American Association of Colleges of Pharmacy

American College of Clinical Pharmacy

American Pharmacists Association

American Society of Health-System Pharmacists

Board of Pharmacy Specialties

National Alliance of State Pharmacy Associations

National Association of Chain Drug Stores Foundation

National Community Pharmacists Association

Pharmacy Technician Certification Board

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Lynette Bradley-Baker, AACP Vice President

Thomas Maggio, AACP Secretary/Treasurer

Pharmacy Demand Report (PDR) Executive Summary

4ᵗʰ Quarter 2020

This is the executive summary of the Pharmacy Demand Report (PDR) for the fourth quarter 2020. An overview of the PDR can be found online.

Pharmacists

There have been 12,639 job postings for pharmacists through the fourth quarter 2020. Highlights for pharmacist job postings for 2020 include:

- 5,260 job postings were reported for the first quarter (which includes carry over postings from 2019), 2,115 job postings were reported for the second quarter, 2,526 job postings were reported for the third quarter and 2,743 job postings were reported for the fourth quarter;
- The highest number of job postings are in the southern and western parts of the country, followed by the Midwest and northeast;
  - In the third quarter 2020, the highest number of job postings were reported in the south, followed by the west, Midwest and northeast;
- California continues to have the highest number of job postings (2,232), followed by Florida (1,090), Texas (940), and Ohio (726). Vermont has the lowest number of job postings (6);
  - In the fourth quarter 2020, the highest number of job postings were reported in California, followed by Florida, Texas, Georgia, and Ohio;
- The MSAs with the highest number of job postings in the first quarter were Los Angeles, New York-Newark, and Chicago; the top MSAs in the second quarter were New York-Newark, Los Angeles, and Sacramento; the top MSAs in the third quarter were Los Angeles, Miami-Fort Lauderdale, and New York-Newark; and the top MSAs in the fourth quarter were Los Angeles, New-York-Newark, and Miami-Forth Lauderdale; and
- The highest number of postings are for the Clinical Pharmacist position (4,818) followed by the Retail Pharmacist position (3,922), the Other Pharmacist Occupations category (2,366), the Hospital Pharmacist position (914), and the Pharmacy Director position (619).

The next Pharmacy Demand Report will be available mid-March 2021. Contact Tom Maggio, Pharmacy Workforce Center Secretary/Treasurer at TMaggio@aacp.org or 703-479-3832 with any PDR-related questions.

Pharmacy Technicians

There were 145,216 pharmacy technicians through the fourth quarter 2020. Highlights for pharmacy technicians for 2020 include:

- 48,445 job postings were reported for the first quarter (includes carry over postings from 2019), 28,664 job postings were reported for the second quarter, 29,036 job postings were reported for the third quarter, and 39,071 job postings were reported for the fourth quarter;
- The highest number of job postings continue to be in the southern part of the country, followed by the west, Midwest, and northeast;
- California has the highest number of job postings (14,588), followed by Texas (11,654), Florida (8,911), and Arizona (7,997). Wyoming had the lowest number of job postings (111);
    - In the fourth quarter 2020, the highest number of job postings were reported in California, Texas, Florida, and Arizona; and
- New York-Newark had the highest number of job postings for the first and second quarters. For the first quarter, the top MSAs also included Chicago, Los Angeles and Dallas-Fort Worth. For the second quarter, the top MSAs were Los Angeles, Chicago, and Phoenix. The top MSAs for the third and fourth quarters were Phoenix-Mesa, New York-Newark and Chicago.

Regional Data

Clinical Pharmacist

	2019					2020				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Northeast	195	119	144	172	630	276	115	191	167	749
South	407	324	310	480	1,521	640	144	487	468	1,739
Midwest	284	204	195	273	956	406	93	224	225	948
West	408	317	291	397	1,413	532	176	330	344	1,382

Retail Pharmacist

	2019					2020				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Northeast	228	234	184	185	831	285	202	91	150	728
South	330	235	239	294	1,098	424	208	265	243	1,140
Midwest	394	265	207	223	1,089	338	137	87	162	724
West	518	385	332	346	1,581	627	279	172	252	1,330

Hospital Pharmacist

	2019					2020				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Northeast	53	29	34	38	154	57	17	19	21	114
South	111	73	104	66	354	112	72	60	32	276
Midwest	165	95	51	70	381	82	34	18	48	182
West	230	155	139	78	602	155	68	55	64	342

All Pharmacist Positions

	2019					2020				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Northeast	713	520	475	502	2,210	842	440	372	424	2,078
South	1,214	842	819	1,071	3,946	1,511	565	969	909	3,954
Midwest	1,166	788	683	792	3,429	1,214	401	440	614	2,669
West	1,542	1,211	1,037	1,062	4,852	1,693	709	740	796	3,938

Other Pharmacist Occupations

	2019					2020				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Northeast	208	125	99	90	522	193	89	66	78	426
South	265	159	108	179	711	251	93	123	124	591
Midwest	269	170	198	180	817	335	112	90	167	704
West	284	251	187	167	889	271	144	124	106	645

Pharmacy Technicians

	2019					2020				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Northeast	7,310	5,812	4,763	5,457	23,342	8,690	5,506	4,272	5,340	23,808
South	14,663	10,660	9,889	10,837	46,049	16,435	9,686	10,085	11,410	47,616
Midwest	11,696	8,046	7,487	7,758	34,987	12,082	6,892	6,544	8,214	33,732
West	9,236	6,681	6,458	6,822	29,197	11,238	6,580	8,135	9,387	40,060

Pharmacy Director

	2019					2020				
	Q1	Q2	Q3	Q4	Total	Q1	Q2	Q3	Q4	Total
Northeast	29	13	14	17	73	31	17	5	8	61
South	101	51	58	52	262	84	48	34	42	208
Midwest	54	54	32	46	186	53	25	21	12	111
West	102	103	88	74	367	108	42	59	30	239

Pharmacy Demand Report (PDR)

Clinical Pharmacist

Job Postings Per State

State/Territory	2019							2020						
	Number of Pharmacists Licensed (as of Oct. 2019)	Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Number of Pharmacists Licensed (as of Oct. 2020)	Q1 (Includes Carryover from 2019)	Q2	Q3	Q4	Total	Postings Quotient for 2020
Alabama	9,581	4	3	3	7	17	1.77	10,335	5	0	2	4	11	1.06
Alaska	1,083	4	1	1	0	6	5.54	1,002	7	1	1	5	14	13.97
Arizona	11,461	46	28	35	24	133	11.60	12,051	37	18	25	26	106	8.80
Arkansas	6,169	11	4	3	10	28	4.54	6,540	4	4	10	10	28	4.28
California	44,864	206	216	169	276	867	19.33	47,926	342	108	218	237	905	18.88
Colorado	8,351	50	25	6	26	107	12.81	8,832	31	6	25	21	83	9.40
Connecticut	5,545	21	21	36	33	111	20.02	5,545	65	30	28	23	146	26.33
Delaware	2,208	5	0	1	4	10	4.53	2,415	5	0	6	8	19	7.87
District of Columbia	1,886	7	1	5	5	18	9.54	2,045	5	3	7	6	21	10.27
Florida	37,366	126	113	108	127	474	12.69	34,157	204	24	142	152	522	15.28
Georgia	15,216	33	19	23	44	119	7.82	15,216	73	16	46	30	165	10.84
Hawaii	2,763	0	3	1	0	4	1.45	2,451	2	4	2	1	9	3.67
Idaho	2,399	1	2	4	4	11	4.59	4,082	15	0	6	6	27	6.61
Illinois	18,184	64	49	49	64	226	12.43	18,446	73	19	38	43	173	9.38
Indiana	10,817	18	13	11	29	71	6.56	11,497	32	13	15	23	83	7.22
Iowa	11,521	6	2	7	9	24	2.08	6,349	12	5	14	11	42	6.62
Kansas	6,533	8	7	5	6	26	3.98	7,234	15	3	7	9	34	4.70
Kentucky	9,889	21	17	18	27	83	8.39	10,767	27	5	23	21	76	7.06
Louisiana	8,780	4	2	6	19	31	3.53	9,200	21	5	17	11	54	5.87
Maine	2,284	3	2	1	4	10	4.38	2,300	5	3	8	6	22	9.57
Maryland	11,700	20	16	14	30	80	6.84	12,228	38	18	24	22	102	8.34
Massachusetts	13,259	37	24	23	29	113	8.52	13,936	44	10	35	34	123	8.83
Michigan	15,719	40	35	26	26	127	8.08	16,582	32	7	23	17	79	4.76
Minnesota	8,911	40	35	24	30	129	14.48	9,033	41	11	36	26	114	12.62
Mississippi	6,211	2	2	0	1	5	0.81	6,357	0	6	1	0	7	1.10
Missouri	10,770	26	11	16	27	80	7.43	11,320	55	11	30	29	125	11.04
Montana	2,104	2	2	0	1	5	2.38	2,111	2	0	1	2	5	2.37
Nebraska	5,158	5	2	0	5	12	2.33	5,495	4	2	1	1	8	1.46
Nevada	7,721	15	7	23	19	64	8.29	7,721	19	3	20	23	65	8.42
New Hampshire	2,780	2	0	1	5	8	2.88	2,912	2	1	15	5	23	7.90
New Jersey	17,656	25	15	13	22	75	4.25	18,019	34	18	21	24	97	5.38
New Mexico	3,027	18	7	8	7	40	13.21	3,065	7	3	9	6	25	8.16
New York	27,113	27	22	30	41	120	4.43	27,113	56	13	39	44	152	5.61
North Carolina	16,517	28	15	14	22	79	4.78	17,009	34	9	28	30	101	5.94
North Dakota	2,257	1	0	0	1	2	0.89	2,336	1	0	1	1	3	1.28
Ohio	20,349	47	41	48	56	192	9.44	20,979	120	15	43	49	227	10.82
Oklahoma	7,074	7	17	4	6	34	4.81	7,838	6	0	3	3	12	1.53
Oregon	8,019	6	3	6	8	23	2.87	8,488	16	3	1	2	22	2.59
Pennsylvania	22,781	66	28	28	26	148	6.50	24,586	58	37	33	19	147	5.98
Puerto Rico	5,340	2	0	0	0	2	0.37	5,340	1	1	0	1	3	0.56
Rhode Island	2,185	10	7	12	10	39	17.85	2,185	11	3	11	12	37	16.93
South Carolina	9,045	10	14	9	9	42	4.64	9,458	12	9	15	10	46	4.86
South Dakota	2,080	2	1	0	1	4	1.92	2,046	1	0	1	0	2	0.98
Tennessee	12,180	18	9	15	24	66	5.42	12,556	22	4	15	19	60	4.78
Texas	46,835	89	85	77	107	358	7.64	35,669	150	33	98	102	383	10.74
Utah	3,270	31	10	13	14	68	20.80	4,094	21	14	3	2	40	9.77
Vermont	1,180	4	0	0	2	6	5.08	1,231	1	0	1	0	2	1.62
Virginia	14,976	18	7	9	33	67	4.47	15,616	29	8	44	35	116	7.43
Washington	10,490	28	13	25	18	84	8.01	10,969	33	16	18	12	79	7.20
West Virginia	4,780	4	0	1	5	10	2.09	5,522	5	0	6	5	16	2.90
Wisconsin	5,834	27	8	9	19	63	10.80	8,942	20	7	15	16	58	6.49
Wyoming	1,407	1	0	0	0	1	0.71	1,441	0	0	1	1	2	1.39

Pharmacy Demand Report (PDR)

