Memorandum **State of California**

OSHPD

"Access to Safe, Quality Healthcare Environments that Meet California's Dynamic and Diverse Needs"

Date: January 18-19, 2017

To: California Healthcare Workforce Policy Commission

From: Stacie S. Walker, Deputy Director
Office of Staewide Health Planning and Development
Healthcare Workforce Development Division

Subject: Primary Care Shortage Areas (Update) Report

Recommendation

In 2004, the California Healthcare Workforce Policy Commission (Commission) adopted formal criteria for designating Primary Care Shortage Areas (PCSA) using physician counts, and demographic and poverty data. The Office of Statewide Health Planning and Development (OSHPD) updated the PCSA list by applying the scoring criteria to 2016 physician counts and 2014 demographic and poverty data. OSHPD recommends the Commission adopt the revised PCSA list.

Recommended Motion

OSHPD recommends the Commission adopt the revised PCSA list based on 2016 primary care physician counts and 2014 demographic and poverty data.

Background and Methodology

The Commission augments PCSAs with additional information to inform Family Medicine, Family Nurse Practitioner/Physician Assistant, and Primary Care Residency Song-Brown Program funding decisions. Staff develop PCSAs by applying a score to medical service study areas (MSSAs) based on two factors[1]:

1. Percent of population below 100 percent federal poverty level (FPL)
2. Physician-to-population ratio

Staff assigns a PCSA designation to MSSAs with a combined score greater than or equal to five.

[1] MSSAs are geographic units based on population, demographic, and physician census data. The U.S. Department of Health and Human Services, Health Resources Services Administration (HRSA) formally recognizes California's MSSA unit of geography as the Rational Service Area (RSA) for medical service in California.

Table 1 summarizes the PCSA scores for each factor:

Table 1

Score	100% Below FPL	Physician-to-Population Ratio
0	5.0% or Less	Lower than 1:1,000
1	5.1 – 10.0%	1:1,000 to 1:1,500
2	10.1 – 15.0%	1:1,500 to 1:2,000
3	15.1 – 20.0%	1:2,000 to 1:2,500
4	20.1 – 25.0%	1:2,500 to 1:3,000
5	25.1% or Greater	Higher than 1:3,000
5		No Providers

Assessment

Staff used the following data to update the PCSA list:

1. National Provider Identifier (NPI) data from June 2016
2. U.S. Census, American Community Survey 5 Year ("ACS 2010 – 2014") estimated population, demographic, and poverty data by 2014 census tracts

Results

In 2016, changes in civilian population, poverty, provider counts, and the physician-to-population ratios changed the status of nine MSSAs. There are 542 MSSAs in California; staff recommend 6 MSSAs gain PCSA designation and 3 MSSAs lose PCSA designation, increasing the total number of PSCAs by 3. Table 2 displays staff recommended number of PCSAs, PCSA population, and the percent of California's population in a PCSA for 2015 and 2016:

Table 2

Category	2015	2016
Number of PCSAs	291	294
PCSA Population	16,201,317	16,794,906
Percent of California Population in PCSAs	44%	45%

Table 3 lists the six MSSAs recommended for PCSA designation, their county, population, and PCSA scores:

Table 3

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Alameda	1.2	37,767	1	4	5
Merced	97.1	72,913	5	0	5
Orange	116g	121,610	3	2	5
San Bernardino	151b	100,485	3	2	5
San Diego	156b	110,774	2	3	5
Siskiyou	195	16,169	5	0	5
Total		**459,718**			

Table 4 lists the three MSSAs recommended for PCSA designation elimination, their county, population, and PCSA scores:

Table 4

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Mendocino	87.1	2,874	4	0	4
Riverside	127	2,000	3	0	3
San Diego	158.1	24,989	1	3	4
Total		**28,063**			

Table 5 lists the 288 MSSAs recommended for continued PCSA designation, their county, population, and PCSA scores:

Table 5

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Alameda	2c	83,594	5	0	5
Alameda	2d	131,897	5	2	7
Alameda	2h	111,733	3	2	5
Alameda	2i	93,747	1	5	6
Alameda	2n	116,665	3	5	8

