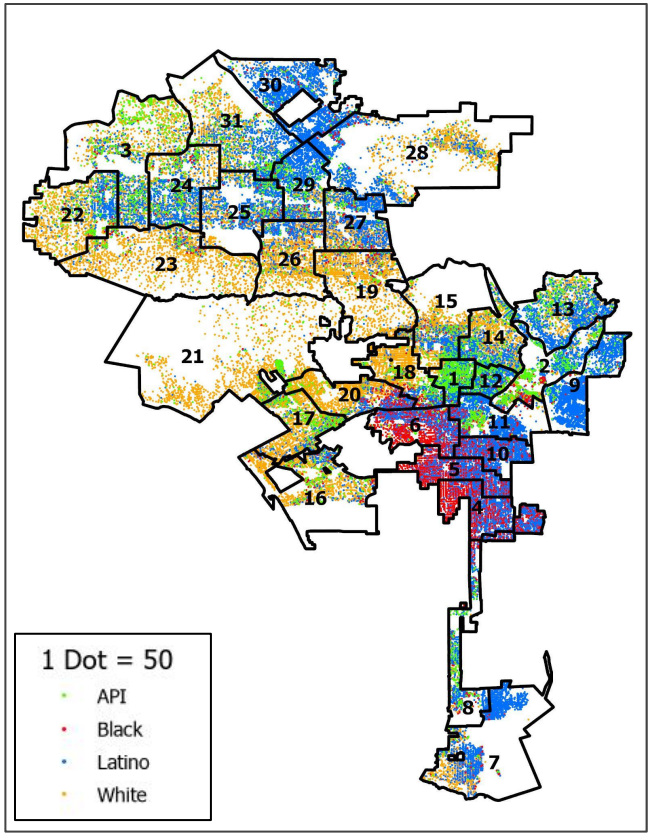

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26	125,964	7%	7%	25%	59%	White
27	126,409	8%	7%	47%	38%	Latino
28	124,046	8%	4%	43%	44%	White
29	124,940	13%	3%	60%	23%	Latino
30	127,127	8%	5%	75%	12%	Latino
31	126,314	17%	4%	42%	36%	Latino
Total	3,898,747	14%	12%	37%	37%	White

more equitable democracy

ANALYSIS of 27 SMD (single-member districts)

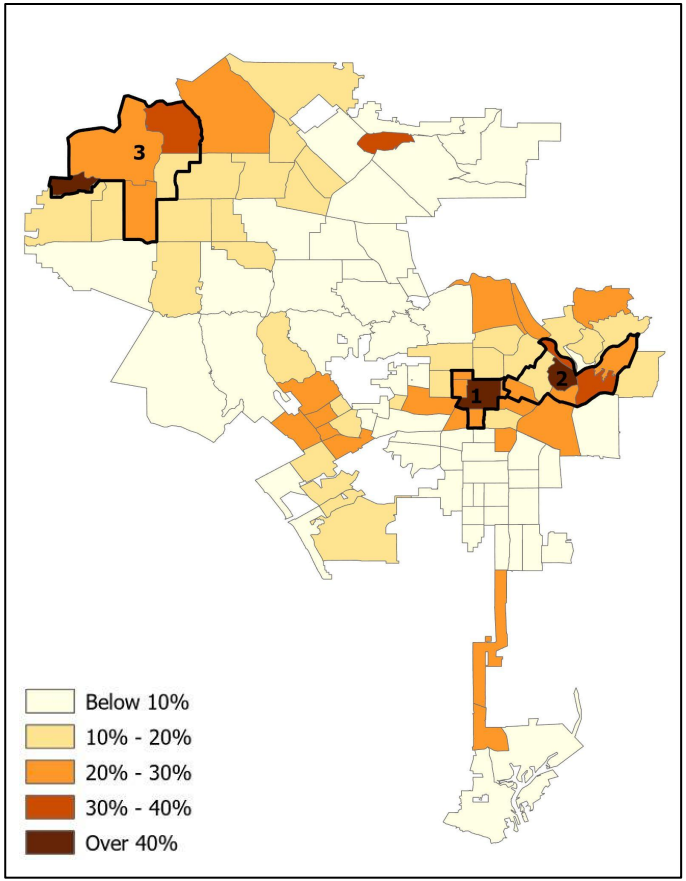
The following slide shows a map where we **manually drew three districts** to maximize **AAPI Citizen Voting Age Population (CVAP)**, while limiting neighborhood splits to **no more than one**.

Even under this intentionally favorable scenario, the **highest AAPI CVAP achieved in any single district is 38%**. All three districts also contain **substantial Latino and/or White CVAP**, meaning AAPI voters would **not be guaranteed the ability to elect a candidate of choice** even in a highly optimized map.

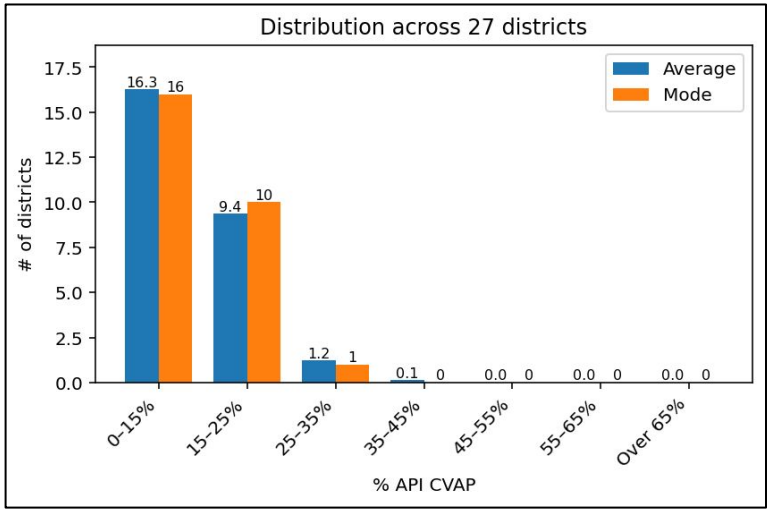
This illustrates a fundamental limitation of **Single-Member Districts**: even deliberate line-drawing cannot reliably produce districts where AAPI voters have decisive electoral power. **Multi-Member Districts** better reflect AAPI voting strength and provide more realistic opportunities for representation.

27 SMD: Maximum AAPI Representation

% AAPI CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
1	38%	10%	31%	19%	Koreatown, Harvard Heights, Windsor Square, Larchmont, Westlake*
2	25%	9%	43%	22%	Elysian Park, Elysian Valley, Chinatown, Lincoln Heights, Montecito Heights, Echo Park, Westlake*
3	24%	7%	27%	41%	Porter Ranch, Winnetka, Chatsworth, Chatsworth Reservoir, Northridge*



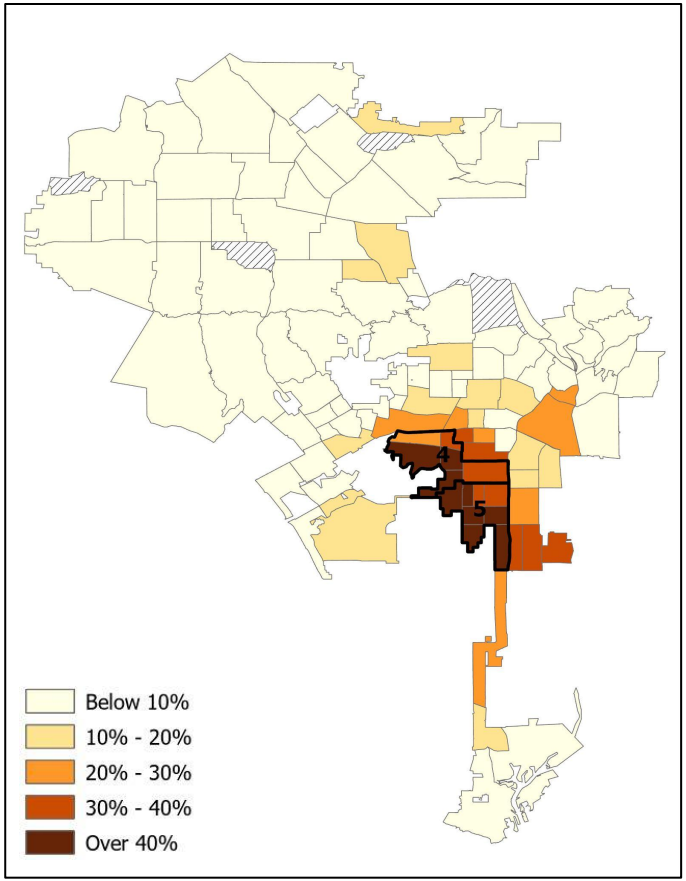
The following slide shows a map where we **manually drew two districts** to maximize **Black Citizen Voting Age Population (CVAP) between the two districts evenly**, while limiting neighborhood splits to **no more than two**.

Even under this intentionally favorable scenario, the **highest Black CVAP achieved in any single district is 52%**. All three districts also contain **substantial Latino CVAP**, meaning Black voters would **not be guaranteed the ability to elect a candidate of choice** even in a highly optimized map.

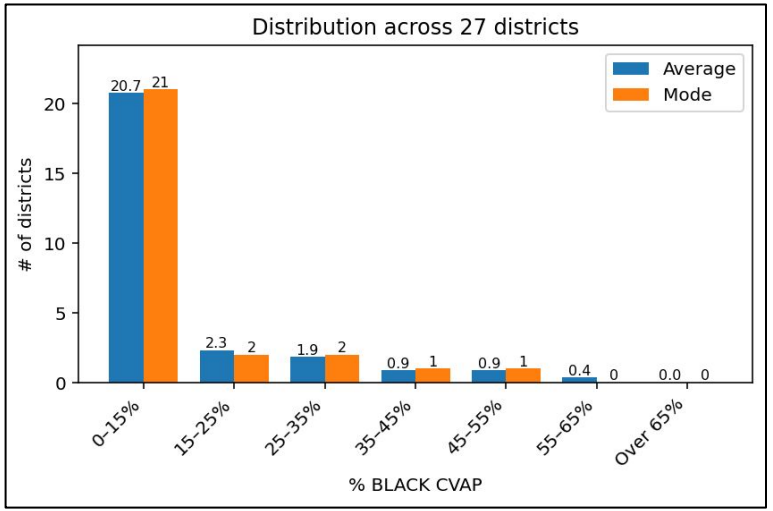
This illustrates a fundamental limitation of **Single-Member Districts**: even deliberate line-drawing cannot reliably produce districts where Black voters have decisive electoral power. **Multi-Member Districts** better reflect Black voting strength and provide more realistic opportunities for representation.

27 SMD: Maximum Black Representation

% Black CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
4	4%	50%	38%	8%	West Adams, Baldwin Hills / Crenshaw, Leimert Park, Vermont Square, Jefferson Park*, Hyde Park*
5	1%	52%	42%	3%	Vermont Vista, Vermont Knolls, Vermont-Slauson, Harvard park, Chesterfield Square, Manchester Square, Gramercy Park, Hyde Park*



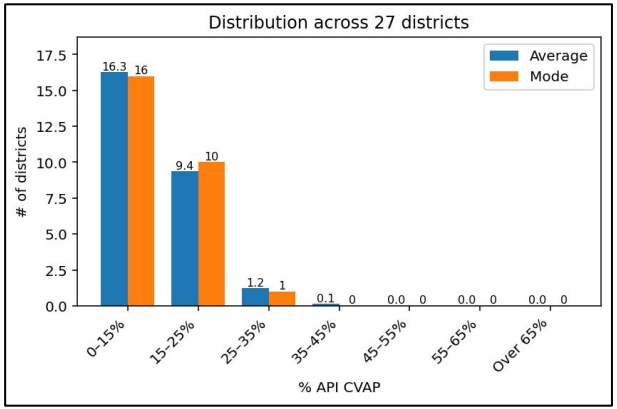
The following slide summarizes results from **10,000 randomly simulated maps** generated using **GerryChain**, showing the **average distribution of representation by race**.

Applying our definitions—**45%+ CVAP as a "solid" seat** and **35%–45% CVAP as an "influence" seat**—the chart estimates **racial influence under an average 27–district Single-Member District (SMD) plan**. **The results highlight the structural limitations of SMDs for AAPI and Black communities in Los Angeles, where winner-take-all, zero-sum elections constrain opportunities for representation even when meaningful population shares exist.**

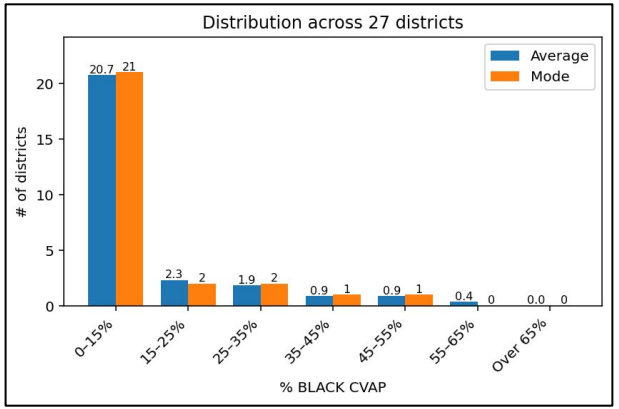
CVAP Distribution by Race: 27 SMD

Average & Mode (10,000 Simulated Maps)

AAPI

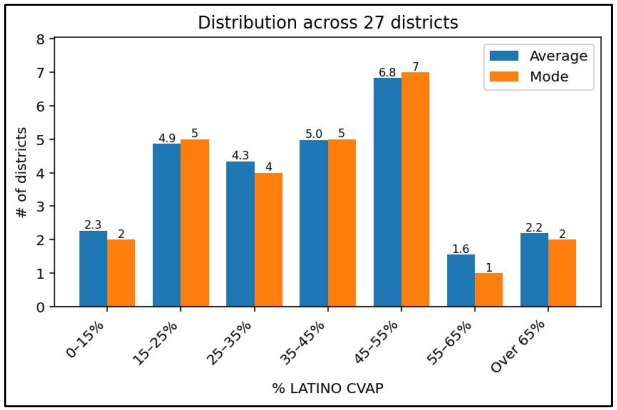


Black

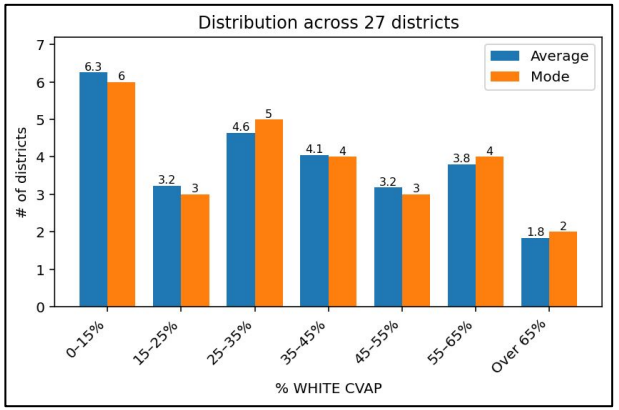


	Influence Districts *(35 - 45%)*	Solid Districts *(45% +)*	Total *(35%+)*
AAPI	0/27	0/27	0/27
Black	1/27	1/27	2/27
Latino	5/27	10/27	15/27
White	4/27	8/27	12/27

Latino

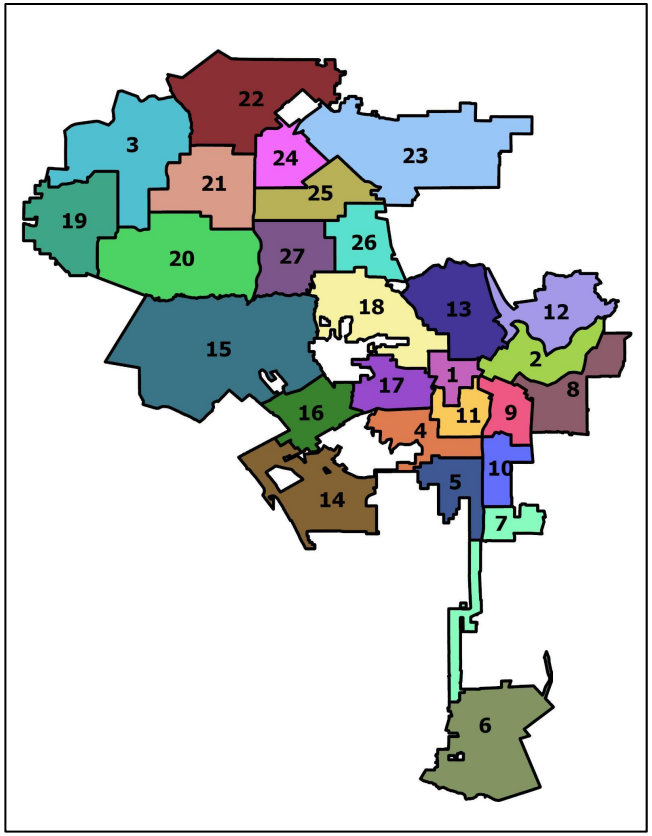


White



27 SMD: Unbiased

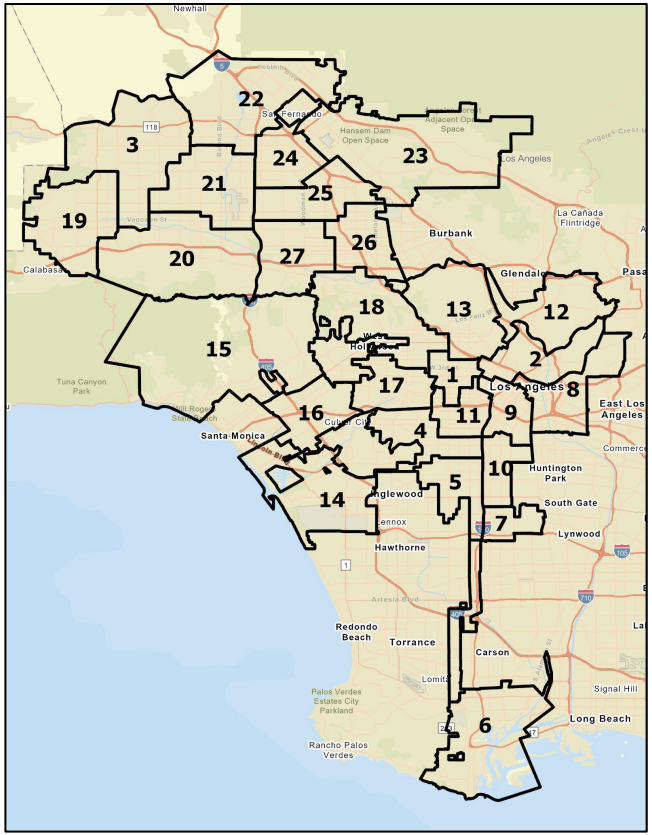
Context



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP
1	144,927	38%	10%	31%	19%	AAPI
2	143,703	25%	9%	43%	22%	Latino
3	145,405	24%	7%	27%	41%	White
4	143,412	4%	50%	38%	8%	Black
5	142,883	1%	52%	42%	3%	Black
6	144,305	8%	7%	55%	29%	Latino
7	146,220	11%	27%	55%	7%	Latino
8	144,878	11%	4%	73%	11%	Latino
9	144,273	15%	20%	46%	18%	Latino
10	144,906	1%	23%	75%	1%	Latino
11	145,152	15%	18%	50%	15%	Latino
12	144,804	19%	3%	44%	34%	Latino
13	144,609	15%	6%	26%	53%	White
14	144,156	14%	8%	19%	58%	White
15	142,505	16%	4%	10%	69%	White
16	144,687	20%	6%	15%	58%	White
17	144,297	14%	18%	21%	46%	White
18	144,599	9%	8%	17%	65%	White
19	145,617	14%	7%	25%	53%	White
20	145,041	9%	5%	19%	65%	White
21	144,028	15%	7%	41%	36%	Latino
22	144,590	14%	4%	51%	31%	Latino
23	143,071	7%	5%	48%	38%	Latino
24	144,480	13%	3%	71%	13%	Latino
25	144,531	12%	5%	52%	30%	Latino
26	144,613	7%	9%	35%	47%	White
27	143,055	7%	7%	25%	59%	White
Total	3,898,747	14%	12%	37%	37%	White

