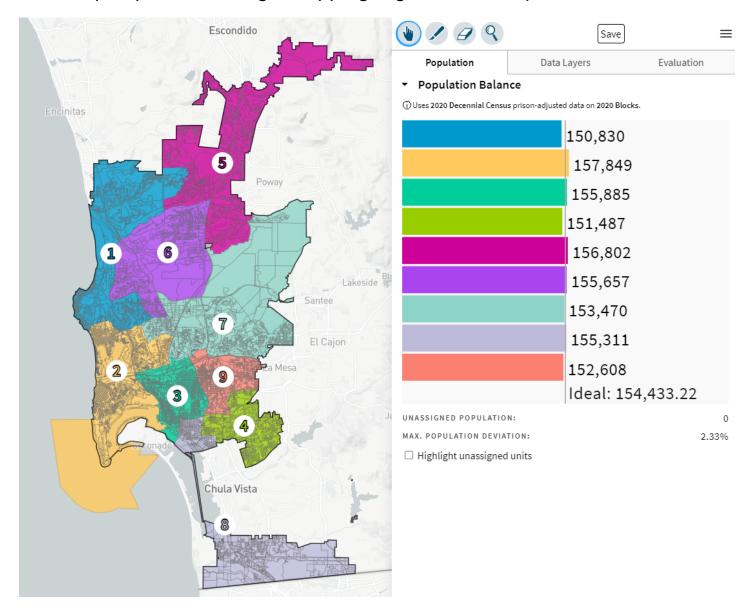# San Diego Preliminary Interim Map

Link to map:
https://portal.sandiego-mapping.org/submission/p5870

Methodology

This was the map created live during the 10/21/2021 meeting at the direction of the commissioners. There are some very minor errors/splits in the map that were not cleaned up.

Population and Deviation

District	Total Population	Raw Deviation	% Deviation
1	150,830	-3,603	-2.33%
2	157,849	3,416	2.21%
3	155,885	1,452	0.94%
4	151,487	-2,946	-1.91%
5	156,802	2,369	1.53%
6	155,657	1,224	0.79%
7	153,470	-963	-0.62%
8	155,311	878	0.57%
9	152,608	-1,825	-1.18%
Ideal	154433.2222	Total Deviation:	**4.55%**

Population

District	Total Population	%Latino	%Asian	%Black	CVAP %Latino	CVAP %Asian	CVAP %Black
1	150,830	12.42%	21.35%	1.23%	10.26%	14.95%	1.33%
2	157,849	19.50%	8.01%	3.20%	14.92%	6.78%	3.54%
3	155,885	23.63%	7.07%	5.60%	19.70%	5.70%	6.43%
4	151,487	49.08%	21.52%	15.05%	37.99%	22.17%	21.35%
5	156,802	11.02%	28.46%	2.07%	9.47%	21.62%	2.34%
6	155,657	15.65%	38.27%	3.08%	13.63%	31.79%	4.02%
7	153,470	19.52%	12.21%	5.74%	16.02%	11.44%	5.64%
8	155,311	75.88%	7.31%	4.60%	67.32%	9.61%	6.32%
9	152,608	40.65%	13.63%	10.69%	28.93%	13.57%	12.13%
Totals	**1389899**						

Compactness
Understanding Compactness

District	Perimeter	Area_Sq_Mi	Polsby Popper	Schwartzberg	Convex_Hull	Reock
1	51.7	45	0.2131	0.4616	0.5755	0.3007
2	59.5	68	0.2415	0.4914	0.71	0.4264
3	24.9	17	0.3501	0.5917	0.7998	0.5242
4	27.5	17	0.2896	0.5382	0.7513	0.6123

5	95	60	0.0828	0.2878	0.425	0.2173
6	36.3	41	0.3941	0.6278	0.8294	0.4846
7	64.6	72	0.2158	0.4646	0.6945	0.3617
8	61.1	37	0.1256	0.3545	0.304	0.1642
9	20.7	15	0.4265	0.6531	0.7541	0.4749
Avg	**49.0**	**41.3**	**0.2599**	**0.4967**	**0.6493**	**0.3963**