Clinical Pharmacist

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019			2020					
Full Year			**Quarter 1**			**Quarter 2**		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
Los Angeles-Long Beach-Anaheim, CA	289	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	122	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	46	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	212	Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	70	Much Higher than National Average	Sacramento--Roseville--Arden-Arcade, CA	25	Much Higher than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	194	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	68	Similar to National Average	New York-Newark-Jersey City, NY-NJ-PA	24	Lower than National Average
New York-Newark-Jersey City, NY-NJ-PA	143	Much Lower than National Average	New York-Newark-Jersey City, NY-NJ-PA	59	Much Lower than National Average	Chicago-Naperville-Elgin, IL-IN-WI	23	Higher than National Average
San Diego-Carlsbad, CA	126	Much Higher than National Average	San Diego-Carlsbad, CA	48	Much Higher than National Average	New Haven, CT	18	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	124	Similar to National Average	Atlanta-Sandy Springs-Roswell, GA	48	Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	18	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	109	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	47	Similar to National Average	Baltimore-Columbia-Towson, MD	15	Much Higher than National Average
San Francisco-Oakland-Hayward, CA	108	Higher than National Average	St. Louis, MO-IL	45	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	15	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	106	Similar to National Average	Orlando-Kissimmee-Sanford, FL	43	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	14	Higher than National Average
Minneapolis-St. Paul-Bloomington, MN-WI	93	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	39	Similar to National Average	Houston-The Woodlands-Sugar Land, TX	13	Similar to National Average
Riverside-San Bernardino-Ontario, CA	91	Much Higher than National Average	Cleveland-Elyria, OH	39	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	12	Similar to National Average
Orlando-Kissimmee-Sanford, FL	91	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	38	Similar to National Average	Salt Lake City, UT	12	Much Higher than National Average
Boston-Cambridge-Nashua, MA-NH	85	Similar to National Average	San Francisco-Oakland-Hayward, CA	37	Similar to National Average	San Francisco-Oakland-Hayward, CA	12	Higher than National Average
Detroit-Warren-Dearborn, MI	80	Higher than National Average	Boston-Cambridge-Nashua, MA-NH	35	Similar to National Average	San Diego-Carlsbad, CA	11	Much Higher than National Average
Denver-Aurora-Lakewood, CO	76	Much Higher than National Average	Baltimore-Columbia-Towson, MD	35	Much Higher than National Average	Atlanta-Sandy Springs-Roswell, GA	10	Similar to National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	71	Lower than National Average	New Haven, CT	31	Much Higher than National Average	Minneapolis-St. Paul-Bloomington, MN-WI	10	Higher than National Average
Cincinnati, OH-KY-IN	71	Much Higher than National Average	Tampa-St. Petersburg-Clearwater, FL	30	Much Higher than National Average	Pittsburgh, PA	10	Much Higher than National Average
New Haven, CT	70	Much Higher than National Average	Sacramento--Roseville--Arden-Arcade, CA	30	Much Higher than National Average	St. Louis, MO-IL	9	Much Higher than National Average
Tampa-St. Petersburg-Clearwater, FL	68	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	29	Similar to National Average	Harrisburg-Carlisle, PA	7	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	67	Similar to National Average	Minneapolis-St. Paul-Bloomington, MN-WI	29	Similar to National Average	Hartford-West Hartford-East Hartford, CT	7	Much Higher than National Average
Baltimore-Columbia-Towson, MD	65	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	28	Similar to National Average	Miami-Fort Lauderdale-West Palm Beach, FL	6	Lower than National Average
St. Louis, MO-IL	58	Higher than National Average	San Antonio-New Braunfels, TX	27	Much Higher than National Average	Orlando-Kissimmee-Sanford, FL	6	Higher than National Average
San Antonio-New Braunfels, TX	58	Much Higher than National Average	Riverside-San Bernardino-Ontario, CA	27	Higher than National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	6	Much Lower than National Average
Sacramento--Roseville--Arden-Arcade, CA	58	Much Higher than National Average	Cincinnati, OH-KY-IN	27	Much Higher than National Average	Charlotte-Concord-Gastonia, NC-SC	5	Similar to National Average
Atlanta-Sandy Springs-Roswell, GA	58	Lower than National Average	Denver-Aurora-Lakewood, CO	22	Similar to National Average	Cincinnati, OH-KY-IN	5	Higher than National Average

Quarter 3			**Quarter 4**		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
Los Angeles-Long Beach-Anaheim, CA	94	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	104	Much Higher than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	53	Much Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	66	Much Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	37	Much Lower than National Average	New York-Newark-Jersey City, NY-NJ-PA	42	Much Lower than National Average
Chicago-Naperville-Elgin, IL-IN-WI	36	Similar to National Average	Chicago-Naperville-Elgin, IL-IN-WI	40	Similar to National Average
Orlando-Kissimmee-Sanford, FL	34	Much Higher than National Average	Orlando-Kissimmee-Sanford, FL	32	Much Higher than National Average
Boston-Cambridge-Nashua, MA-NH	29	Higher than National Average	Dallas-Fort Worth-Arlington, TX	31	Similar to National Average
Dallas-Fort Worth-Arlington, TX	28	Similar to National Average	Boston-Cambridge-Nashua, MA-NH	28	Higher than National Average
Minneapolis-St. Paul-Bloomington, MN-WI	27	Much Higher than National Average	Tampa-St. Petersburg-Clearwater, FL	27	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	27	Similar to National Average	Sacramento--Roseville--Arden-Arcade, CA	22	Much Higher than National Average
San Francisco-Oakland-Hayward, CA	25	Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	22	Higher than National Average
Sacramento--Roseville--Arden-Arcade, CA	25	Much Higher than National Average	Minneapolis-St. Paul-Bloomington, MN-WI	22	Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	25	Similar to National Average	Cincinnati, OH-KY-IN	22	Much Higher than National Average
Baltimore-Columbia-Towson, MD	22	Much Higher than National Average	St. Louis, MO-IL	19	Much Higher than National Average
Washington-Arlington-Alexandria, DC-VA-MD-WV	21	Lower than National Average	Baltimore-Columbia-Towson, MD	19	Much Higher than National Average
Tampa-St. Petersburg-Clearwater, FL	20	Much Higher than National Average	San Francisco-Oakland-Hayward, CA	18	Similar to National Average
Cincinnati, OH-KY-IN	19	Much Higher than National Average	San Antonio-New Braunfels, TX	18	Much Higher than National Average
St. Louis, MO-IL	18	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	18	Lower than National Average
Phoenix-Mesa-Scottsdale, AZ	18	Similar to National Average	San Diego-Carlsbad, CA	17	Higher than National Average
San Diego-Carlsbad, CA	17	Higher than National Average	Louisville/Jefferson County, KY-IN	17	Much Higher than National Average
San Antonio-New Braunfels, TX	17	Much Higher than National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	16	Much Lower than National Average
Seattle-Tacoma-Bellevue, WA	16	Similar to National Average	Riverside-San Bernardino-Ontario, CA	16	Higher than National Average
Louisville/Jefferson County, KY-IN	16	Much Higher than National Average	Atlanta-Sandy Springs-Roswell, GA	16	Lower than National Average
Virginia Beach-Norfolk-Newport News, VA-NC	15	Much Higher than National Average	San Jose-Sunnyvale-Santa Clara, CA	15	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	15	Much Lower than National Average	New Haven, CT	15	Much Higher than National Average
Denver-Aurora-Lakewood, CO	15	Similar to National Average	Indianapolis-Carmel-Anderson, IN	15	Much Higher than National Average

Pharmacy Demand Report (PDR)

Hospital Pharmacist

Job Postings Per State

State/Territory	2019							2020						
	Number of Pharmacists Licensed (as of Oct. 2019)	Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Number of Pharmacists Licensed (as of Oct. 2020)	Q1 (Includes Carryover from 2019)	Q2	Q3	Q4	Total	Postings Quotient for 2020
Alabama	9,581	6	1	1	0	8	0.83	10,335	0	0	0	0	0	0.00
Alaska	1,083	14	3	6	0	23	21.24	1,002	1	0	1	5	7	6.99
Arizona	11,461	9	8	3	8	28	2.44	12,051	21	3	14	8	46	3.82
Arkansas	6,169	0	1	13	0	14	2.27	6,540	0	0	0	0	0	0.00
California	44,864	125	89	90	55	359	8.00	47,926	88	48	21	21	178	3.71
Colorado	8,351	5	2	17	2	26	3.11	8,832	11	1	4	8	24	2.72
Connecticut	5,545	5	2	13	10	30	5.41	5,545	5	4	3	5	17	3.07
Delaware	2,208	0	0	0	0	0	0.00	2,415	0	0	0	2	2	0.83
District of Columbia	1,886	0	0	0	0	0	0.00	2,045	0	0	0	0	0	0.00
Florida	37,366	23	7	3	7	40	1.07	34,157	18	20	15	9	62	1.82
Georgia	15,216	10	10	10	9	39	2.56	15,216	7	10	10	6	33	2.17
Hawaii	2,763	4	9	3	1	17	6.15	2,451	2	0	0	0	2	0.82
Idaho	2,399	1	1	1	0	3	1.25	4,082	0	0	0	1	1	0.24
Illinois	18,184	14	12	8	16	50	2.75	18,446	19	11	4	11	45	2.44
Indiana	10,817	7	0	1	1	9	0.83	11,497	7	1	1	0	9	0.78
Iowa	11,521	2	0	0	3	5	0.43	6,349	0	0	0	1	1	0.16
Kansas	6,533	6	1	0	0	7	1.07	7,234	0	0	0	0	0	0.00
Kentucky	9,889	4	3	3	1	11	1.11	10,767	8	6	0	0	14	1.30
Louisiana	8,780	3	19	16	16	54	6.15	9,200	16	14	2	1	33	3.59
Maine	2,284	1	3	6	7	17	7.44	2,300	6	0	1	3	10	4.35
Maryland	11,700	2	3	2	10	17	1.45	12,228	8	6	4	1	19	1.55
Massachusetts	13,259	7	5	2	1	15	1.13	13,936	2	3	4	5	14	1.00
Michigan	15,719	9	4	1	5	19	1.21	16,582	10	5	2	3	20	1.21
Minnesota	8,911	31	16	4	5	56	6.28	9,033	3	7	4	5	19	2.10
Mississippi	6,211	1	1	0	0	2	0.32	6,357	0	0	0	0	0	0.00
Missouri	10,770	32	17	5	3	57	5.29	11,320	5	1	1	4	11	0.97
Montana	2,104	1	1	1	0	3	1.43	2,111	1	1	1	0	3	1.42
Nebraska	5,158	2	1	0	4	7	1.36	5,495	9	1	0	7	17	3.09
Nevada	7,721	35	7	7	3	52	6.73	7,721	4	2	2	5	13	1.68
New Hampshire	2,780	0	0	0	0	0	0.00	2,912	0	0	0	0	0	0.00
New Jersey	17,656	8	3	5	7	23	1.30	18,019	8	2	5	2	17	0.94
New Mexico	3,027	0	5	6	1	12	3.96	3,065	7	4	7	4	22	7.18
New York	27,113	24	9	4	7	44	1.62	27,113	14	7	4	1	26	0.96
North Carolina	16,517	6	2	6	4	18	1.09	17,009	3	4	2	2	11	0.65
North Dakota	2,257	2	1	0	0	3	1.33	2,336	0	0	0	0	0	0.00
Ohio	20,349	24	33	21	24	102	5.01	20,979	11	4	5	13	33	1.57
Oklahoma	7,074	2	9	0	0	11	1.55	7,838	5	2	2	0	9	1.15
Oregon	8,019	8	7	2	0	17	2.12	8,488	0	2	1	5	8	0.94
Pennsylvania	22,781	7	7	4	5	23	1.01	24,586	20	1	2	3	26	1.06
Puerto Rico	5,340	0	0	0	0	0	0.00	5,340	0	0	0	0	0	0.00
Rhode Island	2,185	0	0	0	1	1	0.46	2,185	2	0	0	2	4	1.83
South Carolina	9,045	6	3	1	1	11	1.22	9,458	4	2	4	5	15	1.59
South Dakota	2,080	0	0	2	0	2	0.96	2,046	0	0	0	0	0	0.00
Tennessee	12,180	2	0	0	0	2	0.16	12,556	1	1	0	0	2	0.16
Texas	46,835	43	12	47	18	120	2.56	35,669	40	7	20	6	73	2.05
Utah	3,270	3	0	0	1	4	1.22	4,094	2	0	0	0	2	0.49
Vermont	1,180	1	0	0	0	1	0.85	1,231	0	0	0	0	0	0.00
Virginia	14,976	3	2	1	0	6	0.40	15,616	2	0	1	0	3	0.19
Washington	10,490	23	20	3	6	52	4.96	10,969	17	7	4	7	35	3.19
West Virginia	4,780	0	0	1	0	1	0.21	5,522	0	0	0	0	0	0.00
Wisconsin	5,834	36	10	9	9	64	10.97	8,942	18	4	1	4	27	3.02
Wyoming	1,407	2	3	0	1	6	4.26	1,441	1	0	0	0	1	0.69

Pharmacy Demand Report (PDR)

Hospital Pharmacist

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019 — Full Year

Metro Area	Job Postings	Location Quotient
San Francisco-Oakland-Hayward, CA	98	Much Higher than National Average
Sacramento--Roseville--Arden-Arcade, CA	76	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	45	Similar to National Average
Seattle-Tacoma-Bellevue, WA	43	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	40	Higher than National Average
Dayton, OH	37	Much Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	34	Much Lower than National Average
Las Vegas-Henderson-Paradise, NV	33	Much Higher than National Average
Los Angeles-Long Beach-Anaheim, CA	31	Much Lower than National Average
Dallas-Fort Worth-Arlington, TX	27	Lower than National Average
Phoenix-Mesa-Scottsdale, AZ	23	Similar to National Average
Columbus, OH	20	Much Higher than National Average
St. Louis, MO-IL	19	Higher than National Average
Austin-Round Rock, TX	19	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	18	Much Lower than National Average
Minneapolis-St. Paul-Bloomington, MN-WI	18	Similar to National Average
San Diego-Carlsbad, CA	17	Similar to National Average
Denver-Aurora-Lakewood, CO	17	Similar to National Average
Anchorage, AK	17	Much Higher than National Average
San Jose-Sunnyvale-Santa Clara, CA	16	Higher than National Average
Jefferson City, MO	16	Much Higher than National Average
Milwaukee-Waukesha-West Allis, WI	15	Much Higher than National Average
Janesville-Beloit, WI	15	Much Higher than National Average
Baltimore-Columbia-Towson, MD	15	Similar to National Average
Urban Honolulu, HI	14	Much Higher than National Average