27 SMD: Unbiased

Context



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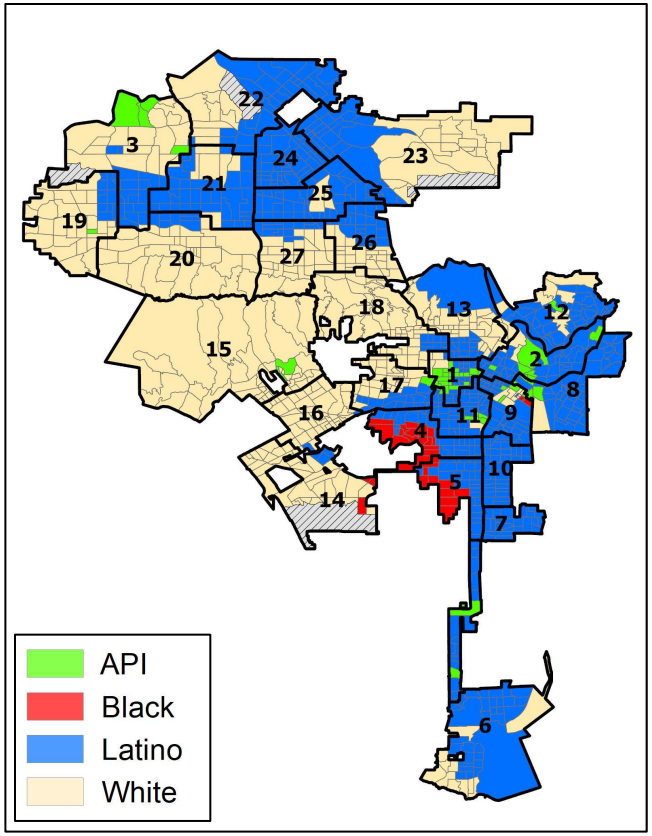
Total	3,898,747	14%	12%	37%	37%	White

27 SMD: Unbiased

Largest Racial Majority by Census Tract



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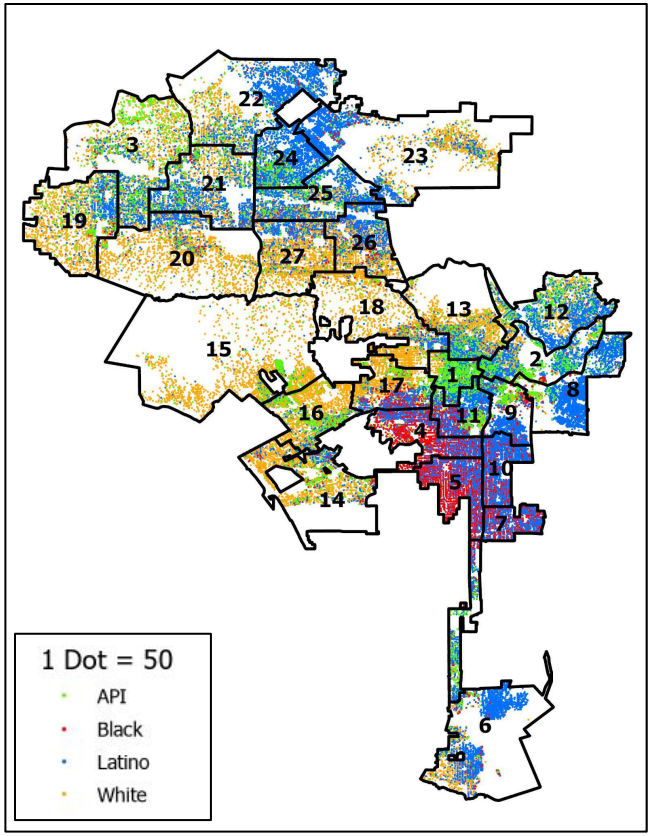
Total	3,898,747	14%	12%	37%	37%	White

27 SMD: Unbiased

Population Density by Race (1 Dot = 50 People)



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27	143,055	7%	7%	25%	59%	White
Total	3,898,747	14%	12%	37%	37%	White

more equitable democracy

ANALYSIS of 25 SMD (single-member districts)

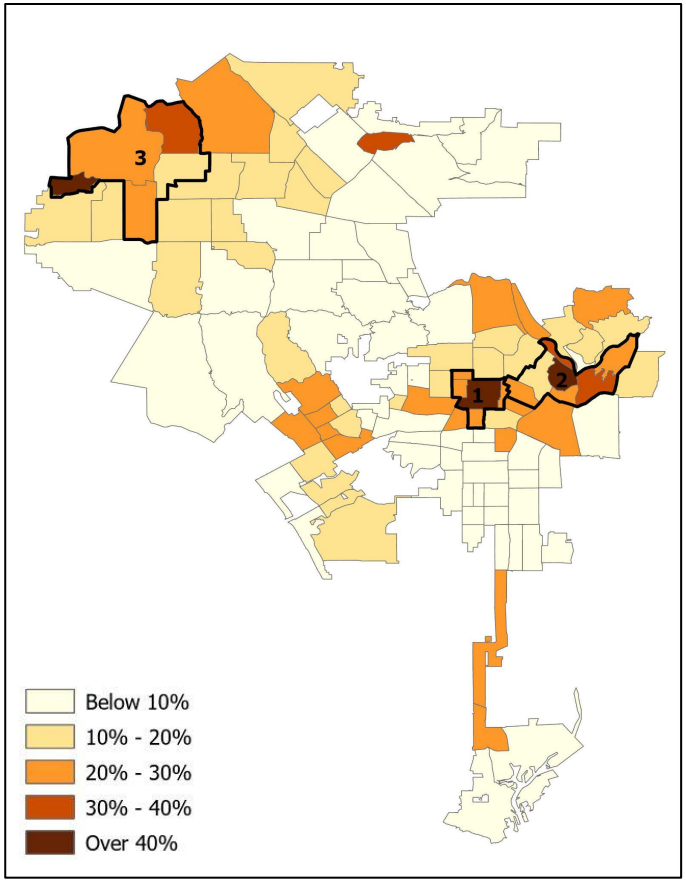
The following slide shows a map where we **manually drew three districts** to maximize **AAPI Citizen Voting Age Population (CVAP)**, while limiting neighborhood splits to **no more than one**.

Even under this intentionally favorable scenario, the **highest AAPI CVAP achieved in any single district is 37%**. All three districts also contain **substantial Latino and/or White CVAP**, meaning AAPI voters would **not be guaranteed the ability to elect a candidate of choice** even in a highly optimized map.

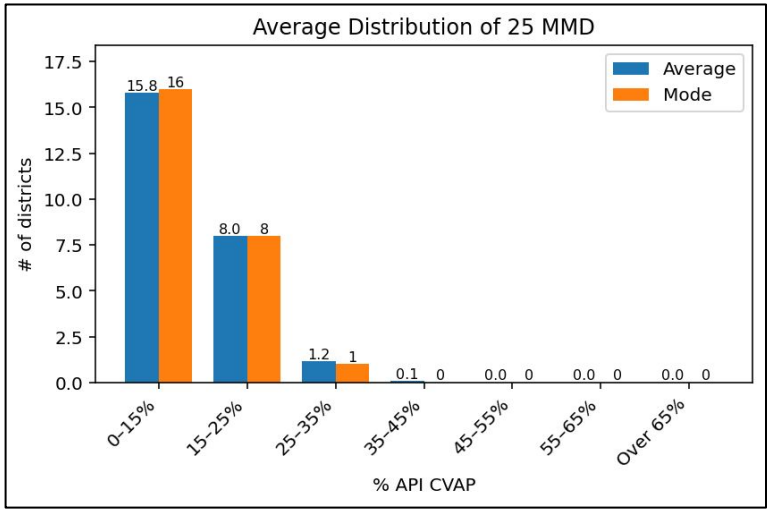
This illustrates a fundamental limitation of **Single-Member Districts**: even deliberate line-drawing cannot reliably produce districts where AAPI voters have decisive electoral power. **Multi-Member Districts** better reflect AAPI voting strength and provide more realistic opportunities for representation.

25 SMD: Maximum AAPI Representation

% AAPI CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
1	37%	10%	32%	19%	Koreatown, Harvard Heights, Windsor Square, Larchmont, Westlake*
2	25%	9%	43%	21%	Elysian Park, Elysian Valley, Chinatown, Lincoln Heights, Montecito Heights, Echo Park, Westlake*
3	23%	7%	27%	41%	Porter Ranch, Winnetka, Chatsworth, Chatsworth Reservoir, Northridge*



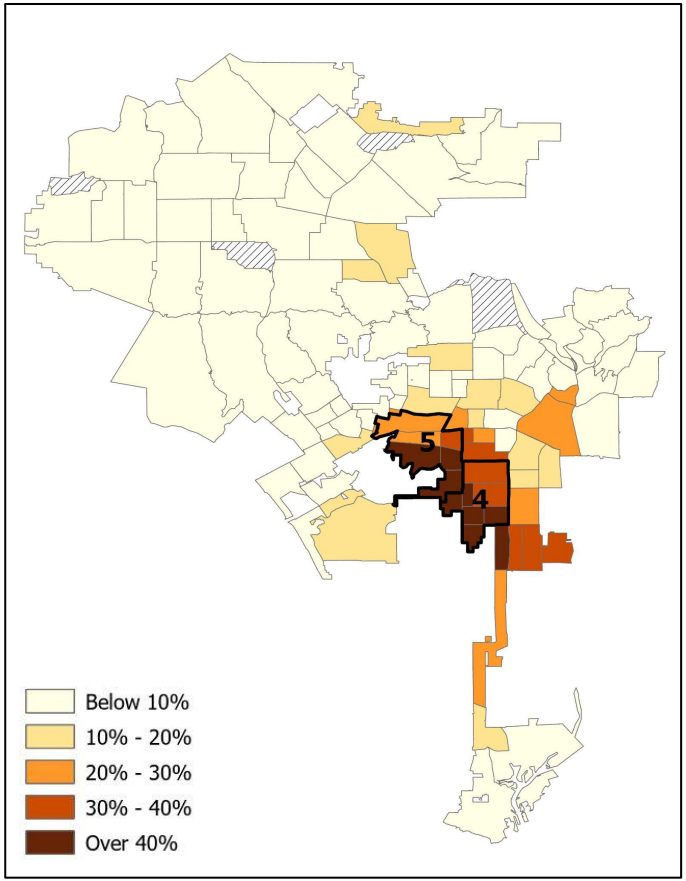
The following slide shows a map where we **manually drew two districts** to maximize **Black Citizen Voting Age Population (CVAP) between the two districts evenly**, while limiting neighborhood splits to **no more than two**.

Even under this intentionally favorable scenario, the **highest Black CVAP achieved in any single district is 48%**. All three districts also contain **substantial Latino CVAP**, meaning Black voters would **not be guaranteed the ability to elect a candidate of choice** even in a highly optimized map.

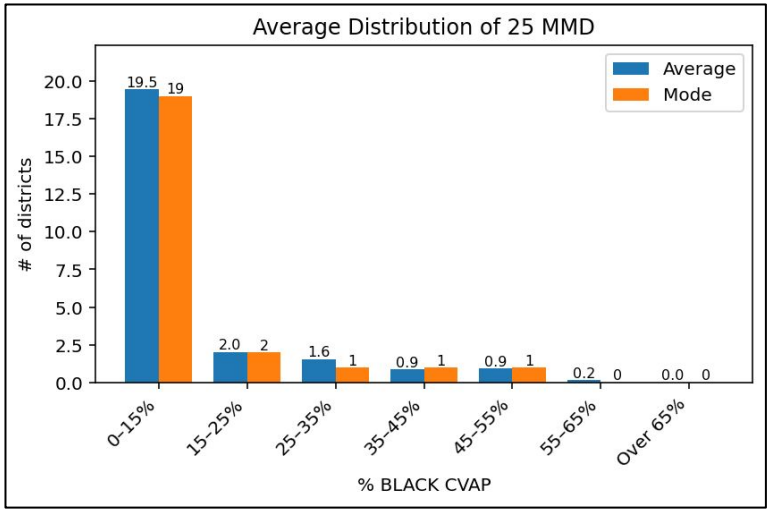
This illustrates a fundamental limitation of **Single-Member Districts**: even deliberate line-drawing cannot reliably produce districts where Black voters have decisive electoral power. **Multi-Member Districts** better reflect Black voting strength and provide more realistic opportunities for representation.

25 SMD: Maximum Black Representation

% Black CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
4	2%	48%	46%	3%	Vermont Vista, Vermont Knolls, Vermont-Slauson, Vermont Square, Harvard park, Chesterfield, Square, Manchester Square, Gramercy Park
5	6%	48%	31%	14%	Hyde Park, Leimert Park, Baldwin Hills / Crenshaw, West Adams, Jefferson Park*, Mid-City*



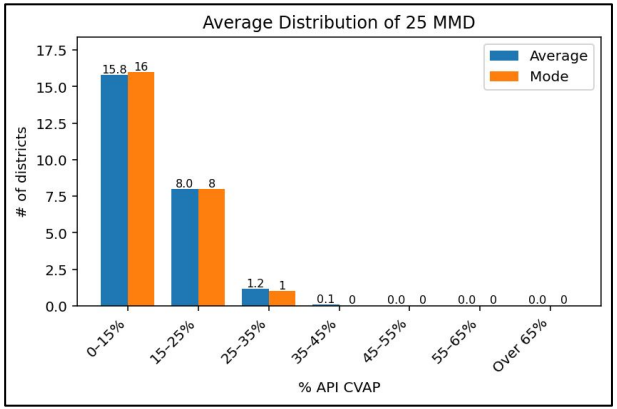
The following slide summarizes results from **10,000 randomly simulated maps** generated using **GerryChain**, showing the **average distribution of representation by race**.

Applying our definitions—**45%+ CVAP as a "solid" seat** and **35%–45% CVAP as an "influence" seat**—the chart estimates **racial influence under an average 25–district Single-Member District (SMD) plan**. **The results highlight the structural limitations of SMDs for AAPI and Black communities in Los Angeles, where winner-take-all, zero-sum elections constrain opportunities for representation even when meaningful population shares exist.**

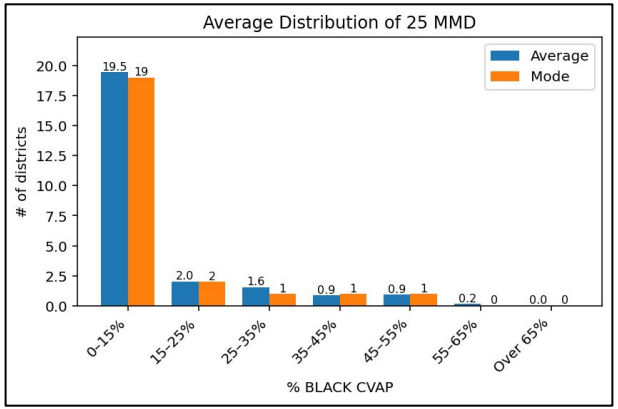
CVAP Distribution by Race: 25 SMD

Average & Mode (10,000 Simulated Maps)

AAPI

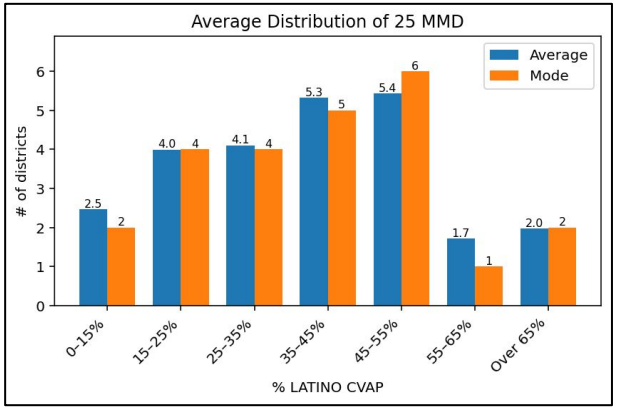


Black

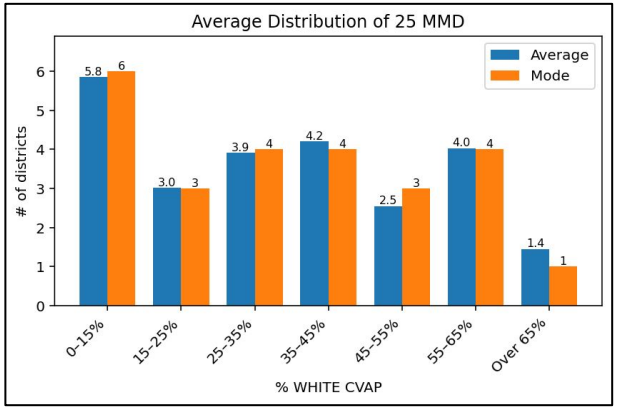


	Influence Districts *(35 - 45%)*	Solid Districts *(45% +)*	Total *(35%+)*
AAPI	0/25	0/25	0/25
Black	1/25	1/25	2/25
Latino	5/25	9/25	14/25
White	4/25	7/25	11/25

