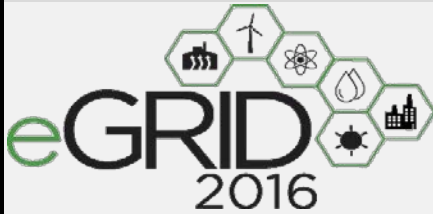


# eGRID Summary Tables 2016

## Introduction

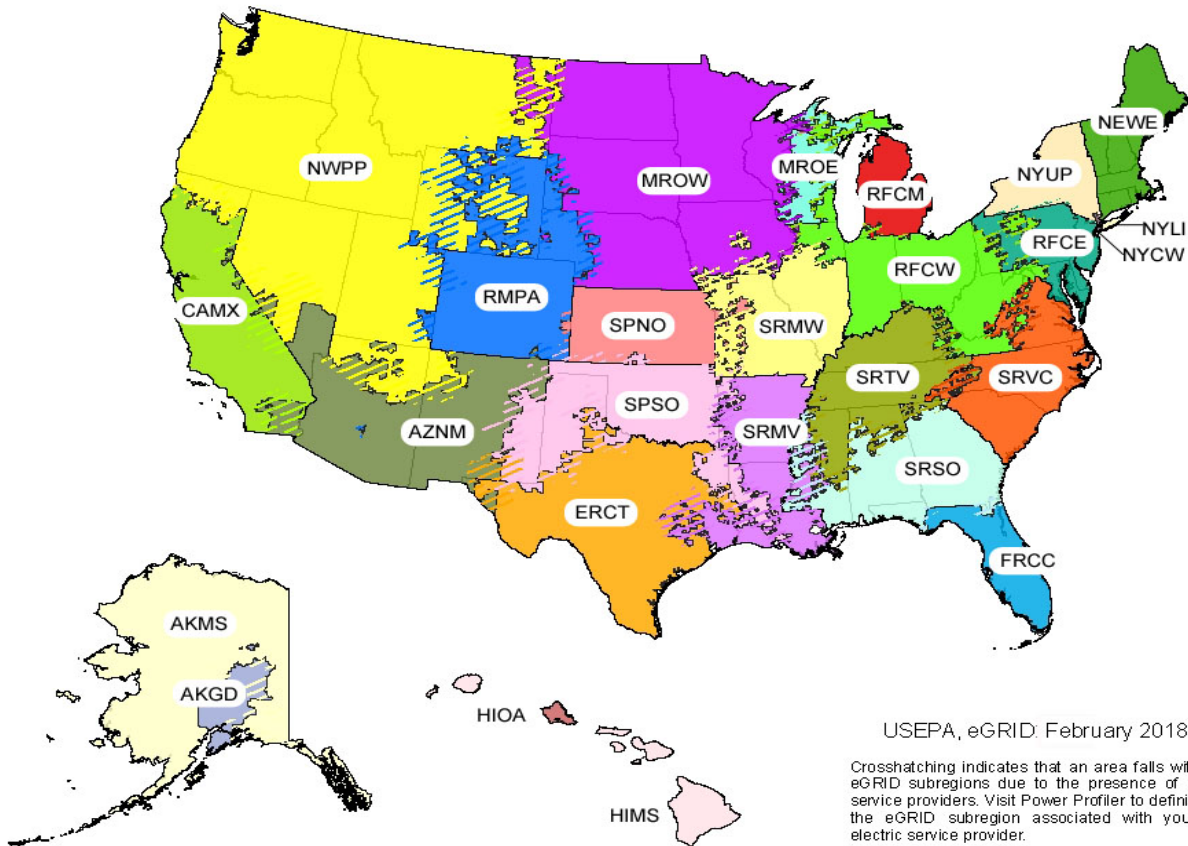


This document provides eGRID2016 data summary tables. The tables include subregion and state-level emission rates and resource mix as well as grid gross loss values. Please note that the tables presented here only show a subset of the eGRID2016 data. The entire dataset is in the eGRID2016 Excel file available on the eGRID website.

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Map of eGRID Subregions



## Feedback

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### 1. Subregion Output Emission Rates (eGRID2016)

