

2019 NABP E-Profile Aggregate Data
a report for the
Pharmacy Workforce Center
October 2019

Introduction

In June 2019, the National Association of Boards of Pharmacy (NABP) arranged to provide the Pharmacy Workforce Center (PWC) a summary of demographic and practice-related information on United States-licensed pharmacists, as a follow up to a previous study based upon data as of April 2017.

Founded in 1904, NABP is the impartial professional organization that supports the state boards of pharmacy in protecting public health. NABP aims to ensure the public's health and safety through its pharmacist license transfer and pharmacist competence assessment programs, as well as through its VIPPS, VAWD, and DMEPOS accreditation programs its Verified Pharmacy inspection program, and its .Pharmacy initiative.

NABP's member boards of pharmacy are grouped into eight districts that include all 50 United States, the District of Columbia, Guam, Puerto Rico, the Virgin Islands, ten Canadian provinces, and the Bahamas. The Association is governed by its Executive Committee, whose officers and members are elected during the Association's Annual Meeting.

In 2011 NABP launched its e-profile system. Developing an online e-profile allows pharmacists and pharmacy technicians to purchase publications, and allows pharmacists to access CPE Monitor, examinations (NAPLEX, MPJE, FPGEE, Pre-NAPLEX, Pre-MPJE, and Pre-FPGEE), and License Transfer. CPE Monitor, through the collaborative efforts of NABP, the Accreditation Council for Pharmacy Education (ACPE), and ACPE providers, allows pharmacists to automatically keep track of CPE credits from ACPE-accredited providers electronically.

As of June 2019, 1,091,454 e-Profiles have been created in NABP's systems as part of examination registration, as well as CPE Monitor. This total includes pharmacists, pharmacy technicians, pharmacist interns, pharmacy students, technician trainees, and other professionals.

Data Collection

NABP staff ran a query of all active United States-licensed pharmacist records in the e-profile system. Due to historical variances in the information collected from registrants, including records migrated to the e-profile system which were created prior to March 2011, some of the totals below will not completely match other totals. The fields queried include:

- Gender
- Date of birth
- State/jurisdiction of residence
- State/jurisdiction of licensure
- Location of pharmacy school (US versus non-US)
- Name of pharmacy school (if within US)
- Degree type (Bachelors of Science-Pharmacy, Doctor of Pharmacy, etc.)
- Graduation date

Results
Demographics

Gender

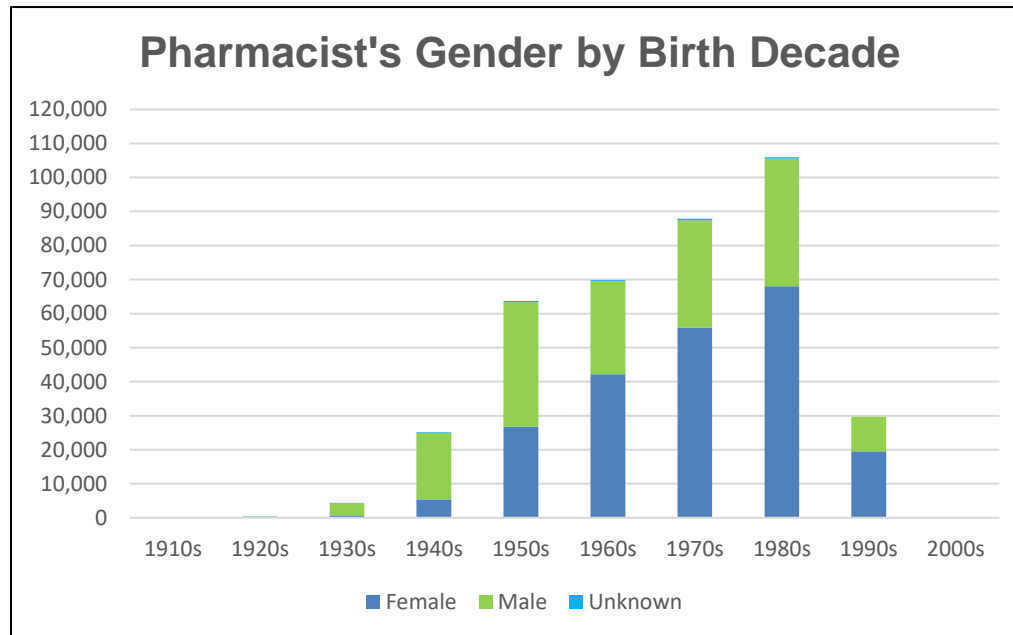
	Count	Percentage
Female	218,154	56.38%
Male	166,984	43.16%
Unknown	1,790	0.46%
Total	386,928	