Latino

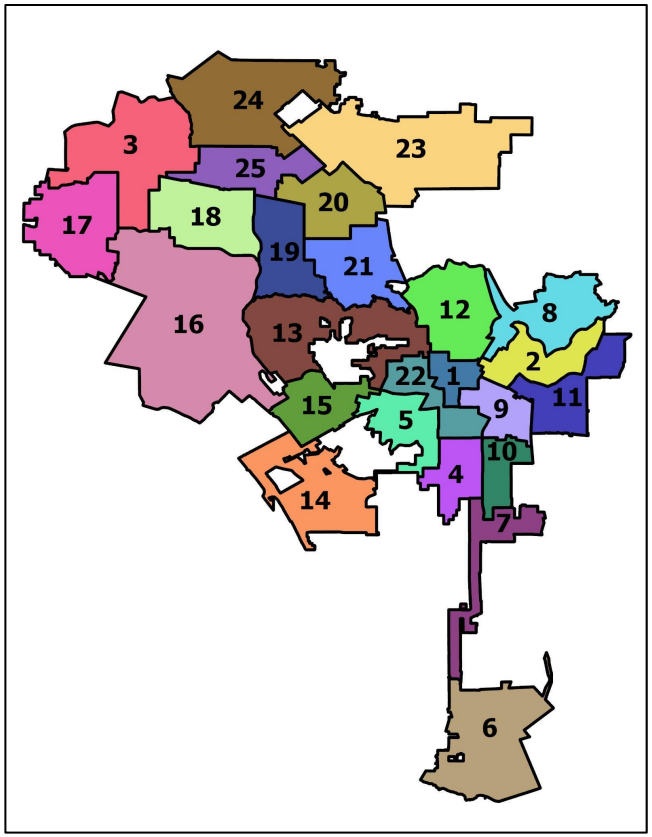


White



25 SMD: Unbiased

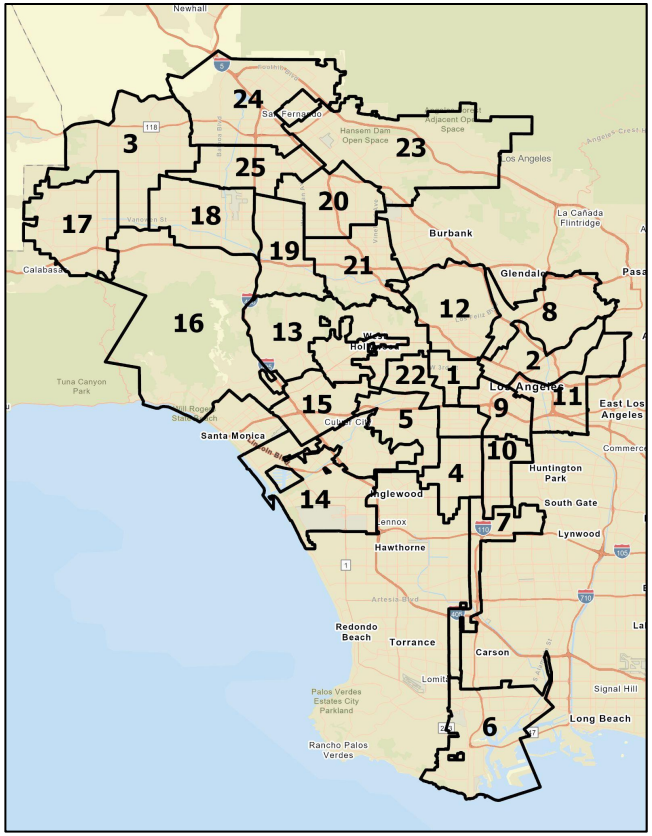
Context



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP
1	155,992	37%	10%	32%	19%	AAPI
2	154,762	25%	9%	43%	21%	Latino
3	155,725	23%	7%	27%	41%	White
4	157,553	2%	48%	46%	3%	Black
5	154,352	6%	48%	31%	14%	Black
6	155,144	9%	7%	54%	28%	Latino
7	154,685	9%	31%	54%	5%	Latino
8	157,812	19%	3%	41%	36%	Latino
9	156,274	15%	16%	52%	16%	Latino
10	155,894	1%	23%	75%	1%	Latino
11	156,580	12%	7%	68%	13%	Latino
12	153,963	14%	6%	29%	50%	White
13	154,014	14%	8%	14%	63%	White
14	156,843	14%	7%	19%	59%	White
15	156,908	19%	7%	13%	61%	White
16	156,702	10%	4%	9%	76%	White
17	157,550	14%	7%	24%	55%	White
18	155,954	13%	6%	41%	39%	Latino
19	156,015	8%	7%	32%	51%	White
20	156,064	10%	5%	53%	31%	Latino
21	158,118	8%	9%	22%	59%	White
22	155,132	17%	19%	32%	31%	Latino
23	154,936	7%	5%	51%	36%	Latino
24	157,349	13%	4%	54%	28%	Latino
25	154,426	15%	5%	55%	24%	Latino
Total	3,898,747	14%	12%	37%	37%	White

25 SMD: Unbiased

Context



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP
1	155,992	37%	10%	32%	19%	AAPI
2	154,762	25%	9%	43%	21%	Latino
3	155,725	23%	7%	27%	41%	White
4	157,553	2%	48%	46%	3%	Black
5	154,352	6%	48%	31%	14%	Black
6	155,144	9%	7%	54%	28%	Latino
7	154,685	9%	31%	54%	5%	Latino
8	157,812	19%	3%	41%	36%	Latino
9	156,274	15%	16%	52%	16%	Latino
10	155,894	1%	23%	75%	1%	Latino
11	156,580	12%	7%	68%	13%	Latino
12	153,963	14%	6%	29%	50%	White
13	154,014	14%	8%	14%	63%	White
14	156,843	14%	7%	19%	59%	White
15	156,908	19%	7%	13%	61%	White
16	156,702	10%	4%	9%	76%	White
17	157,550	14%	7%	24%	55%	White
18	155,954	13%	6%	41%	39%	Latino
19	156,015	8%	7%	32%	51%	White
20	156,064	10%	5%	53%	31%	Latino
21	158,118	8%	9%	22%	59%	White
22	155,132	17%	19%	32%	31%	Latino
23	154,936	7%	5%	51%	36%	Latino
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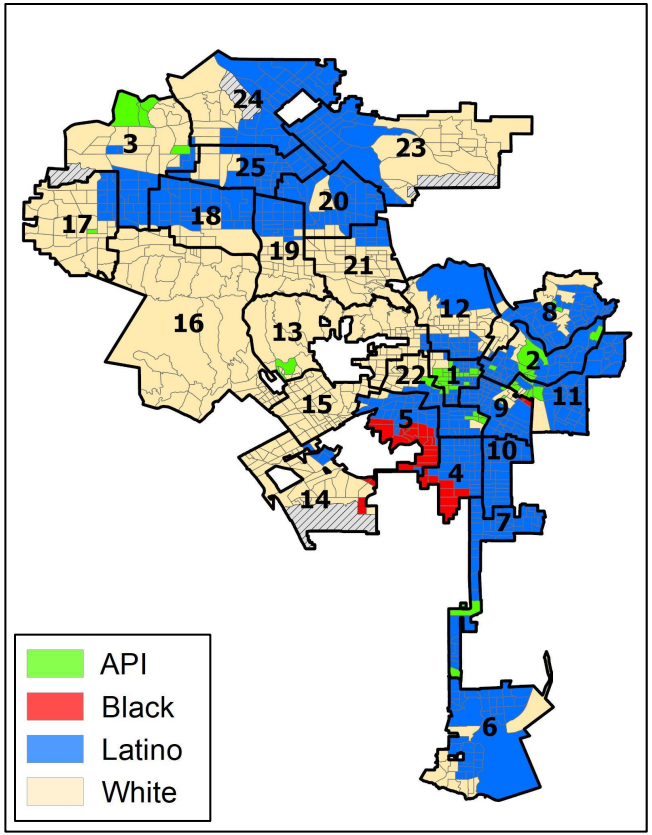
Total	3,898,747	14%	12%	37%	37%	White

25 SMD: Unbiased

Largest Racial Majority by Census Tract



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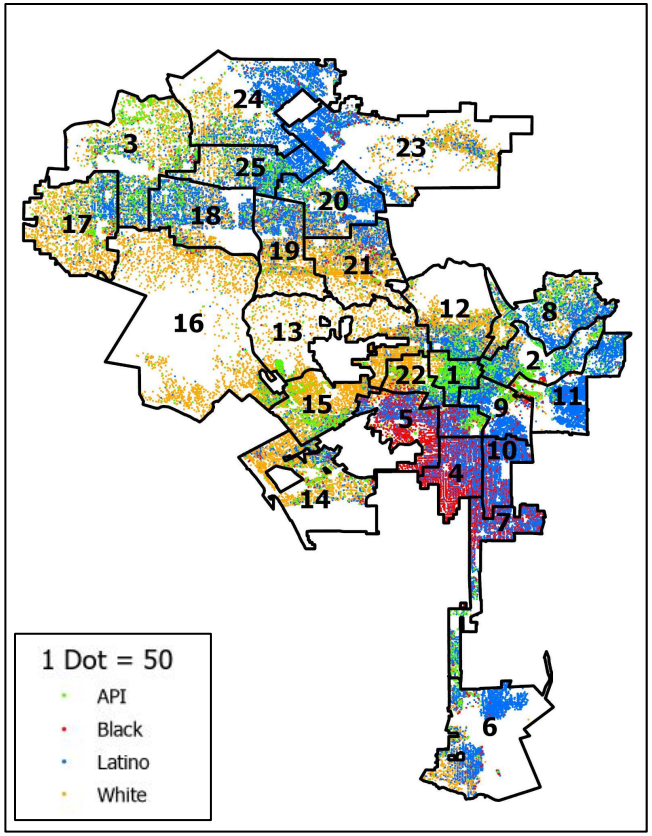
Total	3,898,747	14%	12%	37%	37%	White

25 SMD: Unbiased

Population Density by Race (1 Dot = 50 People)



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP
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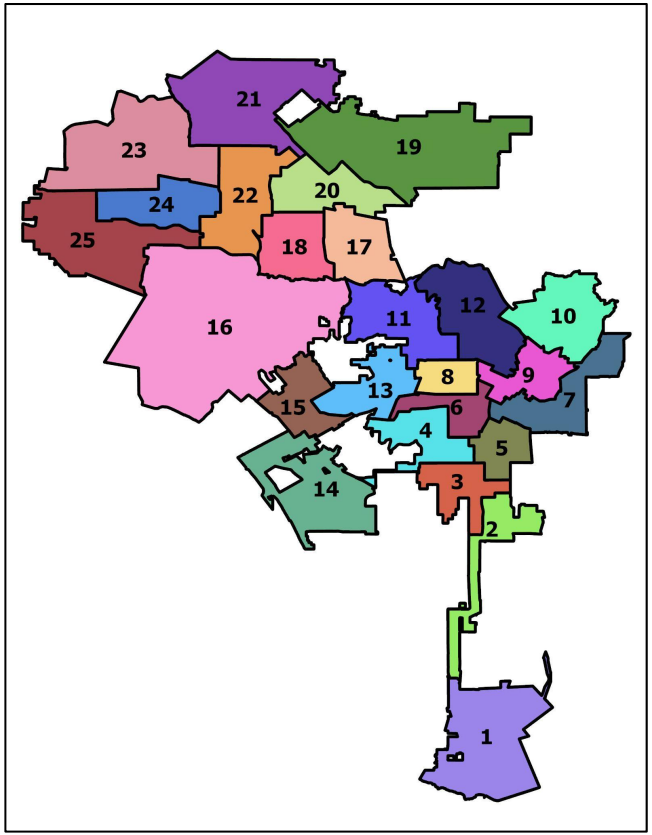
Total	3,898,747	14%	12%	37%	37%	White

Map N: 25 SMD Packed

Context



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3	156,022	1%	51%	44%	3%	Black
4	156,158	5%	50%	35%	9%	Black
5	156,939	1%	15%	81%	3%	Latino
6	155,696	13%	20%	49%	17%	Latino
7	156,873	9%	10%	67%	13%	Latino
8	155,470	40%	10%	31%	18%	API
9	155,840	30%	14%	37%	18%	Latino
10	156,600	20%	3%	46%	30%	Latino
11	155,599	11%	8%	22%	57%	White
12	155,960	15%	5%	29%	50%	White
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17	155,461	8%	9%	29%	53%	White
18	156,665	8%	7%	28%	56%	White
19	155,544	7%	5%	52%	35%	Latino
20	156,658	12%	4%	62%	21%	Latino
21	155,611	13%	4%	53%	29%	Latino
22	156,017	13%	7%	50%	29%	Latino
23	155,195	21%	8%	26%	44%	White
24	155,278	17%	6%	45%	31%	Latino
25	154,975	12%	6%	18%	62%	White
Total	3,898,747	14%	12%	37%	37%	White

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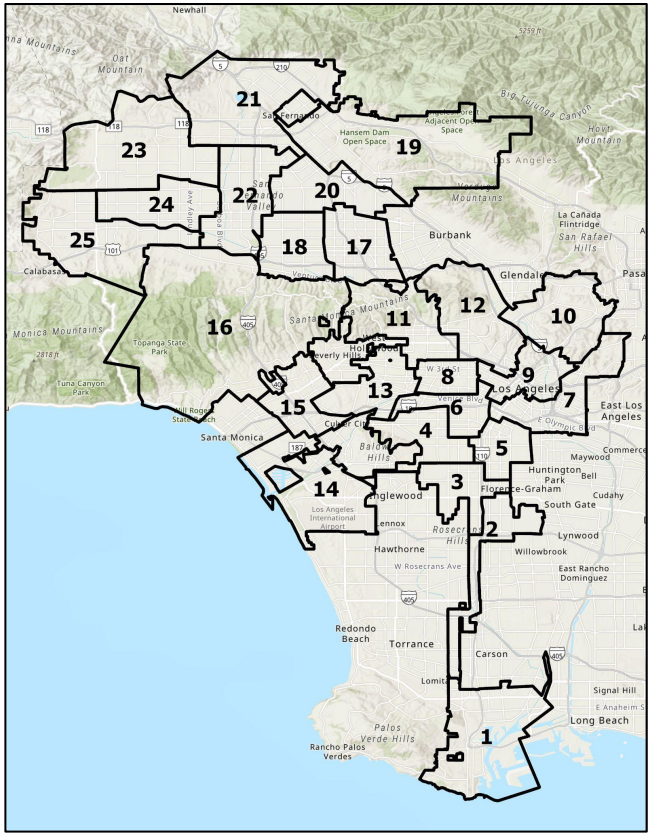

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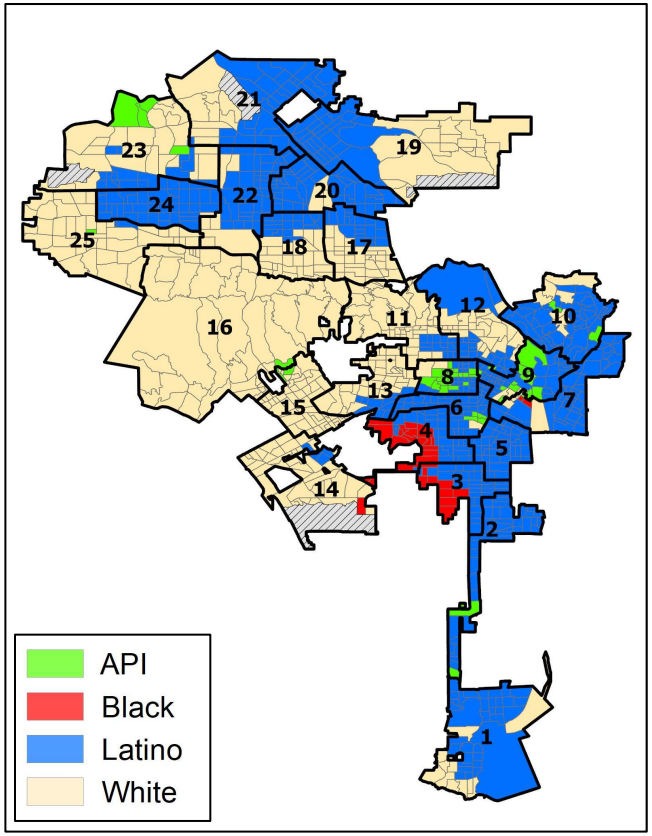
Map N: 25 SMD Packed

Largest Racial Majority by Census Tract



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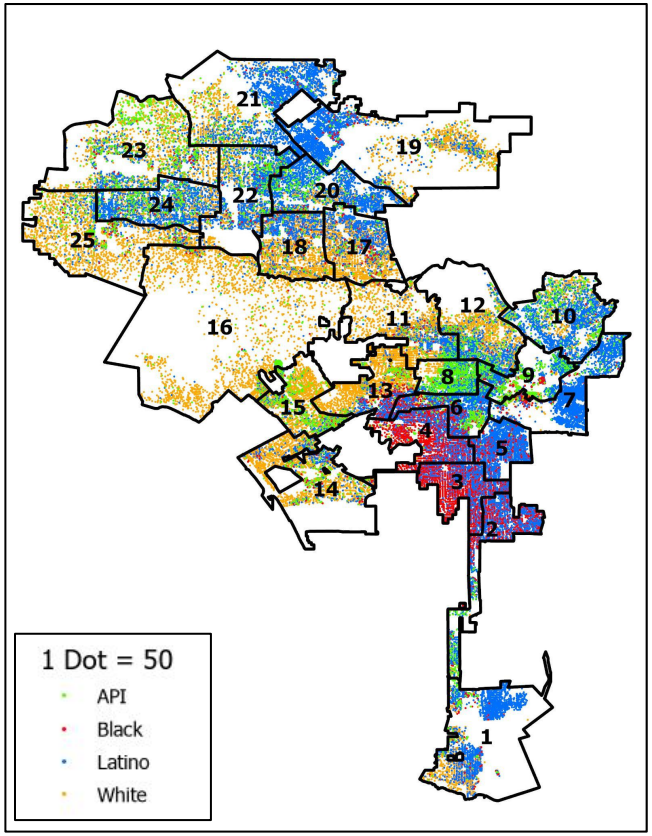
Map N: 25 SMD Packed

Population Density by Race (1 Dot = 50 People)



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more equitable democracy

ANALYSIS of 23 SMD (single-member districts)

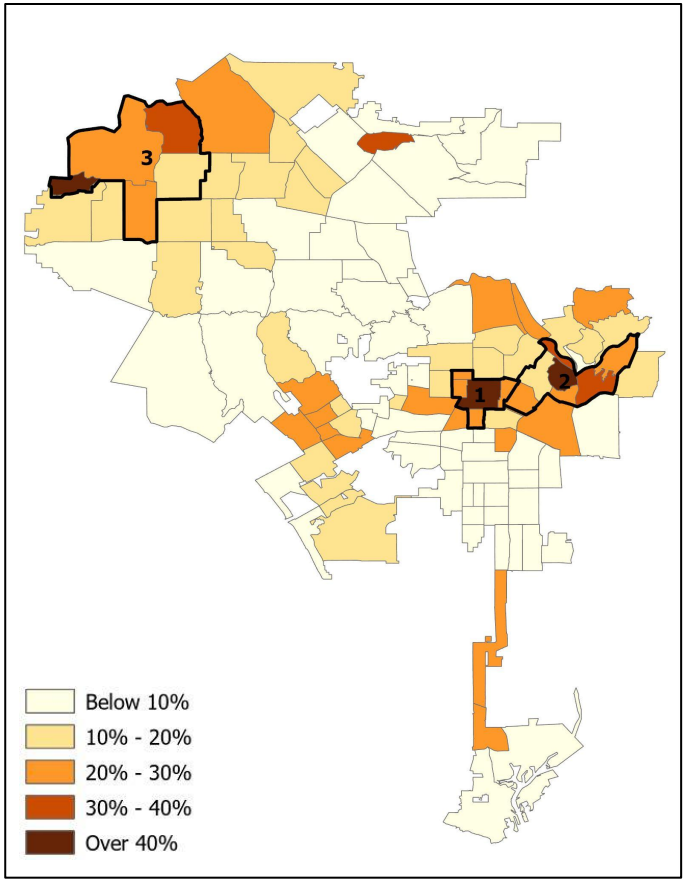
The following slide shows a map where we **manually drew three districts** to maximize **AAPI Citizen Voting Age Population (CVAP)**, while limiting neighborhood splits to **no more than one**.

