

Date: March 8, 2017

To: California Healthcare Workforce Policy Commission

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

Subject: Registered Nurse Shortage Areas (Update) Report

Recommended Motion

The Office of Statewide Health Planning and Development (OSHPD) recommends the California Healthcare Workforce Policy Commission (Commission) adopt the revised Registered Nurse Shortage Areas (RNSA) list based on 2014 registered nurse (RN) data and 2015 facility census data for general acute care hospitals and facility patient data for long-term care facilities.

Background and Methodology

In 2007, the Commission adopted criteria for establishing RNSAs using the number of licensed and patient volume data. OSHPD updated the RNSA list by applying the criteria to 2014 RN data and 2015 facility census data for general acute care hospitals and long-term care facilities.

The Commission augments RNSAs with additional information to inform Registered Nurse Program funding decisions. Staff develop RNSAs by calculating a ratio¹ for counties based on three factors:

1. OSHPD long-term care facilities (LTC) patient day data
2. Department of Consumer Affairs, Board of Registered Nursing (BRN) California active licensee data²
3. OSHPD general acute care hospitals (GAC) census day data³

Counties receive the RNSA designation when the county's ratio is greater than the total average.

¹ Staff calculates the ratio by dividing the number of LTC facility bed days multiplied by 0.08, plus the number of GAC bed days by the number of RNs in a specific county. Staff calculates the average ratio by dividing the sum of the ratios for all counties by 58, the number of California counties.

² Source: Department of Consumer Affairs, Board of Registered Nursing, County Projections for Clear Registered Nurse (RN) Licenses as of December 31, 2014.

³ Source: Office of Statewide Health Planning and Development, Healthcare Information Division (HID) Data Products. <http://www.oshpd.ca.gov/HID/DataFlow/index.html> 2015.

Results

Staff assigned an RNSA designation to counties with a ratio greater than 39.19. Tuolumne County gained designation with this update.

Table 1 lists the patient days for long-term care facilities, patient census days for general acute care hospitals, the projected number of registered nurses per county, the designation ratio, and designation status alphabetically:

Table 1

County	2015 LTC Patient Days	2015 Census Days	BRN Projection	Ratio	Designated
Alameda	1,584,860	560,672	14,703	46.76	Yes
Alpine	0	0	13	0.00	Yes
Amador	39,182	9,088	317	38.54	No
Butte	304,077	131,466	2,626	59.32	Yes
Calaveras	32,135	3,843	489	13.13	No
Colusa	31,437	2,207	57	82.68	Yes
Contra Costa	966,621	324,926	12,669	31.75	No
Del Norte	18,283	6,271	240	32.27	No
El Dorado	89,089	28,353	2,428	14.61	No
Fresno	948,427	396,970	8,736	54.12	Yes
Glenn	26,182	726	111	25.37	No
Humboldt	123,472	46,134	1,480	37.85	No
Imperial	73,819	38,041	968	45.41	Yes
Inyo	36,135	3,025	207	28.57	No
Kern	470,244	276,846	5,728	54.90	Yes
Kings	92,068	39,010	968	47.92	Yes
Lake	82,917	11,787	491	37.55	No
Lassen	21,064	3,664	238	22.51	No
Los Angeles	12,030,731	4,521,884	78,322	70.02	Yes
Madera	134,475	96,515	939	114.21	Yes
Marin	298,728	77,642	3,635	27.94	No
Mariposa	0	651	137	4.76	No
Mendocino	79,790	20,780	784	34.63	No
Merced	223,410	46,005	1,303	49.01	Yes
Modoc	0	551	54	10.19	No
Mono	0	1,183	121	9.75	No
Monterey	321,166	129,655	3,077	50.49	Yes
Napa	236,255	50,586	2,379	29.20	No
Nevada	127,385	24,256	1,144	30.10	No