Splits Summary

Community Planning Areas		Neighborhoods	
Split across number of districts	**Number of CPAs**	**Split across number of districts**	**Number of neighborhoods**
1	45	1	98
2	8	2	23
3	5	3	4
4	1	7	1

How to Read Map Reports

Full reports from the Haystaq-created draft maps, as well as community-submitted district plans (through 10/12) can be found on the city website as Excel files. These reports were created by proprietary python code written by HaystaqDNA. Here is a basic primer on the components/tabs of these reports:

Maps:
These are just images from the city's Districtr hosted website of each map.

Populations:
When we create a plan or export a plan from Districtr, we export it as a 'block equivalency file'. Basically the U.S. Census divided all of the geography of the City of San Diego up into 'blocks'. At its most basic, a block can correspond to a city block, but the census will also use permanent geographic features (a waterway, a canyon, a ridge, a highway) to define a block. The census then published population and demographic data associated with each block (a P.L 94-171 file). Then the Statewide Database on behalf of the state of California takes that PL file and does prisoner reallocation and reassigns in-state prisoners back to their original blocks. To create the 'Populations' report we match up the blocks of each district with the blocks in this file and summarize all of the population within this district.

Defining some of the abbreviations: NL = non-Latino, AIAN=American Indian and Alaskan Native, VAP = Voting Age Population (age 18+), CVAP19 = 2019 Citizen Voting Age Population (an estimate of eligible voters).

Deviations are calculated against an ideal population of each district. To find the ideal population we simply divide the population of San Diego (1,389,899) by the number of districts(9) to find 154,433. The raw deviation is how far off this number a district population is. The final deviation number is found by adding the absolute value of the lowest negative deviation to the highest absolute value of the highest positive deviation. Example: District 9 has the lowest negative deviation of -3.06%. District 5 has the highest positive deviation of 2.80%. So the final deviation is 3.06%+ 2.80% = 5.86%

Components:

The Component report is a list of all of the Community Planning Areas and Neighborhoods and their populations that make up a district.

OldDistrict:

This report lists what existing city council districts and their populations make up the new proposed districts.

Compactness:

For more information on the math behind compactness measures, here is a good resource: https://fisherzachary.github.io/public/r-output.html. For these tests, the closer the score is to 1, the more compact the district, and the closer to 0, the less compact the district is.

Splits
There are two versions of the splits report. One that looks at how many districts each Community Planning Association is in and one that looks at how many districts each Neighborhood is in.

Community Splits:
'Military Facilities', 'Reserve' and 'Not Identified' show up as splits, mostly because there are multiple areas with those names. They will show up as splits on almost every map.

Keep in mind physical geography when looking at neighborhood and CPA splits. For example, Los Penasquitos Canyon will show a 0 population split on some maps. This is because there is a very long and very narrow canyon that extends eastward from the community. It falls between Park Village and Mira Mesa and has 0 population. In many of the maps for reasons of compactness we will place this canyon in a different district than the area with residents.

Neighborhood Splits:

Specifically regarding neighborhood splits: when we reduced the number of splits on the map we optimized for CPAs. Many times CPAs and Neighborhoods follow similar but not identical boundaries. Often the CPA will have its line on one side of a highway and the neighborhood the other. So there are 'many' neighborhoods that will show 0 population splits. We hold that in general you should ignore the 0 population splits.

new_districts	orig_districts	Population_P2
1	1	114,273
1	2	15,604
1	6	12,275
1	5	8,678
2	2	133,586
2	7	24,263
2	3	0
3	3	146,057
3	7	8,980
3	2	762
3	8	86
3	9	0
4	4	133,571
4	9	17,916
5	5	146,570
5	6	10,232
6	6	103,274
6	1	52,383
6	5	0
7	7	123,381
7	6	26,577
7	5	3,512
7	1	0
8	8	149,227
8	9	6,084
9	9	122,204
9	3	15,391
9	4	12,137
9	7	2,876