Even under this intentionally favorable scenario, the **highest AAPI CVAP achieved in any single district is 36%**. All three districts also contain **substantial Latino and/or White CVAP**, meaning AAPI voters would **not be guaranteed the ability to elect a candidate of choice** even in a highly optimized map.

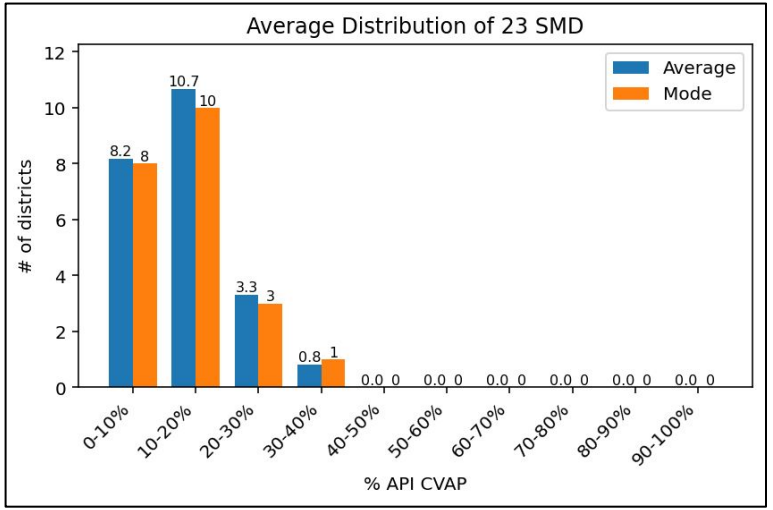
This illustrates a fundamental limitation of **Single-Member Districts**: even deliberate line-drawing cannot reliably produce districts where AAPI voters have decisive electoral power. **Multi-Member Districts** better reflect AAPI voting strength and provide more realistic opportunities for representation.

23 SMD: Maximum AAPI Representation

% AAPI CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
1	36%	10%	32%	19%	Koreatown, Harvard Heights, Windsor Square, Larchmont, Westlake*
2	24%	10%	43%	21%	Elysian Park, Elysian Valley, Chinatown, Lincoln Heights, Montecito Heights, Echo Park, Westlake*
3	23%	7%	29%	40%	Porter Ranch, Winnetka, Chatsworth, Chatsworth Reservoir, Northridge*



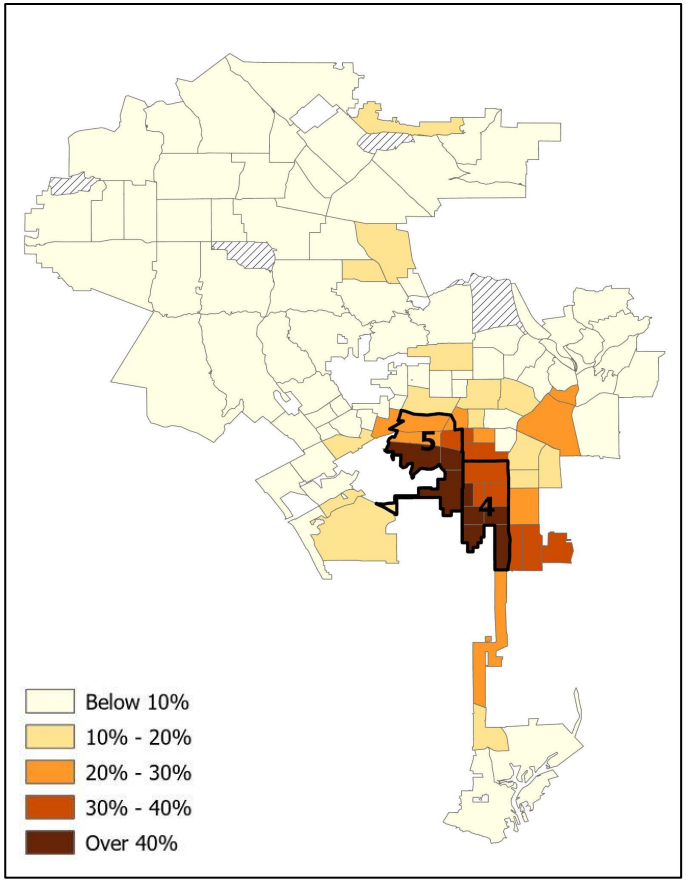
The following slide shows a map where we **manually drew two districts** to maximize **Black Citizen Voting Age Population (CVAP) between the two districts evenly**, while limiting neighborhood splits to **no more than two**.

Even under this intentionally favorable scenario, the **highest Black CVAP achieved in any single district is 50%**. All three districts also contain **substantial Latino CVAP**, meaning Black voters would **not be guaranteed the ability to elect a candidate of choice** even in a highly optimized map.

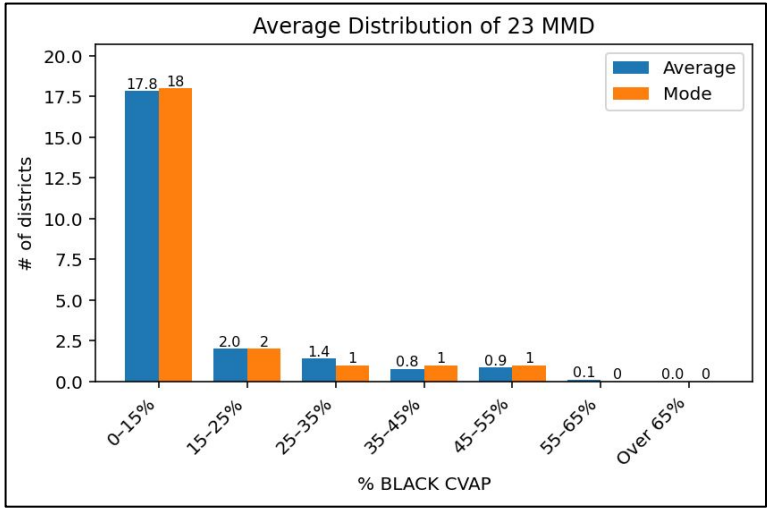
This illustrates a fundamental limitation of **Single-Member Districts**: even deliberate line-drawing cannot reliably produce districts where Black voters have decisive electoral power. **Multi-Member Districts** better reflect Black voting strength and provide more realistic opportunities for representation.

23 SMD: Maximum Black Representation

% Black CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
4	2%	46%	49%	3%	Gramercy Park, Manchester Square, Vermont Knolls, Vermont Vista, Vermont-Slauson, Harvard Park, Chesterfield Square, Vermont Square
5	6%	50%	30%	13%	Hyde Park, Leimert Park, Baldwin Hills / Crenshaw, West Adams, Mid-City*, Jefferson Park*



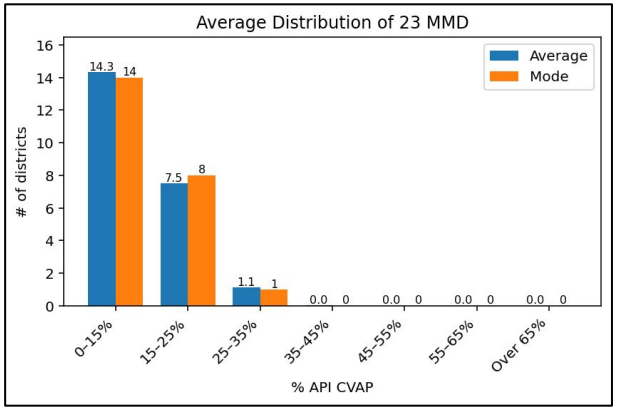
The following slide summarizes results from **10,000 randomly simulated maps** generated using **GerryChain**, showing the **average distribution of representation by race**.

Applying our definitions—**45%+ CVAP as a "solid" seat** and **35%–45% CVAP as an "influence" seat**—the chart estimates **racial influence under an average 23–district Single-Member District (SMD) plan**. **The results highlight the structural limitations of SMDs for AAPI and Black communities in Los Angeles, where winner-take-all, zero-sum elections constrain opportunities for representation even when meaningful population shares exist.**

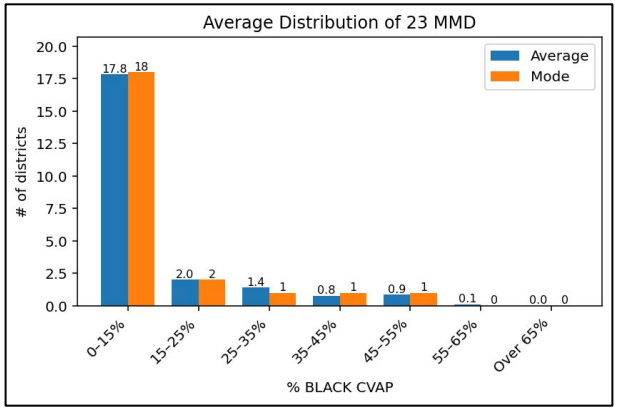
CVAP Distribution by Race: 23 SMD

Average & Mode (10,000 Simulated Maps)

AAPI

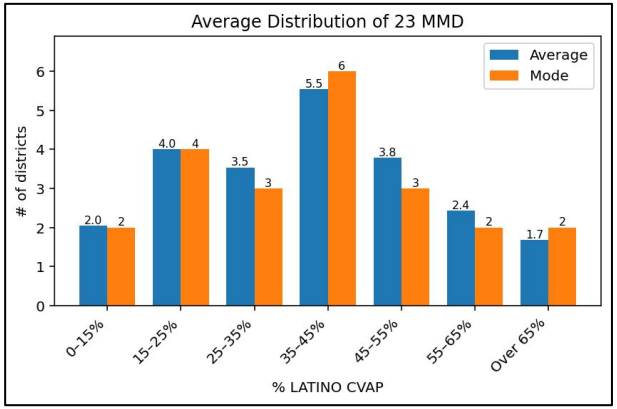


Black

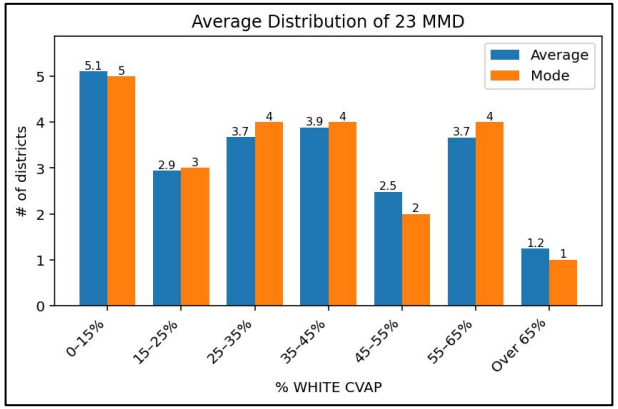


	Influence Districts *(35 - 45%)*	Solid Districts *(45% +)*	Total *(35%+)*
AAPI	0/23	0/23	0/23
Black	1/23	1/23	2/23
Latino	6/23	7/23	13/23
White	4/23	7/23	11/23

Latino

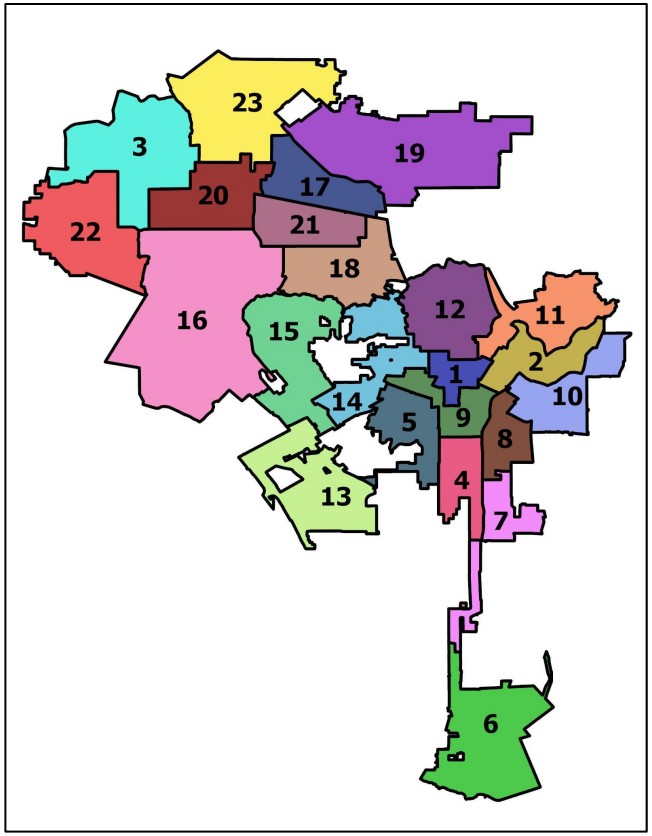


White



Map L: 23 SMD Unbiased

Context



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP
1	168,295	36%	10%	33%	19%	AAPI
2	169,980	24%	11%	43%	21%	Latino
3	169,431	23%	7%	29%	40%	White
4	168,998	2%	46%	49%	3%	Latino
5	169,358	6%	50%	30%	13%	Black
6	169,712	10%	8%	53%	28%	Latino
7	169,395	6%	31%	59%	3%	Latino
8	168,328	7%	15%	69%	8%	Latino
9	169,907	17%	18%	44%	21%	Latino
10	169,074	12%	10%	63%	14%	Latino
11	167,955	18%	3%	41%	37%	Latino
12	169,068	13%	8%	28%	50%	White
13	168,151	14%	6%	19%	59%	White
14	169,967	12%	8%	14%	65%	White
15	169,149	21%	5%	12%	60%	White
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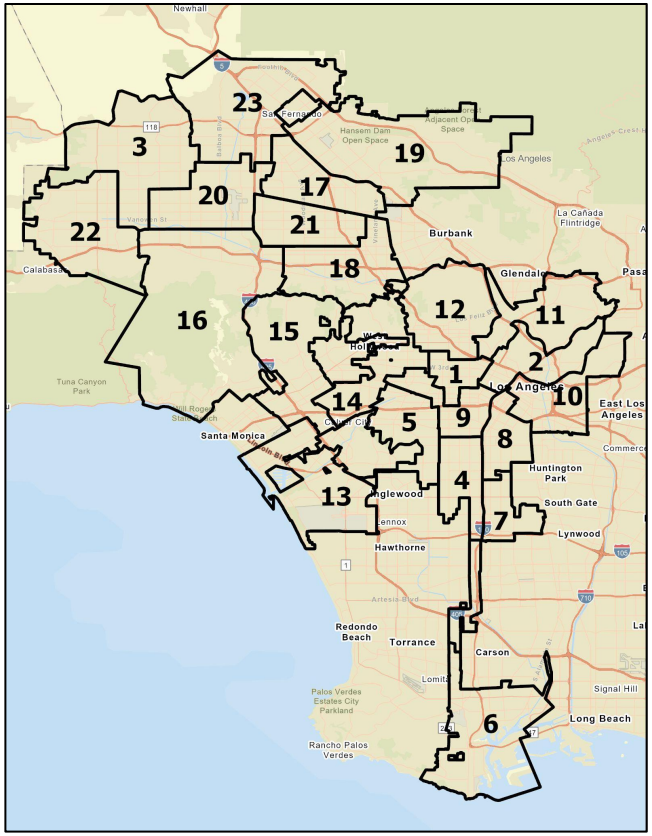
17	172,215	13%	3%	64%	19%	Latino
18	169,298	8%	9%	20%	62%	White
19	167,770	7%	5%	53%	34%	Latino
20	171,564	13%	6%	45%	34%	Latino
21	170,172	8%	7%	42%	41%	Latino
22	169,446	13%	7%	23%	56%	White
23	171,061	14%	4%	50%	31%	Latino
Total	3,898,747	14%	12%	37%	37%	White

Map L: 23 SMD Unbiased

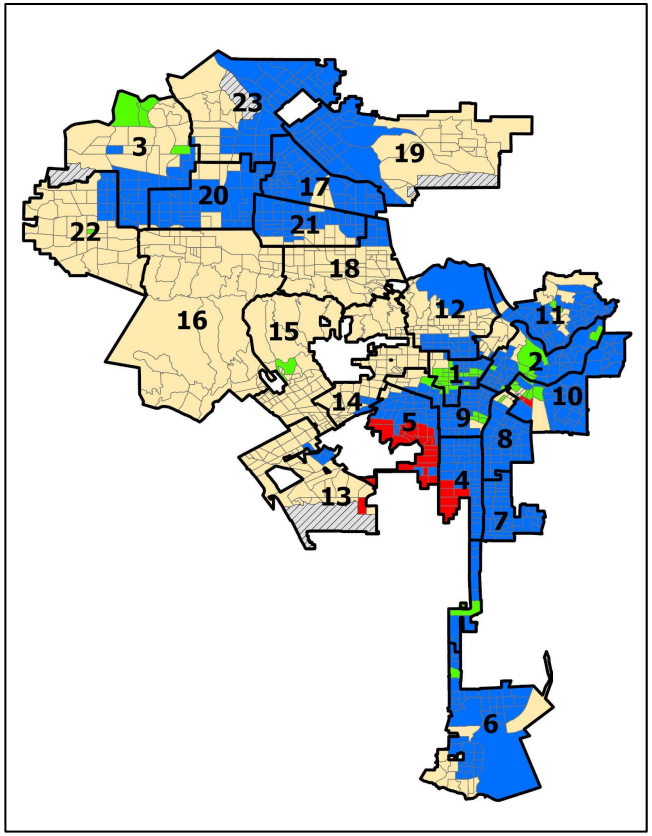
Context



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP
1	168,295	36%	10%	33%	19%	AAPI
2	169,980	24%	11%	43%	21%	Latino
3	169,431	23%	7%	29%	40%	White
4	168,998	2%	46%	49%	3%	Latino
5	169,358	6%	50%	30%	13%	Black
6	169,712	10%	8%	53%	28%	Latino
7	169,395	6%	31%	59%	3%	Latino
8	168,328	7%	15%	69%	8%	Latino
9	169,907	17%	18%	44%	21%	Latino
10	169,074	12%	10%	63%	14%	Latino
11	167,955	18%	3%	41%	37%	Latino
12	169,068	13%	8%	28%	50%	White
13	168,151	14%	6%	19%	59%	White
14	169,967	12%	8%	14%	65%	White
15	169,149	21%	5%	12%	60%	White
16	170,453	8%	5%	12%	74%	White
17	172,215	13%	3%	64%	19%	Latino
18	169,298	8%	9%	20%	62%	White
19	167,770	7%	5%	53%	34%	Latino
20	171,564	13%	6%	45%	34%	Latino
21	170,172	8%	7%	42%	41%	Latino
22	169,446	13%	7%	23%	56%	White
23	171,061	14%	4%	50%	31%	Latino
Total	3,898,747	14%	12%	37%	37%	White