2020 — Quarter 1

Metro Area	Job Postings	Location Quotient
San Francisco-Oakland-Hayward, CA	26	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	19	Much Higher than National Average
Los Angeles-Long Beach-Anaheim, CA	19	Similar to National Average
Chicago-Naperville-Elgin, IL-IN-WI	18	Higher than National Average
Sacramento--Roseville--Arden-Arcade, CA	16	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	13	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	11	Much Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	10	Much Lower than National Average
Houston-The Woodlands-Sugar Land, TX	9	Similar to National Average
Orlando-Kissimmee-Sanford, FL	8	Much Higher than National Average
Denver-Aurora-Lakewood, CO	8	Much Higher than National Average
South Bend-Mishawaka, IN-MI	7	Much Higher than National Average
Baltimore-Columbia-Towson, MD	7	Much Higher than National Average
Austin-Round Rock, TX	7	Much Higher than National Average
San Antonio-New Braunfels, TX	6	Much Higher than National Average
Milwaukee-Waukesha-West Allis, WI	6	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	6	Much Lower than National Average
Albuquerque, NM	6	Much Higher than National Average
Albany-Schenectady-Troy, NY	6	Much Higher than National Average
Midland, TX	5	Much Higher than National Average
Lexington-Fayette, KY	5	Much Higher than National Average
Lewiston-Auburn, ME	5	Much Higher than National Average
Lake Charles, LA	5	Much Higher than National Average
Cleveland-Elyria, OH	5	Much Higher than National Average
St. Louis, MO-IL	4	Similar to National Average

2020 — Quarter 2

Metro Area	Job Postings	Location Quotient
Sacramento--Roseville--Arden-Arcade, CA	13	Much Higher than National Average
Los Angeles-Long Beach-Anaheim, CA	12	Higher than National Average
San Francisco-Oakland-Hayward, CA	10	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	10	Much Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	7	Much Lower than National Average
Jacksonville, FL	5	Much Higher than National Average
Baltimore-Columbia-Towson, MD	5	Much Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	5	Higher than National Average
Shreveport-Bossier City, LA	4	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	4	Much Higher than National Average
Orlando-Kissimmee-Sanford, FL	4	Much Higher than National Average
Milwaukee-Waukesha-West Allis, WI	4	Much Higher than National Average
Louisville/Jefferson County, KY-IN	4	Much Higher than National Average
Lake Charles, LA	4	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	4	Similar to National Average
Albuquerque, NM	4	Much Higher than National Average
Raleigh, NC	3	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	3	Similar to National Average
New Orleans-Metairie, LA	3	Much Higher than National Average
New Haven, CT	3	Much Higher than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	3	Similar to National Average
Gainesville, FL	3	Much Higher than National Average
Duluth, MN-WI	3	Much Higher than National Average
Detroit-Warren-Dearborn, MI	3	Similar to National Average
Cleveland-Elyria, OH	3	Much Higher than National Average

2020 — Quarter 3

Metro Area	Job Postings	Location Quotient
Dallas-Fort Worth-Arlington, TX	17	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	9	Much Higher than National Average
Orlando-Kissimmee-Sanford, FL	7	Much Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	7	Lower than National Average
Sacramento--Roseville--Arden-Arcade, CA	6	Much Higher than National Average
Tucson, AZ	5	Much Higher than National Average
Albuquerque, NM	5	Much Higher than National Average
Hilton Head Island-Bluffton-Beaufort, SC	4	Much Higher than National Average
Baltimore-Columbia-Towson, MD	4	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	3	Higher than National Average
San Francisco-Oakland-Hayward, CA	3	Similar to National Average
Los Angeles-Long Beach-Anaheim, CA	3	Much Lower than National Average
Duluth, MN-WI	3	Much Higher than National Average
Denver-Aurora-Lakewood, CO	3	Much Higher than National Average
Cape Coral-Fort Myers, FL	3	Much Higher than National Average
Bridgeport-Stamford-Norwalk, CT	3	Much Higher than National Average
Augusta-Richmond County, GA-SC	3	Much Higher than National Average
Youngstown-Warren-Boardman, OH-PA	2	Much Higher than National Average
Vineland-Bridgeton, NJ	2	Much Higher than National Average
San Diego-Carlsbad, CA	2	Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	2	Lower than National Average
Oxnard-Thousand Oaks-Ventura, CA	2	Much Higher than National Average
Macon, GA	2	Much Higher than National Average
Las Vegas-Henderson-Paradise, NV	2	Much Higher than National Average
Lake Charles, LA	2	Much Higher than National Average

2020 — Quarter 4

Metro Area	Job Postings	Location Quotient
San Francisco-Oakland-Hayward, CA	9	Much Higher than National Average
Denver-Aurora-Lakewood, CO	8	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	7	Much Higher than National Average
Fresno, CA	6	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	5	Much Higher than National Average
Portland-Vancouver-Hillsboro, OR-WA	5	Much Higher than National Average
Orlando-Kissimmee-Sanford, FL	5	Much Higher than National Average
Dayton, OH	5	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	5	Similar to National Average
Boston-Cambridge-Nashua, MA-NH	5	Much Higher than National Average
Rockford, IL	4	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	4	Higer than National Average
Las Vegas-Henderson-Paradise, NV	4	Much Higher than National Average
Hilton Head Island-Bluffton-Beaufort, SC	4	Much Higher than National Average
Bridgeport-Stamford-Norwalk, CT	4	Much Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	4	Higer than National Average
St. Louis, MO-IL	3	Much Higher than National Average
Muskegon, MI	3	Much Higher than National Average
Milwaukee-Waukesha-West Allis, WI	3	Much Higher than National Average
Lewiston-Auburn, ME (Metropolitan NECTA)	3	Much Higher than National Average
Jacksonville, FL	3	Much Higher than National Average
Cleveland-Elyria, OH	3	Much Higher than National Average
Yakima, WA	2	Much Higher than National Average
Vineland-Bridgeton, NJ	2	Much Higher than National Average
Savannah, GA	2	Much Higher than National Average

Pharmacy Demand Report (PDR)
Other Pharmacist Occupations
(Compounding, Informatics, Infusion, Long-Term Care, Nuclear Pharmacist, Oncology)

Job Postings Per State

State/Territory	2019							2020						
	Number of Pharmacists Licensed (as of Oct. 2019)	Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Number of Pharmacists Licensed (as of Oct. 2020)	Q1 (Includes Carryover from 2019)	Q2	Q3	Q4	Total	Postings Quotient for 2020
Alabama	9,581	28	3	1	1	33	3.44	10,335	4	0	2	2	8	0.77
Alaska	1,083	0	3	1	0	4	3.69	1,002	1	0	0	0	1	1.00
Arizona	11,461	39	16	14	8	77	6.72	12,051	18	9	12	16	55	4.56
Arkansas	6,169	3	0	1	7	11	1.78	6,540	5	3	0	3	11	1.68
California	44,864	117	110	111	101	439	9.79	47,926	148	94	76	48	366	7.64
Colorado	8,351	15	42	5	9	71	8.50	8,832	16	12	13	16	57	6.45
Connecticut	5,545	21	22	14	5	62	11.18	5,545	11	3	11	9	34	6.13
Delaware	2,208	1	1	1	0	3	1.36	2,415	0	0	1	0	1	0.41
District of Columbia	1,886	2	1	0	0	3	1.59	2,045	2	0	1	2	5	2.44
Florida	37,366	79	43	37	30	189	5.06	34,157	61	26	30	29	146	4.27
Georgia	15,216	14	19	8	14	55	3.61	15,216	23	9	15	5	52	3.42
Hawaii	2,763	3	3	0	1	7	2.53	2,451	4	1	0	0	5	2.04
Idaho	2,399	8	6	4	4	22	9.17	4,082	8	1	6	3	18	4.41
Illinois	18,184	66	58	42	23	189	10.39	18,446	38	15	10	6	69	3.74
Indiana	10,817	21	8	15	17	61	5.64	11,497	24	13	5	22	64	5.57
Iowa	11,521	9	0	2	2	13	1.13	6,349	2	0	1	0	3	0.47
Kansas	6,533	19	11	17	12	59	9.03	7,234	6	8	1	0	15	2.07
Kentucky	9,889	13	5	4	5	27	2.73	10,767	10	4	2	2	18	1.67
Louisiana	8,780	6	7	3	34	50	5.69	9,200	36	2	4	4	46	5.00
Maine	2,284	1	3	4	2	10	4.38	2,300	3	2	1	0	6	2.61
Maryland	11,700	16	11	7	9	43	3.68	12,228	7	9	13	7	36	2.94
Massachusetts	13,259	17	23	11	12	63	4.75	13,936	21	11	13	11	56	4.02
Michigan	15,719	53	27	53	44	177	11.26	16,582	72	31	16	28	147	8.87
Minnesota	8,911	18	6	5	3	32	3.59	9,033	9	7	5	2	23	2.55
Mississippi	6,211	0	2	4	0	6	0.97	6,357	1	3	0	0	4	0.63
Missouri	10,770	27	14	7	32	80	7.43	11,320	35	7	12	11	65	5.74
Montana	2,104	2	20	3	4	29	13.78	2,111	9	0	2	0	11	5.21
Nebraska	5,158	3	2	0	0	5	0.97	5,495	3	0	0	0	3	0.55
Nevada	7,721	14	7	4	5	30	3.89	7,721	21	7	7	5	40	5.18
New Hampshire	2,780	2	1	3	1	7	2.52	2,912	7	3	5	5	20	6.87
New Jersey	17,656	31	23	28	24	106	6.00	18,019	50	30	6	16	102	5.66
New Mexico	3,027	18	4	1	7	30	9.91	3,065	8	5	1	1	15	4.89
New York	27,113	75	31	25	29	160	5.90	27,113	48	8	15	23	94	3.47
North Carolina	16,517	11	6	2	14	33	2.00	17,009	17	4	17	20	58	3.41
North Dakota	2,257	0	1	0	0	1	0.44	2,336	0	1	0	0	1	0.43
Ohio	20,349	31	34	52	43	160	7.86	20,979	139	21	38	94	292	13.92
Oklahoma	7,074	7	4	5	3	19	2.69	7,838	8	5	6	3	22	2.81
Oregon	8,019	27	10	12	2	51	6.36	8,488	6	2	1	4	13	1.53
Pennsylvania	22,781	61	20	14	17	112	4.92	24,586	44	30	14	14	102	4.15
Puerto Rico	5,340	0	0	0	4	4	0.75	5,340	2	0	0	1	3	0.56
Rhode Island	2,185	0	1	0	0	1	0.46	2,185	8	2	1	0	11	5.03
South Carolina	9,045	11	9	8	9	37	4.09	9,458	3	4	2	8	17	1.80
South Dakota	2,080	0	1	0	1	2	0.96	2,046	2	1	0	0	3	1.47
Tennessee	12,180	9	5	1	8	23	1.89	12,556	6	1	5	3	15	1.19
Texas	46,835	52	29	24	41	146	3.12	35,669	62	22	18	29	131	3.67
Utah	3,270	5	9	4	3	21	6.42	4,094	8	2	2	2	14	3.42
Vermont	1,180	0	1	0	0	1	0.85	1,231	1	0	0	0	1	0.81
Virginia	14,976	12	14	2	4	32	2.14	15,616	6	1	6	6	19	1.22
Washington	10,490	36	19	28	23	106	10.10	10,969	22	11	4	11	48	4.38
West Virginia	4,780	1	0	0	0	1	0.21	5,522	0	0	1	1	2	0.36
Wisconsin	5,834	22	8	5	3	38	6.51	8,942	5	8	2	4	19	2.12
Wyoming	1,407	0	2	0	0	2	1.42	1,441	2	0	0	0	2	1.39

Pharmacy Demand Report (PDR)

Other Pharmacist Occupations

(Compounding, Informatics, Infusion, Long-Term Care, Nuclear Pharmacist, Oncology)