split_across_num_districts	number of COMMUNITYs
1	45
2	8
3	5
4	1

COMMUNITY	DISTRICT	Total_Population	COMMUNITY	districts	DISTRICT	COMMUNITY_count
BALBOA PARK	3	617		2	1	15
BARRIO LOGAN	8	4,222	CLAIREMONT MESA	4	2	11
BLACK MOUNTAIN RANCH	5	15,795	LINDA VISTA	2	3	9
CARMEL MOUNTAIN RANCH	5	11,207	LOS PENASQUITOS CANYON	3	4	4
CARMEL VALLEY	1	35,889	MID-CITY:EASTERN AREA	2	5	9
CLAIREMONT MESA	1	24,444	MIDWAY-PACIFIC HIGHWAY	2	6	6
CLAIREMONT MESA	7	21,052	MILITARY FACILITIES	3	7	11
CLAIREMONT MESA	6	17,315	MISSION VALLEY	3	8	8
CLAIREMONT MESA	2	16,957	NOT IDENTIFIED	3	9	7
COLLEGE AREA	9	24,969	PACIFIC BEACH	2		
DEL MAR MESA	1	1,409	RESERVE	3		
DOWNTOWN	3	44,169	SOUTHEASTERN SAN DIEGO	2		
EAST ELLIOTT	7	98	TORREY PINES	2		
ENCANTO NEIGHBORHOODS	4	48,624	UNIVERSITY	2		
FAIRBANKS RANCH COUNTRY CLUB	1	468				
GREATER GOLDEN HILL	3	14,307				
KEARNY MESA	7	12,169				
LA JOLLA	1	29,783				
LINDA VISTA	2	35,160				
LINDA VISTA	7	487				
LOS PENASQUITOS CANYON	1	606				
LOS PENASQUITOS CANYON	5	0				
LOS PENASQUITOS CANYON	6	0				

MID-CITY:CITY HEIGHTS	9	68,983
MID-CITY:EASTERN AREA	9	25,888
MID-CITY:EASTERN AREA	4	14,742
MID-CITY:KENSINGTON-TALMADGE	9	14,484
MID-CITY:NORMAL HEIGHTS	9	15,361
MIDWAY-PACIFIC HIGHWAY	2	6,807
MIDWAY-PACIFIC HIGHWAY	3	762
MILITARY FACILITIES	6	8,008
MILITARY FACILITIES	8	7,020
MILITARY FACILITIES	7	149
MIRA MESA	6	77,935
MIRAMAR RANCH NORTH	5	11,880
MISSION BAY PARK	2	1,688
MISSION BEACH	2	3,292
MISSION VALLEY	7	13,620
MISSION VALLEY	3	9,055
MISSION VALLEY	9	2,906
NAVAJO	7	53,486
NCFUA SUBAREA II	1	766
NORTH PARK	3	46,715
NOT IDENTIFIED	2	2,264
NOT IDENTIFIED	3	0
NOT IDENTIFIED	8	0
OCEAN BEACH	2	12,922
OLD TOWN SAN DIEGO	3	1,234
OTAY MESA	8	19,494
OTAY MESA-NESTOR	8	61,284
PACIFIC BEACH	2	37,374
PACIFIC BEACH	1	3,284

PACIFIC HIGHLANDS RANCH	1	14,379
PENINSULA	2	41,276
RANCHO BERNARDO	5	42,902
RANCHO ENCANTADA	7	3,404
RANCHO PENASQUITOS	5	43,018
RESERVE	2	109
RESERVE	1	43
RESERVE	7	0
SABRE SPRINGS	5	10,786
SAN PASQUAL	5	212
SAN YSIDRO	8	28,444
SCRIPPS MIRAMAR RANCH	5	21,002
SERRA MESA	7	18,376
SKYLINE-PARADISE HILLS	4	67,611
SOUTHEASTERN SAN DIEGO	8	33,770
SOUTHEASTERN SAN DIEGO	4	20,510
TIERRASANTA	7	30,629
TIJUANA RIVER VALLEY	8	1,077
TORREY HIGHLANDS	1	8,678
TORREY HILLS	1	6,916
TORREY PINES	1	6,756
TORREY PINES	6	63
UNIVERSITY	6	52,336
UNIVERSITY	1	16,950
UPTOWN	3	39,026
VIA DE LA VALLE	1	459
	9	17
	2	0

