2021 NABP E-Profile Aggregate Data a report for the Pharmacy Workforce Center

October 2021

Introduction

In September 2021, 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 2020.

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 Digital Pharmacy (formerly VIPPS), Drug Distributor (formerly VAWD), and DMEPOS Pharmacy accreditation programs, its Verified Pharmacy inspection program, and its .Pharmacy Verified Websites program.

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, 2021, 1,262,860 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 2021, 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. Additionally, 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		237,537	57.67%
Male		173,029	42.01%
Not Specified		1,295	0.31%
	Total	411,861	

Date of Birth*

	Count	Percentage
1920s	58	0.01%
1930s	1,307	0.32%
1940s	23,800	5.78%
1950s	62,676	15.22%
1960s	68,451	16.62%
1970s	89,675	21.77%
1980s	115,292	27.99%
1990s	50,602	12.29%
2000s	0	0.00%
	411,861	

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

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	Female	% of Group	Male	% of Group
1920s	8	14%	50	86%
1930s	148	11%	1,148	88%
1940s	4,844	20%	18,787	79%

42%

61%

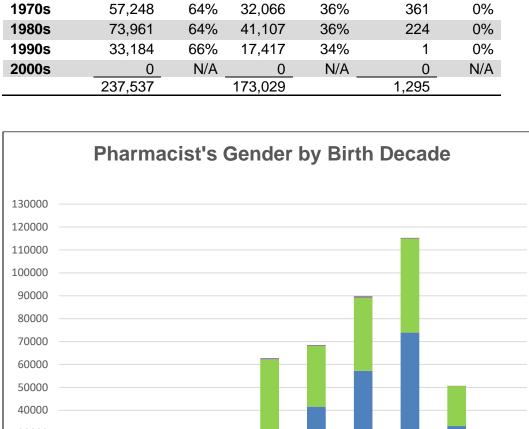
26,559

41,585

Date of Birth by Gender

1950s

1960s



35,800

26,654

% of

Group

0%

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11

169

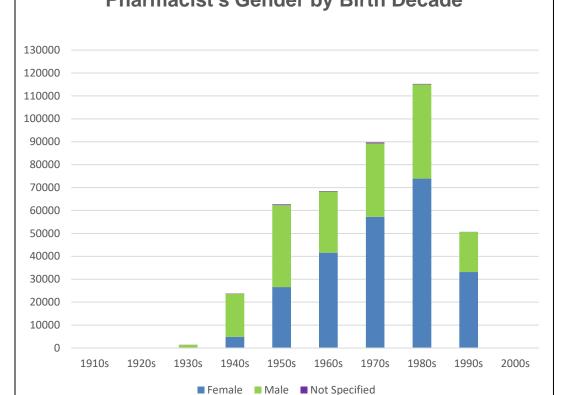
317

212

Not Specified

57%

39%



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	762
AL	6,952
AR	4,219
AZ	8,243
СА	38,032
CO	6,547
СТ	4,368
DC	496
DE	1,055
FL	27,508
GA	12,522
GU	65
HI	1,585
IA	4,257
ID	1,970
IL	15,774
IN	9,046
KS	4,435
KY	6,517
LA	6,508
MA	10,040
MD	8,783
ME	1,715
MI	12,107
MN	7,653

State/Territory of Residence

United States (Continued)

State/Territory	Count
MO	8,046
MS	3,767
МТ	1,591
NC	14,010
ND	1,206
NE	3,046
NH	1,777
NJ	14,809
NM	2,502
NV	3,070
NY	23,264
ОН	16,638
ОК	5,027
OR	5,097
PA	19,321
PR	2,476
RI	1,766
SC	7,139
SD	1,499
TN	10,319
ТХ	30,561
UT	3,425
VA	10,177
VI	50
VT	728
WA	8,596
WI	7,103
WV	2,847
WY	783
APO/FPO-AA (Americas)	0
APO-FPO-AE (Europe)	41
APO-FPO-AP (Pacific)	20
American Samoa	0
Northern Marianas	1
Total	411,861

Licensure

Data on the number of pharmacists licensed by each state/territory was obtained from the NABP 2022 *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	6,540
AZ	12,051
CA	48,204
CO	9,064
СТ	5,545
DC	2,036
DE	2,415
FL	35,824
GA	15,216
GU	197
HI	2,451
IA	6,581
ID	3,624
IL	21,122
IN	11,497
KS	7,717
KY	10,939
LA	9,317
MA	14,029
MD	12,228
ME	2,343
MI	16,867
MN	9,176
MO	11,822
MS	6,540
MT	2,200

State/Territory of Licensure

United States (Continued)

State/Territory	Count
NC	17,284
ND	2,238
NE	5,495
NH	2,827
NJ	18,019
NM	3,158
NV	7,721
NY	28,816
OH	21,906
OK	8,150
OR	9,006
PA	23,473
PR	5,340
RI	2,185
SC	9,184
SD	2,085
TN	12,556
ТХ	36,154
UT	4,257
VA	16,159
VI	Data not available
VT	1,227
WA	10,969
WI	8,942
WV	5,522
WY	1,437
Total	560,263

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 87,353 records with no education information.