Map L: 23 SMD Unbiased

Largest Racial Majority by Census Tract



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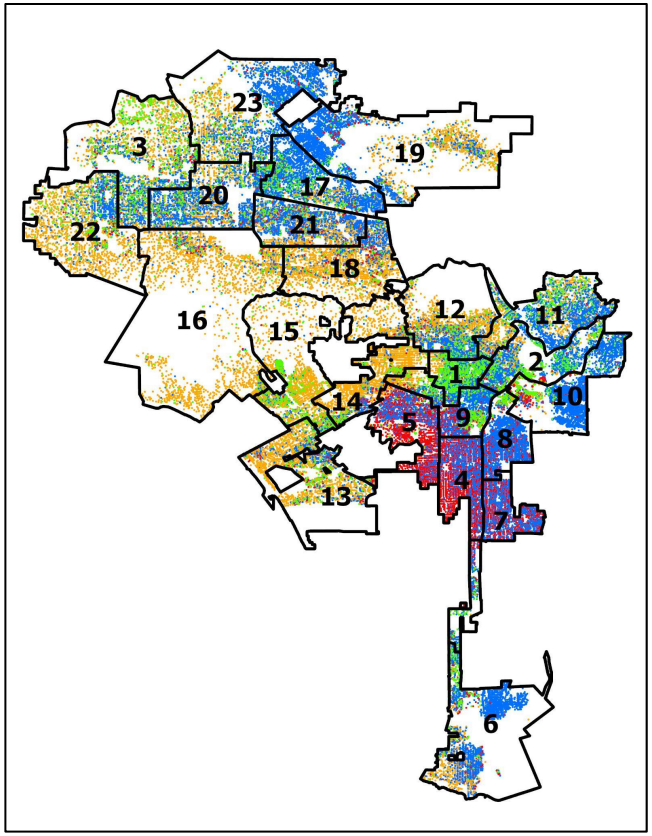
Population Density by Race (1 Dot = 50 People)



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more equitable democracy

ANALYSIS of 11 MMD (Multi-member districts)

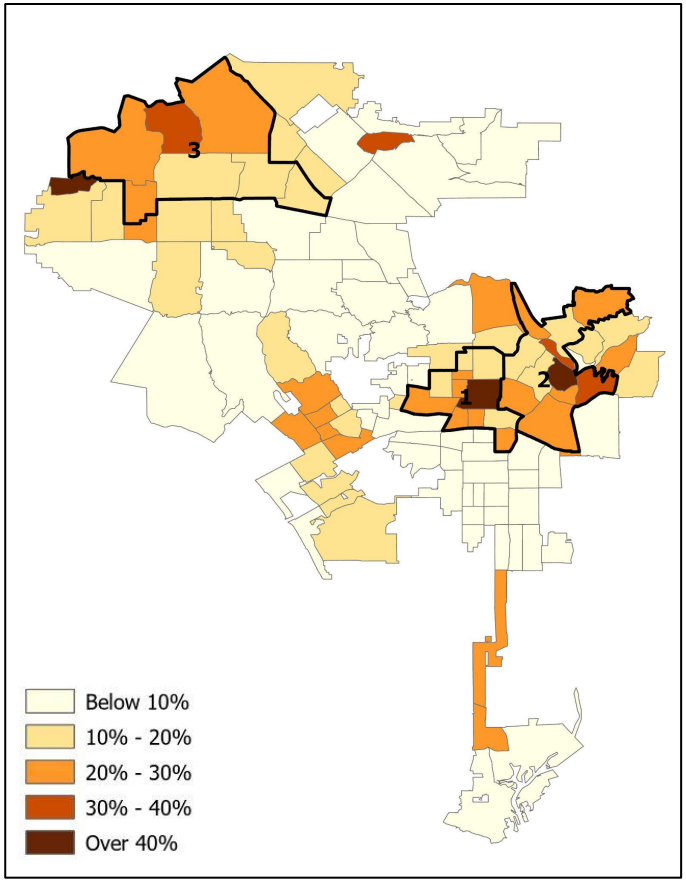
The following slide shows a map where we **manually drew three districts** to maximize **AAPI Citizen Voting Age Population (CVAP)**, while limiting neighborhood splits to **no more than one**.

Under a **Multi-Member District (MMD)** system, districts are larger but **each district elects three representatives**. Using the **Droop quota (1 / [n + 1])**, a candidate needs only **25% of the vote** to be elected in a three-member district. We also define districts with **15%–25% CVAP** as **“influence” districts**.

Although these districts still include substantial Latino and/or White CVAP, **MMDs reduce winner-take-all dynamics**. Rather than a zero-sum contest, Multi-Member Districts create **meaningful opportunities for AAPI voters to elect candidates of choice**, even in diverse districts.

11 MMD: Maximum AAPI Representation

% AAPI CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
1	25%	10%	34%	29%	Koreatown, Mid-Wilshire, East Hollywood, University Park, Pico-Union, Harvard Heights, Arlington Heights, Larchmont, Hancock Park, Windsor Square, Hollywood*
2	24%	11%	35%	29%	Westlake, Eagle Rock, Lincoln Heights, Chinatown, Echo Park, Silver Lake, Glassell Park, Atwater Village, Elysian Valley, Elysian Park, Downtown*
3	20%	6%	35%	37%	Northridge, Granada Hills, Chatsworth, Panorama City, North Hills, Porter Ranch, Winnetka*

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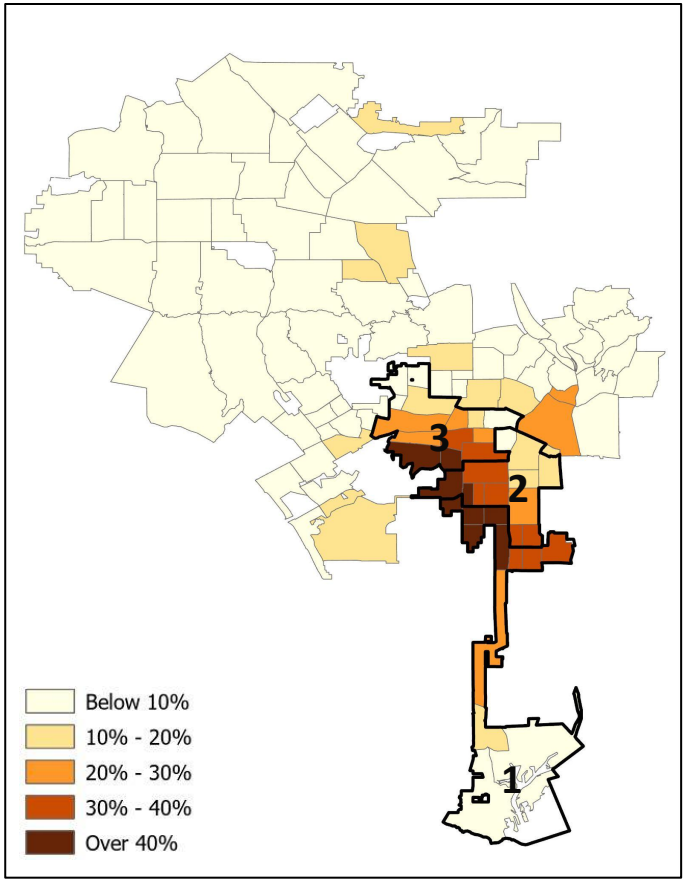
The following slide shows a map where we **manually drew three districts** to maximize **Black Citizen Voting Age Population (CVAP)**, while limiting neighborhood splits to **no more than three**. In addition, no district enters the Koreatown, Chinatown, Westgate, or Downtown neighborhoods.

Under a **Multi-Member District (MMD)** system, districts are larger but **each district elects three representatives**. Using the **Droop quota (1 / [n + 1])**, a candidate needs only **25% of the vote** to be elected in a three-member district. We also define districts with **15%–25% CVAP** as **“influence” districts**.

Although these districts still include substantial Latino and/or White CVAP, **MMDs reduce winner-take-all dynamics**. Rather than a zero-sum contest, Multi-Member Districts create **meaningful opportunities for Black voters to elect candidates of choice**, even in diverse districts.

11 MMD: Maximum Black Representation

% Black CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
1	8%	26%	50%	16%	Gramercy Park, Harbor City, Harbor Gateway, Hyde Park*, Manchester Square, San Pedro, Vermont Knolls, Vermont Vista, Watts, Wilmington, Broadway-Manchester*, Green Meadows*
2	3%	29%	61%	6%	Chesterfield Square, Florence, Harvard Park, Historic South-Central, South Park, University Park, Vermont-Slauson, Vermont Square, Broadway-Manchester*, Green Meadows*, Central-Alameda*
3	11%	27%	34%	27%	Adams-Normandie, Arlington Heights, Baldwin Hills/Crenshaw, Beverly Grove, Carthay, Exposition Park, Fairfax, Harvard Heights, Jefferson Park, Leimert Park, Mid-City, Mid-Wilshire, Pico-Union, West Adams

more equitable democracy

The following slide summarizes results from **10,000 randomly simulated maps** generated using **GerryChain**, showing the **average distribution of representation by race**.

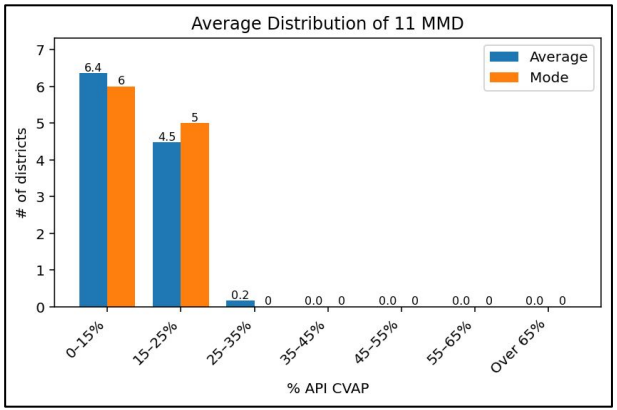
Applying our definitions—**25%+ CVAP as a "solid" seat** and **15%–25% CVAP as an "influence" seat**—the chart estimates **racial influence under a Multi-Member District (MMD) framework**.

Because these maps use **MMDs**, the **threshold to elect an AAPI or Black candidate is substantially lower**, providing these communities with **meaningfully greater opportunities to elect candidates of their choice**.

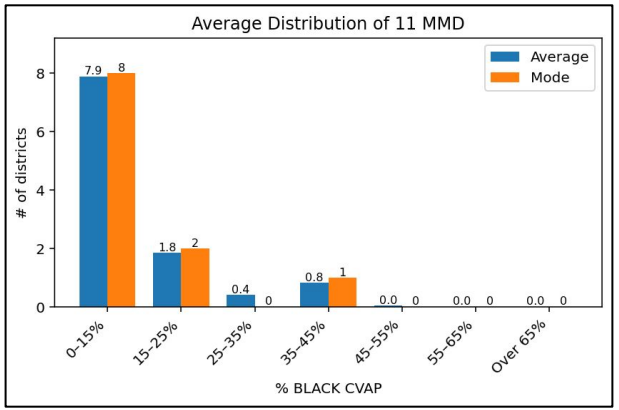
CVAP Distribution by Race: 11 MMD

Average & Mode (10,000 Simulated Maps)

AAPI

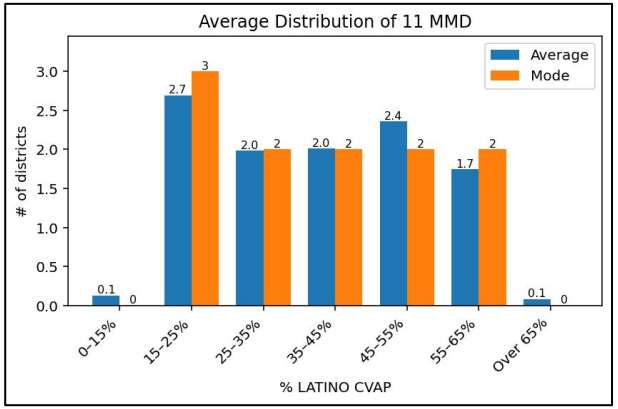


Black

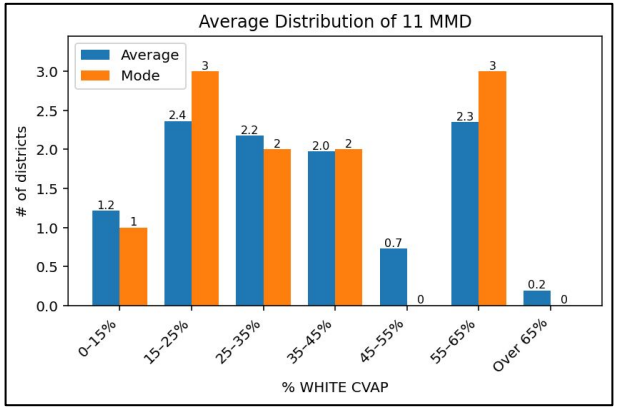


	Influence Districts *(15 - 25%)*	Solid Districts *(25% +)*	Total *(15%+)*
AAPI	5/33	0/33	5/33
Black	3/33	1/33	4/33
Latino	5/33	12/33	17/33
White	5/33	10/33	15/33

Latino

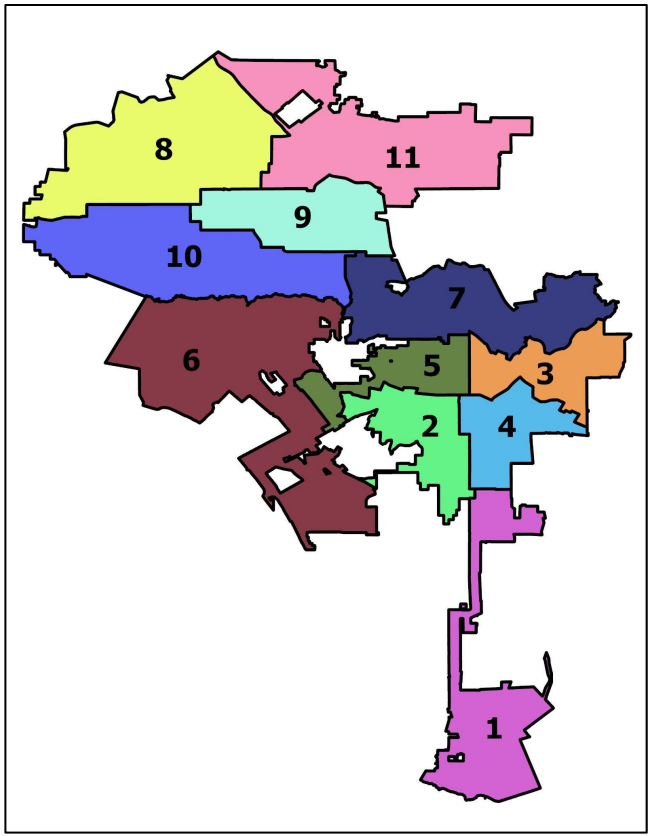


White



Map E: 11 MMD Unbiased

Context



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1	354,008	8%	20%	55%	16%	Latino	L, L, B
2	355,292	5%	46%	36%	12%	Black	B, L, B
3	354,029	32%	12%	35%	20%	Latino	L, A, W
4	355,339	8%	16%	63%	12%	Latino	L, L, B
5	353,987	17%	4%	48%	30%	Latino	L, W, L
6	354,789	16%	6%	16%	61%	White	W, W, A
7	354,365	8%	4%	58%	29%	Latino	L, L, W
8	354,314	19%	6%	33%	40%	White	W, L, A
9	355,212	14%	6%	49%	30%	Latino	L, W, L
10	353,945	11%	5%	14%	68%	White	W, W, W
11	353,467	10%	8%	19%	62%	White	W, W, L
Total	3,898,747	14%	12%	37%	37%	White	

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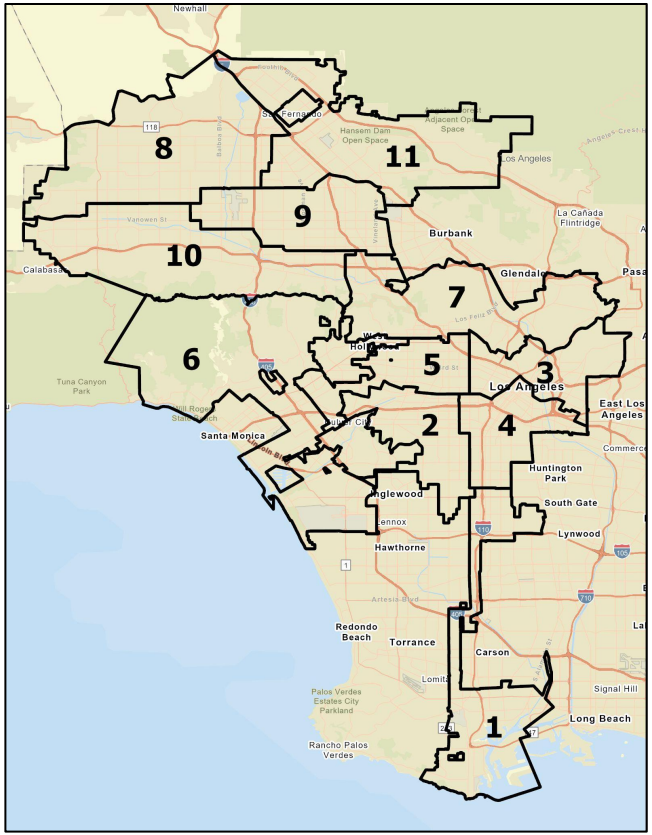

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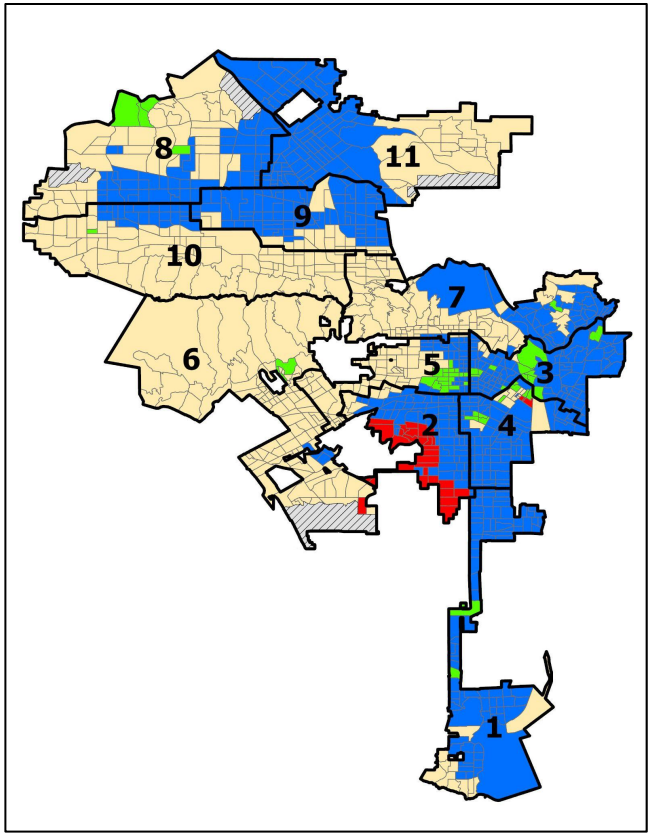
Largest Racial Majority by Census Tract