split_across_num_districts   number of NEIGHBORHOODs

split_across_num_districts	number of NEIGHBORHOODs
1	98
2	23
3	4
7	1

NEIGHBORHOOD	DISTRICT	Total_Population	NEIGHBORHOOD	districts	DISTRICT	NEIGHBORHOOD_count
ADAMS NORTH	9	5,115		7	1	14
ALLIED GARDENS	7	12,020	AZALEA/HOLLYWOOD PARK	2	2	15
ALTA VISTA	4	2,519	BARRIO LOGAN	2	3	31
AZALEA/HOLLYWOOD PARK	9	3,682	BAY HO	2	4	16
AZALEA/HOLLYWOOD PARK	3	0	CARMEL VALLEY	2	5	11
BALBOA PARK	3	617	CASTLE	2	6	14
BARRIO LOGAN	8	11,242	CHEROKEE POINT	2	7	16
BARRIO LOGAN	3	86	CLAIREMONT MESA EAST	2	8	17
BAY HO	1	12,244	CLAIREMONT MESA WEST	2	9	29
BAY HO	6	0	GRANT HILL	2		
BAY PARK	2	16,957	GRANTVILLE	2		
BAY TERRACES	4	31,386	KEARNY MESA	2		
BIRDLAND	7	4,737	LA JOLLA	2		
BLACK MOUNTAIN RANCH	5	17,392	MIDWAY DISTRICT	2		
BORDER	8	154	MIRA MESA	2		
BROADWAY HEIGHTS	4	596	MISSION VALLEY EAST	3		
BURLINGAME	3	705	NORTH CLAIREMONT	3		
CARMEL MOUNTAIN	5	11,207	NORTH PARK	2		
CARMEL VALLEY	1	52,114	PACIFIC BEACH	2		
CARMEL VALLEY	6	0	RANCHO PENASQUITOS	3		
CASTLE	9	9,370	RIDGEVIEW/WEBSTER	2		
CASTLE	3	0	SCRIPPS RANCH	3		
CHEROKEE POINT	9	4,672	SHERMAN HEIGHTS	2		

CHEROKEE POINT	3	0	SORRENTO VALLEY	2	
CHOLLAS CREEK	9	4,233	STOCKTON	2	
CHOLLAS VIEW	4	4,523	TORREY HIGHLANDS	2	
CLAIREMONT MESA EAST	7	14,341	TORREY PINES	2	
CLAIREMONT MESA EAST	6	11,525	UNIVERSITY CITY	2	
CLAIREMONT MESA WEST	7	7,198			
CLAIREMONT MESA WEST	1	3,075			
COLINA DEL SOL	9	10,321			
COLLEGE EAST	9	9,945			
COLLEGE WEST	9	11,830			
CORE-COLUMBIA	3	9,035			
CORRIDOR	9	7,607			
CORTEZ	3	3,943			
DEL CERRO	7	7,576			
DEL MAR HEIGHTS	1	6,736			
EAST VILLAGE	3	16,088			
EGGER HIGHLANDS	8	9,564			
EL CERRITO	9	5,984			
EMERALD HILLS	4	4,395			
ENCANTO	4	9,520			
FAIRMOUNT PARK	9	2,855			
FAIRMOUNT VILLAGE	9	5,361			
FOX CANYON	9	2,165			
GASLAMP	3	863			
GOLDEN HILL	3	9,081			
GRANT HILL	8	3,939			
GRANT HILL	3	0			
GRANTVILLE	7	10,622			
GRANTVILLE	9	60			