Table 5

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Alpine	3	1,184	3	5	8
Amador	6	5,848	2	5	7
Butte	7.2	5,545	1	5	6
Butte	7.3	4,877	2	5	7
Butte	7.4	5,502	2	5	7
Butte	10	47,742	4	1	5
Butte	11	5,037	5	5	10
Colusa	16.1	5,989	2	5	7
Colusa	16.2	2,283	2	5	7
Colusa	16.3	5,206	3	5	8
Contra Costa	18b	80,790	3	5	8
Contra Costa	18d	98,800	4	1	5
Contra Costa	18g	79,748	2	5	7
El Dorado	22	9,551	1	5	6
El Dorado	23.2	23,705	2	5	7
Fresno	25	21,736	5	5	10
Fresno	26	6,830	5	5	10
Fresno	27	16,343	5	3	8
Fresno	28	7,923	5	5	10
Fresno	29	39,275	4	5	9
Fresno	30	92,407	5	3	8
Fresno	31	97,012	2	4	6
Fresno	32	63,057	5	2	7
Fresno	35b	103,654	3	5	8
Fresno	35c	81,050	5	0	5
Fresno	35d	99,532	5	4	9
Fresno	35e	90,685	5	5	10
Fresno	35f	79,767	5	0	5
Glenn	36.1	12,944	4	2	6
Glenn	36.2	3,737	4	5	9
Glenn	37	10,939	3	3	6
Humboldt	38	5,513	5	1	6
Humboldt	40	22,759	2	4	6
Humboldt	42	25,053	3	2	5

Table 5

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Humboldt	44	7,555	5	1	6
Imperial	46	2,275	5	5	10
Imperial	47	13,286	5	5	10
Imperial	48	81,734	4	3	7
Imperial	49	40,756	5	5	10
Imperial	50	28,356	4	1	5
Inyo	54	2,397	2	5	7
Kern	57.1	8,452	2	4	6
Kern	57.2	18,748	5	5	10
Kern	58.1	20,150	4	3	7
Kern	58.2	24,155	5	3	8
Kern	59	3,799	4	5	9
Kern	60	59,116	5	2	7
Kern	61	43,558	5	5	10
Kern	63	15,435	5	4	9
Kern	65	42,082	4	5	9
Kern	66b	141,134	5	2	7
Kern	66c	159,597	3	5	8
Kings	67	9,906	5	2	7
Kings	68	18,810	5	1	6
Lake	70.2	8,474	5	4	9
Lake	71.1	18,574	5	1	6
Lake	71.2	10,323	3	5	8
Lake	71.3	11,358	2	5	7
Lassen	73	1,128	2	5	7
Lassen	74	2,022	2	5	7
Lassen	75	2,331	3	3	6
Los Angeles	76.2	24,573	2	5	7
Los Angeles	77.2	17,445	5	5	10
Los Angeles	77.3	16,961	3	5	8
Los Angeles	77.4	10,708	1	5	6
Los Angeles	77.5	24,861	1	5	6
Los Angeles	76.1b	117,247	2	5	7
Los Angeles	77.1a	101,364	4	5	9

Table 5

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Los Angeles	77.1c	106,188	5	3	8
Los Angeles	78.2a	82,511	4	2	6
Los Angeles	78.2b	147,111	5	2	7
Los Angeles	78.2bb	102,068	4	5	9
Los Angeles	78.2bbb	91,293	5	5	10
Los Angeles	78.2bbbb	77,969	3	5	8
Los Angeles	78.2c	116,987	4	3	7
Los Angeles	78.2cc	103,899	5	4	9
Los Angeles	78.2ccc	104,462	5	2	7
Los Angeles	78.2cccc	107,976	2	5	7
Los Angeles	78.2d	95,961	5	1	6
Los Angeles	78.2ddd	82,438	5	5	10
Los Angeles	78.2e	131,779	4	1	5
Los Angeles	78.2ff	95,280	4	1	5
Los Angeles	78.2fff	132,222	5	3	8
Los Angeles	78.2ffff	96,325	5	0	5
Los Angeles	78.2g	114,353	5	0	5
Los Angeles	78.2ggg	129,508	5	3	8
Los Angeles	78.2h	93,489	5	5	10
Los Angeles	78.2hhhh	97,062	4	5	9
Los Angeles	78.2i	119,926	4	3	7
Los Angeles	78.2ii	96,062	2	4	6
Los Angeles	78.2iii	92,375	4	5	9
Los Angeles	78.2iiii	113,175	2	3	5
Los Angeles	78.2jjj	113,128	5	3	8
Los Angeles	78.2jjjj	105,514	2	3	5
Los Angeles	78.2k	76,901	4	5	9
Los Angeles	78.2l	89,833	5	2	7
Los Angeles	78.2ll	123,868	4	2	6
Los Angeles	78.2mmm	100,170	5	5	10
Los Angeles	78.2nnn	109,180	5	5	10
Los Angeles	78.2oo	100,994	5	1	6
Los Angeles	78.2ooo	135,687	5	5	10
Los Angeles	78.2p	115,208	5	5	10