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019			2020					
Full Year			**Quarter 1**			**Quarter 2**		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
New York-Newark-Jersey City, NY-NJ-PA	183	Similar to National Average	New York-Newark-Jersey City, NY-NJ-PA	76	Similar to National Average	Los Angeles-Long Beach-Anaheim, CA	33	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	170	Much Higher than National Average	Cleveland-Elyria, OH	74	Much Higher than National Average	New York-Newark-Jersey City, NY-NJ-PA	30	Similar to National Average
Detroit-Warren-Dearborn, MI	101	Much Higher than National Average	Detroit-Warren-Dearborn, MI	51	Much Higher than National Average	Detroit-Warren-Dearborn, MI	29	Much Higher than National Average
Los Angeles-Long Beach-Anaheim, CA	98	Lower than National Average	Los Angeles-Long Beach-Anaheim, CA	40	Similar to National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	19	Much Higher than National Average
Kansas City, MO-KS	97	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	34	Similar to National Average	Miami-Fort Lauderdale-West Palm Beach, FL	17	Much Higher than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	90	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	32	Much Higher than National Average	San Diego-Carlsbad, CA	16	Much Higher than National Average
San Diego-Carlsbad, CA	76	Much Higher than National Average	San Diego-Carlsbad, CA	31	Much Higher than National Average	Riverside-San Bernardino-Ontario, CA	16	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	73	Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	28	Higher than National Average	Cleveland-Elyria, OH	14	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	72	Much Higher than National Average	Sacramento--Roseville--Arden-Arcade, CA	21	Much Higher than National Average	Sacramento--Roseville--Arden-Arcade, CA	13	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	64	Much Higher than National Average	St. Louis, MO-IL	20	Much Higher than National Average	Denver-Aurora-Lakewood, CO	12	Much Higher than National Average
Cleveland-Elyria, OH	60	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	20	Lower than National Average	Chicago-Naperville-Elgin, IL-IN-WI	10	Lower than National Average
Sacramento--Roseville--Arden-Arcade, CA	58	Much Higher than National Average	Boston-Cambridge-Nashua, MA-NH	20	Similar to National Average	Seattle-Tacoma-Bellevue, WA	9	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	52	Similar to National Average	Baton Rouge, LA	20	Much Higher than National Average	Milwaukee-Waukesha-West Allis, WI	8	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	44	Much Lower than National Average	Houston-The Woodlands-Sugar Land, TX	19	Similar to National Average	Kansas City, MO-KS	8	Much Higher than National Average
Cincinnati, OH-KY-IN	44	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	18	Higher than National Average	Dallas-Fort Worth-Arlington, TX	8	Lower than National Average
Portland-Vancouver-Hillsboro, OR-WA	41	Much Higher than National Average	Las Vegas-Henderson-Paradise, NV	18	Much Higher than National Average	Boston-Cambridge-Nashua, MA-NH	8	Similar to National Average
Boston-Cambridge-Nashua, MA-NH	41	Lower than National Average	Atlanta-Sandy Springs-Roswell, GA	18	Similar to National Average	Atlanta-Sandy Springs-Roswell, GA	8	Similar to National Average
Riverside-San Bernardino-Ontario, CA	40	Higher than National Average	Akron, OH	18	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	7	Lower than National Average
San Francisco-Oakland-Hayward, CA	39	Lower than National Average	San Francisco-Oakland-Hayward, CA	17	Similar to National Average	Baltimore-Columbia-Towson, MD	7	Much Higher than National Average
Tampa-St. Petersburg-Clearwater, FL	38	Higher than National Average	Kansas City, MO-KS	16	Much Higher than National Average	Pittsburgh, PA	6	Much Higher than National Average
St. Louis, MO-IL	37	Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	14	Similar to National Average	Las Vegas-Henderson-Paradise, NV	6	Much Higher than National Average
Denver-Aurora-Lakewood, CO	37	Higher than National Average	Ann Arbor, MI	14	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	5	Similar to National Average
Atlanta-Sandy Springs-Roswell, GA	36	Lower than National Average	Denver-Aurora-Lakewood, CO	13	Similar to National Average	Oklahoma City, OK	5	Much Higher than National Average
Pittsburgh, PA	34	Higher than National Average	Pittsburgh, PA	11	Higher than National Average	Minneapolis-St. Paul-Bloomington, MN-WI	5	Similar to National Average
New Haven, CT	31	Much Higher than National Average	Louisville/Jefferson County, KY-IN	10	Much Higher than National Average	Indianapolis-Carmel-Anderson, IN	5	Much Higher than National Average

Quarter 3			**Quarter 4**		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
Los Angeles-Long Beach-Anaheim, CA	28	Much Higher than National Average	Cleveland-Elyria, OH	40	Much Higher than National Average
Sacramento--Roseville--Arden-Arcade, CA	21	Much Higher than National Average	New York-Newark-Jersey City, NY-NJ-PA	30	Similar to National Average
Miami-Fort Lauderdale-West Palm Beach, FL	16	Much Higher than National Average	Youngstown-Warren-Boardman, OH-PA	19	Much Higher than National Average
Youngstown-Warren-Boardman, OH-PA	15	Much Higher than National Average	Indianapolis-Carmel-Anderson, IN	15	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	15	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	12	Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	12	Much Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	12	Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	12	Much Lower than National Average	Los Angeles-Long Beach-Anaheim, CA	12	Much Lower than National Average
Boston-Cambridge-Nashua, MA-NH	11	Higher than National Average	Dallas-Fort Worth-Arlington, TX	11	Similar to National Average
Detroit-Warren-Dearborn, MI	10	Much Higher than National Average	Akron, OH	11	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	9	Similar to National Average	Phoenix-Mesa-Scottsdale, AZ	10	Much Higher than National Average
Cleveland-Elyria, OH	9	Much Higher than National Average	Boston-Cambridge-Nashua, MA-NH	10	Similar to National Average
Chicago-Naperville-Elgin, IL-IN-WI	9	Lower than National Average	Kansas City, MO-KS	9	Much Higher than National Average
Baltimore-Columbia-Towson, MD	9	Much Higher than National Average	Denver-Aurora-Lakewood, CO	9	Much Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	9	Higher than National Average	Ann Arbor, MI	9	Much Higher than National Average
San Diego-Carlsbad, CA	8	Much Higher than National Average	Detroit-Warren-Dearborn, MI	8	Higher than National Average
Denver-Aurora-Lakewood, CO	8	Much Higher than National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	6	Much Lower than National Average
Washington-Arlington-Alexandria, DC-VA-MD-WV	7	Lower than National Average	Tampa-St. Petersburg-Clearwater, FL	6	Higher than National Average
St. Louis, MO-IL	7	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	6	Similar to National Average
San Jose-Sunnyvale-Santa Clara, CA	7	Much Higher than National Average	San Diego-Carlsbad, CA	6	Higher than National Average
Las Vegas-Henderson-Paradise, NV	7	Much Higher than National Average	Sacramento--Roseville--Arden-Arcade, CA	6	Much Higher than National Average
New Haven, CT (Metropolitan NECTA)	6	Much Higher than National Average	Port St. Lucie, FL	6	Much Higher than National Average
Buffalo-Cheektowaga-Niagara Falls, NY	6	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	6	Much Lower than National Average
Boise City, ID	6	Much Higher than National Average	Columbus, OH	6	Much Higher than National Average
Greensboro-High Point, NC	5	Much Higher than National Average	Cincinnati, OH-KY-IN	6	Much Higher than National Average
Charlotte-Concord-Gastonia, NC-SC	5	Much Higher than National Average	Buffalo-Cheektowaga-Niagara Falls, NY	6	Much Higher than National Average

Pharmacy Demand Report (PDR)
Pharmacy Director
Job Postings Per State

State/Territory	2019							2020						
	Number of Pharmacists Licensed (as of Oct. 2019)	Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Number of Pharmacists Licensed (as of Oct. 2020)	Q1 (Includes Carryover from 2019)	Q2	Q3	Q4	Total	Postings Quotient for 2020
Alabama	9,581	1	1	1	2	5	0.52	10,335	1	0	0	0	1	0.10
Alaska	1,083	2	0	1	1	4	3.69	1,002	2	0	0	2	4	3.99
Arizona	11,461	5	6	3	8	22	1.92	12,051	17	5	0	0	22	1.83
Arkansas	6,169	2	0	1	1	4	0.65	6,540	4	0	0	1	5	0.76
California	44,864	64	66	51	45	226	5.04	47,926	57	20	47	14	138	2.88
Colorado	8,351	1	3	8	2	14	1.68	8,832	7	2	1	3	13	1.47
Connecticut	5,545	1	0	1	0	2	0.36	5,545	0	1	1	0	2	0.36
Delaware	2,208	0	0	0	0	0	0.00	2,415	1	0	0	0	1	0.41
District of Columbia	1,886	0	1	0	0	1	0.53	2,045	2	1	0	1	4	1.96
Florida	37,366	12	6	12	10	40	1.07	34,157	12	5	8	11	36	1.05
Georgia	15,216	6	0	0	0	6	0.39	15,216	3	2	0	3	8	0.53
Hawaii	2,763	0	0	1	1	2	0.72	2,451	4	0	0	0	4	1.63
Idaho	2,399	0	3	1	3	7	2.92	4,082	4	3	1	2	10	2.45
Illinois	18,184	7	15	7	7	36	1.98	18,446	3	5	1	3	12	0.65
Indiana	10,817	1	3	1	6	11	1.02	11,497	4	3	2	4	13	1.13
Iowa	11,521	4	0	4	1	9	0.78	6,349	1	0	1	0	2	0.32
Kansas	6,533	2	2	0	0	4	0.61	7,234	2	0	1	0	3	0.41
Kentucky	9,889	5	6	0	2	13	1.31	10,767	7	4	2	1	14	1.30
Louisiana	8,780	19	8	3	4	34	3.87	9,200	3	0	2	1	6	0.65
Maine	2,284	0	0	0	0	0	0.00	2,300	0	0	0	0	0	0.00
Maryland	11,700	0	2	8	9	19	1.62	12,228	5	0	0	0	5	0.41
Massachusetts	13,259	4	6	0	2	12	0.91	13,936	4	4	1	2	11	0.79
Michigan	15,719	22	18	9	7	56	3.56	16,582	13	5	1	1	20	1.21
Minnesota	8,911	3	2	1	1	7	0.79	9,033	2	0	0	0	2	0.22
Mississippi	6,211	1	0	0	0	1	0.16	6,357	0	0	0	0	0	0.00
Missouri	10,770	5	3	4	3	15	1.39	11,320	4	0	1	1	6	0.53
Montana	2,104	0	0	0	0	0	0.00	2,111	0	0	0	0	0	0.00
Nebraska	5,158	1	0	2	6	9	1.74	5,495	1	1	2	0	4	0.73
Nevada	7,721	2	4	3	3	12	1.55	7,721	6	1	5	2	14	1.81
New Hampshire	2,780	1	1	0	0	2	0.72	2,912	0	2	0	0	2	0.69
New Jersey	17,656	9	2	9	7	27	1.53	18,019	7	2	0	3	12	0.67
New Mexico	3,027	2	0	1	1	4	1.32	3,065	1	3	1	0	5	1.63
New York	27,113	5	2	1	3	11	0.41	27,113	5	0	2	0	7	0.26
North Carolina	16,517	9	4	4	3	20	1.21	17,009	4	3	3	1	11	0.65
North Dakota	2,257	0	1	1	0	2	0.89	2,336	0	0	2	0	2	0.86
Ohio	20,349	7	7	1	10	25	1.23	20,979	15	7	7	2	31	1.48
Oklahoma	7,074	2	2	1	1	6	0.85	7,838	2	0	0	1	3	0.38
Oregon	8,019	4	6	9	3	22	2.74	8,488	4	3	3	2	12	1.41
Pennsylvania	22,781	5	2	3	5	15	0.66	24,586	15	8	1	3	27	1.10
Puerto Rico	5,340	2	0	0	0	2	0.37	5,340	0	0	1	1	2	0.37
Rhode Island	2,185	4	0	0	0	4	1.83	2,185	0	0	0	0	0	0.00
South Carolina	9,045	3	2	0	1	6	0.66	9,458	2	4	0	1	7	0.74
South Dakota	2,080	0	0	0	0	0	0.00	2,046	0	0	0	0	0	0.00
Tennessee	12,180	5	2	3	0	10	0.82	12,556	0	1	7	1	9	0.72
Texas	46,835	27	14	22	14	77	1.64	35,669	31	22	12	19	84	2.35
Utah	3,270	0	0	1	1	2	0.61	4,094	0	1	0	1	2	0.49
Vermont	1,180	0	0	0	0	0	0.00	1,231	0	0	0	0	0	0.00
Virginia	14,976	5	2	3	2	12	0.80	15,616	4	5	0	0	9	0.58
Washington	10,490	21	14	9	6	50	4.77	10,969	6	4	1	4	15	1.37
West Virginia	4,780	4	1	0	3	8	1.67	5,522	3	1	0	1	5	0.91
Wisconsin	5,834	2	3	2	5	12	2.06	8,942	8	4	3	1	16	1.79
Wyoming	1,407	1	1	0	0	2	1.42	1,441	0	0	0	0	0	0.00

Pharmacy Demand Report (PDR)
Pharmacy Director
Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019			2020					
Full Year			**Quarter 1**			**Quarter 2**		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
Los Angeles-Long Beach-Anaheim, CA	84	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	26	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	7	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	36	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	15	Much Higher than National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	6	Much Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	36	Much Lower than National Average	Phoenix-Mesa-Scottsdale, AZ	14	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	6	Similar to National Average
Riverside-San Bernardino-Ontario, CA	30	Much Higher than National Average	New York-Newark-Jersey City, NY-NJ-PA	10	Much Lower than National Average	Phoenix-Mesa-Scottsdale, AZ	5	Much Higher than National Average
San Francisco-Oakland-Hayward, CA	29	Much Higher than National Average	San Diego-Carlsbad, CA	8	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	5	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	27	Similar to National Average	Dayton, OH	7	Much Higher than National Average	Corpus Christi, TX	5	Much Higher than National Average
Detroit-Warren-Dearborn, MI	24	Much Higher than National Average	Corpus Christi, TX	7	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	5	Similar to National Average
Sacramento--Roseville--Arden-Arcade, CA	20	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	6	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	4	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	20	Similar to National Average	San Francisco-Oakland-Hayward, CA	6	Higher than National Average	San Antonio-New Braunfels, TX	4	Much Higher than National Average
Baltimore-Columbia-Towson, MD	19	Much Higher than National Average	San Antonio-New Braunfels, TX	6	Much Higher than National Average	Modesto, CA	4	Much Higher than National Average
Portland-Vancouver-Hillsboro, OR-WA	18	Much Higher than National Average	Milwaukee-Waukesha-West Allis, WI	6	Much Higher than National Average	South Bend-Mishawaka, IN-MI	3	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	18	Similar to National Average	Miami-Fort Lauderdale-West Palm Beach, FL	6	Higher than National Average	Madison, WI	3	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	17	Higher than National Average	Houston-The Woodlands-Sugar Land, TX	6	Similar to National Average	Lansing-East Lansing, MI	3	Much Higher than National Average
New Orleans-Metairie, LA	16	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	6	Lower than National Average	Houston-The Woodlands-Sugar Land, TX	3	Similar to National Average
Miami-Fort Lauderdale-West Palm Beach, FL	16	Similar to National Average	Riverside-San Bernardino-Ontario, CA	5	Much Higher than National Average	Columbus, OH	3	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	14	Lower than National Average	Louisville/Jefferson County, KY-IN	5	Much Higher than National Average	Cincinnati, OH-KY-IN	3	Much Higher than National Average
San Antonio-New Braunfels, TX	12	Much Higher than National Average	Detroit-Warren-Dearborn, MI	5	Higher than National Average	Boston-Cambridge-Nashua, MA-NH	3	Higher than National Average
Grand Rapids-Wyoming, MI	12	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	5	Lower than National Average	Boise City, ID	3	Much Higher than National Average
St. Louis, MO-IL	11	Higher than National Average	Baltimore-Columbia-Towson, MD	5	Much Higher than National Average	San Francisco-Oakland-Hayward, CA	2	Similar to National Average
Oxnard-Thousand Oaks-Ventura, CA	11	Much Higher than National Average	Austin-Round Rock, TX	5	Much Higher than National Average	San Diego-Carlsbad, CA	2	Higher than National Average
Cleveland-Elyria, OH	11	Much Higher than National Average	Portland-Vancouver-Hillsboro, OR-WA	4	Much Higher than National Average	Raleigh, NC	2	Much Higher than National Average
Boston-Cambridge-Nashua, MA-NH	11	Lower than National Average	Orlando-Kissimmee-Sanford, FL	4	Much Higher than National Average	Portland-Vancouver-Hillsboro, OR-WA	2	Much Higher than National Average
Orlando-Kissimmee-Sanford, FL	10	Higher than National Average	Las Vegas-Henderson-Paradise, NV	4	Much Higher than National Average	Orlando-Kissimmee-Sanford, FL	2	Much Higher than National Average
Fresno, CA	10	Much Higher than National Average	Boston-Cambridge-Nashua, MA-NH	4	Lower than National Average	New York-Newark-Jersey City, NY-NJ-PA	2	Much Lower than National Average
Tampa-St. Petersburg-Clearwater, FL	9	Similar to National Average	Boise City, ID	4	Much Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	2	Similar to National Average