Date of Birth

	Count	Percentage
1910s	0	0.00%
1920s	358	0.09%
1930s	4,328	1.12%
1940s	25,198	6.51%
1950s	63,723	16.47%
1960s	69,826	18.05%
1970s	87,893	22.72%
1980s	105,928	27.38%
1990s	29,674	7.67%
2000s	0	0.00%
Total	386,928	

Date of Birth by Gender

	Female	% of Group	Male	% of Group	Unknown	% of Group
1910s	0	N/A	0	N/A	0	N/A
1920s	30	8%	326	91%	2	1%
1930s	490	11%	3,807	88%	31	1%
1940s	5,192	21%	19,804	79%	202	1%
1950s	26,784	42%	36,539	57%	400	1%
1960s	42,209	60%	27,334	39%	283	0%
1970s	55,914	64%	31,489	36%	490	1%
1980s	68,010	64%	37,536	35%	382	0%
1990s	19,525	66%	10,149	34%	0	0%
2000s	0	N/A	0	N/A	0	N/A
	<u>218,154</u>		<u>166,984</u>		<u>1,790</u>	



Residence

All pharmacist e-profiles included in the query were attributed to United States residents. The number of pharmacists residing in each state/territory, according to the state of residence listed in each pharmacist's e-profile, is detailed below.

State/Territory of Residence

United States

States/Territory	Count
AK	722
AL	6,817
AR	4,012
AZ	8,049
CA	35,148
CO	6,231
CT	4,138
DC	486
DE	978
FL	25,082
GA	11,759
GU	68
HI	1,500
IA	4,054
ID	1,816
IL	14,929
IN	8,309
KS	4,058
KY	6,322
LA	6,046
MA	9,487
MD	8,488
ME	1,624
MI	11,857
MN	7,166

State/Territory of Residence

United States (Continued)

United States	Count
MO	7,624
MS	3,530
MT	1,512
NC	13,423
ND	1,096
NE	2,862
NH	1,677
NJ	14,100
NM	2,377
NV	2,718
NY	22,181
OH	16,366
OK	4,697
OR	4,613
PA	18,584
PR	2,476
RI	1,668
SC	6,646
SD	1,443
TN	9,678
TX	27,016
UT	3,190
VA	9,410
VI	47
VT	685
WA	8,032
WI	6,610
WV	2,740
WY	739
APO/FPO-AA (Americas)	0
APO-FPO-AE (Europe)	28
APO-FPO-AP (Pacific)	10
American Samoa	1
Northern Marianas	3
Total	386,928

Licensure

Data on the number of pharmacists licensed by each state/territory was obtained from the NABP 2019 *Survey of Pharmacy Law*. Data included in the *Survey of Pharmacy Law* is updated by the state boards of pharmacy on an annual basis.

State/Territory of Licensure

United States

State	Count
AK	1,083
AL	9,581
AR	6,169
AZ	11,461
CA	44,864
CO	8,351
CT	5,545
DC	1,886
DE	2,208
FL	37,366
GA	15,216
GU	197
HI	2,763
IA	11,521
ID	2,399
IL	18,184
IN	10,817
KS	6,533
KY	9,889
LA	8,780
MA	13,259
MD	11,700
ME	2,284
MI	15,719
MN	8,911
MO	10,770
MS	6,211
MT	2,104

State/Territory of Licensure

United States (Continued)

State	Count
NC	16,517
ND	2,257
NE	5,158
NH	2,780
NJ	17,656
NM	3,027
NV	7,721
NY	27,113
OH	20,349
OK	7,074
OR	8,019
PA	22,781
PR	5,340
RI	2,185
SC	9,045
SD	2,080
TN	12,180
TX	46,835
UT	3,270
VA	14,976
VI	Data not available
VT	1,180
WA	10,490
WI	5,834
WV	4,780
WY	1,407
Total	545,825

Education*

*Educational achievement is not a required part of profile creation, so totals are lower. Education information is required when registering for examinations only. There were 94,269 records with no education information.