Table 5

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Los Angeles	78.2ppp	104,460	4	5	9
Los Angeles	78.2qqq	90,521	4	2	6
Los Angeles	78.2r	79,479	5	5	10
Los Angeles	78.2s	84,368	5	5	10
Los Angeles	78.2ss	115,403	5	2	7
Los Angeles	78.2uuu	84,994	4	5	9
Los Angeles	78.2v	108,030	2	4	6
Los Angeles	78.2vv	89,582	2	5	7
Los Angeles	78.2ww	101,706	2	5	7
Madera	79.1	26,384	2	3	5
Madera	79.2	16,463	5	1	6
Madera	80	100,920	4	1	5
Mariposa	85	15,784	3	5	8
Mariposa	86	1,995	3	5	8
Mendocino	87.2	6,434	3	3	6
Mendocino	90	3,457	5	1	6
Mendocino	92	2,534	5	0	5
Mendocino	93.3	2,277	3	3	6
Mendocino	93.4	4,339	2	5	7
Mendocino	93.5	2,037	3	5	8
Merced	94	58,098	5	3	8
Merced	95	40,651	3	5	8
Merced	96	50,566	4	5	9
Merced	97.2	25,955	5	0	5
Merced	97.3	8,067	5	4	9
Modoc	98	6,150	4	3	7
Modoc	100	1,803	4	2	6
Mono	102	5,921	1	5	6
Monterey	104	1,310	5	1	6
Monterey	106	3,191	3	5	8
Monterey	107	45,600	4	5	9
Monterey	108	52,837	2	3	5
Monterey	109.1	43,750	2	5	7
Napa	111.2	6,474	2	5	7

Table 5

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Napa	111.3	1,662	0	5	5
Napa	112.3	20,688	1	5	6
Orange	116b	111,285	5	1	6
Orange	116c	123,867	3	2	5
Orange	116i	117,125	4	1	5
Orange	116q	122,576	3	5	8
Orange	116v	117,974	1	4	5
Placer	118	27,411	1	5	6
Placer	120	5,962	2	5	7
Plumas	122	2,665	3	4	7
Plumas	123.2	1,429	1	5	6
Riverside	126	15,510	4	2	6
Riverside	128	105,241	5	4	9
Riverside	129.2	56,661	3	5	8
Riverside	129.3	28,805	3	2	5
Riverside	129.4	138,546	4	1	5
Riverside	130	12,033	2	5	7
Riverside	132	143,455	4	2	6
Riverside	133.1	180,617	3	5	8
Riverside	133.2	30,184	2	5	7
Riverside	133.3	24,093	5	5	10
Riverside	131a	147,546	2	3	5
Riverside	131b	146,204	1	4	5
Riverside	135a	100,210	5	3	8
Riverside	135b	167,689	3	4	7
Riverside	135e	171,417	1	5	6
Riverside	135g	89,664	3	5	8
Sacramento	136	36,607	3	5	8
Sacramento	137	5,597	2	5	7
Sacramento	138	21,538	1	5	6
Sacramento	139a	192,618	2	5	7
Sacramento	139c	119,212	3	5	8
Sacramento	139f	121,593	5	0	5
Sacramento	139j	119,946	5	1	6