Quarter 3			**Quarter 4**		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
San Francisco-Oakland-Hayward, CA	8	Much Higher than National Average	Tampa-St. Petersburg-Clearwater, FL	7	Much Higher than National Average
San Diego-Carlsbad, CA	8	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	7	Much Higher than National Average
Los Angeles-Long Beach-Anaheim, CA	7	Higher than National Average	Houston-The Woodlands-Sugar Land, TX	5	Much Higher than National Average
Tampa-St. Petersburg-Clearwater, FL	5	Much Higher than National Average	Modesto, CA	4	Much Higher than National Average
Sacramento--Roseville--Arden-Arcade, CA	4	Much Higher than National Average	Austin-Round Rock, TX	4	Much Higher than National Average
Las Vegas-Henderson-Paradise, NV	4	Much Higher than National Average	South Bend-Mishawaka, IN-MI	3	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	4	Higher than National Average	Seattle-Tacoma-Bellevue, WA	3	Much Higher than National Average
Bakersfield, CA	4	Much Higher than National Average	New York-Newark-Jersey City, NY-NJ-PA	3	Much Lower than National Average
Stockton-Lodi, CA	3	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	3	Lower than National Average
Nashville-Davidson--Murfreesboro--Franklin, TN	3	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	3	Similar to National Average
Modesto, CA	3	Much Higher than National Average	Santa Rosa, CA	2	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	3	Similar than National Average	San Francisco-Oakland-Hayward, CA	2	Higher than National Average
Santa Rosa, CA	2	Much Higher than National Average	San Antonio-New Braunfels, TX	2	Much Higher than National Average
San Antonio-New Braunfels, TX	2	Much Higher than National Average	Portland-Vancouver-Hillsboro, OR-WA	2	Much Higher than National Average
Oxnard-Thousand Oaks-Ventura, CA	2	Much Higher than National Average	Pittsburgh, PA	2	Much Higher than National Average
Omaha-Council Bluffs, NE-IA	2	Much Higher than National Average	Las Vegas-Henderson-Paradise, NV	2	Much Higher than National Average
New York-Newark-Jersey City, NY-NJ-PA	2	Much Lower than National Average	Denver-Aurora-Lakewood, CO	2	Much Higher than National Average
Fresno, CA	2	Much Higher than National Average	Boston-Cambridge-Nashua, MA-NH	2	Similar to National Average
Fargo, ND-MN	2	Much Higher than National Average	Boise City, ID	2	Much Higher than National Average
Dayton, OH	2	Much Higher than National Average	Yakima, WA	1	Much Higher than National Average
Corpus Christi, TX	2	Much Higher than National Average	Winchester, VA-WV	1	Much Higher than National Average
Columbus, OH	2	Much Higher than National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	1	Much Lower than National Average
Cincinnati, OH-KY-IN	2	Much Higher than National Average	Stockton-Lodi, CA	1	Much Higher than National Average
York-Hanover, PA	1	Much Higher than National Average	St. Louis, MO-IL	1	Similar to National Average
Tallahassee, FL	1	Much Higher than National Average	Sebastian-Vero Beach, FL	1	Much Higher than National Average

Pharmacy Demand Report (PDR)

Retail Pharmacist

Job Postings Per State

State/Territory	2019							2020						
	Number of Pharmacists Licensed (as of Oct. 2019)	Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Number of Pharmacists Licensed (as of Oct. 2020)	Q1 (Includes Carryover from 2019)	Q2	Q3	Q4	Total	Postings Quotient for 2020
Alabama	9,581	19	1	6	8	34	3.55	10,335	8	2	12	5	27	2.61
Alaska	1,083	22	3	3	3	31	28.62	1,002	3	2	3	6	14	13.97
Arizona	11,461	58	60	59	64	241	21.03	12,051	86	29	29	71	215	17.84
Arkansas	6,169	0	1	2	6	9	1.46	6,540	6	2	3	3	14	2.14
California	44,864	253	191	172	159	775	17.27	47,926	321	150	83	91	645	13.46
Colorado	8,351	33	20	18	23	94	11.26	8,832	41	21	12	9	83	9.40
Connecticut	5,545	12	19	6	10	47	8.48	5,545	9	3	4	7	23	4.15
Delaware	2,208	2	0	3	2	7	3.17	2,415	1	0	1	4	6	2.48
District of Columbia	1,886	5	4	6	1	16	8.48	2,045	2	3	0	2	7	3.42
Florida	37,366	97	54	35	65	251	6.72	34,157	106	54	100	64	324	9.49
Georgia	15,216	44	22	26	43	135	8.87	15,216	33	29	44	26	132	8.68
Hawaii	2,763	2	1	0	0	3	1.09	2,451	0	1	1	2	4	1.63
Idaho	2,399	8	10	3	5	26	10.84	4,082	6	5	6	11	28	6.86
Illinois	18,184	63	28	53	27	171	9.40	18,446	41	23	13	43	120	6.51
Indiana	10,817	50	9	7	23	89	8.23	11,497	21	8	12	23	64	5.57
Iowa	11,521	12	9	5	4	30	2.60	6,349	4	3	0	3	10	1.58
Kansas	6,533	11	41	8	12	72	11.02	7,234	12	10	5	4	31	4.29
Kentucky	9,889	20	15	3	12	50	5.06	10,767	26	9	0	8	43	3.99
Louisiana	8,780	7	10	14	12	43	4.90	9,200	18	12	5	12	47	5.11
Maine	2,284	4	4	4	3	15	6.57	2,300	4	2	2	2	10	4.35
Maryland	11,700	16	13	7	9	45	3.85	12,228	15	6	6	7	34	2.78
Massachusetts	13,259	26	25	16	15	82	6.18	13,936	26	11	9	8	54	3.87
Michigan	15,719	62	39	36	22	159	10.12	16,582	42	18	7	27	94	5.67
Minnesota	8,911	17	11	13	7	48	5.39	9,033	9	10	2	6	27	2.99
Mississippi	6,211	9	5	5	2	21	3.38	6,357	6	1	1	0	8	1.26
Missouri	10,770	21	30	8	27	86	7.99	11,320	36	9	11	19	75	6.63
Montana	2,104	9	16	2	8	35	16.63	2,111	12	2	1	1	16	7.58
Nebraska	5,158	9	17	12	12	50	9.69	5,495	25	5	7	3	40	7.28
Nevada	7,721	12	14	17	13	56	7.25	7,721	32	17	17	11	77	9.97
New Hampshire	2,780	2	4	4	12	22	7.91	2,912	13	4	6	5	28	9.62
New Jersey	17,656	37	26	42	37	142	8.04	18,019	44	34	21	27	126	6.99
New Mexico	3,027	8	13	6	11	38	12.55	3,065	16	2	4	5	27	8.81
New York	27,113	71	70	43	34	218	8.04	27,113	68	86	21	49	224	8.26
North Carolina	16,517	8	7	15	6	36	2.18	17,009	13	12	14	9	48	2.82
North Dakota	2,257	28	19	4	35	86	38.10	2,336	36	6	6	3	51	21.83
Ohio	20,349	70	55	52	38	215	10.57	20,979	75	29	19	20	143	6.82
Oklahoma	7,074	5	8	13	10	36	5.09	7,838	8	11	5	9	33	4.21
Oregon	8,019	40	23	12	13	88	10.97	8,488	23	16	5	19	63	7.42
Pennsylvania	22,781	68	83	65	72	288	12.64	24,586	116	57	27	44	244	9.92
Puerto Rico	5,340	0	2	1	3	6	1.12	5,340	1	0	4	1	6	1.12
Rhode Island	2,185	3	2	2	2	9	4.12	2,185	5	5	0	6	16	7.32
South Carolina	9,045	16	15	7	7	45	4.98	9,458	21	11	11	18	61	6.45
South Dakota	2,080	5	0	0	3	8	3.85	2,046	3	0	2	1	6	2.93
Tennessee	12,180	7	8	7	3	25	2.05	12,556	18	4	14	16	52	4.14
Texas	46,835	61	46	64	99	270	5.76	35,669	126	47	47	49	269	7.54
Utah	3,270	7	3	10	6	26	7.95	4,094	9	1	1	2	13	3.18
Vermont	1,180	5	1	2	0	8	6.78	1,231	0	0	1	2	3	2.44
Virginia	14,976	10	24	21	9	64	4.27	15,616	14	4	2	6	26	1.66
Washington	10,490	60	28	26	39	153	14.59	10,969	76	31	9	24	140	12.76
West Virginia	4,780	4	2	5	0	11	2.30	5,522	3	1	0	5	9	1.63
Wisconsin	5,834	46	7	9	13	75	12.86	8,942	34	16	3	10	63	7.05
Wyoming	1,407	6	3	4	2	15	10.66	1,441	2	2	1	0	5	3.47

Pharmacy Demand Report (PDR)

Retail Pharmacist

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019			2020					
Full Year			**Quarter 1**			**Quarter 2**		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
New York-Newark-Jersey City, NY-NJ-PA	229	Lower than National Average	New York-Newark-Jersey City, NY-NJ-PA	73	Lower than National Average	New York-Newark-Jersey City, NY-NJ-PA	91	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	184	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	63	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	31	Similar to National Average
Chicago-Naperville-Elgin, IL-IN-WI	141	Similar to National Average	San Francisco-Oakland-Hayward, CA	51	Much Higher than National Average	Sacramento--Roseville--Arden-Arcade, CA	27	Much Higher than National Average
San Francisco-Oakland-Hayward, CA	137	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	49	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	24	Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	115	Higher than national Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	47	Higher than national Average	San Francisco-Oakland-Hayward, CA	23	Much Higher than National Average
Los Angeles-Long Beach-Anaheim, CA	113	Much Lower than National Average	Sacramento--Roseville--Arden-Arcade, CA	43	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	20	Much Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	93	Similar to National Average	Los Angeles-Long Beach-Anaheim, CA	43	Much Lower than Nation Average	Chicago-Naperville-Elgin, IL-IN-WI	20	Lower than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	86	Similar to National Average	Chicago-Naperville-Elgin, IL-IN-WI	38	Lower than National Average	Seattle-Tacoma-Bellevue, WA	19	Much Higher than National Average
Sacramento--Roseville--Arden-Arcade, CA	79	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	37	Similar to National Average	Atlanta-Sandy Springs-Roswell, GA	18	Higher than National Average
Seattle-Tacoma-Bellevue, WA	75	Similar to National Average	Pittsburgh, PA	34	Much Higher than National Average	Pittsburgh, PA	14	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	71	Lower than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	28	Similar to National Average	Orlando-Kissimmee-Sanford, FL	14	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	67	Lower than National Average	Milwaukee-Waukesha-West Allis, WI	26	Much Higher than National Average	Portland-Vancouver-Hillsboro, OR-WA	13	Much Higher than National Average
Pittsburgh, PA	60	Much Higher than National Average	Atlanta-Sandy Springs-Roswell, GA	26	Similar to National Average	Houston-The Woodlands-Sugar Land, TX	13	Lower than National Average
Boston-Cambridge-Nashua, MA-NH	57	Lower than National Average	St. Louis, MO-IL	25	Much Higher than National Average	Riverside-San Bernardino-Ontario, CA	12	Higher than National Average
San Diego-Carlsbad, CA	53	Similar to National Average	Orlando-Kissimmee-Sanford, FL	22	Much Higher than National Average	Milwaukee-Waukesha-West Allis, WI	12	Much Higher than National Average
Orlando-Kissimmee-Sanford, FL	51	Higher than National Average	Denver-Aurora-Lakewood, CO	22	Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	12	Lower than National Average
Milwaukee-Waukesha-West Allis, WI	50	Much Higher than National Average	San Diego-Carlsbad, CA	20	Similar to National Average	Dallas-Fort Worth-Arlington, TX	12	Much Lower than National Average
St. Louis, MO-IL	46	Similar to National Average	Cleveland-Elyria, OH	20	Much Higher than National Average	Las Vegas-Henderson-Paradise, NV	10	Much Higher than National Average
Fresno, CA	43	Much Higher than National Average	Cincinnati, OH-KY-IN	19	Much Higher than National Average	Denver-Aurora-Lakewood, CO	10	Similar to National Average
Detroit-Warren-Dearborn, MI	41	Lower than National Average	Stockton-Lodi, CA	18	Much Higher than National Average	Columbus, OH	9	Much Higher than National Average
Kansas City, MO-KS	39	Similar to National Average	Las Vegas-Henderson-Paradise, NV	18	Much Higher than National Average	Bakersfield, CA	9	Much Higher than National Average
Omaha-Council Bluffs, NE-IA	37	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	18	Much Lower than Nation Average	Salinas, CA	8	Much Higher than National Average
Cincinnati, OH-KY-IN	37	Similar to National Average	Riverside-San Bernardino-Ontario, CA	16	Similar to National Average	Raleigh, NC	8	Much Higher than National Average
Tampa-St. Petersburg-Clearwater, FL	36	Similar to National Average	Boston-Cambridge-Nashua, MA-NH	16	Much Lower than Nation Average	Detroit-Warren-Dearborn, MI	8	Lower than National Average
Cleveland-Elyria, OH	36	Similar to National Average	Fresno, CA	15	Much Higher than National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	7	Much Higher than National Average