County	2015 LTC Patient Days	2015 Census Days	BRN Projection	Ratio	Designated
Orange	2,363,880	1,127,478	28,130	46.80	Yes
Placer	358,339	170,500	5,701	34.94	No
Plumas	0	2,850	179	15.88	No
Riverside	1,321,459	695,339	19,077	41.99	Yes
Sacramento	1,215,848	669,004	13,683	56.00	Yes
San Benito	0	7,142	370	19.29	No
San Bernardino	1,465,701	837,712	18,845	50.67	Yes
San Diego	2,629,273	1,249,205	32,256	45.25	Yes
San Francisco	388,231	434,989	8,110	57.47	Yes
San Joaquin	837,739	215,570	5,505	51.33	Yes
San Luis Obispo	228,381	69,097	3,144	27.79	No
San Mateo	313,150	165,289	8,945	21.28	No
Santa Barbara	348,633	140,252	3,082	54.56	Yes
Santa Clara	1,661,867	738,388	15,514	56.16	Yes
Santa Cruz	246,925	71,961	2,978	30.80	No
Shasta	274,263	108,849	2,359	55.44	Yes
Sierra	0	0	33	0.00	Yes
Siskiyou	13,684	7,470	406	21.10	No
Solano	261,341	132,523	5,987	25.63	No
Sonoma	517,529	140,625	5,493	33.14	No
Stanislaus	593,353	293,979	4,552	75.02	Yes
Sutter	137,946	6,467	804	21.78	No
Tehama	35,644	8,065	342	31.95	No
Trinity	0	2,024	73	27.56	No
Tulare	488,644	109,787	3,284	45.33	Yes
Tuolumne	69,350	20,494	648	40.21	Yes
Ventura	531,845	260,697	7,916	38.31	No
Yolo	202,785	19,101	1,523	23.20	No
Yuba	29,715	45,699	399	120.56	Yes

Table 2 lists the counties by ratio.

Table 2

County	2015 LTC Patient Days	2015 Census Days	BRN Projection	Ratio	Designated
Yuba	29,715	45,699	399	120.56	Yes
Madera	134,475	96,515	939	114.21	Yes
Colusa	31,437	2,207	57	82.68	Yes
Stanislaus	593,353	293,979	4,552	75.02	Yes
Los Angeles	12,030,731	4,521,884	78,322	70.02	Yes
Butte	304,077	131,466	2,626	59.32	Yes
San Francisco	388,231	434,989	8,110	57.47	Yes
Santa Clara	1,661,867	738,388	15,514	56.16	Yes
Sacramento	1,215,848	669,004	13,683	56.00	Yes
Shasta	274,263	108,849	2,359	55.44	Yes
Kern	470,244	276,846	5,728	54.90	Yes
Santa Barbara	348,633	140,252	3,082	54.56	Yes
Fresno	948,427	396,970	8,736	54.12	Yes
San Joaquin	837,739	215,570	5,505	51.33	Yes
San Bernardino	1,465,701	837,712	18,845	50.67	Yes
Monterey	321,166	129,655	3,077	50.49	Yes
Merced	223,410	46,005	1,303	49.01	Yes
Kings	92,068	39,010	968	47.92	Yes
Orange	2,363,880	1,127,478	28,130	46.80	Yes
Alameda	1,584,860	560,672	14,703	46.76	Yes
Imperial	73,819	38,041	968	45.41	Yes
Tulare	488,644	109,787	3,284	45.33	Yes
San Diego	2,629,273	1,249,205	32,256	45.25	Yes
Riverside	1,321,459	695,339	19,077	41.99	Yes
Tuolumne	69,350	20,494	648	40.21	Yes
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Solano	261,341	132,523	5,987	25.63	No
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Yolo	202,785	19,101	1,523	23.20	No
Lassen	21,064	3,664	238	22.51	No
Sutter	137,946	6,467	804	21.78	No
San Mateo	313,150	165,289	8,945	21.28	No
Siskiyou	13,684	7,470	406	21.10	No
San Benito	0	7,142	370	19.29	No
Plumas	0	2,850	179	15.88	No
El Dorado	89,089	28,353	2,428	14.61	No
Calaveras	32,135	3,843	489	13.13	No
Modoc	0	551	54	10.19	No
Mono	0	1,183	121	9.75	No
Mariposa	0	651	137	4.76	No
Alpine	0	0	13	0.00	Yes
Sierra	0	0	33	0.00	Yes

Registered Nurse Shortage Areas (RNSA) By County Using the Mean as the Analytical Unit



Sources:
 Board of Registered Nursing data 2014
 OSHPD Long-Term Care and General Acute Care Hospital
 Patient Days data 2015

The RNSA is updated annually; therefore, counties
 may gain or lose their designation status with each update.