Location of Pharmacy School

Location	Count
US	307,762
Non-US	12,432
No Location in Record	4,314
Total	324,508

Degree Type

Degree	Count	Percentage
Bachelors of Science- Pharmacy	67,932	20.93%
Master of Science-Pharmacy	0	0.00%
Doctor of Pharmacy	225,417	69.46%
Non-US	12,432	3.83%
Other	0	0.00%
No Degree in record	18,727	5.77%
Total	324,508	

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	216	0.07%
1/1/1960-12/31/1969	3,095	0.95%
1/1/1970-12/31/1979	16,691	5.14%
1/1/1980-12/31/1989	27,700	8.54%
1/1/1990-12/31/1999	51,205	15.78%
1/1/2000-12/31/2009	86,220	26.57%
1/1/2010-12/31/2019	124,996	38.52%
1/1/2020-Present	10,539	3.25%
No Date in Record	3,843	1.18%
Total	324,508	

School of Pharmacy

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
001-Auburn University	712	2,317	313	3,342
002-Samford University	886	2,528	65	3,479
003- University of Arizona	334	1,829	27	2,190
004-University of Arkansas	469	2,401	15	2,885
005-University of California, San Francisco	5	2,744	4	2,753
006-University of the Pacific	136	4,330	20	4,486
007-University of Southern California	12	4,112	9	4,133
008-University of Colorado	537	2,317	476	3,330
009-University of Connecticut	1,016	1,608	195	2,819
010-Howard University	510	1,493	22	2,025
011-Florida A&M University	360	2,609	76	3,045
012-University of Florida	685	5,582	78	6,345
013-Mercer University	256	3,431	54	3,741
014-University of Georgia	1,219	2,456	133	3,808
015-Idaho State University	326	1,547	19	1,892
016-University of Illinois, Chicago	912	4,101	56	5,069
017-Butler University	863	2,195	159	3,217
018-Purdue University	2,000	3,117	363	5,480
019-Drake University	1,114	2,161	134	3,409
020-University of Iowa	1,066	2,248	80	3,394
021-University of Kansas	995	2,459	101	3,555
022-University of Kentucky	940	2,542	89	3,571
023-University of Louisiana at Monroe Court	1,073	1,614	653	3,340
024-Xavier University of Louisiana	588	3,126	51	3,765
025-University of Maryland	760	2,971	26	3,757
026-Massachusetts College of Pharmacy, Boston	2,455	4,453	1,091	7,999
027-Northeastern University	1,161	1,975	196	3,332
028-Ferris State University	1,468	2,306	429	4,203
029-University of Michigan	226	1,775	17	2,018
030-Wayne State University	866	1,323	358	2,547
031-University of Minnesota	743	2,891	85	3,719
032-University of Mississippi	1,107	1,781	58	2,946
033-St Louis College of Pharmacy	1,991	2,760	560	5,311
034-University of Missouri Kansas City	697	2,045	76	2,818
035-University of Montana	537	1,093	125	1,755
036-Creighton University	623	3,465	24	4,112
037-University of Nebraska	114	1,791	12	1,917

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
038-Rutgers, the State University of New Jersey	1,335	3,274	366	4,975
039-University of New Mexico	691	1,556	147	2,394
040-Columbia University	134	6	17	157
041-Fordham University	79	1	12	92
042-Long Island University	2,138	3,097	556	5,791
043-St John's University	2,615	3,484	760	6,859
044-State University of New York at Buffalo 045-Albany College of Pharmacy	522 947	1,947 3,103	319 689	2,788 4,739
046-University of North Carolina, Chapel Hill	1,601	3,000	130	4,739
047-North Dakota State University	801	1,858	31	2,690
048-Ohio Northern University	1,555	2,749	427	4,731
049-Ohio State University	1,367	2,119	354	3,840
050-University of Cincinnati Medical Center	617	1,520	377	2,514
051-University of Toledo	1,027	1,659	316	3,002
052-Southwestern Oklahoma State University	1,366	1,456	259	3,081
053-University of Oklahoma	804	1,869	161	2,834
054-Oregon State University	1,037	1,270	252	2,559
055-Duquesne University	1,236	3,105	187	4,528
056-University of the Sciences in Philadelphia	2,295	3,584	473	6,352
057-Temple University	1,537	2,387	267	4,191
058-University of Pittsburgh	1,158	1,968	137	3,263
059-University of Puerto Rico	560	476	232	1,268
060-University of Rhode Island	1,064	1,774	170	3,008
061-Medical University of South Carolina (graduates prior to 2010)	965	692	92	1,749
062-University of South Carolina (graduates prior to 2010)	318	864	90	1,272
063-South Dakota State University	655	1,392	22	2,069
064-University of Tennessee, Memphis	475	3,397	23	3,895
065-Texas Southern University	495	2,068	170	2,733
066-University of Houston	933	2,375	141	3,449
067-University of Texas at Austin	1,390	2,711	189	4,290
068-University of Utah	540	897	150	1,587
069-Virginia Commonwealth University	922	2,532	67	3,521
070-University of Washington	528	1,639	68	2,235
071Washington State University	561	1,039	52	2,233
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072-West Virginia State University	971	1,531	124	2,626
073-University of Wisconsin-Madison	1,288	2,392	174	3,854
074-University of Wyoming	511	881	53	1,445
075-Campbell University	6	2,451	0	2,457