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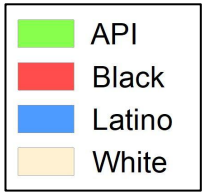

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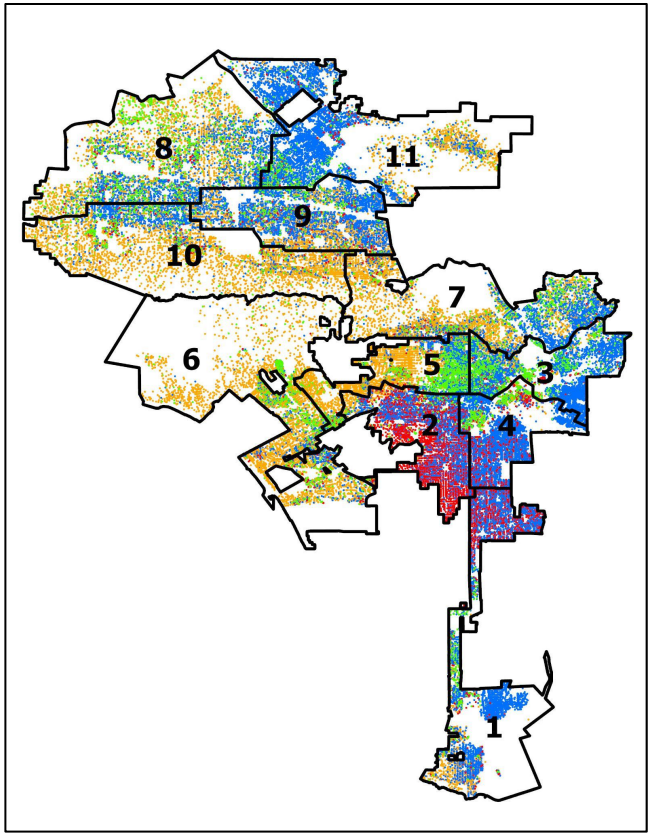

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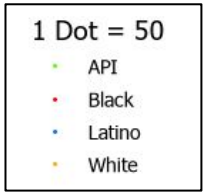

Map E: 11 MMD Packed

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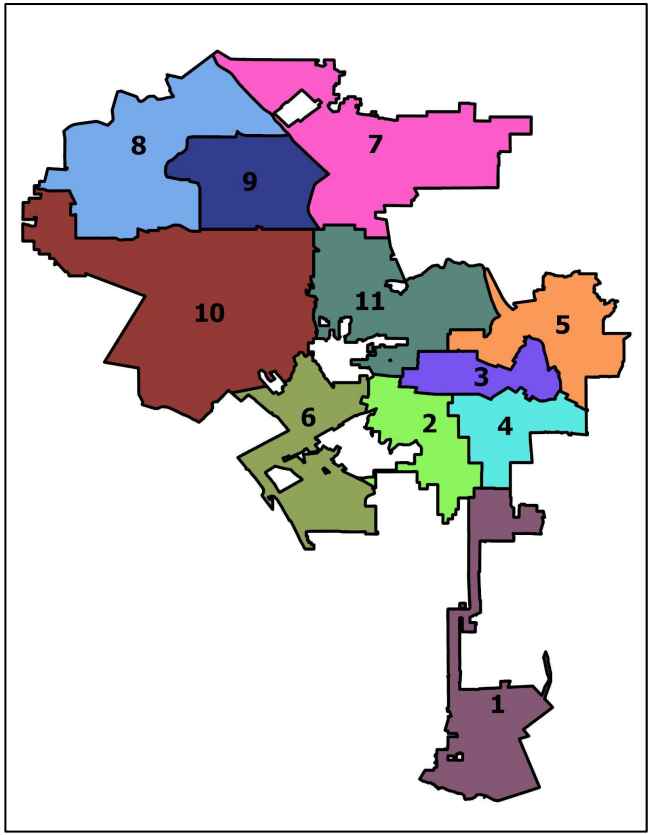

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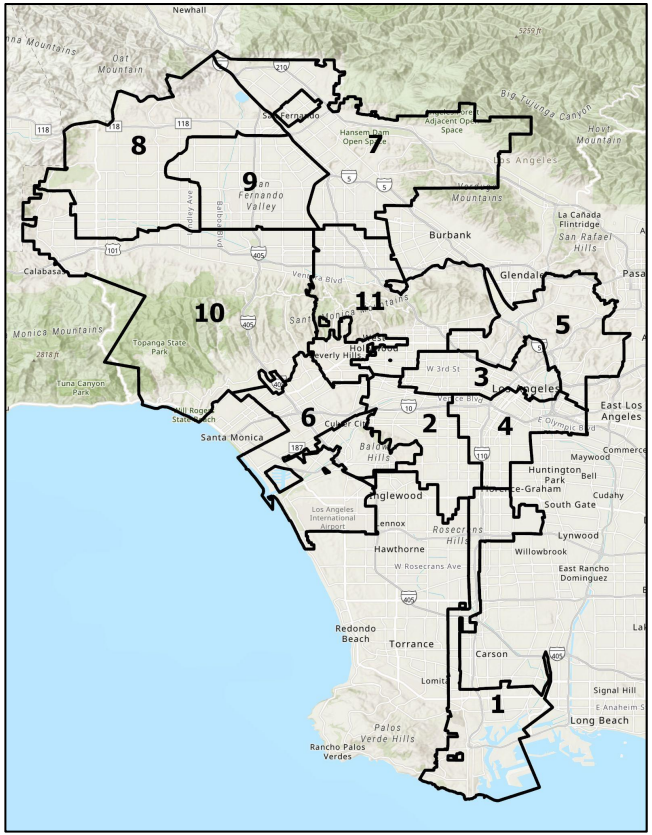

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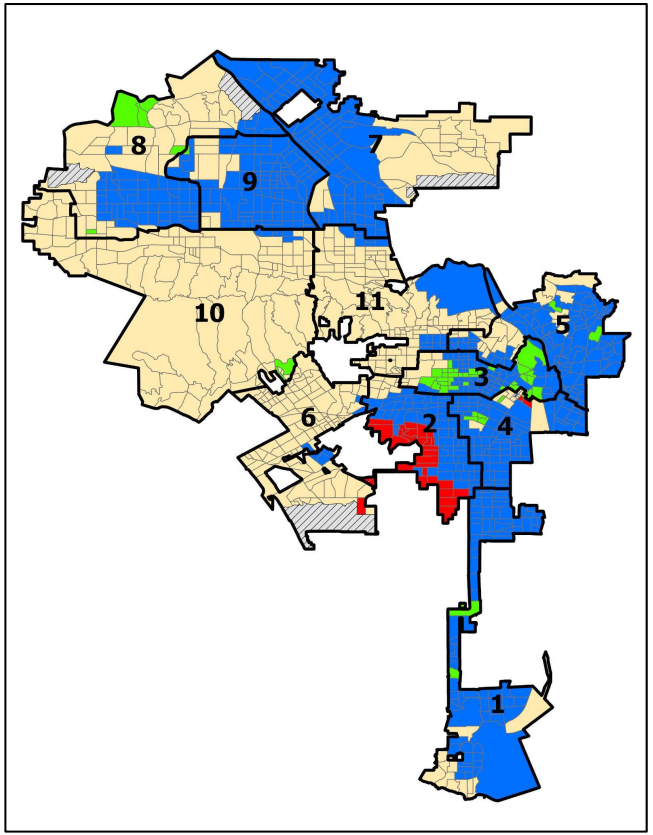
Largest Racial Majority by Census Tract



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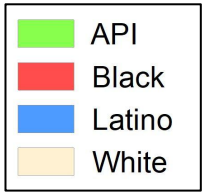
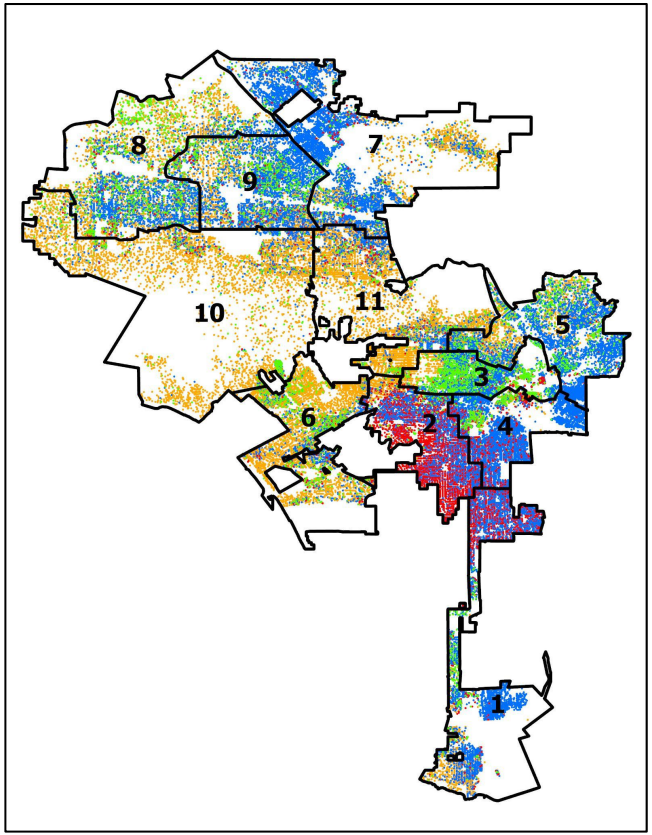
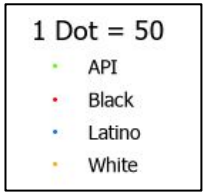


Map E: 11 MMD Packed

Population Density by Race (1 Dot = 50 People)

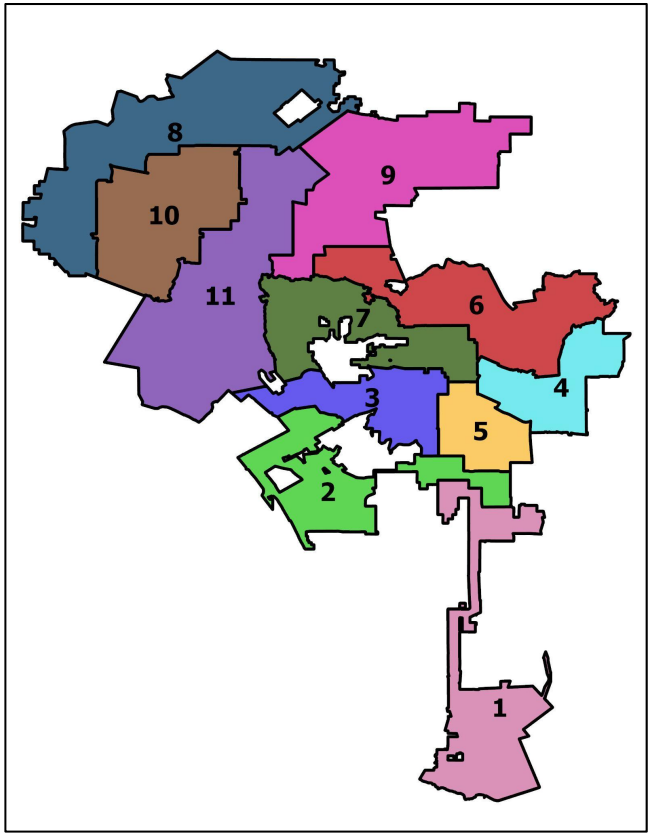


Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP	3-Seat CVAP
1	354,008	8%	20%	55%	16%	Latino	L, L, B
2	355,292	5%	46%	36%	12%	Black	B, L, B
3	354,029	32%	12%	35%	20%	Latino	L, A, W
4	355,339	8%	16%	63%	12%	Latino	L, L, B
5	353,987	17%	4%	48%	30%	Latino	L, W, L
6	354,789	16%	6%	16%	61%	White	W, W, A
7	354,365	8%	4%	58%	29%	Latino	L, L, W
8	354,314	19%	6%	33%	40%	White	W, L, A
9	355,212	14%	6%	49%	30%	Latino	L, W, L
10	353,945	11%	5%	14%	68%	White	W, W, W
11	353,467	10%	8%	19%	62%	White	W, W, L
Total	3,898,747	14%	12%	37%	37%	White	



Map F: 11 MMD Cracked

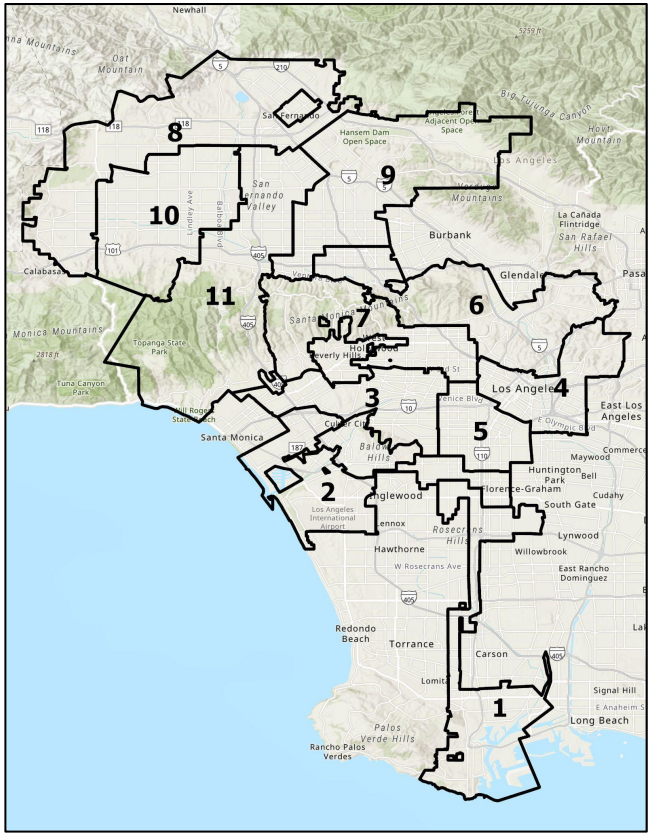
Context



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP	3-Seat CVAP
1	354,589	8%	24%	51%	16%	Latino	L, L, B
2	355,166	11%	19%	28%	40%	White	W, L, B
3	354,786	15%	22%	21%	41%	White	W, B, L
4	354,690	19%	12%	53%	16%	Latino	L, L, A
5	354,195	9%	19%	62%	9%	Latino	L, L, B
6	354,090	15%	5%	29%	49%	White	W, L, W
7	354,474	19%	8%	23%	49%	White	W, W, L
8	354,384	15%	5%	38%	41%	White	W, L, W
9	354,436	8%	5%	42%	44%	White	W, L, W
10	353,520	15%	7%	34%	43%	White	W, L, W
11	354,417	12%	5%	39%	43%	White	W, L, W
Total	3,898,747	14%	12%	37%	37%	White	

Map F: 11 MMD Cracked

Context



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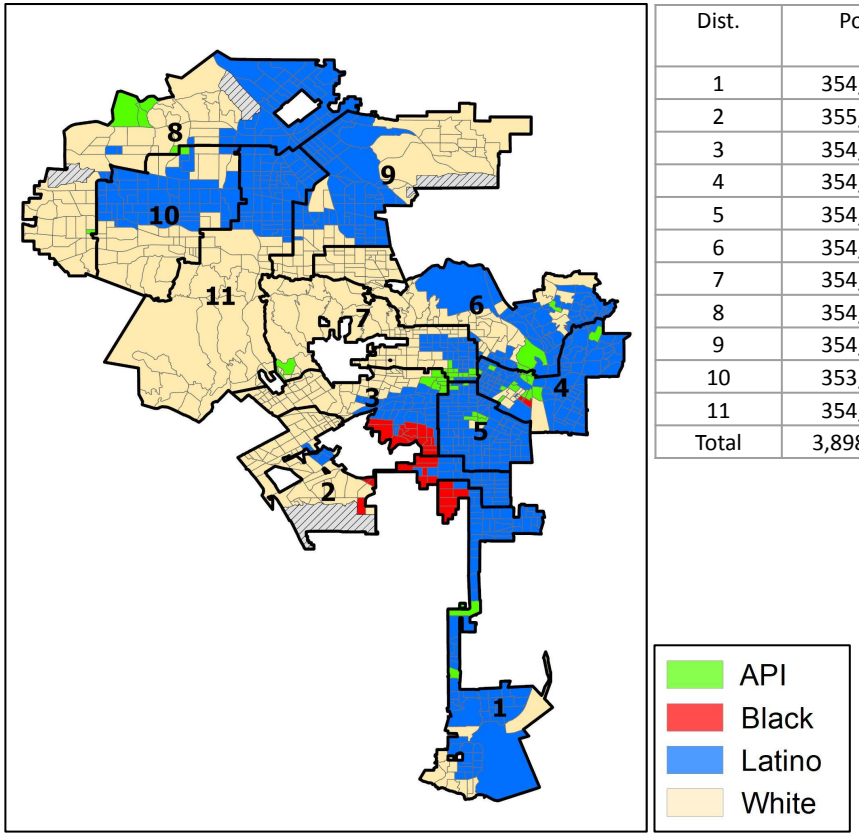
Map F: 11 MMD Cracked

Largest Racial Majority by Census Tract



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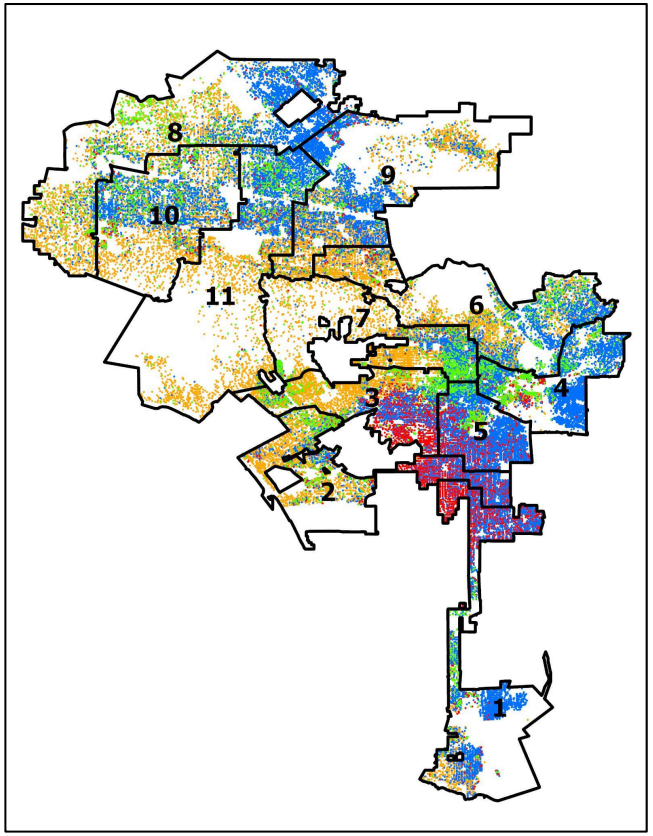
Map F: 11 MMD Cracked

Population Density by Race (1 Dot = 50 People)



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Total	3,898,747	14%	12%	37%	37%	White	

1 Dot = 50
- API
- Black
- Latino
- White

more equitable democracy

ANALYSIS of 9 MMD (Multi-member districts)

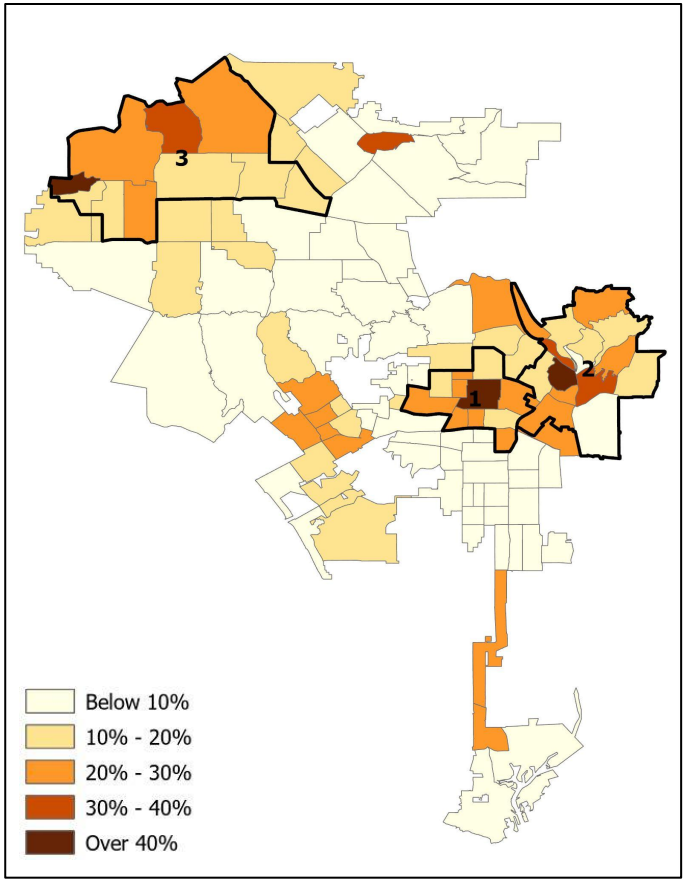
The following slide shows a map where we **manually drew three districts** to maximize **AAPI Citizen Voting Age Population (CVAP)**, while limiting neighborhood splits to **no more than one**.