Location of Pharmacy School

Location	Count
US	280,957
Non-US	11,330
No Location in Record	372
Total	292,659

Degree Type

Degree	Count	Percentage
Bachelors of Science-Pharmacy	68,415	23.4%
Master of Science-Pharmacy	0	0.0%
Doctor of Pharmacy	197,432	67.5%
Non US	11,252	3.8%
Other	0	0.0%
No Degree in record	15,560	5.3%
Total	292,659	

Graduation Date

Date	Count	Percentage
Prior to 1/1/1940	0	0.0%
1/1/1940-12/31/1949	4	0.0%
1/1/1950-12/31/1959	370	0.1%
1/1/1960-12/31/1969	3,488	1.2%
1/1/1970-12/31/1979	16,639	5.7%
1/1/1980-12/31/1989	26,732	9.1%
1/1/1990-12/31/1999	49,056	16.8%
1/1/2000-12/31/2009	84,374	28.8%
1/1/2010-Present	107,649	36.8%
No Date in Record	4,347	1.5%
Total	292,659	

School of Pharmacy

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
001-Auburn University	708	2,111	351	3,170
002-Samford University	963	2,371	69	3,403
003- University of Arizona	372	1,709	31	2,112
004-University of Arkansas	482	2,235	14	2,731
005-University of California, San Francisco	4	2,508	4	2,516
006-University of the Pacific	133	3,991	20	4,144
007-University of Southern California	14	3,776	10	3,800
008-University of Colorado	517	2,049	500	3,066
009-University of Connecticut	986	1,504	202	2,692
010-Howard University	533	1,381	29	1,943
011-Florida A&M University	365	2,382	77	2,824
012-University of Florida	706	5,099	84	5,889
013-Mercer University	244	3,216	56	3,516
014-University of Georgia	1,194	2,245	141	3,580
015-Idaho State University	323	1,429	21	1,773
016-University of Illinois, Chicago	904	3,750	52	4,706
017-Butler University	852	1,900	160	2,912
018-Purdue University	1,947	2,766	353	5,066
019-Drake University	1,113	2,000	138	3,251
020-University of Iowa	1,057	2,068	81	3,206
021-University of Kansas	973	2,228	104	3,305
022-University of Kentucky	968	2,339	95	3,402
023-University of Louisiana at Monroe Court	1,050	1,346	679	3,075
024-Xavier University of Louisiana	622	2,702	50	3,374
025-University of Maryland	856	2,651	33	3,540
026-Massachusetts College of Pharmacy, Boston	2,415	3,993	1,158	7,566
027-Northeastern University	1,143	1,788	211	3,142
028-Ferris State University	1,515	1,950	479	3,944
029-University of Michigan	250	1,594	20	1,864
030-Wayne State University	915	1,060	397	2,372
031-University of Minnesota	741	2,660	87	3,488
032-University of Mississippi	1,119	1,549	66	2,734
033-St Louis College of Pharmacy	1,976	2,454	596	5,026
034-University of Missouri Kansas City	702	1,796	78	2,576
035-University of Montana	538	1,019	138	1,695
036-Creighton University	619	3,222	25	3,866
037-University of Nebraska	113	1,660	16	1,789

School of Pharmacy (Continued)

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
038-Rutgers, the State University of New Jersey	1,340	3,013	382	4,735
039-University of New Mexico	688	1,452	157	2,297
040-Columbia University	129	5	19	153
041-Fordham University	79	1	9	89
042-Long Island University	2,130	2,815	578	5,523
043-St John's University	2,569	3,142	798	6,509
044-State University of New York at Buffalo	510	1,744	337	2,591
045-Albany College of Pharmacy	892	2,735	717	4,344
046-University of North Carolina, Chapel Hill	1,595	2,699	142	4,436
047-North Dakota State University	798	1,654	29	2,481
048-Ohio Northern University	1,615	2,394	458	4,467
049-Ohio State University	1,427	1,799	371	3,597
050-University of Cincinnati Medical Center	627	1,282	409	2,318
051-University of Toledo	1,077	1,401	343	2,821
052-Southwestern Oklahoma State University	1,382	1,284	265	2,931
053-University of Oklahoma	816	1,683	178	2,677
054-Oregon State University	1,020	1,133	273	2,426
055-Duquesne University	1,276	2,784	200	4,260
056-University of the Sciences in Philadelphia	2,316	3,312	488	6,116
057-Temple University	1,554	2,167	277	3,998
058-University of Pittsburgh	1,169	1,784	145	3,098
059-University of Puerto Rico	566	453	243	1,262
060-University of Rhode Island	1,047	1,579	176	2,802
061-Medical University of South Carolina (graduates prior to 2010)	986	623	99	1,708
062-University of South Carolina (graduates prior to 2010)	314	791	98	1,203
063-South Dakota State University	652	1,270	24	1,946
064-University of Tennessee, Memphis	470	3,112	27	3,609
065-Texas Southern University	505	1,704	171	2,380
066-University of Houston	967	1,888	146	3,001
067-University of Texas at Austin	1,480	2,282	191	3,953
068-University of Utah	534	800	164	1,498
069-Virginia Commonwealth University	938	2,135	77	3,150
070-University of Washington	528	1,502	77	2,107
071--Washington State University	554	1,492	56	2,102
072-West Virginia State University	1,020	1,320	132	2,472
073-University of Wisconsin-Madison	1,245	2,198	178	3,621
074-University of Wyoming	521	793	54	1,368
075-Campbell University	6	2,261	1	2,268