Quarter 3			**Quarter 4**		
Metro Area	Job Postings	Location Quotient	Metro Area	Job Postings	Location Quotient
Orlando-Kissimmee-Sanford, FL	30	Much Higher than National Average	New York-Newark-Jersey City, NY-NJ-PA	62	Similar to National Average
New York-Newark-Jersey City, NY-NJ-PA	29	Lower than National Average	Phoenix-Mesa-Scottsdale, AZ	58	Much Higher than National Average
Phoenix-Mesa-Scottsdale, AZ	24	Much Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	29	Similar to National Average
Los Angeles-Long Beach-Anaheim, CA	24	Similar to National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	25	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	22	Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	23	Much Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	22	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	20	Much Higher than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	21	Much Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	20	Much Lower than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	20	Much Higher than National Average	Indianapolis-Carmel-Anderson, IN	17	Much Higher than National Average
San Francisco-Oakland-Hayward, CA	12	Similar to National Average	Sacramento--Roseville--Arden-Arcade, CA	16	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	12	Similar to National Average	Portland-Vancouver-Hillsboro, OR-WA	15	Much Higher than National Average
Tampa-St. Petersburg-Clearwater, FL	9	Much Higher than National Average	St. Louis, MO-IL	13	Much Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	9	Much Lower than National Average	San Francisco-Oakland-Hayward, CA	13	Similar to National Average
St. Louis, MO-IL	7	Similar to National Average	Atlanta-Sandy Springs-Roswell, GA	13	Similar to National Average
Pittsburgh, PA	7	Higher than National Average	Houston-The Woodlands-Sugar Land, TX	11	Lower than National Average
Las Vegas-Henderson-Paradise, NV	7	Much Higher than National Average	San Diego-Carlsbad, CA	10	Higher than National Average
Jacksonville, FL	7	Much Higher than National Average	Pittsburgh, PA	10	Much Higher than National Average
Indianapolis-Carmel-Anderson, IN	7	Much Higher than National Average	Orlando-Kissimmee-Sanford, FL	10	Much Higher than National Average
Deltona-Daytona Beach-Ormond Beach, FL	7	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	10	Much Lower than National Average
Boston-Cambridge-Nashua, MA-NH	7	Much Lower than National Average	Boise City, ID	10	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	6	Lower than National Average	San Diego-Carlsbad, CA	10	Higher than National Average
Reno, NV	6	Much Higher than National Average	Nashville-Davidson--Murfreesboro--Franklin, TN	9	Much Higher than National Average
Nashville-Davidson--Murfreesboro--Franklin, TN	6	Much Higher than National Average	Cleveland-Elyria, OH	9	Much Higher than National Average
Modesto, CA	6	Much Higher than National Average	Riverside-San Bernardino-Ontario, CA	8	Similar to National Average
Manchester, NH	6	Much Higher than National Average	Oklahoma City, OK	7	Much Higher than National Average
Detroit-Warren-Dearborn, MI	6	Lower than National Average	Detroit-Warren-Dearborn, MI	7	Lower than National Average

Pharmacy Demand Report (PDR)

All Pharmacist Positions

(Excluding Pharmacy Technician)

Job Postings Per State

State/Territory	2019 Number of Pharmacists Licensed (as of Oct. 2019)	Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	2020 Number of Pharmacists Licensed (as of Oct. 2020)	Q1 (Includes Carryover from 2019)	Q2	Q3	Q4	Total	Postings Quotient for 2020
Alabama	9,581	58	9	12	18	97	10.12	10,335	18	2	16	11	47	4.55
Alaska	1,083	42	10	12	4	68	62.79	1,002	14	3	5	18	40	39.92
Arizona	11,461	157	118	114	112	501	43.71	12,051	179	64	80	121	444	36.84
Arkansas	6,169	16	6	20	24	66	10.70	6,540	19	9	13	17	58	8.87
California	44,864	765	672	593	636	2,666	59.42	47,926	956	420	445	411	2,232	46.57
Colorado	8,351	104	92	54	62	312	37.36	8,832	106	42	55	57	260	29.44
Connecticut	5,545	60	64	70	58	252	45.45	5,545	90	41	47	44	222	40.04
Delaware	2,208	8	1	5	6	20	9.06	2,415	7	0	8	14	29	12.01
District of Columbia	1,886	14	7	11	6	38	20.15	2,045	11	7	8	11	37	18.09
Florida	37,366	337	223	195	239	994	26.60	34,157	401	129	295	265	1,090	31.91
Georgia	15,216	107	70	67	110	354	23.26	15,216	139	66	115	70	390	25.63
Hawaii	2,763	9	16	5	3	33	11.94	2,451	12	6	3	3	24	9.79
Idaho	2,399	18	22	13	16	69	28.76	4,082	33	9	19	23	84	20.58
Illinois	18,184	214	162	159	137	672	36.96	18,446	174	73	66	106	419	22.71
Indiana	10,817	97	33	35	76	241	22.28	11,497	88	38	35	72	233	20.27
Iowa	11,521	33	11	18	19	81	7.03	6,349	19	8	16	15	58	9.14
Kansas	6,533	46	62	30	30	168	25.72	7,234	35	21	14	13	83	11.47
Kentucky	9,889	63	46	28	47	184	18.61	10,767	78	28	27	32	165	15.32
Louisiana	8,780	39	46	42	85	212	24.15	9,200	94	33	30	29	186	20.22
Maine	2,284	9	12	15	16	52	22.77	2,300	18	7	12	11	48	20.87
Maryland	11,700	54	45	38	67	204	17.44	12,228	73	39	47	37	196	16.03
Massachusetts	13,259	91	83	52	59	285	21.49	13,936	97	39	62	60	258	18.51
Michigan	15,719	186	123	125	104	538	34.23	16,582	169	66	49	76	360	21.71
Minnesota	8,911	109	70	47	46	272	30.52	9,033	64	35	47	39	185	20.48
Mississippi	6,211	13	10	9	3	35	5.64	6,357	7	10	2	0	19	2.99
Missouri	10,770	111	75	40	92	318	29.53	11,320	135	28	55	64	282	24.91
Montana	2,104	14	39	6	13	72	34.22	2,111	24	3	5	3	35	16.58
Nebraska	5,158	20	22	14	27	83	16.09	5,495	42	9	10	11	72	13.10
Nevada	7,721	78	39	54	43	214	27.72	7,721	82	30	51	46	209	27.07
New Hampshire	2,780	7	6	8	18	39	14.03	2,912	22	10	26	15	73	25.07
New Jersey	17,656	110	69	97	97	373	21.13	18,019	143	86	53	72	354	19.65
New Mexico	3,027	46	29	22	27	124	40.96	3,065	39	17	22	16	94	30.67
New York	27,113	202	134	103	114	553	20.40	27,113	191	114	81	117	503	18.55
North Carolina	16,517	62	34	41	49	186	11.26	17,009	71	32	64	62	229	13.46
North Dakota	2,257	31	22	5	36	94	41.65	2,336	37	7	9	4	57	24.40
Ohio	20,349	179	170	174	171	694	34.10	20,979	360	76	112	178	726	34.61
Oklahoma	7,074	23	40	23	20	106	14.98	7,838	29	18	16	16	79	10.08
Oregon	8,019	85	49	41	26	201	25.07	8,488	49	26	11	32	118	13.90
Pennsylvania	22,781	207	140	114	125	586	25.72	24,586	253	133	77	83	546	22.21
Puerto Rico	5,340	4	2	1	7	14	2.62	5,340	4	1	5	4	14	2.62
Rhode Island	2,185	17	10	14	13	54	24.71	2,185	26	10	12	20	68	31.12
South Carolina	9,045	46	43	25	27	141	15.59	9,458	42	30	32	42	146	15.44
South Dakota	2,080	7	2	2	5	16	7.69	2,046	6	1	3	1	11	5.38
Tennessee	12,180	41	24	26	35	126	10.34	12,556	47	11	41	39	138	10.99
Texas	46,835	272	186	234	279	971	20.73	35,669	409	131	195	205	940	26.35
Utah	3,270	46	22	28	25	121	37.00	4,094	40	18	6	7	71	17.34
Vermont	1,180	10	2	2	2	16	13.56	1,231	2	0	2	2	6	4.87
Virginia	14,976	48	49	36	48	181	12.09	15,616	55	18	53	47	173	11.08
Washington	10,490	168	94	91	92	445	42.42	10,969	154	69	36	58	317	28.90
West Virginia	4,780	13	3	7	8	31	6.49	5,522	11	2	7	12	32	5.80
Wisconsin	5,834	133	36	34	49	252	43.20	8,942	85	39	24	35	183	20.47
Wyoming	1,407	10	9	4	3	26	18.48	1,441	5	2	2	1	10	6.94

Pharmacy Demand Report (PDR)

All Pharmacist Positions

(Excluding Pharmacy Technician)

Job Postings in the Top 50 Metropolitan Statistical Areas (MSAs)