Under a **Multi-Member District (MMD)** system, districts are larger but **each district elects three representatives**. Using the **Droop quota (1 / [n + 1])**, a candidate needs only **25% of the vote** to be elected in a three-member district. We also define districts with **15%–25% CVAP** as **“influence” districts**.

Although these districts still include substantial Latino and/or White CVAP, **MMDs reduce winner-take-all dynamics**. Rather than a zero-sum contest, Multi-Member Districts create **meaningful opportunities for AAPI voters to elect candidates of choice**, even in diverse districts.

9 MMD: Maximum AAPI Representation

% AAPI CVAP by Neighborhood



	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
1	26%	11%	36%	26%	Koreatown, Mid-Wilshire, East Hollywood, University park, Pico-Union, Harvard Heights, Arlington Heights, Larchmont, Hancock Park, Windsor Square, Westlake*
2	19%	7%	50%	23%	Eagle Rock, Lincoln Heights, Highland Park, Chinatown, Echo Park, El Sereno, Montecito Heights, Glassell Park, Atwater Village, Boyle Heights, Elysian Valley, Mount Washington, Elysian park, Cypress Park, Downtown*, Westlake*
3	20%	6%	36%	37%	Northridge, Granada Hills, Chatsworth, Winnetka, Panorama City, North Hills, Porter Ranch, Canoga Park, Chatsworth Reservoir, West Hills*

more equitable democracy

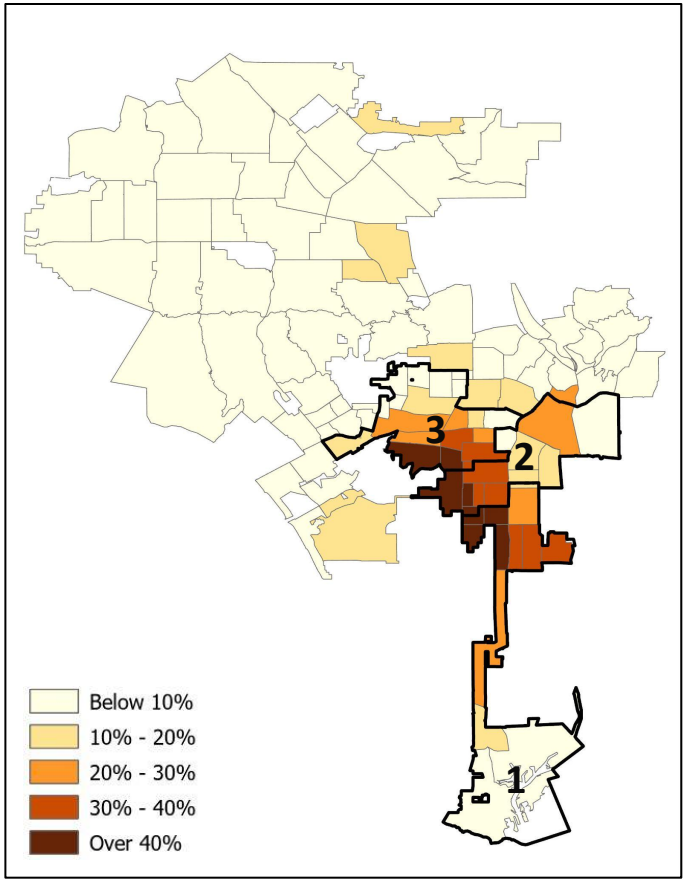
The following slide shows a map where we **manually drew three districts** to maximize **Black Citizen Voting Age Population (CVAP)**, while limiting neighborhood splits to **no more than three**. In addition, no district enters Koreatown, Chinatown, or Westgate neighborhoods.

Under a **Multi-Member District (MMD)** system, districts are larger but **each district elects three representatives**. Using the **Droop quota (1 / [n + 1])**, a candidate needs only **25% of the vote** to be elected in a three-member district. We also define districts with **15%–25% CVAP** as **“influence” districts**.

Although these districts still include substantial Latino and/or White CVAP, **MMDs reduce winner-take-all dynamics**. Rather than a zero-sum contest, Multi-Member Districts create **meaningful opportunities for Black voters to elect candidates of choice**, even in diverse districts.

9 MMD: Maximum Black Representation

% Black CVAP by Neighborhood



Dist.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Neighborhoods ** Neighborhood is Split*
1	7%	25%	54%	14%	Broadway-Manchester, Florence, Gramercy Park, Green Meadows, Harbor City, Harbor Gateway, San Pedro, Vermont Knolls, Vermont Vista, Watts, Wilmington, Manchester Square*, South Park*
2	8%	24%	56%	11%	Boyle Heights, Central-Alameda, Chesterfield Square, Downtown, Harvard Park, Historic South-Central, Hyde Park, University Park, Vermont-Slauson, Vermont Square*, Manchester Square*, South Park*
3	13%	24%	30%	32%	Adams-Normandie, Arlington Heights, Baldwin Hills/Crenshaw, Beverly Grove, Carthay, Exposition Park, Fairfax, Hancock Park, Harvard Heights, Jefferson Park, Leimert Park, Mid-City, Mid-Wilshire, Palms, Pico-Union, West Adams, Windsor Square, Vermont Square*, Pico-Robertson*, Larchmont*

The following slide summarizes results from **10,000 randomly simulated maps** generated using **GerryChain**, showing the **average distribution of representation by race**.

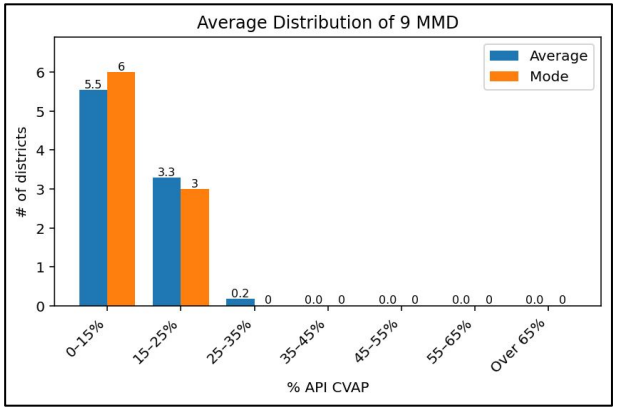
Applying our definitions—**25%+ CVAP as a "solid" seat** and **15%–25% CVAP as an "influence" seat**—the chart estimates **racial influence under a Multi-Member District (MMD) framework**.

Because these maps use **MMDs**, the **threshold to elect an AAPI or Black candidate is substantially lower**, providing these communities with **meaningfully greater opportunities to elect candidates of their choice**.

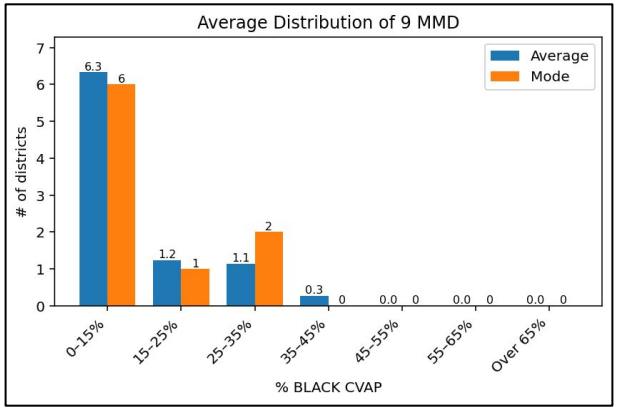
CVAP Distribution by Race: 9 MMD

Average & Mode (10,000 Simulated Maps)

AAPI

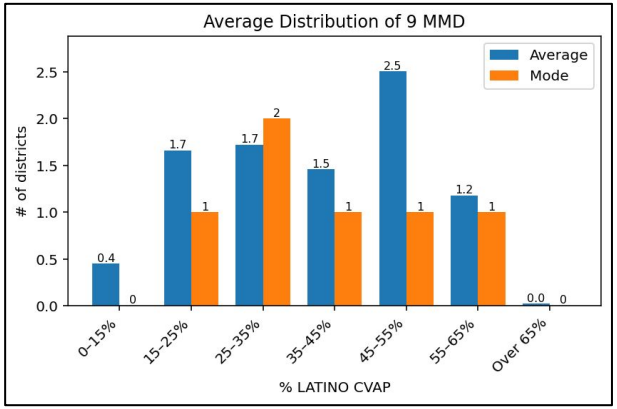


Black

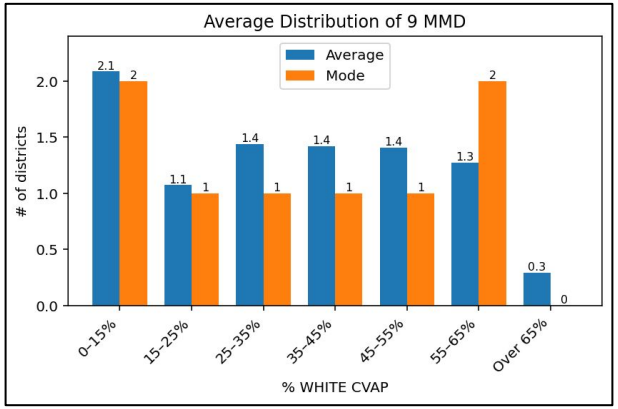


	Influence Districts *(15 - 25%)*	Solid Districts *(25% +)*	Total *(15%+)*
AAPI	3/27	0/27	3/27
Black	1/27	2/27	3/27
Latino	2/27	7/27	9/27
White	2/27	8/27	10/27

Latino

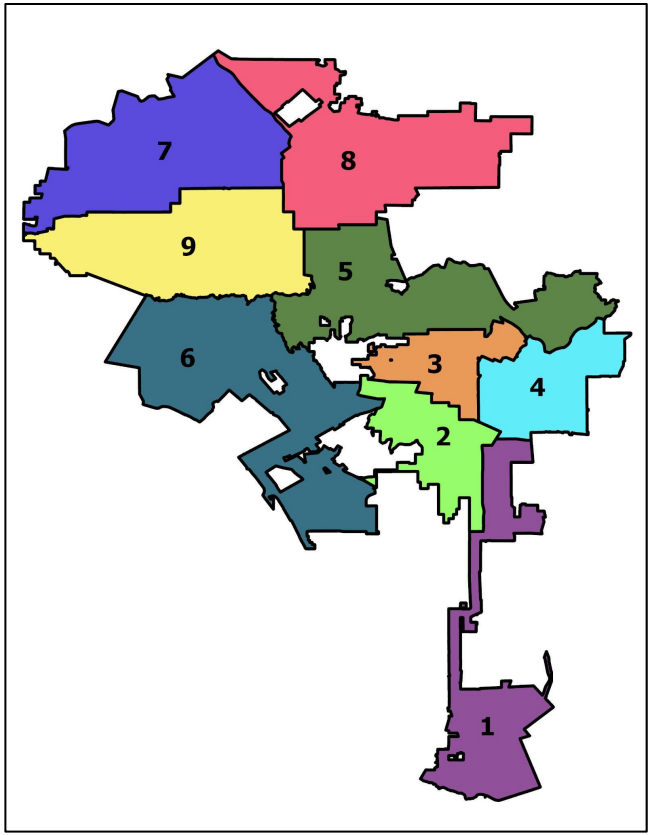


White



Map G: 9 MMD Unbiased

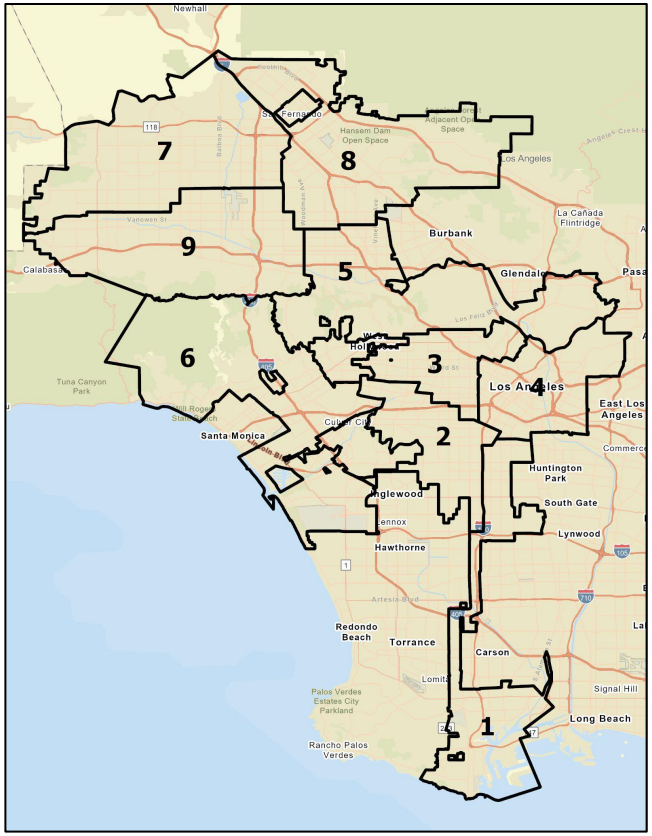
Context



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP	3-Seat CVAP
1	432,902	7%	18%	60%	14%	Latino	L, L, B
2	433,667	5%	43%	39%	13%	Black	B, L, B
3	433,105	22%	8%	31%	38%	White	W, L, A
4	433,546	18%	11%	54%	16%	Latino	L, L, A
5	432,825	12%	6%	27%	54%	White	W, W, L
6	434,050	16%	6%	15%	61%	White	W, W, A
7	432,503	19%	6%	35%	39%	White	W, L, A
8	433,656	9%	4%	58%	27%	Latino	L, L, W
9	432,493	10%	7%	28%	54%	White	W, W, L
Total	3,898,747	14%	12%	37%	37%	White	

Map G: 9 MMD Unbiased

Context



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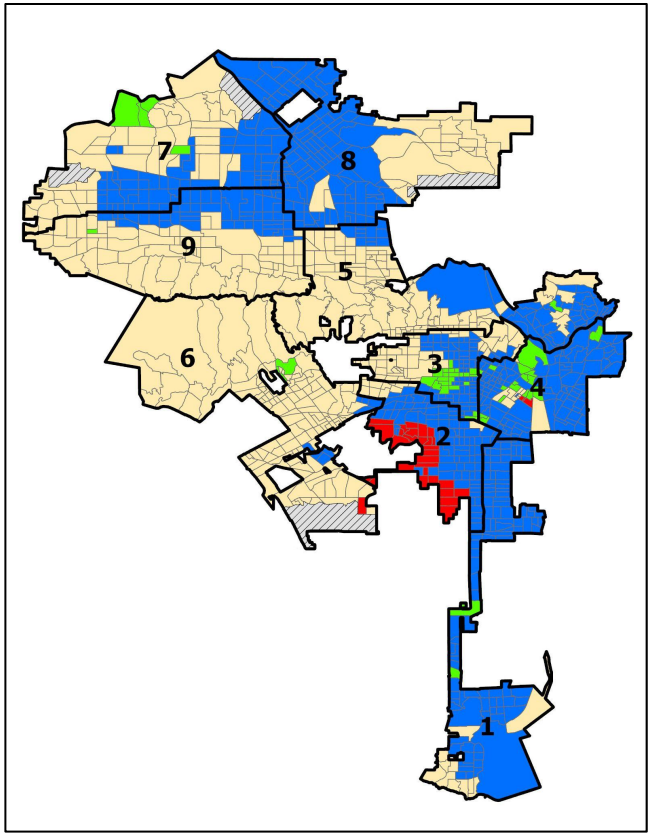
Largest Racial Majority by Census Tract



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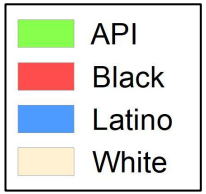

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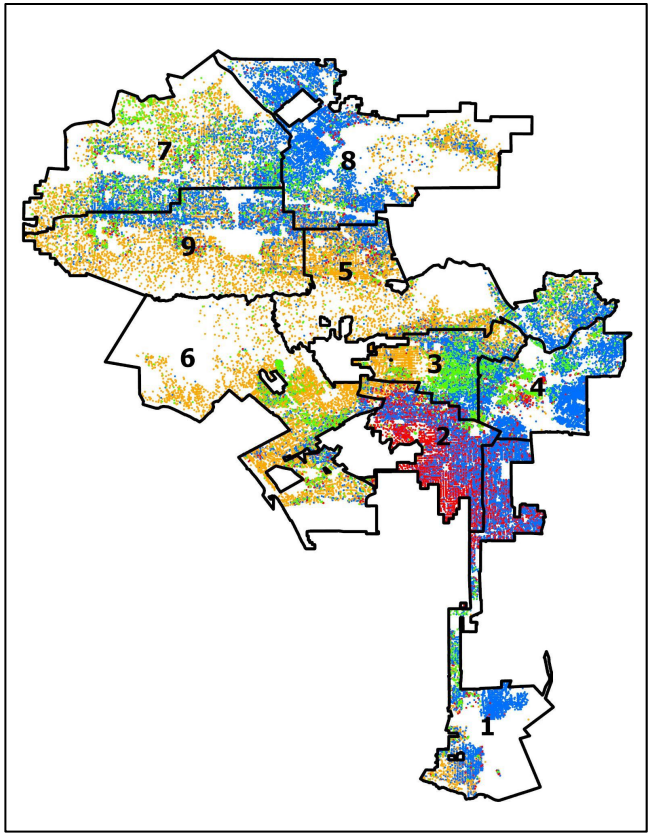