eGRID subregion acronym	eGRID subregion name	Total output emission rates							Non-baseload output emission rates							Grid Gross Loss (%)
		lb/MWh							lb/MWh							
		CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e	Annual NO <sub>x</sub>	Ozone Season NO <sub>x</sub>	SO <sub>2</sub>	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e	Annual NO <sub>x</sub>	Ozone Season NO <sub>x</sub>	SO <sub>2</sub>	
AKGD	ASCC Alaska Grid	1,072.3	0.077	0.011	1,077.3	6.5	6.5	0.5	1,367.8	0.110	0.016	1,375.0	6.8	6.7	0.7	5.25%
AKMS	ASCC Miscellaneous	503.1	0.023	0.004	504.9	7.0	6.5	0.6	1,533.8	0.068	0.012	1,538.9	21.8	20.8	2.0	5.25%
AZNM	WECC Southwest	1,043.6	0.079	0.012	1,049.0	1.0	0.9	0.3	1,384.8	0.097	0.014	1,391.2	1.3	1.1	0.4	4.23%
CAMX	WECC California	527.9	0.033	0.004	529.9	0.6	0.5	0.1	942.9	0.045	0.006	945.6	0.8	0.8	0.1	4.23%
ERCT	ERCOT All	1,009.2	0.076	0.011	1,014.1	0.5	0.6	1.0	1,402.8	0.108	0.015	1,409.8	0.8	0.7	1.6	4.89%
FRCC	FRCC All	1,011.7	0.075	0.010	1,016.4	0.5	0.5	0.4	1,188.5	0.078	0.011	1,193.3	0.6	0.6	0.4	4.49%
HIMS	HICC Miscellaneous	1,152.0	0.095	0.015	1,158.7	7.4	7.0	4.5	1,530.0	0.147	0.023	1,540.2	11.8	11.3	4.5	5.35%
HIOA	HICC Oahu	1,662.9	0.181	0.028	1,675.2	3.4	3.2	8.6	1,637.5	0.153	0.024	1,648.3	4.1	4.2	8.1	5.35%
MROE	MRO East	1,668.2	0.156	0.026	1,679.3	1.0	1.1	1.3	1,740.1	0.156	0.025	1,750.9	1.0	1.0	1.3	4.49%
MROW	MRO West	1,238.8	0.115	0.020	1,247.4	1.0	1.1	1.4	1,822.0	0.154	0.029	1,834.0	1.6	1.5	2.0	4.49%
NEWE	NPCC New England	558.2	0.090	0.012	563.7	0.4	0.4	0.1	975.1	0.086	0.011	980.5	0.5	0.4	0.2	4.49%
NWPP	WECC Northwest	651.2	0.061	0.009	655.4	0.6	0.7	0.4	1,524.9	0.124	0.020	1,533.8	1.4	1.4	0.8	4.23%
NYCW	NPCC NYC/Westchester	635.8	0.022	0.003	637.1	0.3	0.3	0.0	1,061.7	0.022	0.002	1,062.9	0.5	0.6	0.0	4.49%
NYLI	NPCC Long Island	1,178.3	0.126	0.016	1,186.0	0.9	0.8	0.2	1,338.8	0.036	0.004	1,340.9	0.9	0.9	0.3	4.49%
NYUP	NPCC Upstate NY	294.7	0.021	0.003	295.9	0.3	0.3	0.2	1,018.2	0.061	0.008	1,022.0	0.8	0.8	0.9	4.49%
RFCE	RFC East	758.2	0.050	0.009	762.1	0.6	0.6	0.6	1,434.4	0.079	0.017	1,441.4	1.2	1.1	1.2	4.49%
RFCM	RFC Michigan	1,272.0	0.067	0.018	1,278.9	0.9	0.9	1.7	1,806.1	0.101	0.025	1,816.1	1.3	1.2	2.8	4.49%
RFCW	RFC West	1,243.4	0.108	0.019	1,251.5	0.9	0.9	1.2	1,934.4	0.172	0.029	1,946.9	1.5	1.4	2.2	4.49%
RMPA	WECC Rockies	1,367.8	0.137	0.020	1,376.8	1.0	1.0	0.6	1,688.3	0.147	0.021	1,697.9	1.2	1.2	0.8	4.23%
SPNO	SPP North	1,412.4	0.149	0.022	1,422.2	0.8	0.9	0.5	1,990.8	0.202	0.029	2,004.1	1.4	1.5	1.1	4.49%
SPSO	SPP South	1,248.3	0.095	0.015	1,254.9	0.9	0.9	1.7	1,662.5	0.121	0.019	1,670.9	1.3	1.3	2.4	4.49%
SRMV	SERC Mississippi Valley	838.9	0.050	0.007	842.2	0.8	0.9	0.7	1,186.0	0.071	0.010	1,190.6	1.3	1.4	1.1	4.49%
SRMW	SERC Midwest	1,612.6	0.082	0.026	1,622.5	1.1	1.1	2.4	1,955.2	0.084	0.031	1,966.5	1.3	1.2	3.1	4.49%
SRSO	SERC South	1,089.4	0.087	0.013	1,095.1	0.5	0.5	0.4	1,453.5	0.115	0.017	1,461.1	0.8	0.7	0.6	4.49%
SRTV	SERC Tennessee Valley	1,185.4	0.093	0.017	1,192.6	0.7	0.7	1.0	1,757.4	0.135	0.025	1,767.9	1.1	1.1	1.6	4.49%
SRVC	SERC Virginia/Carolina	805.3	0.067	0.011	810.1	0.5	0.5	0.3	1,422.2	0.111	0.019	1,430.4	0.8	0.8	0.6	4.49%
<b>U.S.</b>		<b>998.4</b>	<b>0.080</b>	<b>0.013</b>	<b>1,004.2</b>	<b>0.7</b>	<b>0.7</b>	<b>0.8</b>	<b>1,501.0</b>	<b>0.111</b>	<b>0.018</b>	<b>1,508.9</b>	<b>1.1</b>	<b>1.0</b>	<b>1.3</b>	<b>4.48%</b>