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
076-Nova Southeastern University	137	4,107	25	4,269
077-Midwestern University	430	2,922	347	3,699
078-Texas Tech University	1	2,253	5	2,259
080-Wilkes University	1	1,236	0	1,237
081-Shenandoah University	2	1,659	3	1,664
082-Midwestern University-Glendale	6	2,220	5	2,231
083-Hampton University	2	873	1	876
084-Western University of Health Sciences	12	1,825	2	1,839
085-Massachusetts College of Pharmacy, Worcester	14	3,098	2	3,114
086-Palm Beach Atlantic College	0	957	3	960
087-Roseman University of Health Sciences	5	2,706	3	2,714
088-Lake Erie College of Osteopathic Medicine School of Pharmacy	5	2,814	5	2,824
089-Loma Linda University	4	743	1	748
090-University of California, San Diego	6	750	0	756
091-South University School of Pharmacy	1	1,309	0	1,310
092-Wingate University School of Pharmacy	2	1,000	1	1,003
093-Sullivan University	2	788	2	792
094-California Northstate	1	578	1	580
095-Thomas Jefferson University	2	515	0	517
096-Harding University	0	449	1	450
097-Touro University	3	843	3	849
098-University of Hawaii	2	623	0	625
099-Southern Illinois University	1	844	0	845
100-St. John Fisher College	5	689	0	694
101-Northeast Ohio Medical University	3	705	1	709
102-University of Findlay	2	640	2	644
103-Pacific University	13	1,016	2	1,031
104-South Carolina College	102	1,693	2	1,797
105-East Tennessee State University	0	754	1	755
106-Texas A&M	1	1,009	5	1,015
107-University of the Incarnate Word	5	1,004	0	1,009
108-Appalachian College of Pharmacy	1	803	2	806
109-University of Charleston	2	709	0	711
110-Belmont University	1	584	1	586

School	Count Bachelor Degree	Count PharmD Degree	Count Undetermined	Total
111-Chicago State University	5	545	0	550
112-Lipscomb University	2	579	0	581
113-Touro New York	0	538	2	540
114-Union University	10	396	1	407
115-Notre Dame of Maryland University	0	408	1	409
116-Husson College	2	321	0	323
117-Regis University	0	416	1	417
118-University of New England	0	581	0	581
119-Concordia University School of Pharmacy	1	457	1	459
120-D'Youville School of Pharmacy	0	364	0	364
121-Presbyterian College School of Pharmacy	4	413	0	417
122-University of Maryland Eastern Shore School of Pharmacy	2	405	0	407
123-Philadelphia College of Osteopathic Medicine School of Pharmacy	17	477	1	495
124-University of Saint Joseph School of Pharmacy	1	405	0	406
125-University of South Florida	0	397	0	397
126-Roosevelt University	0	320	2	322
127-Rosalind Franklin Univ of Medicine & Sci Coll of Pharmacy	0	282	0	282
128-Manchester College of Pharmacy	4	300	0	304
129-Western New England Univ Coll of Pharmacy	0	337	0	337
130-Cedarville Univ Schl of Pharmacy	0	224	0	224
131-South College	2	454	3	459
132-Fairleigh Dickinson Univ Schl of Pharmacy	0	236	1	237
133-Marshall Univ Schl of Pharmacy	0	339	0	339
134- Univ of North Texas System Coll of Pharmacy	0	397	2	399
135-California Health Sciences Univ College of Pharmacy	1	58	0	59
136-Keck Graduate Institute Schl of Pharmacy	0	75	0	75
137-West Coast Univ Schl of Pharmacy	1	44	0	45
138-Chapman University School of Pharmacy	0	77	0	77
139-Univ of Texas at Tyler Ben and Maytee Fisch College of Pharmacy	0	189	1	190

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School	Count	Count	Count	Total
	Bachelor	PharmD	Undetermined	
	Degree	Degree		
140- High Point University Fred Wilson	0	38	0	38
School of Pharmacy				
141-Larkin Health Sciences Institute College	0	63	1	64
of Pharmacy				
142- Marshall B. Ketchum University College	0	12	0	12
of Pharmacy				
143-Binghamton Univ School of Pharmacy	0	2	0	2
and Pharmaceutical Sciences				
144-Medical College of Wisconsin School of	1	23	0	24
Pharmacy				
145- University of Texas El Paso School of	0	23	0	23
Pharmacy				
146-William Carey University School of	0	23	0	23
Pharmacy				
300-Lebanese American University	4	151	3	158
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Total	67,637	225,376	14,749	307,762
Total Percentage	22%	73%	5%	