HARBORVIEW	3	1,348
HILLCREST	3	14,961
HORTON PLAZA	3	641
ISLENAIR	9	1,074
JAMACHA LOMITA	4	10,198
KEARNY MESA	7	5,488
KEARNY MESA	6	0
KENSINGTON	9	5,963
LA JOLLA	1	35,926
LA JOLLA	6	0
LA PLAYA	2	2,367
LAKE MURRAY	7	17,388
LINCOLN PARK	4	9,484
LINDA VISTA	2	24,263
LITTLE ITALY	3	4,108
LOGAN HEIGHTS	8	13,725
LOMA PORTAL	2	5,996
MARINA	3	7,190
MIDTOWN	3	4,568
MIDWAY DISTRICT	2	7,799
MIDWAY DISTRICT	3	0
MIRA MESA	6	73,843
MIRA MESA	5	0
MIRAMAR	6	8,346
MIRAMAR RANCH NORTH	5	12,738
MISSION BAY	2	582
MISSION BEACH	2	3,460
MISSION HILLS	3	6,548
MISSION VALLEY EAST	3	6,375

MISSION VALLEY EAST	7	3,484
MISSION VALLEY EAST	9	1,738
MISSION VALLEY WEST	3	2,605
MORENA	2	10,897
MOUNTAIN VIEW	4	15,326
MT HOPE	4	5,184
NESTOR	8	16,636
NORMAL HEIGHTS	9	10,246
NORTH CITY	1	8,471
NORTH CLAIREMONT	1	9,125
NORTH CLAIREMONT	6	5,790
NORTH CLAIREMONT	7	0
NORTH PARK	3	38,693
NORTH PARK	9	0
O'FARRELL	4	6,848
OAK PARK	4	14,742
OCEAN BEACH	2	12,289
OCEAN CREST	8	16,580
OLD TOWN	3	1,127
OTAY MESA	8	2,914
OTAY MESA WEST	8	30,112
PACIFIC BEACH	2	37,622
PACIFIC BEACH	1	2,995
PALM CITY	8	5,316
PARADISE HILLS	4	17,263
PARK WEST	3	8,751
PETCO PARK	3	885
POINT LOMA HEIGHTS	2	20,238
QUALCOMM	9	1,108

RANCHO BERNARDO	5	42,925
RANCHO ENCANTADA	7	3,404
RANCHO PENASQUITOS	5	41,421
RANCHO PENASQUITOS	1	3,009
RANCHO PENASQUITOS	6	0
REDWOOD VILLAGE	9	4,868
RIDGEVIEW/WEBSTER	9	5,711
RIDGEVIEW/WEBSTER	4	0
ROLANDO	9	10,040
ROLANDO PARK	9	3,841
ROSEVILLE / FLEET RIDGE	2	5,884
SABRE SPRINGS	5	10,786
SAN CARLOS	7	13,494
SAN PASQUAL	5	189
SAN YSIDRO	8	28,290
SCRIPPS RANCH	5	20,144
SCRIPPS RANCH	7	149
SCRIPPS RANCH	6	0
SERRA MESA	7	25,640
SHELLTOWN	8	3,913
SHERMAN HEIGHTS	8	2,787
SHERMAN HEIGHTS	3	0
SKYLINE	4	8,764
SORRENTO VALLEY	6	3,859
SORRENTO VALLEY	1	11
SOUTH PARK	3	5,391
SOUTHCREST	8	6,084
STOCKTON	8	3,322
STOCKTON	3	0

SUNSET CLIFFS	2	3,531
SWAN CANYON	9	4,143
TALMADGE	9	9,443
TERALTA EAST	9	6,259
TERALTA WEST	9	4,957
TIERRASANTA	7	27,929
TIJUANA RIVER VALLEY	8	733
TORREY HIGHLANDS	1	6,028
TORREY HIGHLANDS	5	0
TORREY PINES	1	11,084
TORREY PINES	6	0
TORREY PRESERVE	1	12
UNIVERSITY CITY	6	52,294
UNIVERSITY CITY	7	0
UNIVERSITY HEIGHTS	3	12,276
VALENCIA PARK	4	10,739
WOODED AREA	2	3,703
	2	2,261
	9	17
	1	0
	3	0
	5	0
	6	0
	8	0