Table 5

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Sacramento	139k	84,073	5	5	10
Sacramento	139l	78,633	2	5	7
San Benito	140	56,552	2	3	5
San Bernardino	142	2,201	5	5	10
San Bernardino	143	6,596	4	5	9
San Bernardino	144.2	40,474	4	4	8
San Bernardino	144.3	19,308	4	5	9
San Bernardino	145.2	54,088	5	5	10
San Bernardino	145.3	4,845	4	5	9
San Bernardino	146	25,419	3	5	8
San Bernardino	147	22,546	3	4	7
San Bernardino	148	6,844	2	5	7
San Bernardino	149	51,897	4	4	8
San Bernardino	150	10,723	2	5	7
San Bernardino	145.1a	180,846	4	2	6
San Bernardino	145.1b	114,891	3	3	6
San Bernardino	151c	125,876	4	1	5
San Bernardino	151e	188,749	1	5	6
San Bernardino	151g	124,544	5	4	9
San Bernardino	151h	135,185	5	4	9
San Bernardino	151k	117,462	5	0	5
San Bernardino	151l	133,487	2	5	7
San Diego	153.1	7,045	3	5	8
San Diego	153.2	16,578	2	3	5
San Diego	154	2,788	2	5	7
San Diego	157	16,070	1	5	6
San Diego	158.2	10,648	1	5	6
San Diego	159	6,864	3	5	8
San Diego	156f	103,467	2	5	7
San Diego	161c	82,210	5	0	5
San Diego	161d	98,895	5	3	8
San Diego	161g	97,950	4	1	5
San Diego	161h	87,387	5	2	7
San Diego	161i	86,930	2	4	6

Table 5

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
San Diego	161j	155,529	3	2	5
San Diego	161k	75,877	5	0	5
San Diego	161l	83,184	2	5	7
San Diego	161m	85,270	1	4	5
San Diego	161t	96,837	1	4	5
San Diego	161u	84,971	2	5	7
San Francisco	162d	128,277	2	4	6
San Francisco	162f	82,662	3	5	8
San Joaquin	164.2	49,472	2	5	7
San Joaquin	165	5,479	2	5	7
San Joaquin	167	38,279	2	5	7
San Joaquin	168	25,173	2	4	6
San Joaquin	169a	97,814	5	0	5
San Joaquin	169b	137,626	5	1	6
San Luis Obispo	172	52,825	5	0	5
San Luis Obispo	173	49,458	2	4	6
San Luis Obispo	174	35,907	2	3	5
San Mateo	175.2	3,939	2	5	7
San Mateo	175.3	38,262	1	5	6
San Mateo	176b	77,672	3	2	5
Santa Barbara	178.2	6,962	2	3	5
Santa Barbara	179	55,008	3	2	5
Santa Barbara	180.2	7,367	4	5	9
Santa Barbara	181a	94,555	4	2	6
Santa Clara	183d	74,764	5	1	6
Santa Clara	183e	127,782	3	5	8
Santa Clara	183g	117,094	1	5	6
Santa Clara	183h	133,786	2	3	5
Santa Clara	183k	104,886	1	5	6
Santa Cruz	185.2	4,149	3	5	8
Santa Cruz	185.5	28,644	1	5	6
Shasta	186	33,363	4	4	8
Shasta	187	1,423	5	5	10
Shasta	188.1	4,946	2	3	5

Table 5

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Shasta	188.2	6,152	2	5	7
Shasta	189.1	4,706	2	5	7
Shasta	189.3	20,451	3	5	8
Sierra	191	2,990	3	4	7
Siskiyou	193	2,020	5	1	6
Siskiyou	194	5,137	3	2	5
Siskiyou	196	1,410	4	5	9
Siskiyou	198	2,018	4	3	7
Siskiyou	199	1,437	4	5	9
Siskiyou	200	1,976	4	5	9
Solano	203.2	8,841	2	5	7
Sonoma	205.2	29,692	1	5	6
Sonoma	206	13,687	2	5	7
Sonoma	207	22,960	2	3	5
Sonoma	209.2	13,907	2	4	6
Stanislaus	211	57,142	3	3	6
Stanislaus	212.2	16,194	5	5	10
Stanislaus	212.3	26,466	3	5	8
Stanislaus	213	38,823	4	4	8
Stanislaus	214	46,378	4	3	7
Stanislaus	215c	88,034	5	4	9
Sutter	217	2,567	1	5	6
Sutter	218	10,231	3	5	8
Tehama	219	5,032	5	5	10
Tehama	220	4,107	2	5	7
Tehama	222	17,514	4	4	8
Trinity	223	2,242	3	5	8
Trinity	225	3,069	4	5	9
Tulare	227.1	33,926	5	3	8
Tulare	227.2	18,167	5	5	10
Tulare	228.1	15,740	5	2	7
Tulare	228.2	43,665	5	5	10
Tulare	229	4,914	1	5	6
Tulare	230	75,884	4	3	7

