



Distribution of Dialysis Patients Utilizing Home Modalities in 2012 by State

Peritoneal Dialysis Utilization Varies Widely By Race and State

- Nationally, 9.4 percent of dialysis patients received peritoneal dialysis (PD) in 2012
 - » This percentage varies by race from 11.4 percent for White dialysis patients to 8.3 percent for Hispanic dialysis patients and 6.6 percent for Black dialysis patients
- PD utilization also varies widely by state, from 3.3 percent of dialysis patients in the District of Columbia to 23.8 percent of dialysis patients in Idaho
 - » By race and state, the variances even wider:
 - White dialysis patients: 4.5 percent on PD in Rhode Island to 26.3 percent on PD in Alaska
 - Black dialysis patients: 0 percent on PD in North Dakota to 12.4 percent on PD in Connecticut
 - Asian dialysis patients: 0 percent on PD in Delaware to 20.7 percent on PD in North Carolina
 - Hispanic dialysis patients: 0 percent on PD in Kentucky to 17.9 percent on PD in Arkansas
- Nationally, Black dialysis patients are approximately 29 percent less likely than average to be receiving PD and Hispanic dialysis patients are approximately 11 percent less likely than average to be receiving PD

Home Hemodialysis Utilization Varies Widely By Race and State

- Nationally, 2.9 percent of dialysis patients received home hemodialysis (HHD) in 2012
 - » This percentage varies by race from 3.5 percent for White dialysis patients to 2.3 percent for Black dialysis patients and 1.9 percent for Hispanic dialysis patients
- HHD utilization also varies widely by state, from 0.4 percent of dialysis patients in Puerto Rico to 11.1 percent of dialysis patients in Illinois
 - » By race and state, the variance is even wider:
 - White dialysis patients: 0 percent on HHD in the District of Columbia to 12.6 percent on HHD in Illinois
 - Black dialysis patients: 0 percent on HHD in 6 states to 9.5 percent on HHD in Illinois
 - Asian dialysis patients: 0 percent on HHD in 12 states to 13.7 percent on HHD in Illinois
 - Hispanic dialysis patients: 0 percent on HHD in 7 states to 9.1 percent on HHD in Illinois
- Nationally, Black dialysis patients are approximately 19 percent less likely than average to be receiving HHD and Hispanic dialysis patients are approximately 33 percent less likely than average to be receiving HHD

Methodology

- Data is from the 2012 Medicare 100% Outpatient Standard Analytic File: This file contains all Medicare fee-for-service beneficiaries who received any dialysis during 2012. Beneficiaries enrolled in Medicare Advantage or non-Medicare plans are not included in this analysis.
- To identify all dialysis patients, Avalere used bill type "72" (outpatient dialysis). PD and HHD patients were identified using a combination of revenue codes and condition codes. Beneficiaries were counted in either the PD or HHD group if they had at least one claim during the year that met the criteria for the category. For the overall total patient counts, a beneficiary was counted only once regardless of the number of different modalities they may have used during a year.
- Avalere used the Medicare 100% Denominator Standard Analytic File to identify race and state of residence.