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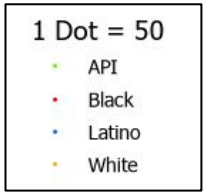
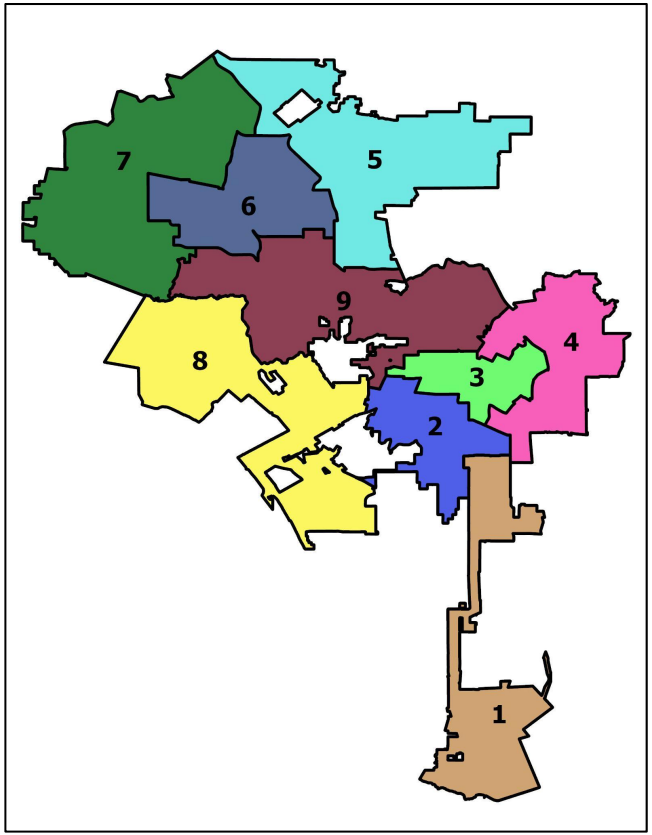


Map G: 9 MMD Packed

Context



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2	430,244	6%	41%	40%	12%	Black	B, L, B
3	432,762	29%	11%	34%	24%	Latino	L, A, W
4	433,968	14%	6%	56%	23%	Latino	L, L, W
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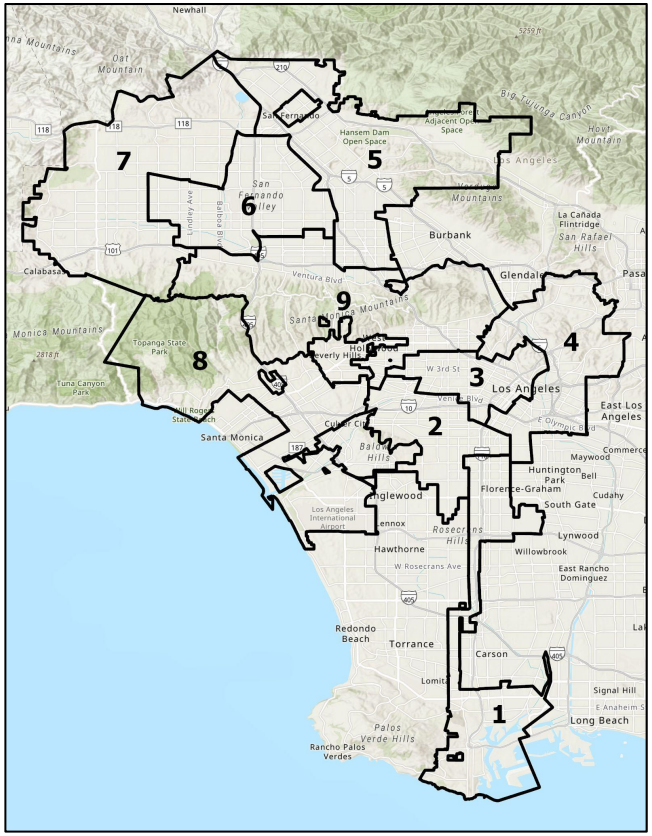

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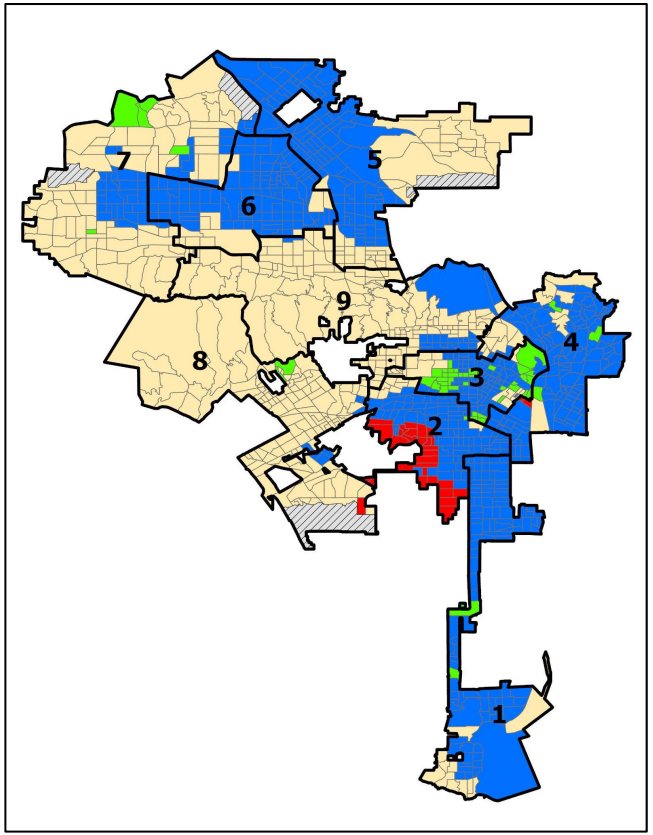
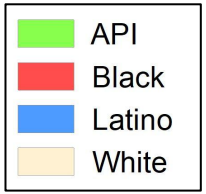
Map G: 9 MMD Packed

Largest Racial Majority by Census Tract

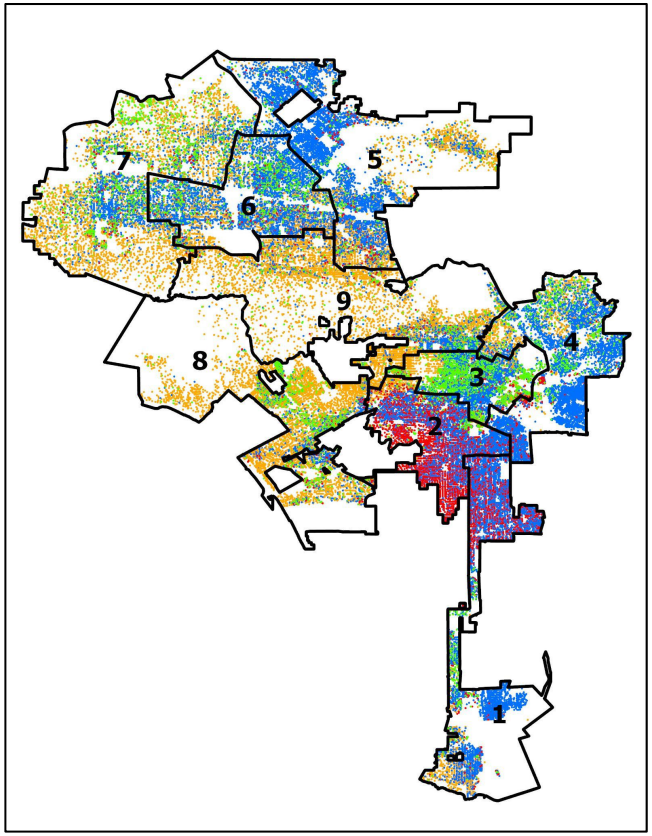


Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP	3-Seat CVAP
1	433,734	7%	21%	57%	14%	Latino	L, L, B
2	430,244	6%	41%	40%	12%	Black	B, L, B
3	432,762	29%	11%	34%	24%	Latino	L, A, W
4	433,968	14%	6%	56%	23%	Latino	L, L, W
5	432,920	8%	6%	53%	33%	Latino	L, W, L
6	433,393	13%	6%	49%	31%	Latino	L, W, L
7	434,033	17%	7%	25%	51%	White	W, W, L
8	434,187	16%	6%	15%	62%	White	W, W, A
9	433,506	10%	7%	17%	65%	White	W, W, L
Total	3,898,747	14%	12%	37%	37%	White	



Map G: 9 MMD Packed

Population Density by Race (1 Dot = 50 People)



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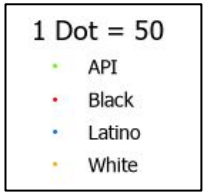
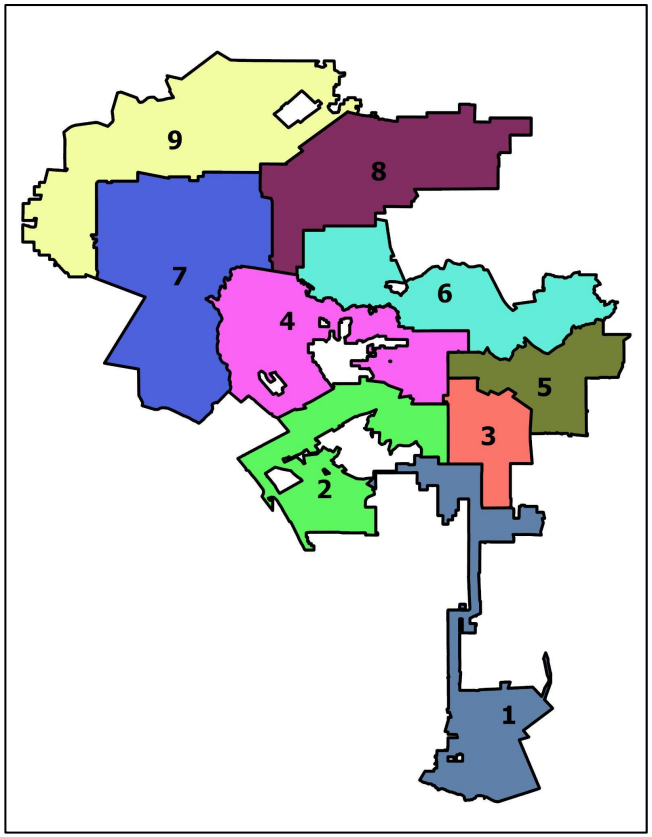


Map H: 9 MMD Cracked

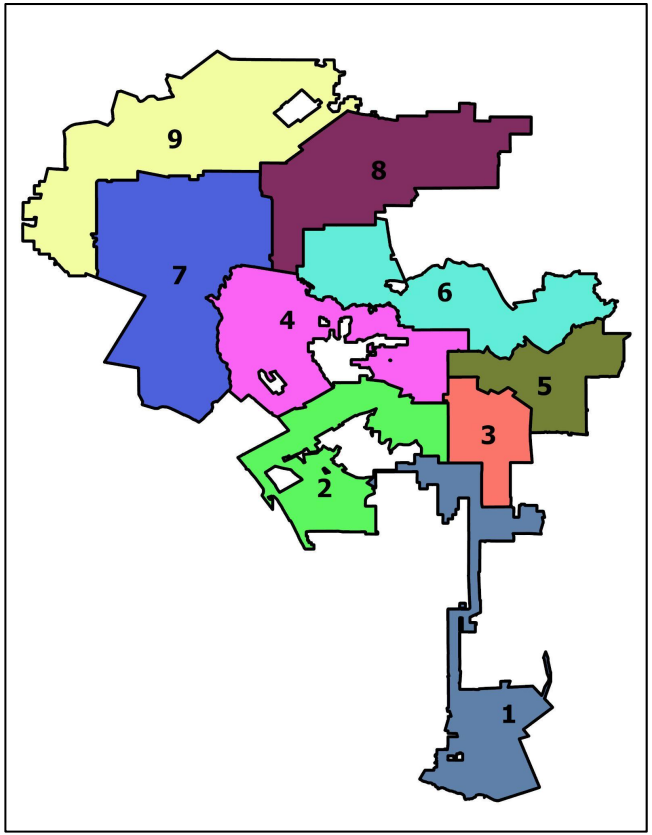
Context



Dist.	Pop.	AAPI CVAP	Black CVAP	Latino CVAP	White CVAP	Largest Race CVAP	3-Seat CVAP
1	433,587	7%	29%	49%	14%	Latino	L, B, L
2	433,236	12%	21%	24%	43%	White	W, L, B
3	433,187	11%	18%	60%	10%	Latino	L, L, B
4	433,074	17%	7%	17%	58%	White	W, W, A
5	432,747	21%	10%	51%	17%	Latino	L, L, A
6	433,523	13%	6%	28%	52%	White	W, L, W
7	433,195	13%	7%	32%	47%	White	W, L, W
8	433,387	10%	5%	50%	34%	Latino	L, W, L
9	432,811	16%	6%	38%	40%	White	W, L, A
Total	3,898,747	14%	12%	37%	37%	White	

Map H: 9 MMD Cracked

Context



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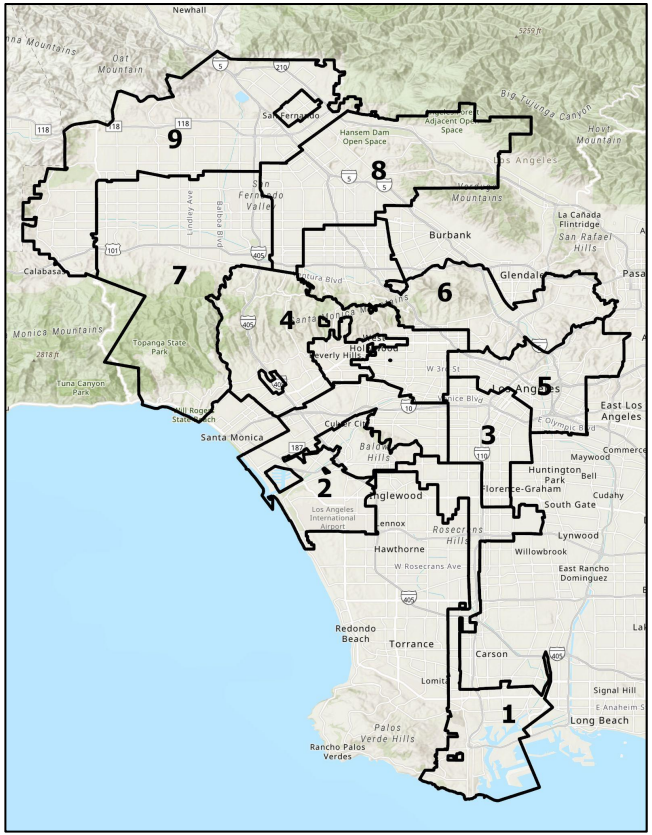

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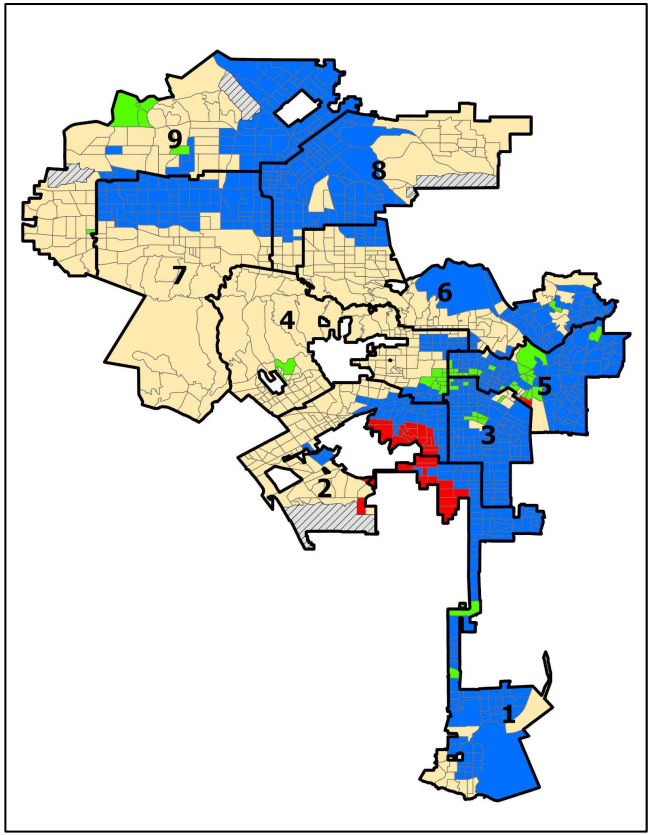

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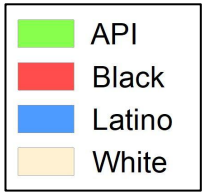

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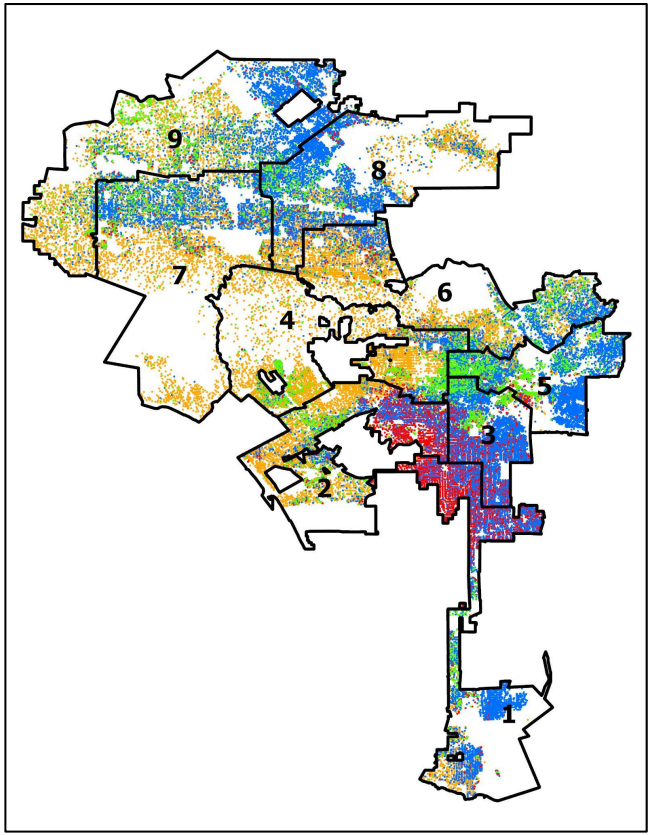

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1 Dot = 50
- API
- Black
- Latino
- White