Table 5

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Tulare	231	100,358	5	1	6
Tulare	233	146,918	4	1	5
Tuolumne	235	3,479	3	2	5
Ventura	241a	106,110	2	5	7
Yolo	243	5,294	1	5	6
Yolo	244	65,878	5	0	5
Yolo	245	54,275	4	4	8
Yolo	246.2	3,881	2	5	7
Yuba	247	4,580	5	5	10
Yuba	248	4,006	3	5	8
Yuba	249	63,216	4	2	6
Total		**16,335,188**			

Table 6 lists the 245 MSSAs without PCSA designation, their county, population, and PCSA scores:

Table 6

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Alameda	1.1	55,603	1	1	2
Alameda	2a	81,652	4	0	4
Alameda	2b	108,356	1	0	1
Alameda	2e	69,150	2	0	2
Alameda	2f	104,141	1	1	2
Alameda	2g	98,617	2	0	2
Alameda	2j	91,223	1	0	1
Alameda	2k	113,231	0	0	0
Alameda	2l	117,190	1	1	2
Alameda	2m	116,780	2	0	2
Amador	4	22,354	2	0	2
Amador	5	4,730	2	2	4
Butte	7.1	93,751	4	0	4
Butte	8	40,260	3	1	4
Butte	9	13,878	3	1	4

Table 6

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Calaveras	12	44,223	2	2	4
Colusa	15	7,705	3	0	3
Contra Costa	17	58,010	1	3	4
Contra Costa	18a	87,420	1	0	1
Contra Costa	18c	89,772	1	1	2
Contra Costa	18e	130,729	1	2	3
Contra Costa	18f	99,267	4	0	4
Contra Costa	18h	136,773	0	1	1
Contra Costa	18i	110,460	0	0	0
Contra Costa	18j	100,026	1	0	1
Del Norte	19	24,371	4	0	4
El Dorado	23.1	68,484	1	3	4
El Dorado	23.3	49,401	2	0	2
El Dorado	24	28,925	3	1	4
Fresno	35a	132,727	1	0	1
Humboldt	39	70,438	4	0	4
Inyo	53	12,565	2	0	2
Inyo	55	2,944	3	0	3
Kern	62	30,850	2	2	4
Kern	64	34,246	2	1	3
Kern	66a	105,768	4	0	4
Kern	66d	117,882	1	0	1
Kings	69	104,328	3	1	4
Lake	70.1	14,570	4	0	4
Lassen	72	17,085	3	0	3
Los Angeles	78.1	3,900	2	2	4
Los Angeles	76.1a	123,697	1	1	2
Los Angeles	77.1b	100,090	2	1	3
Los Angeles	78.2aa	97,097	1	0	1
Los Angeles	78.2aaaa	114,317	2	0	2
Los Angeles	78.2dd	104,182	2	1	3
Los Angeles	78.2dddd	105,410	2	2	4
Los Angeles	78.2ee	96,392	2	0	2
Los Angeles	78.2eee	81,601	2	0	2

Table 6

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Los Angeles	78.2eeee	108,136	3	0	3
Los Angeles	78.2f	93,483	3	0	3
Los Angeles	78.2gg	100,894	3	0	3
Los Angeles	78.2gggg	89,000	1	2	3
Los Angeles	78.2hh	86,148	1	0	1
Los Angeles	78.2hhh	93,729	3	1	4
Los Angeles	78.2j	123,941	1	1	2
Los Angeles	78.2jj	130,413	1	1	2
Los Angeles	78.2kk	110,665	3	1	4
Los Angeles	78.2kkk	126,620	2	0	2
Los Angeles	78.2kkkk	86,563	2	0	2
Los Angeles	78.2lll	110,064	2	0	2
Los Angeles	78.2m	99,453	4	0	4
Los Angeles	78.2mm	101,888	1	0	1
Los Angeles	78.2n	109,820	2	2	4
Los Angeles	78.2nn	81,418	2	0	2
Los Angeles	78.2o	122,778	1	1	2
Los Angeles	78.2pp	103,395	1	3	4
Los Angeles	78.2q	99,954	3	0	3
Los Angeles	78.2qq	118,914	2	2	4
Los Angeles	78.2rr	112,852	1	3	4
Los Angeles	78.2rrr	100,793	1	2	3
Los Angeles	78.2sss	96,588	3	1	4
Los Angeles	78.2t	94,378	1	3	4
Los Angeles	78.2tt	112,636	1	0	1
Los Angeles	78.2ttt	127,981	2	0	2
Los Angeles	78.2u	90,858	1	0	1
Los Angeles	78.2uu	86,009	2	0	2
Los Angeles	78.2vvv	112,829	1	2	3
Los Angeles	78.2w	118,329	3	0	3
Los Angeles	78.2www	128,810	2	0	2
Los Angeles	78.2x	126,078	2	0	2
Los Angeles	78.2xx	117,095	1	0	1
Los Angeles	78.2xxx	101,590	1	0	1

