

2022 NABP E-Profile Aggregate Data
a report for the
Pharmacy Workforce Center
October 2022

Introduction

In 2022, 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 October 2021.

Founded in 1904, NABP is the impartial 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 Digital Pharmacy (formerly VIPPS), Drug Distributor (formerly VAWD), DMEPOS Pharmacy, and Healthcare Merchant accreditation programs, and its Verified Pharmacy and Supply Chain Inspection programs.

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 September 30, 2022, 1,333,988 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

In October 2022, NABP staff ran a query of all active United States-licensed pharmacist records in the e-Profile system. Generally, the data in the e-Profile system is self-reported by the profile holder. 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	241,519	58.05%
Male	173,332	41.66%
Not Specified	1,193	0.29%
Total	416,044	

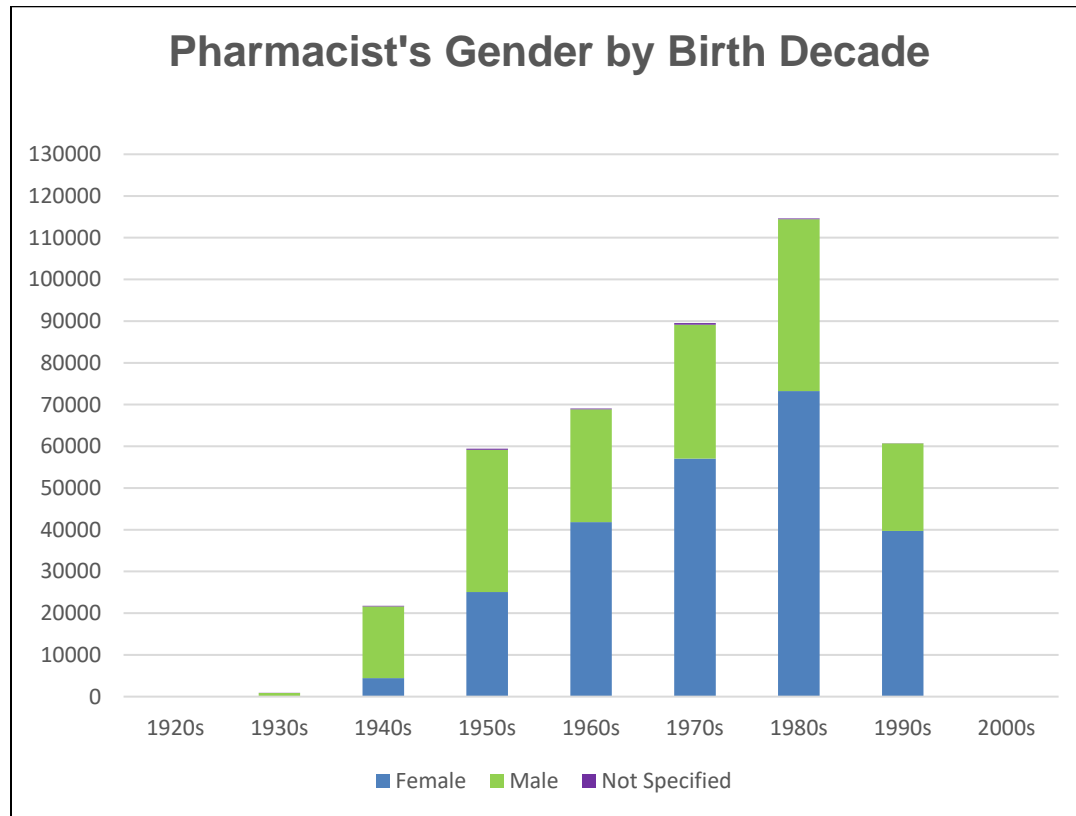
Date of Birth*

	Count	Percentage
1920s	34	0.01%
1930s	885	0.21%
1940s	21,770	5.23%
1950s	59,427	14.28%
1960s	69,055	16.60%
1970s	89,551	21.52%
1980s	114,629	27.55%
1990s	60,691	14.59%
2000s	2	0.00%
	416,044	

*No active US-licensed pharmacists with a date of birth prior to 1920.