Figure 1: Medicare Peritoneal Dialysis Patients in 2012

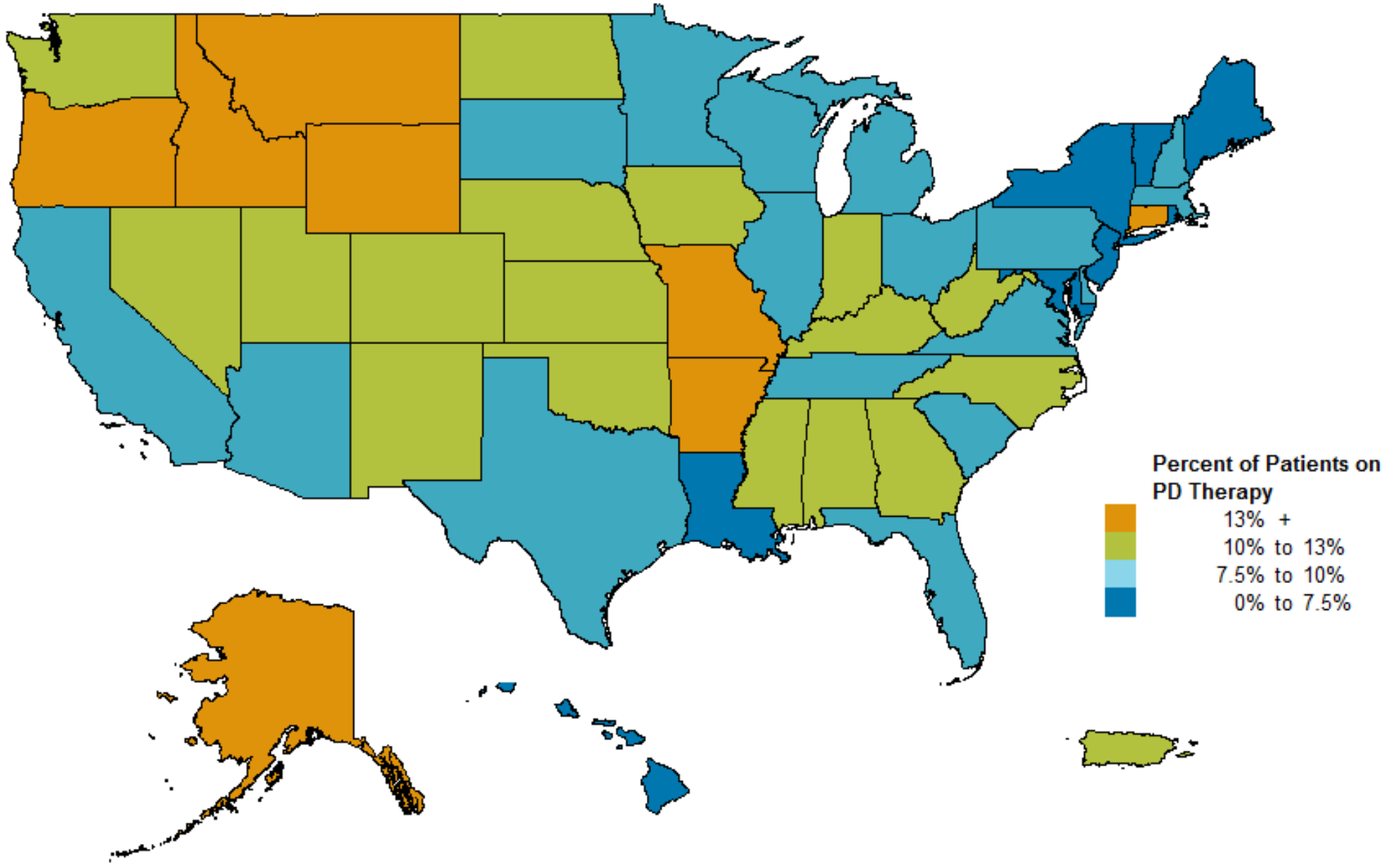
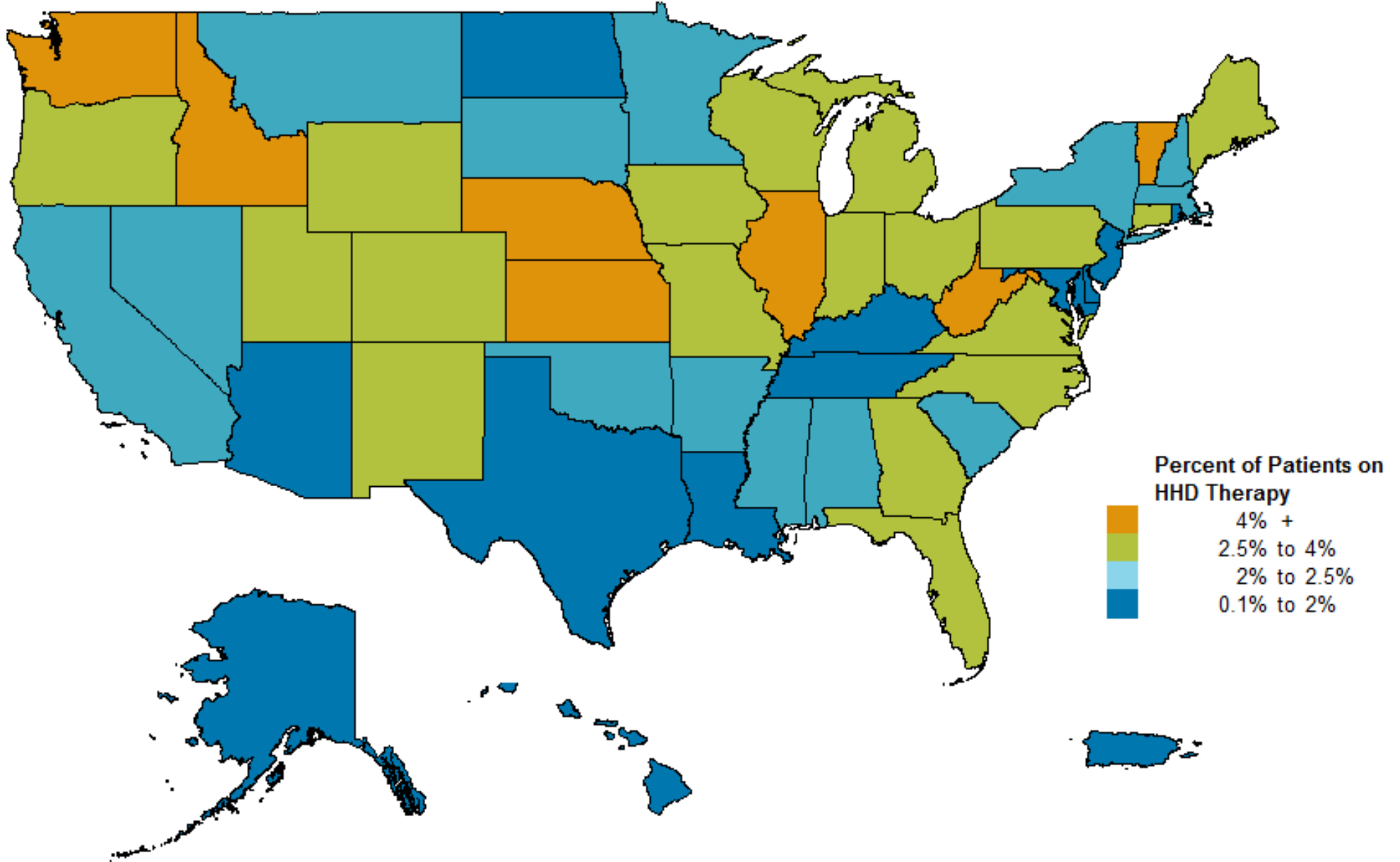