2019 Full Year — Metro Area	Job Postings	Location Quotient	2020 Q1 — Metro Area	Job Postings	Location Quotient	2020 Q2 — Metro Area	Job Postings	Location Quotient
New York-Newark-Jersey City, NY-NJ-PA	625	Lower than National Average	Los Angeles-Long Beach-Anaheim, CA	250	Similar to National Average	New York-Newark-Jersey City, NY-NJ-PA	154	Similar to National Average
Los Angeles-Long Beach-Anaheim, CA	615	Similar to National Average	New York-Newark-Jersey City, NY-NJ-PA	228	Lower than National Average	Los Angeles-Long Beach-Anaheim, CA	128	Higher than National Average
Chicago-Naperville-Elgin, IL-IN-WI	599	Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	164	Similar to National Average	Sacramento--Roseville--Arden-Arcade, CA	79	Much Higher than National Average
San Francisco-Oakland-Hayward, CA	411	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	146	Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	68	Similar to National Average
Phoenix-Mesa-Scottsdale, AZ	397	Much Higher than National Average	Cleveland-Elyria, OH	140	Much Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	64	Much Higher than National Average
Miami-Fort Lauderdale-West Palm Beach, FL	395	Much Higher than National Average	San Francisco-Oakland-Hayward, CA	138	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	51	Much Higher than National Average
Seattle-Tacoma-Bellevue, WA	294	Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	138	Much Higher than National Average	San Francisco-Oakland-Hayward, CA	51	Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	292	Similar to National Average	Miami-Fort Lauderdale-West Palm Beach, FL	136	Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	51	Much Higher than National Average
Sacramento--Roseville--Arden-Arcade, CA	291	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	115	Similar to National Average	Detroit-Warren-Dearborn, MI	45	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	285	Similar to National Average	San Diego-Carlsbad, CA	114	Much Higher than National Average	Atlanta-Sandy Springs-Roswell, GA	43	Similar to National Average
Dallas-Fort Worth-Arlington, TX	284	Lower than National Average	Seattle-Tacoma-Bellevue, WA	113	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	41	Lower than National Average
San Diego-Carlsbad, CA	280	Much Higher than National Average	Sacramento--Roseville--Arden-Arcade, CA	112	Much Higher than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	40	Similar to National Average
Detroit-Warren-Dearborn, MI	250	Higher than National Average	Atlanta-Sandy Springs-Roswell, GA	97	Similar to National Average	San Diego-Carlsbad, CA	37	Much Higher than National Average
Riverside-San Bernardino-Ontario, CA	205	Higher than National Average	St. Louis, MO-IL	94	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	36	Lower than National Average
Boston-Cambridge-Nashua, MA-NH	203	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	90	Lower than National Average	Riverside-San Bernardino-Ontario, CA	34	Much Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	201	Lower than National Average	Detroit-Warren-Dearborn, MI	90	Higher than National Average	Pittsburgh, PA	32	Much Higher than National Average
Cincinnati, OH-KY-IN	173	Much Higher than National Average	Orlando-Kissimmee-Sanford, FL	86	Much Higher than National Average	Orlando-Kissimmee-Sanford, FL	30	Much Higher than National Average
St. Louis, MO-IL	171	Higher than National Average	Boston-Cambridge-Nashua, MA-NH	77	Lower than National Average	Baltimore-Columbia-Towson, MD	29	Higher than National Average
Orlando-Kissimmee-Sanford, FL	171	Higher than National Average	Denver-Aurora-Lakewood, CO	67	Higher than National Average	Milwaukee-Waukesha-West Allis, WI	28	Much Higher than National Average
Denver-Aurora-Lakewood, CO	171	Similar to National Average	Baltimore-Columbia-Towson, MD	63	Higher than National Average	Denver-Aurora-Lakewood, CO	28	Higher than National Average
Kansas City, MO-KS	170	Much Higher than National Average	San Antonio-New Braunfels, TX	60	Much Higher than National Average	Cleveland-Elyria, OH	25	Much Higher than National Average
Minneapolis-St. Paul-Bloomington, MN-WI	167	Similar to National Average	Pittsburgh, PA	60	Higher than National Average	New Haven, CT	24	Much Higher than National Average
Baltimore-Columbia-Towson, MD	161	Similar to National Average	Cincinnati, OH-KY-IN	59	Much Higher than National Average	Minneapolis-St. Paul-Bloomington, MN-WI	23	Lower than National Average
Cleveland-Elyria, OH	154	Much Higher than National Average	Riverside-San Bernardino-Ontario, CA	56	Similar to National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	22	Much Lower than National Average
Tampa-St. Petersburg-Clearwater, FL	153	Similar to National Average	Milwaukee-Waukesha-West Allis, WI	51	Much Higher than National Average	Boston-Cambridge-Nashua, MA-NH	22	Much Lower than National Average
Pittsburgh, PA	149	Higher than National Average	Las Vegas-Henderson-Paradise, NV	51	Higher than National Average	St. Louis, MO-IL	21	Similar to National Average
Las Vegas-Henderson-Paradise, NV	145	Higher than National Average	Austin-Round Rock, TX	51	Higher than National Average	Portland-Vancouver-Hillsboro, OR-WA	21	Higher than National Average
Milwaukee-Waukesha-West Allis, WI	127	Higher than National Average	Tampa-St. Petersburg-Clearwater, FL	49	Similar to National Average	Las Vegas-Henderson-Paradise, NV	18	Higher than National Average
San Antonio-New Braunfels, TX	126	Much Higher than National Average	Minneapolis-St. Paul-Bloomington, MN-WI	45	Much Lower than National Average	Louisville/Jefferson County, KY-IN	16	Much Higher than National Average
Portland-Vancouver-Hillsboro, OR-WA	119	Similar to National Average	Louisville/Jefferson County, KY-IN	44	Much Higher than National Average	Salt Lake City, UT	15	Higher than National Average
New Haven, CT	119	Much Higher than National Average	Kansas City, MO-KS	39	Similar to National Average	Columbus, OH	15	Similar to National Average
Louisville/Jefferson County, KY-IN	113	Much Higher than National Average	New Haven, CT	38	Much Higher than National Average	Cincinnati, OH-KY-IN	15	Similar to National Average
Washington-Arlington-Alexandria, DC-VA-MD-WV	104	Much Lower than National Average	Fresno, CA	36	Much Higher than National Average	Raleigh, NC	13	Similar to National Average
Fresno, CA	104	Much Higher than National Average	Baton Rouge, LA	36	Much Higher than National Average	Gainesville, FL	13	Much Higher than National Average
Columbus, OH	104	Similar to National Average	Ann Arbor, MI	34	Much Higher than National Average	San Antonio-New Braunfels, TX	12	Lower than National Average
San Jose-Sunnyvale-Santa Clara, CA	97	Similar to National Average	Salt Lake City, UT	33	Higher than National Average	Kansas City, MO-KS	12	Lower than National Average
Indianapolis-Carmel-Anderson, IN	93	Similar to National Average	Dayton, OH	33	Much Higher than National Average	Bakersfield, CA	12	Much Higher than National Average
Salt Lake City, UT	80	Similar to National Average	Columbus, OH	32	Similar to National Average	Salinas, CA	11	Much Higher than National Average
Dayton, OH	74	Much Higher than National Average	Akron, OH	32	Much Higher than National Average	Oklahoma City, OK	11	Similar to National Average
Austin-Round Rock, TX	72	Lower than National Average	Buffalo-Cheektowaga-Niagara Falls, NY	30	Higher than National Average	Fresno, CA	11	Much Higher than National Average
New Orleans-Metairie, LA	69	Similar to National Average	Reno, NV	28	Much Higher than National Average	Buffalo-Cheektowaga-Niagara Falls, NY	11	Higher than National Average
Virginia Beach-Norfolk-Newport News, VA-NC	68	Similar to National Average	Hartford-West Hartford-East Hartford, CT	28	Higher than National Average	Augusta-Richmond County, GA-SC	11	Much Higher than National Average
Nashville-Davidson--Murfreesboro--Franklin, TN	68	Lower than National Average	Bakersfield, CA	28	Much Higher than National Average	Albuquerque, NM	11	Much Higher than National Average
Providence-Warwick, RI-MA	67	Similar to National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	27	Much Lower than National Average	Tampa-St. Petersburg-Clearwater, FL	10	Much Lower than National Average
Ann Arbor, MI	67	Higher than National Average	San Jose-Sunnyvale-Santa Clara, CA	27	Lower than National Average	Reno, NV	10	Much Higher than National Average
Omaha-Council Bluffs, NE-IA	64	Higher than National Average	New Orleans-Metairie, LA	27	Higher than National Average	Providence-Warwick, RI-MA	10	Similar to National Average
Bakersfield, CA	64	Much Higher than National Average	Providence-Warwick, RI-MA	26	Similar to National Average	New Orleans-Metairie, LA	10	Similar to National Average
Santa Rosa, CA	63	Much Higher than National Average	Albuquerque, NM	26	Much Higher than National Average	Indianapolis-Carmel-Anderson, IN	10	Lower than National Average
Hartford-West Hartford-East Hartford, CT	61	Similar to National Average	Portland-Vancouver-Hillsboro, OR-WA	24	Much Lower than National Average	Harrisburg-Carlisle, PA	10	Much Higher than National Average
Albuquerque, NM	61	Much Higher than National Average	Indianapolis-Carmel-Anderson, IN	24	Lower than National Average	Charlotte-Concord-Gastonia, NC-SC	10	Much Lower than National Average

2020 Q3 — Metro Area	Job Postings	Location Quotient	2020 Q4 — Metro Area	Job Postings	Location Quotient
Los Angeles-Long Beach-Anaheim, CA	156	Higher than National Average	Los Angeles-Long Beach-Anaheim, CA	139	Similar to National Average
Miami-Fort Lauderdale-West Palm Beach, FL	91	Much Higher than National Average	New York-Newark-Jersey City, NY-NJ-PA	138	Lower than National Average
New York-Newark-Jersey City, NY-NJ-PA	87	Much Lower than National Average	Miami-Fort Lauderdale-West Palm Beach, FL	102	Much Higher than National Average
Orlando-Kissimmee-Sanford, FL	75	Much Higher than National Average	Phoenix-Mesa-Scottsdale, AZ	97	Much Higher than National Average
Dallas-Fort Worth-Arlington, TX	75	Higher than National Average	Chicago-Naperville-Elgin, IL-IN-WI	82	Similar to National Average
Phoenix-Mesa-Scottsdale, AZ	63	Much Higher than National Average	Dallas-Fort Worth-Arlington, TX	61	Similar to National Average
Sacramento--Roseville--Arden-Arcade, CA	61	Much Higher than National Average	Cleveland-Elyria, OH	55	Much Higher than National Average
Atlanta-Sandy Springs-Roswell, GA	58	Higher than National Average	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	51	Similar to National Average
Chicago-Naperville-Elgin, IL-IN-WI	57	Lower than National Average	Orlando-Kissimmee-Sanford, FL	50	Much Higher than National Average
Houston-The Woodlands-Sugar Land, TX	53	Similar to National Average	Boston-Cambridge-Nashua, MA-NH	49	Similar to National Average
San Francisco-Oakland-Hayward, CA	52	Higher than National Average	Indianapolis-Carmel-Anderson, IN	48	Much Higher than National Average
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	52	Similar to National Average	San Francisco-Oakland-Hayward, CA	47	Similar to National Average
Boston-Cambridge-Nashua, MA-NH	49	Similar to National Average	Sacramento--Roseville--Arden-Arcade, CA	46	Much Higher than National Average
San Diego-Carlsbad, CA	40	Much Higher than National Average	Seattle-Tacoma-Bellevue, WA	45	Similar to National Average
Tampa-St. Petersburg-Clearwater, FL	39	Much Higher than National Average	Tampa-St. Petersburg-Clearwater, FL	44	Much Higher than National Average
Baltimore-Columbia-Towson, MD	37	Much Higher than National Average	Houston-The Woodlands-Sugar Land, TX	42	Lower than National Average
St. Louis, MO-IL	34	Higher than National Average	St. Louis, MO-IL	38	Higher than National Average
Las Vegas-Henderson-Paradise, NV	33	Much Higher than National Average	Atlanta-Sandy Springs-Roswell, GA	36	Lower than National Average
Detroit-Warren-Dearborn, MI	32	Similar to National Average	Denver-Aurora-Lakewood, CO	35	Higher than National Average
Denver-Aurora-Lakewood, CO	32	Higher than National Average	San Diego-Carlsbad, CA	33	Similar to National Average
Washington-Arlington-Alexandria, DC-VA-MD-WV	31	Much Lower than National Average	Cincinnati, OH-KY-IN	30	Higher than National Average
Minneapolis-St. Paul-Bloomington, MN-WI	31	Similar to National Average	Baltimore-Columbia-Towson, MD	30	Similar to National Average
Cincinnati, OH-KY-IN	29	Much Higher than National Average	Minneapolis-St. Paul-Bloomington, MN-WI	29	Lower than National Average
Seattle-Tacoma-Bellevue, WA	28	Lower than National Average	Youngstown-Warren-Boardman, OH-PA	28	Much Higher than National Average
San Jose-Sunnyvale-Santa Clara, CA	24	Higher than National Average	San Antonio-New Braunfels, TX	27	Similar to National Average
San Antonio-New Braunfels, TX	22	Higher than National Average	Detroit-Warren-Dearborn, MI	27	Lower than National Average
Riverside-San Bernardino-Ontario, CA	21	Similar to National Average	Washington-Arlington-Alexandria, DC-VA-MD-WV	26	Much Lower than National Average
Pittsburgh, PA	21	Similar to National Average	Riverside-San Bernardino-Ontario, CA	26	Similar to National Average
Youngstown-Warren-Boardman, OH-PA	20	Much Higher than National Average	Portland-Vancouver-Hillsboro, OR-WA	26	Similar to National Average
Louisville/Jefferson County, KY-IN	20	Much Higher than National Average	Las Vegas-Henderson-Paradise, NV	25	Higher than National Average
Charlotte-Concord-Gastonia, NC-SC	19	Similar to National Average	Louisville/Jefferson County, KY-IN	22	Much Higher than National Average
Nashville-Davidson--Murfreesboro--Franklin, TN	18	Similar to National Average	Columbus, OH	21	Similar to National Average
Boise City, ID	18	Much Higher than National Average	San Jose-Sunnyvale-Santa Clara, CA	20	Similar to National Average
Virginia Beach-Norfolk-Newport News, VA-NC	17	Higher than National Average	Providence-Warwick, RI-MA	20	Much Higher than National Average
New Haven, CT (Metropolitan NECTA)	17	Much Higher than National Average	Pittsburgh, PA	20	Similar to National Average
Indianapolis-Carmel-Anderson, IN	17	Similar to National Average	Fresno, CA	20	Much Higher than National Average
Cleveland-Elyria, OH	17	Similar to National Average	Reno, NV	19	Much Higher than National Average
Tucson, AZ	16	Much Higher than National Average	Milwaukee-Waukesha-West Allis, WI	19	Similar to National Average
Oxnard-Thousand Oaks-Ventura, CA	15	Much Higher than National Average	Boise City, ID	19	Much Higher than National Average
Fresno, CA	15	Much Higher than National Average	Nashville-Davidson--Murfreesboro--Franklin, TN	18	Similar to National Average
New Orleans-Metairie, LA	14	Higher than National Average	New Haven, CT	17	Much Higher than National Average
Modesto, CA	14	Much Higher than National Average	Austin-Round Rock, TX	17	Similar to National Average
Columbus, OH	14	Lower than National Average	Virginia Beach-Norfolk-Newport News, VA-NC	16	Similar to National Average
Reno, NV	13	Much Higher than National Average	Tucson, AZ	16	Much Higher than National Average
Albuquerque, NM	13	Much Higher than National Average	Kansas City, MO-KS	16	Lower than National Average
Providence-Warwick, RI-MA	12	Similar to National Average	Buffalo-Cheektowaga-Niagara Falls, NY	16	Higher than National Average
Memphis, TN-MS-AR	12	Similar to National Average	Memphis, TN-MS-AR	15	Higher than National Average
Manchester, NH (Metropolitan NECTA)	12	Much Higher than National Average	Ann Arbor, MI	14	Much Higher than National Average
Gainesville, FL	12	Much Higher than National Average	Raleigh, NC	13	Similar to National Average
Des Moines-West Des Moines, IA	12	Much Higher than National Average	Bridgeport-Stamford-Norwalk, CT	13	Higher than National Average