Date of Birth by Gender

	Female	% of Group	Male	% of Group	Not Specified	% of Group
1920s	2	6%	32	94%	0	0%
1930s	109	12%	769	87%	7	1%
1940s	4,457	20%	17,165	79%	148	1%
1950s	25,088	42%	34,076	57%	263	0%
1960s	41,838	61%	27,044	39%	173	0%
1970s	57,054	64%	32,085	36%	412	0%
1980s	73,239	64%	41,203	36%	187	0%
1990s	39,730	65%	20,958	35%	3	0%
2000s	2	0.00%	0	0.00%	0	0.00%
	241,519		173,332		1,193	



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

State/Territory	Count
AK	747
AL	6,918
AR	4,293
AZ	8,690
CA	39,028
CO	6,662
CT	4,410
DC	488
DE	1,083
FL	27,116
GA	12,821
GU	71
HI	1,661
IA	3,967
ID	2,139
IL	15,954
IN	9,237
KS	4,172
KY	6,607
LA	6,594
MA	10,168
MD	8,797
ME	1,749
MI	12,241
MN	7,681

State/Territory of Residence

United States (Continued)

State/Territory	Count
MO	7,965
MS	3,898
MT	1,623
NC	14,263
ND	1,242
NE	3,003
NH	1,829
NJ	15,046
NM	2,445
NV	3,061
NY	23,909
OH	16,536
OK	5,028
OR	4,930
PA	19,941
PR	2,464
RI	1,797
SC	7,180
SD	1,483
TN	10,469
TX	30,666
UT	3,414
VA	10,156
VI	46
VT	747
WA	8,666
WI	7,227
WV	2,869
WY	766
APO/FPO-AA (Americas)	0
APO-FPO-AE (Europe)	52
APO-FPO-AP (Pacific)	29
American Samoa	0
Northern Marianas	0
Total	416,044

Licensure

Data on the number of pharmacists licensed by each state/territory was obtained from the NABP 2023 *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/Territory	Count
AK	1,002
AL	9,606
AR	6,948
AZ	12,051
CA	48,915
CO	8,874
CT	5,545
DC	2,036
DE	2,415
FL	35,824
GA	15,216
GU	197
HI	2,451
IA	6,522
ID	3,911
IL	21,122
IN	11,497
KS	8,065
KY	10,939
LA	9,572
MA	14,555
MD	12,228
ME	2,343
MI	16,867
MN	9,354
MO	11,878
MS	6,789
MT	2,288

State/Territory of Licensure

United States (Continued)

State/Territory	Count
NC	17,617
ND	2,431
NE	5,495
NH	2,827
NJ	18,019
NM	3,158
NV	7,721
NY	29,564
OH	21,740
OK	8,150
OR	8,737
PA	24,587
PR	5,340
RI	2,185
SC	9,217
SD	2,124
TN	12,556
TX	36,154
UT	4,257
VA	16,079
VI	Data not available
VT	1,404 ¹
WA	11,001
WI	8,942
WV	5,760
WY	1,452
Total	565,527

¹ Vermont data obtained from Vermont Office of Professional Regulation website.

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 79,042 records with no education information.

Location of Pharmacy School

Location	Count
US	319,914
Non-US	12,971
No Location in Record	4,117
Total	337,002

Degree Type

Degree	Count	Percentage
Bachelors of Science-Pharmacy	67,616	20.06%
Master of Science-Pharmacy	0	0.00%
Doctor of Pharmacy	238,393	70.74%
Non-US	12,971	3.85%
Other	0	0.00%
No Degree in record	18,022	5.35%
Total	337,002	

Graduation Date

Date	Count	Percentage
Prior to 1/1/1940	0	0.00%
1/1/1940-12/31/1949	3	0.00%
1/1/1950-12/31/1959	95	0.03%
1/1/1960-12/31/1969	2,602	0.77%
1/1/1970-12/31/1979	15,754	4.67%
1/1/1980-12/31/1989	28,054	8.32%
1/1/1990-12/31/1999	52,187	15.49%
1/1/2000-12/31/2009	86,741	25.74%
1/1/2010-12/31/2019	127,302	37.77%
1/1/2020-Present	20,787	6.17%
No Date in Record	3,477	1.03%
Total	337,002	