School of Pharmacy (Continued)

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
076-Nova Southeastern University	139	3,748	27	3,914
077-Midwestern University	423	2,524	375	3,322
078-Texas Tech University	2	1,734	3	1,739
080-Wilkes University	1	1,131	0	1,132
081-Shenandoah University	1	1,451	3	1,455
082-Midwestern University-Glendale	6	2,016	5	2,027
083-Hampton University	3	724	0	727
084-Western University of Health Sciences	12	1,618	1	1,631
085-Massachusetts College of Pharmacy, Worcester	14	2,672	1	2,687
086-Palm Beach Atlantic College	0	840	1	841
087-Roseman University of Health Sciences	5	2,332	1	2,338
088-Lake Erie College of Osteopathic Medicine School of Pharmacy	5	2,281	2	2,288
089-Loma Linda University	4	625	1	630
090-University of California, San Diego	7	668	0	675
091-South University School of Pharmacy	1	1,128	1	1,130
092-Wingate University School of Pharmacy	1	807	0	808
093-Sullivan University	2	631	1	634
094-California Northstate	1	449	0	450
095-Thomas Jefferson University	2	398	0	400
096-Harding University	0	361	0	361
097-Touro University	3	699	0	702
098-University of Hawaii	2	514	0	516
099-Southern Illinois University	1	705	0	706
100-St. John Fisher College	5	554	0	559
101-Northeast Ohio Medical University	3	496	0	499
102-University of Findlay	1	485	2	488
103-Pacific University	12	821	3	836
104-South Carolina College	86	1,530	3	1,619
105-East Tennessee State University	0	631	0	631
106-Texas A&M	1	612	2	615
107-University of the Incarnate Word	5	649	0	654
108-Appalachian College of Pharmacy	0	644	0	644
109-University of Charleston	2	578	0	580
110-Belmont University	0	451	0	451

School of Pharmacy (Continued)

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
111-Chicago State University	4	424	0	428
112-Lipscomb University	2	460	0	462
113-Touro New York	0	429	1	430
114-Union University	10	311	0	321
115-Notre Dame of Maryland University	0	286	0	286
116-Husson College	2	241	0	243
117-Regis University	0	317	0	317
118-University of New England	0	447	2	449
119-Concordia University School of Pharmacy	1	331	0	332
120-D'Youville School of Pharmacy	0	258	0	258
121-Presbyterian College School of Pharmacy	5	305	0	310
122-University of Maryland Eastern Shore School of Pharmacy	2	287	0	289
123-Philadelphia College of Osteopathic Medicine School of Pharmacy	17	350	2	369
124-University of Saint Joseph School of Pharmacy	0	316	0	316
125-University of South Florida	0	251	0	251
126-Roosevelt University	0	223	2	225
127-Rosalind Franklin Univ of Medicine & Sci Coll of Pharmacy	0	182	0	182
128-Manchester College of Pharmacy	4	132	0	136
129-Western New England Univ Coll of Pharmacy	0	236	0	236
130-Cedarville Univ Schl of Pharmacy	0	120	0	120
131-South College	2	281	1	284
132-Fairleigh Dickinson Univ Schl of Pharmacy	0	139	1	140
133-Marshall Univ Schl of Pharmacy	0	187	0	187
134- Univ of North Texas System Coll of Pharmacy	0	89	0	89
135-California Health Sciences Univ College of Pharmacy	1	16	0	17
136-Keck Graduate Institute Schl of Pharmacy	0	17	0	17
137-West Coast Univ Schl of Pharmacy	1	10	0	11
138-Chapman University School of Pharmacy	0	22	0	22
139-Univ of Texas at Tyler Ben and Maytee Fisch College of Pharmacy	0	8	0	8

School of Pharmacy (Continued)

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
140- High Point University Fred Wilson School of Pharmacy	0	0	0	0
141-Larkin Health Sciences Institute College of Pharmacy	0	1	0	1
142- Marshall B. Ketchum University College of Pharmacy	0	0	0	0
143-Binghamton Univ School of Pharmacy and Pharmaceutical Sciences	0	0	0	0
144-Medical College of Wisconsin School of Pharmacy	1	0	0	1
145- University of Texas El Paso School of Pharmacy	0	0	0	0
202-Dalhousie University, Halifax	4	0	2	6
205-Memorial University of Newfoundland	0	0	1	1
300-Lebanese American University	5	140	2	147
Total	68,085	197,310	15,560	280,955
Total Percentage	24%	70%	6%	