Table 6

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Los Angeles	78.2y	96,631	2	2	4
Los Angeles	78.2yy	83,184	1	0	1
Los Angeles	78.2yyy	120,269	2	0	2
Los Angeles	78.2z	79,339	2	1	3
Los Angeles	78.2zz	111,061	4	0	4
Los Angeles	78.2zzz	105,521	3	0	3
Marin	81	14,198	1	1	2
Marin	82	54,002	1	1	2
Marin	83a	81,216	1	0	1
Marin	83b	100,196	2	1	3
Mendocino	88	3,332	2	0	2
Mendocino	89	11,687	4	0	4
Mendocino	91	12,829	4	0	4
Mendocino	93.1	27,655	4	0	4
Mendocino	93.2	6,666	3	0	3
Modoc	99	1,070	2	1	3
Mono	103	8,160	0	0	0
Monterey	105	16,769	4	0	4
Monterey	109.2	150,694	4	0	4
Monterey	110	91,981	2	0	2
Napa	111.1	12,827	1	0	1
Napa	112.1	62,963	2	0	2
Napa	112.2	30,957	1	0	1
Nevada	113	77,632	2	1	3
Nevada	114	20,097	2	0	2
Orange	115.1	115,393	2	1	3
Orange	115.2a	113,067	1	0	1
Orange	115.2b	139,852	0	2	2
Orange	115.2c	126,660	1	1	2
Orange	115.2d	75,865	1	0	1
Orange	116a	80,845	2	2	4
Orange	116d	142,348	2	0	2
Orange	116e	115,960	1	1	2
Orange	116f	104,506	3	0	3

Table 6

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Orange	116h	135,778	3	0	3
Orange	116j	79,166	1	0	1
Orange	116k	111,470	2	2	4
Orange	116l	97,750	4	0	4
Orange	116m	140,896	1	1	2
Orange	116n	125,595	1	0	1
Orange	116o	96,074	1	0	1
Orange	116p	110,706	3	0	3
Orange	116r	125,479	3	0	3
Orange	116s	126,947	3	1	4
Orange	116t	83,411	1	2	3
Orange	116u	87,085	1	3	4
Placer	117	12,770	2	2	4
Placer	119	95,008	2	1	3
Placer	121.1	106,571	1	3	4
Placer	121.2	110,777	1	0	1
Plumas	123.1	6,180	4	0	4
Plumas	124	4,505	3	1	4
Plumas	125	4,140	1	0	1
Riverside	129.1	101,064	2	0	2
Riverside	134	149,276	3	1	4
Riverside	131c	84,631	1	1	2
Riverside	135c	87,335	4	0	4
Riverside	135d	123,637	4	0	4
Riverside	135f	126,554	1	2	3
Sacramento	139b	92,123	2	0	2
Sacramento	139d	76,478	3	0	3
Sacramento	139e	106,581	1	0	1
Sacramento	139g	126,855	3	1	4
Sacramento	139h	78,179	3	0	3
Sacramento	139i	83,608	1	0	1
Sacramento	139m	83,365	1	1	2
San Bernardino	144.1	5,966	2	0	2
San Bernardino	151a	121,039	1	2	3