Figure 2: Medicare Home Hemodialysis Patients in 2012





2012 Medicare FFS Patients on Dialysis by Race and State

Source: 2012 Medicare 100% Outpatient Standard Analytic File

PD patients and HHD patients: includes any beneficiary during year who had at least 1 claim for modality All patients: includes unique number of Medicare beneficiaries with at least 1 claim for any type of outpatient chronic dialysis

State represents residence of beneficiary, not location of provider

** represents fewer than 11 patients

National totals include suppressed values

State	All patients on dialysis									Peritoneal dialysis patients												Home hemodialysis patients														
	Total	White		Black		Asian		Hispanic		Other		Total	% PD		White		Black		Asian		Hispanic		Other		Total	% HHD		White		Black		Asian		Hispanic		Other
Alabama	7,473	2,706	36.2%	4,655	62.3%	23	0.3%	30	0.4%	59	0.8%	755	10.1%	395	14.6%	342	7.3%	**	**	**	**	**	**	154	2.1%	97	3.6%	51	1.1%	**	**	0	0.0%	**	**	
Alaska	462	232	50.2%	60	13.0%	80	17.3%	**	**	82	17.7%	108	23.4%	61	26.3%	**	**	12	15.0%	**	**	25	30.5%	**	**	**	**	**	**	0	0.0%	0	**	**	**	
Arizona	5,971	3,181	53.3%	508	8.5%	86	1.4%	729	12.2%	1,467	24.6%	590	9.9%	369	11.6%	52	10.2%	11	12.8%	71	9.7%	87	5.9%	94	1.6%	70	2.2%	**	**	**	**	**	**	**		
Arkansas	3,696	1,964	53.1%	1,569	42.5%	28	0.8%	67	1.8%	68	1.8%	687	18.6%	467	23.8%	175	11.2%	**	**	12	17.9%	25	36.8%	91	2.5%	67	3.4%	21	1.3%	0	0.0%	**	**	**	**	
California	38,925	16,363	42.0%	6,008	15.4%	5,255	13.5%	8,166	21.0%	3,133	8.0%	3,601	9.3%	1,543	9.4%	422	7.0%	581	11.1%	701	8.6%	354	11.3%	851	2.2%	458	2.8%	126	2.1%	93	1.8%	109	1.3%	65	2.1%	
Colorado	2,975	1,935	65.0%	394	13.2%	89	3.0%	353	11.9%	204	6.9%	355	11.9%	264	13.6%	26	6.6%	**	**	31	8.8%	24	11.8%	87	2.9%	64	3.3%	12	3.0%	0	0.0%	**	**	**	**	
Connecticut	3,627	2,138	58.9%	1,191	32.8%	58	1.6%	143	3.9%	97	2.7%	487	13.4%	304	14.2%	148	12.4%	**	**	15	10.5%	12	12.4%	118	3.3%	77	3.6%	28	2.4%	**	**	**	**	**	**	
Delaware	1,516	663	43.7%	789	52.0%	11	0.7%	21	1.4%	32	2.1%	140	9.2%	77	11.6%	55	7.0%	0	0.0%	**	**	**	**	20	1.3%	**	**	**	**	0	0.0%	**	**	0	0.0%	
District of Columbia	1,668	51	3.1%	1,568	94.0%	**	**	32	1.9%	15	0.9%	55	3.3%	**	**	49	3.1%	0	**	**	**	**	**	19	1.1%	0	0.0%	19	1.2%	0	**	0	0.0%	**	**	