School of Pharmacy

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
001-Auburn University	754	2,431	298	3,483
002-Samford University	915	2,620	60	3,595
003-University of Arizona	311	2,115	24	2,450
004-University of Arkansas	489	2,505	15	3,009
005-University of California, San Francisco	6	2,863	1	2,870
006-University of the Pacific	138	4,505	19	4,662
007-University of Southern California	14	4,262	8	4,284
008-University of Colorado	561	2,440	452	3,453
009-University of Connecticut	1,022	1,670	189	2,881
010-Howard University	517	1,529	22	2,068
011-Florida A&M University	371	2,679	72	3,122
012-University of Florida	700	5,808	75	6,583
013-Mercer University	263	3,548	46	3,857
014-University of Georgia	1,248	2,575	129	3,952
015-Idaho State University	317	1,700	17	2,034
016-University of Illinois, Chicago	885	4,288	45	5,218
017-Butler University	884	2,265	151	3,300
018-Purdue University	1,998	3,209	361	5,568
019-Drake University	973	2,303	118	3,394
020-University of Iowa	882	2,429	64	3,375
021-University of Kansas	881	2,711	81	3,673
022-University of Kentucky	952	2,644	86	3,682
023-University of Louisiana at Monroe Court	1,140	1,733	633	3,506
024-Xavier University of Louisiana	602	3,280	48	3,930
025-University of Maryland	760	3,065	23	3,848
026-Massachusetts College of Pharmacy, Boston	2,535	4,648	1,047	8,230
027-Northeastern University	1,181	2,055	186	3,422
028-Ferris State University	1,411	2,467	429	4,307
029-University of Michigan	196	1,861	13	2,070
030-Wayne State University	852	1,415	359	2,626
031-University of Minnesota	729	3,032	80	3,841
032-University of Mississippi	1,137	1,888	60	3,085
033-St Louis College of Pharmacy	2,011	2,926	538	5,475
034-University of Missouri Kansas City	650	2,179	66	2,895
035-University of Montana	535	1,147	121	1,803
036-Creighton University	562	3,620	14	4,196
037-University of Nebraska	100	1,845	10	1,955

School of Pharmacy (Continued)

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
038-Rutgers, the State University of New Jersey	1,376	3,372	356	5,104
039-University of New Mexico	689	1,602	143	2,434
040-Columbia University	125	5	15	145
041-Fordham University	74	0	8	82
042-Long Island University	2,169	3,263	540	5,972
043-St John's University	2,677	3,681	741	7,099
044-State University of New York at Buffalo	540	2,041	308	2,889
045-Albany College of Pharmacy	1,004	3,271	664	4,939
046-University of North Carolina, Chapel Hill	1,636	3,099	129	4,864
047-North Dakota State University	765	1,919	27	2,711
048-Ohio Northern University	1,512	2,867	416	4,795
049-Ohio State University	1,314	2,242	344	3,900
050-University of Cincinnati Medical Center	630	1,596	358	2,584
051-University of Toledo	991	1,748	319	3,058
052-Southwestern Oklahoma State University	1,351	1,547	242	3,140
053-University of Oklahoma	787	1,933	160	2,880
054-Oregon State University	1,045	1,356	246	2,647
055-Duquesne University	1,271	3,286	180	4,737
056-University of the Sciences in Philadelphia	2,332	3,724	472	6,528
057-Temple University	1,570	2,523	254	4,347
058-University of Pittsburgh	1,151	2,078	126	3,355
059-University of Puerto Rico	568	493	225	1,286
060-University of Rhode Island	1,078	1,891	165	3,134
061-Medical University of South Carolina (graduates prior to 2010)	960	751	85	1,796
062-University of South Carolina (graduates prior to 2010)	334	939	91	1,364
063-South Dakota State University	585	1,523	20	2,128
064-University of Tennessee, Memphis	472	3,566	21	4,059
065-Texas Southern University	478	2,127	161	2,766
066-University of Houston	925	2,479	128	3,532
067-University of Texas at Austin	1,351	2,818	173	4,342
068-University of Utah	537	929	145	1,611
069-Virginia Commonwealth University	951	2,621	67	3,639
070-University of Washington	518	1,718	64	2,300
071-Washington State University	550	1,855	42	2,447
072-West Virginia State University	947	1,604	125	2,676
073-University of Wisconsin-Madison	1,267	2,513	166	3,946
074-University of Wyoming	489	929	47	1,465

School of Pharmacy (Continued)