Table 6

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
San Bernardino	151d	85,787	2	2	4
San Bernardino	151f	145,714	4	0	4
San Bernardino	151i	105,147	3	0	3
San Bernardino	151j	99,136	2	0	2
San Diego	152	10,115	2	1	3
San Diego	155	33,868	1	2	3
San Diego	160	71,880	2	0	2
San Diego	156a	112,450	3	1	4
San Diego	156c	159,895	2	0	2
San Diego	156d	127,296	3	0	3
San Diego	156e	134,474	4	0	4
San Diego	161a	146,476	3	1	4
San Diego	161b	96,638	2	0	2
San Diego	161e	88,625	4	0	4
San Diego	161f	82,073	3	0	3
San Diego	161n	55,926	2	1	3
San Diego	161o	82,214	1	0	1
San Diego	161p	154,657	1	1	2
San Diego	161q	78,574	1	0	1
San Diego	161r	74,553	2	0	2
San Diego	161s	144,790	1	3	4
San Diego	161v	113,696	1	1	2
San Francisco	162a	108,707	4	0	4
San Francisco	162b	92,973	1	0	1
San Francisco	162c	110,515	2	0	2
San Francisco	162e	81,825	1	0	1
San Francisco	162g	120,221	1	0	1
San Francisco	162h	90,490	2	0	2
San Joaquin	163	104,436	1	1	2
San Joaquin	164.1	79,304	2	1	3
San Joaquin	166	65,929	3	0	3
San Joaquin	169c	83,194	3	1	4
San Luis Obispo	170	37,974	2	0	2
San Luis Obispo	171	82,107	2	1	3