Florida	22,062	10,950	49.6%	8,711	39.5%	298	1.4%	1,501	6.8%	602	2.7%	2,180	9.9%	1,338	12.2%	583	6.7%	42	14.1%	125	8.3%	92	15.3%	787	3.6%	428	3.9%	261	3.0%	**	**	65	4.3%	26	4.3%	
Georgia	15,828	4,584	29.0%	10,615	67.1%	190	1.2%	212	1.3%	227	1.4%	1,698	10.7%	695	15.2%	900	8.5%	28	14.7%	25	11.8%	50	22.0%	444	2.8%	155	3.4%	268	2.5%	**	**	**	**	**	**	
Hawaii	1,925	248	12.9%	22	1.1%	894	46.4%	20	1.0%	741	38.5%	134	7.0%	24	9.7%	**	**	65	7.3%	**	**	39	5.3%	21	1.1%	**	**	**	**	**	**	0	0.0%	**	**	
Idaho	1,074	899	83.7%	12	1.1%	**	**	76	7.1%	80	7.4%	256	23.8%	220	24.5%	**	**	**	**	11	14.5%	22	27.5%	69	6.4%	61	6.8%	0	0.0%	0	**	**	**	**	**	
Illinois	17,164	8,792	51.2%	6,644	38.7%	388	2.3%	897	5.2%	443	2.6%	1,517	8.8%	971	11.0%	384	5.8%	43	11.1%	60	6.7%	59	13.3%	1,912	11.1%	1,104	12.6%	634	9.5%	53	13.7%	82	9.1%	39	8.8%	
Indiana	7,794	5,206	66.8%	2,302	29.5%	43	0.6%	116	1.5%	127	1.6%	936	12.0%	733	14.1%	160	7.0%	**	**	11	9.5%	25	19.7%	239	3.1%	172	3.3%	56	2.4%	**	**	**	**	**	**	
Iowa	2,760	2,367	85.8%	252	9.1%	31	1.1%	53	1.9%	57	2.1%	307	11.1%	272	11.5%	18	7.1%	**	**	**	**	**	**	85	3.1%	79	3.3%	**	**	0	0.0%	0	0.0%	**	**	
Kansas	2,761	1,909	69.1%	594	21.5%	39	1.4%	127	4.6%	92	3.3%	299	10.8%	242	12.7%	29	4.9%	**	**	11	8.7%	14	15.2%	139	5.0%	108	5.7%	20	3.4%	0	0.0%	**	**	**	**	
Kentucky	5,039	3,663	72.7%	1,283	25.5%	26	0.5%	17	0.3%	50	1.0%	559	11.1%	472	12.9%	77	6.0%	**	**	0	0.0%	**	**	100	2.0%	78	2.1%	19	1.5%	0	0.0%	0	0.0%	**	**	
Louisiana	7,883	2,315	29.4%	5,378	68.2%	53	0.7%	36	0.5%	101	1.3%	548	7.0%	245	10.6%	278	5.2%	**	**	**	**	**	**	94	1.2%	30	1.3%	58	1.1%	0	0.0%	**	**	**	**	
Maine	1,052	994	94.5%	20	1.9%	**	**	**	**	25	2.4%	77	7.3%	69	6.9%	**	**	**	**	**	**	**	**	27	2.6%	25	2.5%	0	0.0%	**	**	0	**	**	**	
Maryland	8,740	2,619	30.0%	5,646	64.6%	176	2.0%	117	1.3%	182	2.1%	596	6.8%	237	9.0%	292	5.2%	32	18.2%	**	**	28	15.4%	160	1.8%	60	2.3%	90	1.6%	**	**	**	**	**	**	
Massachusetts	5,320	3,725	70.0%	974	18.3%	156	2.9%	237	4.5%	228	4.3%	407	7.7%	269	7.2%	78	8.0%	11	7.1%	21	8.9%	28	12.3%	119	2.2%	89	2.4%	16	1.6%	**	**	**	**	**	**	
Michigan	12,974	6,926	53.4%	5,464	42.1%	109	0.8%	139	1.1%	336	2.6%	1,044	8.0%	669	9.7%	320	5.9%	11	10.1%	13	9.4%	31	9.2%	352	2.7%	208	3.0%	126	2.3%	**	**	**	**	11	3.3%	
Minnesota	3,818	2,845	74.5%	486	12.7%	154	4.0%	54	1.4%	279	7.3%	342	9.0%	249	8.8%	41	8.4%	19	12.3%	**	**	29	10.4%	93	2.4%	59	2.1%	14	2.9%	11	7.1%	**	**	**	**	