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
075-Campbell University	5	2,525	0	2,530
076-Nova Southeastern University	143	4,242	22	4,407
077-Midwestern University	435	3,105	344	3,884
078-Texas Tech University	1	2,397	4	2,402
080-Wilkes University	1	1,312	1	1,314
081-Shenandoah University	2	1,732	2	1,736
082-Midwestern University-Glendale	6	2,536	4	2,546
083-Hampton University	2	887	0	889
084-Western University of Health Sciences	12	1,902	3	1,917
085-Massachusetts College of Pharmacy, Worcester	14	3,279	1	3,294
086-Palm Beach Atlantic College	0	997	2	999
087-Roseman University of Health Sciences	5	2,909	2	2,916
088-Lake Erie College of Osteopathic Medicine School of Pharmacy	5	2,991	5	3,001
089-Loma Linda University	5	809	2	816
090-University of California, San Diego	6	793	0	799
091-South University School of Pharmacy	1	1,389	0	1,390
092-Wingate University School of Pharmacy	2	1,044	1	1,047
093-Sullivan University	2	839	1	842
094-California Northstate	1	653	1	655
095-Thomas Jefferson University	2	571	0	573
096-Harding University	0	487	1	488
097-Touro University	3	907	1	911
098-University of Hawaii	2	679	0	681
099-Southern Illinois University	1	911	0	912
100-St. John Fisher College	5	743	0	748
101-Northeast Ohio Medical University	3	776	1	780
102-University of Findlay	2	698	2	702
103-Pacific University	13	1,107	1	1,121
104-South Carolina College	112	1,715	1	1,828
105-East Tennessee State University	0	806	1	807
106-Texas A&M	1	1,114	5	1,120
107-University of the Incarnate Word	5	1,086	0	1,091
108-Appalachian College of Pharmacy	1	838	2	841
109-University of Charleston	2	750	0	752
110-Belmont University	1	658	1	660

School of Pharmacy (Continued)

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
111-Chicago State University	4	598	0	602
112-Lipscomb University	2	619	0	621
113-Touro New York	0	595	3	598
114-Union University	9	435	1	445
115-Notre Dame of Maryland University	0	441	1	442
116-Husson College	2	359	0	361
117-Regis University	0	451	0	451
118-University of New England	0	635	0	635
119-Concordia University School of Pharmacy	1	511	1	513
120-D'Youville School of Pharmacy	0	410	0	410
121-Presbyterian College School of Pharmacy	4	457	1	462
122-University of Maryland Eastern Shore School of Pharmacy	2	434	0	436
123-Philadelphia College of Osteopathic Medicine School of Pharmacy	17	531	1	549
124-University of Saint Joseph School of Pharmacy	3	460	0	463
125-University of South Florida	0	451	0	451
126-Roosevelt University	0	387	1	388
127-Rosalind Franklin Univ of Medicine & Sci Coll of Pharmacy	0	323	0	323
128-Manchester College of Pharmacy	4	345	1	350
129-Western New England Univ Coll of Pharmacy	0	394	0	394
130-Cedarville Univ School of Pharmacy	0	261	0	261
131-South College	2	528	2	532
132-Fairleigh Dickinson Univ School of Pharmacy	0	284	1	285
133-Marshall Univ School of Pharmacy	0	385	0	385
134-Univ of North Texas System Coll of Pharmacy	0	481	2	483
135-California Health Sciences Univ College of Pharmacy	1	91	0	92
136-Keck Graduate Institute School of Pharmacy	0	107	0	107
137-West Coast Univ School of Pharmacy	1	69	0	70
138-Chapman University School of Pharmacy	0	131	0	131
139-Univ of Texas at Tyler Ben and Maytee Fisch College of Pharmacy	1	249	0	250

School of Pharmacy (Continued)

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
140-High Point University Fred Wilson School of Pharmacy	0	94	0	94
141-Larkin Health Sciences Institute College of Pharmacy	0	97	1	98
142-Marshall B. Ketchum University College of Pharmacy	0	32	0	32
143-Binghamton Univ School of Pharmacy and Pharmaceutical Sciences	0	37	0	37
144-Medical College of Wisconsin School of Pharmacy	1	62	0	63
145-University of Texas El Paso School of Pharmacy	0	64	0	64
146-William Carey University School of Pharmacy	0	56	0	56
147-American University of Health Sciences School of Pharmacy	1	0	0	1
300-Lebanese American University	0	168	1	169
Total	67,357	238,388	14,161	319,906
Total Percentage	21.1%	74.5%	4.4%	