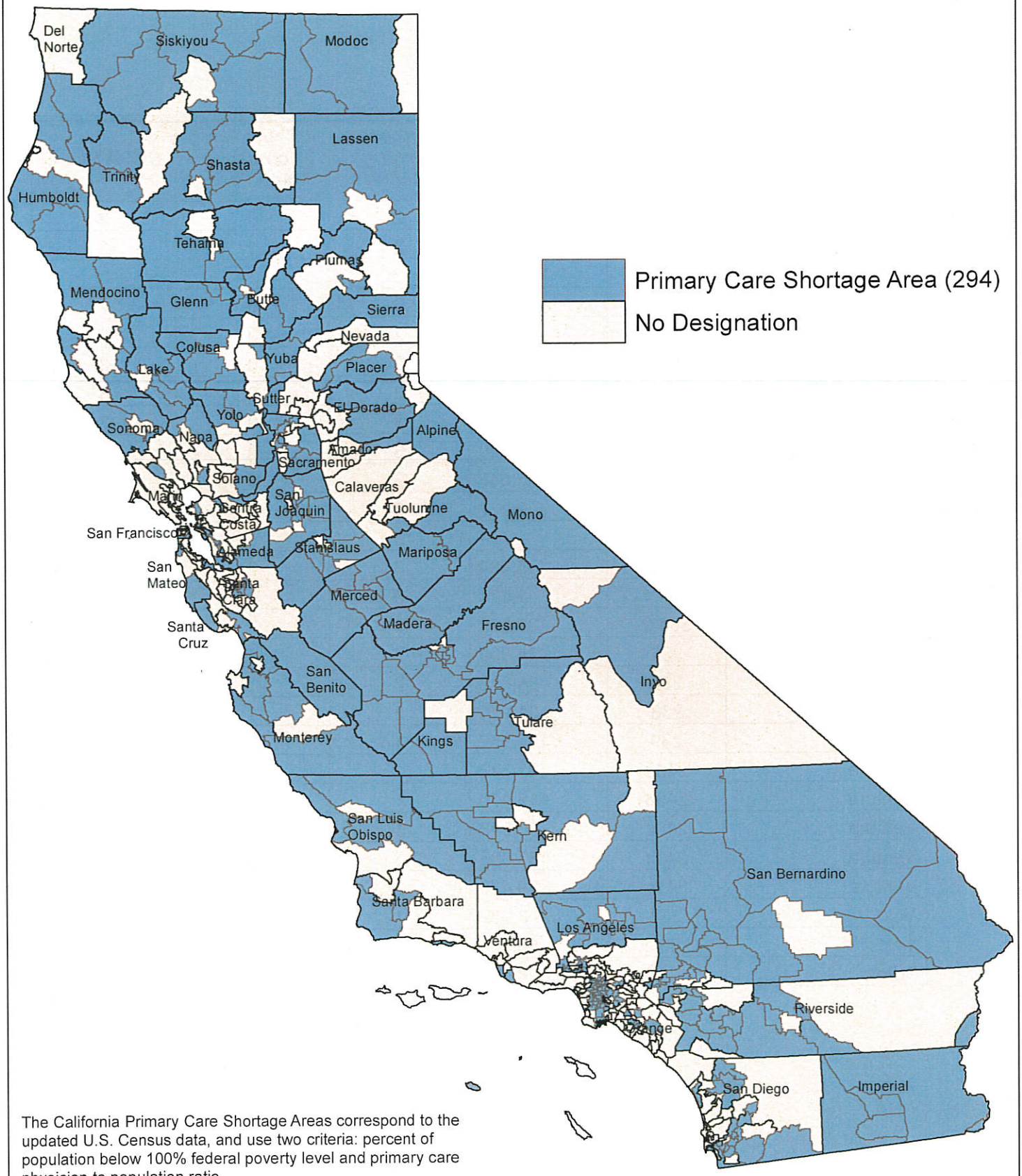
Table 6

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
San Mateo	175.1	24,916	0	2	2
San Mateo	176a	95,856	1	1	2
San Mateo	176c	82,564	1	0	1
San Mateo	176d	125,163	1	1	2
San Mateo	176e	97,778	1	0	1
San Mateo	176f	94,174	1	1	2
San Mateo	176g	93,292	0	1	1
Santa Barbara	177	18,740	1	1	2
Santa Barbara	178.1	16,972	2	0	2
Santa Barbara	180.1	134,149	3	1	4
Santa Barbara	181b	80,445	1	0	1
Santa Clara	182	111,115	2	2	4
Santa Clara	183a	125,543	1	0	1
Santa Clara	183b	126,233	1	1	2
Santa Clara	183c	92,335	1	1	2
Santa Clara	183f	115,749	0	0	0
Santa Clara	183i	107,784	1	0	1
Santa Clara	183j	93,017	3	0	3
Santa Clara	183l	127,807	2	0	2
Santa Clara	183m	103,253	1	0	1
Santa Clara	183n	127,349	1	2	3
Santa Clara	183o	125,842	1	1	2
Santa Cruz	184	55,251	4	0	4
Santa Cruz	185.1	113,171	3	0	3
Santa Cruz	185.3	40,017	1	1	2
Santa Cruz	185.4	15,918	1	2	3
Shasta	189.2	97,638	3	0	3
Shasta	190	7,153	3	1	4
Siskiyou	197	13,557	3	0	3
Solano	201	21,760	2	2	4
Solano	203.1	34,486	1	1	2
Solano	204	142,016	3	0	3
Solano	202a	93,756	1	0	1
Solano	202b	107,670	2	0	2

Table 6

County	MSSA	Population	Percent Poverty Score	Physician Population Ratio Score	PCSA Score
Sonoma	205.1	16,067	2	0	2
Sonoma	208	43,047	2	1	3
Sonoma	209.1	134,025	2	1	3
Sonoma	210.1	191,662	2	0	2
Sonoma	210.2	20,030	2	0	2
Stanislaus	212.1	74,004	3	0	3
Stanislaus	215a	81,023	3	0	3
Stanislaus	215b	88,634	3	0	3
Sutter	216	81,120	3	0	3
Tehama	221	35,648	3	0	3
Trinity	224	7,227	3	1	4
Trinity	226	771	3	0	3
Tulare	232	5,484	3	0	3
Tuolumne	234.1	1,874	0	0	0
Tuolumne	234.2	20,552	3	0	3
Tuolumne	236	24,809	2	2	4
Ventura	237	66,895	3	1	4
Ventura	238	31,971	2	1	3
Ventura	239	104,952	1	1	2
Ventura	240a	92,822	1	2	3
Ventura	240b	112,470	1	0	1
Ventura	240c	86,243	1	2	3
Ventura	241b	133,436	3	1	4
Ventura	241c	89,430	2	0	2
Yolo	242	8,380	1	1	2
Yolo	246.1	58,550	2	0	2
Total		**20,498,358**			

California Primary Care Shortage Areas



The California Primary Care Shortage Areas correspond to the updated U.S. Census data, and use two criteria: percent of population below 100% federal poverty level and primary care physician to population ratio.

0 50 100 Miles

OSHPD
Office of Statewide Health Planning and Development

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