Pharmacy Demand Report (PDR)

Pharmacy Technician

Job Postings Per State

State/Territory	Number of Employed Pharmacy Technicians According to BLS (as of May 2019)	2019						2020					
		Q1 (Includes Carryover from 2018)	Q2	Q3	Q4	Total	Postings Quotient for 2019	Q1 (Includes Carryover from 2019)	Q2	Q3	Q4	Total	Postings Quotient for 2020
Alabama	6,790	527	397	305	346	1,575	231.96	515	307	275	355	1,452	213.84
Alaska	590	98	48	51	56	253	428.81	73	44	62	62	241	408.47
Arizona	8,900	1,443	1,012	1,023	1,018	4,496	505.17	1,680	957	2,538	2,822	7,997	898.54
Arkansas	4,880	191	138	141	140	610	125.00	208	162	198	180	748	153.28
California	36,560	3,836	2,882	2,696	2,913	12,327	337.17	5,014	3,294	2,905	3,375	14,588	399.02
Colorado	5,600	902	640	625	705	2,872	512.86	1,201	504	655	903	3,263	582.68
Connecticut	3,870	381	306	261	326	1,274	329.20	566	359	338	391	1,654	427.39
Delaware	1,360	112	88	66	79	345	253.68	112	85	49	78	324	238.24
District of Columbia	670	111	73	65	74	323	482.09	115	78	52	67	312	465.67
Florida	29,800	2,636	1,770	1,536	1,999	7,941	266.48	3,052	1,770	1,903	2,186	8,911	299.03
Georgia	11,360	1,128	883	775	783	3,569	314.17	1,031	717	766	842	3,356	295.42
Hawaii	1,790	135	118	104	93	450	251.40	130	100	82	108	420	234.64
Idaho	2,190	189	109	124	165	587	268.04	225	106	185	196	5,432	2,480.37
Illinois	21,090	1,631	1,152	1,293	1,353	5,429	257.42	1,977	1,104	907	1,269	5,257	249.27
Indiana	9,610	1,102	765	674	799	3,340	347.55	1,214	713	550	1,084	3,561	370.55
Iowa	4,270	523	341	188	267	1,319	308.90	398	235	308	272	1,213	284.07
Kansas	4,220	594	364	268	297	1,523	360.90	418	208	262	360	1,248	295.73
Kentucky	8,840	637	495	586	514	2,232	252.49	751	468	495	564	2,278	257.69
Louisiana	6,150	479	419	304	466	1,668	271.22	710	462	330	397	1,899	308.78
Maine	2,270	165	166	157	156	644	283.70	208	120	91	115	534	235.24
Maryland	7,640	887	608	513	681	2,689	351.96	904	543	477	601	2,525	330.50
Massachusetts	9,150	1,308	1,060	786	996	4,150	453.55	1,522	946	783	979	4,230	462.30
Michigan	15,040	2,234	1,554	1,587	1,440	6,815	453.13	2,162	1,176	1,110	1,329	5,777	384.11
Minnesota	8,120	1,279	744	685	745	3,453	425.25	1,038	571	573	606	2,788	343.35
Mississippi	3,450	268	182	179	235	864	250.43	292	201	229	190	912	264.35
Missouri	9,970	849	621	470	608	2,548	255.57	919	563	507	544	2,533	254.06
Montana	1,180	86	103	53	68	310	262.71	129	77	103	79	388	328.81
Nebraska	2,510	302	220	185	177	884	352.19	312	214	228	165	919	366.14
Nevada	3,750	352	213	204	231	1,000	266.67	404	259	282	267	1,212	323.20
New Hampshire	1,870	262	223	217	227	929	496.79	344	248	306	376	1,274	681.28
New Jersey	9,810	1,347	993	866	923	4,129	420.90	1,450	1,086	682	949	4,167	424.77
New Mexico	2,340	224	147	146	138	655	279.91	227	115	140	130	612	261.54
New York	20,360	1,598	1,337	1,062	1,201	5,198	255.30	2,055	1,235	984	1,151	5,425	266.45
North Carolina	13,560	1,296	992	792	882	3,962	292.18	1,421	798	801	1,046	4,066	299.85
North Dakota	890	48	73	47	47	215	241.57	71	34	24	38	167	187.64
Ohio	16,470	2,015	1,549	1,524	1,370	6,458	392.11	2,558	1,452	1,553	1,909	7,472	453.67
Oklahoma	4,940	372	226	252	268	1,118	226.32	426	267	243	321	1,257	254.45
Oregon	4,900	628	433	375	484	1,920	391.84	581	296	237	380	1,494	304.90
Pennsylvania	18,250	1,992	1,549	1,258	1,409	6,208	340.16	2,297	1,326	951	1,206	5,780	316.71
Puerto Rico	5,530	38	37	28	21	124	22.42	40	8	43	36	127	22.97
Rhode Island	1,840	166	122	111	155	554	301.09	180	138	69	136	523	284.24
South Carolina	7,110	447	391	301	320	1,459	205.20	508	377	301	347	1,533	215.61
South Dakota	1,250	56	48	39	54	197	157.60	63	29	69	56	217	173.60
Tennessee	10,270	1,077	762	789	684	3,312	322.49	995	551	613	649	2,808	273.42
Texas	38,550	3,260	2,314	2,389	2,443	10,406	269.94	4,076	2,130	2,746	2,702	11,654	302.31
Utah	3,700	359	259	229	237	1,084	292.97	467	226	334	233	1,260	340.54
Vermont	740	91	56	45	64	256	345.95	68	48	68	37	221	298.65
Virginia	10,320	1,039	771	724	745	3,279	317.73	1,121	649	535	738	3,043	294.86
Washington	7,150	949	677	807	688	3,121	436.50	1,073	584	587	798	3,042	425.45
West Virginia	3,270	196	151	172	178	697	213.15	198	121	72	147	538	164.53
Wisconsin	7,990	1,063	615	527	601	2,806	351.19	952	593	453	582	2,580	322.90
Wyoming	570	35	40	21	26	122	214.04	34	18	25	34	111	194.74

Pharmacy Demand Report (PDR)

Pharmacy Technician

Job Postings in the Top 25 Metropolitan Statistical Areas (MSAs)

2019		2020			
Full Year		**Quarter 1**		**Quarter 2**	
Metro Area	Job Postings	Metro Area	Job Postings	Metro Area	Job Postings
New York-Newark-Jersey City, NY-NJ-PA	5,971	New York-Newark-Jersey City, NY-NJ-PA	2,238	New York-Newark-Jersey City, NY-NJ-PA	1,585
Chicago-Naperville-Elgin, IL-IN-WI	4,300	Chicago-Naperville-Elgin, IL-IN-WI	1,617	Los Angeles-Long Beach-Anaheim, CA	1,143
Los Angeles-Long Beach-Anaheim, CA	4,048	Los Angeles-Long Beach-Anaheim, CA	1,532	Chicago-Naperville-Elgin, IL-IN-WI	926
Dallas-Fort Worth-Arlington, TX	3,792	Dallas-Fort Worth-Arlington, TX	1,529	Phoenix-Mesa-Scottsdale, AZ	787
Detroit-Warren-Dearborn, MI	3,679	Phoenix-Mesa-Scottsdale, AZ	1,339	Boston-Cambridge-Nashua, MA-NH	759
Phoenix-Mesa-Scottsdale, AZ	3,585	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	1,306	Dallas-Fort Worth-Arlington, TX	753
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	3,352	Detroit-Warren-Dearborn, MI	1,219	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	725
Boston-Cambridge-Nashua, MA-NH	2,964	Boston-Cambridge-Nashua, MA-NH	1,198	Detroit-Warren-Dearborn, MI	719
Minneapolis-St. Paul-Bloomington, MN-WI	2,306	Houston-The Woodlands-Sugar Land, TX	895	San Francisco-Oakland-Hayward, CA	508
Miami-Fort Lauderdale-West Palm Beach, FL	2,255	Miami-Fort Lauderdale-West Palm Beach, FL	838	Miami-Fort Lauderdale-West Palm Beach, FL	473
Atlanta-Sandy Springs-Roswell, GA	2,202	Cleveland-Elyria, OH	823	Houston-The Woodlands-Sugar Land, TX	447
Seattle-Tacoma-Bellevue, WA	2,180	San Francisco-Oakland-Hayward, CA	823	Washington-Arlington-Alexandria, DC-VA-MD-WV	442
Houston-The Woodlands-Sugar Land, TX	2,161	Minneapolis-St. Paul-Bloomington, MN-WI	760	Tampa-St. Petersburg-Clearwater, FL	423
Washington-Arlington-Alexandria, DC-VA-MD-WV	2,023	Seattle-Tacoma-Bellevue, WA	732	Atlanta-Sandy Springs-Roswell, GA	414
San Francisco-Oakland-Hayward, CA	1,884	Denver-Aurora-Lakewood, CO	731	Minneapolis-St. Paul-Bloomington, MN-WI	409
Baltimore-Columbia-Towson, MD	1,806	Washington-Arlington-Alexandria, DC-VA-MD-WV	682	Cleveland-Elyria, OH	407
Denver-Aurora-Lakewood, CO	1,682	Atlanta-Sandy Springs-Roswell, GA	659	Seattle-Tacoma-Bellevue, WA	401
Pittsburgh, PA	1,649	Tampa-St. Petersburg-Clearwater, FL	636	Pittsburgh, PA	371
Tampa-St. Petersburg-Clearwater, FL	1,638	Indianapolis-Carmel-Anderson, IN	615	Baltimore-Columbia-Towson, MD	336
Kansas City, MO-KS	1,637	Pittsburgh, PA	598	Indianapolis-Carmel-Anderson, IN	332
Indianapolis-Carmel-Anderson, IN	1,541	Baltimore-Columbia-Towson, MD	589	Riverside-San Bernardino-Ontario, CA	317
Cleveland-Elyria, OH	1,473	St. Louis, MO-IL	584	Sacramento--Roseville--Arden-Arcade, CA	303
Nashville-Davidson--Murfreesboro--Franklin, TN	1,458	Orlando-Kissimmee-Sanford, FL	526	Denver-Aurora-Lakewood, CO	290
St. Louis, MO-IL	1,419	Riverside-San Bernardino-Ontario, CA	512	St. Louis, MO-IL	269
Portland-Vancouver-Hillsboro, OR-WA	1,411	San Diego-Carlsbad, CA	491	Milwaukee-Waukesha-West Allis, WI	269

Quarter 3		**Quarter 4**	
Metro Area	Job Postings	Metro Area	Job Postings
Phoenix-Mesa-Scottsdale, AZ	2,354	Phoenix-Mesa-Scottsdale, AZ	2,512
New York-Newark-Jersey City, NY-NJ-PA	1,083	New York-Newark-Jersey City, NY-NJ-PA	1,408
Los Angeles-Long Beach-Anaheim, CA	935	Los Angeles-Long Beach-Anaheim, CA	1,043
Dallas-Fort Worth-Arlington, TX	924	Chicago-Naperville-Elgin, IL-IN-WI	990
Chicago-Naperville-Elgin, IL-IN-WI	743	Boise City, ID	986
Boston-Cambridge-Nashua, MA-NH	696	Dallas-Fort Worth-Arlington, TX	950
Miami-Fort Lauderdale-West Palm Beach, FL	613	Boston-Cambridge-Nashua, MA-NH	804
Detroit-Warren-Dearborn, MI	587	Detroit-Warren-Dearborn, MI	743
Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	528	Philadelphia-Camden-Wilmington, PA-NJ-DE-MD	652
Houston-The Woodlands-Sugar Land, TX	502	Indianapolis-Carmel-Anderson, IN	622
Atlanta-Sandy Springs-Roswell, GA	495	Miami-Fort Lauderdale-West Palm Beach, FL	586
San Francisco-Oakland-Hayward, CA	494	Denver-Aurora-Lakewood, CO	576
Austin-Round Rock, TX	459	Cleveland-Elyria, OH	557
Cleveland-Elyria, OH	439	Seattle-Tacoma-Bellevue, WA	553
Minneapolis-St. Paul-Bloomington, MN-WI	434	Atlanta-Sandy Springs-Roswell, GA	524
Denver-Aurora-Lakewood, CO	413	San Francisco-Oakland-Hayward, CA	516
Seattle-Tacoma-Bellevue, WA	388	Houston-The Woodlands-Sugar Land, TX	508
Tampa-St. Petersburg-Clearwater, FL	367	Tampa-St. Petersburg-Clearwater, FL	471
Baltimore-Columbia-Towson, MD	321	Washington-Arlington-Alexandria, DC-VA-MD-WV	443
Orlando-Kissimmee-Sanford, FL	314	Minneapolis-St. Paul-Bloomington, MN-WI	414
Washington-Arlington-Alexandria, DC-VA-MD-WV	309	Baltimore-Columbia-Towson, MD	390
Pittsburgh, PA	301	Orlando-Kissimmee-Sanford, FL	353
Louisville/Jefferson County, KY-IN	279	Riverside-San Bernardino-Ontario, CA	352
Riverside-San Bernardino-Ontario, CA	268	Columbus, OH	337
Kansas City, MO-KS	263	Cincinnati, OH-KY-IN	335