Mississippi	6,491	1,762	27.1%	4,563	70.3%	22	0.3%	15	0.2%	129	2.0%	719	11.1%	285	16.2%	418	9.2%	**	**	**	**	**	**	136	2.1%	65	3.7%	71	1.6%	0	0.0%	0	0.0%	0	0.0%	
Missouri	7,146	4,141	57.9%	2,749	38.5%	70	1.0%	59	0.8%	127	1.8%	970	13.6%	728	17.6%	194	7.1%	12	17.1%	**	**	31	24.4%	254	3.6%	172	4.2%	69	2.5%	**	**	**	**	**	**	
Montana	730	517	70.8%	**	**	**	**	**	**	200	27.4%	115	15.8%	102	19.7%	0	**	0	**	0	**	**	**	15	2.1%	15	2.9%	0	**	0	**	0	**	0	0.0%	
Nebraska	1,541	1,111	72.1%	257	16.7%	20	1.3%	55	3.6%	98	6.4%	173	11.2%	140	12.6%	17	6.6%	**	**	**	**	**	**	96	6.2%	81	7.3%	12	4.7%	0	0.0%	**	**	**	**	
Nevada	2,540	1,278	50.3%	521	20.5%	248	9.8%	258	10.2%	235	9.3%	301	11.9%	172	13.5%	44	8.4%	25	10.1%	26	10.1%	34	14.5%	63	2.5%	40	3.1%	**	**	**	**	**	**			
New Hampshire	864	765	88.5%	58	6.7%	**	**	**	**	26	3.0%	74	8.6%	64	8.4%	**	**	**	**	**	**	**	**	21	2.4%	18	2.4%	**	**	0	**	0	**	**	**	
New Jersey	11,956	5,875	49.1%	4,593	38.4%	455	3.8%	608	5.1%	425	3.6%	645	5.4%	357	6.1%	193	4.2%	31	6.8%	29	4.8%	35	8.2%	171	1.4%	90	1.5%	58	1.3%	**	**	**	**	**	**	
New Mexico	2,644	1,193	45.1%	91	3.4%	18	0.7%	384	14.5%	958	36.2%	308	11.6%	182	15.3%	**	**	**	**	40	10.4%	75	7.8%	86	3.3%	48	4.0%	**	**	0	0.0%	17	4.4%	18	1.9%	
New York	21,362	10,197	47.7%	7,725	36.2%	878	4.1%	1,371	6.4%	1,191	5.6%	1,218	5.7%	797	7.8%	239	3.1%	55	6.3%	59	4.3%	68	5.7%	452	2.1%	298	2.9%	108	1.4%	**	**	14	1.0%	24	2.0%	
North Carolina	14,265	4,796	33.6%	8,804	61.7%	111	0.8%	183	1.3%	371	2.6%	1,566	11.0%	788	16.4%	689	7.8%	23	20.7%	19	10.4%	47	12.7%	479	3.4%	256	5.3%	207	2.4%	**	**	**	**	**	**	
North Dakota	678	530	78.2%	11	1.6%	**	**	**	**	130	19.2%	84	12.4%	71	13.4%	0	0.0%	0	**	**	**	**	**	**	**	**	**	**	0	0.0%	0	**	0	**		
Ohio	13,633	8,182	60.0%	5,030	36.9%	82	0.6%	87	0.6%	252	1.8%	1,305	9.6%	968	11.8%	286	5.7%	**	**	**	**	**	**	392	2.9%	269	3.3%	114	2.3%	**	**	**	**	**	**	
Oklahoma	4,474	2,440	54.5%	945	21.1%	45	1.0%	123	2.7%	921	20.6%	555	12.4%	377	15.5%	82	8.7%	**	**	12	9.8%	76	8.3%	109	2.4%	72	3.0%	14	1.5%	**	**	**	**	19	2.1%	
Oregon	2,552	1,975	77.4%	168	6.6%	93	3.6%	155	6.1%	161	6.3%	334	13.1%	282	14.3%	12	7.1%	**	**	**	**	**	**	86	3.4%	72	3.6%	**	**	**	**	**	**			
Pennsylvania	12,591	8,003	63.6%	3,986	31.7%	141	1.1%	208																												