## 2. Subregion Resource Mix (eGRID2016)

eGRID subregion acronym	eGRID subregion name	Nameplate Capacity (MW)	Net Generation (MWh)	Generation Resource Mix (percent)*										
				Coal	Oil	Gas	Other Fossil	Nuclear	Hydro	Biomass	Wind	Solar	Geo-thermal	Other unknown/purchased fuel
AKGD	ASCC Alaska Grid	2,406	4,705,316	12.6	9.2	61.9	0.0	0.0	12.6	0.9	2.9	0.0	0.0	0.0
AKMS	ASCC Miscellaneous	1,033	1,629,718	0.0	24.6	7.9	0.0	0.0	65.4	0.0	2.1	0.0	0.0	0.0
AZNM	WECC Southwest	63,308	166,327,576	29.5	0.1	39.8	0.0	19.5	3.5	0.4	1.2	2.8	3.2	0.0
CAMX	WECC California	110,656	200,602,485	4.3	0.1	48.4	0.7	9.4	12.1	2.9	7.0	10.6	4.1	0.2
ERCT	ERCOT All	159,336	389,939,062	25.9	0.0	48.2	0.5	10.8	0.3	0.3	13.7	0.2	0.0	0.2
FRCC	FRCC All	97,820	229,407,929	16.0	1.2	66.6	0.0	12.8	0.1	2.4	0.0	0.1	0.0	0.7
HIMS	HICC Miscellaneous	1,164	2,741,704	0.2	61.7	0.0	0.0	0.0	3.3	4.3	14.8	2.1	9.5	4.1
HIOA	HICC Oahu	2,338	7,207,141	20.7	68.7	0.0	0.9	0.0	0.0	6.1	3.2	0.4	0.0	0.0
MROE	MRO East	11,271	20,471,860	64.5	0.6	20.5	0.1	0.0	6.8	5.3	2.0	0.0	0.0	0.1
MROW	MRO West	74,698	218,204,106	52.7	0.2	6.7	0.0	12.8	5.0	1.3	21.1	0.0	0.0	0.2
NEWE	NPCC New England	44,890	107,729,043	2.4	0.6	49.8	0.1	30.4	5.3	8.2	2.5	0.7	0.0	0.1
NWPP	WECC Northwest	90,679	284,912,897	22.5	0.2	15.3	0.3	3.4	47.2	1.3	8.6	0.5	0.7	0.1
NYCW	NPCC NYC/Westchester	16,614	44,416,982	0.0	0.4	64.6	0.0	34.1	0.0	0.9	0.0	0.0	0.0	0.0
NYLI	NPCC Long Island	6,275	11,777,168	0.0	2.7	88.5	0.0	0.0	0.0	8.0	0.0	0.8	0.0	0.0
NYUP	NPCC Upstate NY	30,844	84,093,338	2.1	0.2	27.7	0.0	31.4	31.6	2.1	4.7	0.1	0.0	0.0
RFCE	RFC East	98,917	283,222,518	17.6	0.2	38.0	0.2	39.7	0.9	1.9	1.0	0.4	0.0	0.0
RFCM	RFC Michigan	32,930	92,326,063	41.5	0.9	31.4	1.9	17.5	0.0	2.0	4.8	0.0	0.0	0.0
RFCW	RFC West	185,858	533,500,666	49.8	0.4	16.7	0.7	27.6	0.9	0.6	3.2	0.1	0.0	0.1
RMPA	WECC Rockies	23,339	63,912,177	51.3	0.0	20.2	0.0	0.0	12.1	0.3	15.1	0.8	0.0	0.1
SPNO	SPP North	28,326	66,741,590	57.9	0.1	9.5	0.0	12.4	0.3	0.1	19.8	0.0	0.0	0.0
SPSO	SPP South	61,022	156,780,737	34.8	1.9	40.7	0.2	0.0	3.6	1.5	17.1	0.1	0.0	0.1
SRMV	SERC Mississippi Valley	58,822	172,359,088	14.0	1.1	58.7	1.4	21.2	1.4	1.8	0.0	0.0	0.0	0.4
SRMW	SERC Midwest	38,432	121,294,301	71.4	0.1	8.3	0.0	15.1	1.2	0.1	3.5	0.0	0.0	0.2
SRSO	SERC South	87,370	264,562,049	28.9	0.1	47.0	0.0	18.2	2.0	3.5	0.0	0.3	0.0	0.0
SRTV	SERC Tennessee Valley	73,446	222,211,053	43.7	0.6	23.4	0.0	25.1	6.4	0.8	0.0	0.1	0.0	0.0
SRVC	SERC Virginia/Carolina	113,211	324,246,074	24.9	0.2	29.5	0.1	39.6	1.5	2.8	0.2	1.1	0.0	0.1
<b>U.S.</b>		<b>1,515,007</b>	<b>4,075,322,641</b>	<b>30.4</b>	<b>0.6</b>	<b>33.8</b>	<b>0.3</b>	<b>19.8</b>	<b>6.4</b>	<b>1.7</b>	<b>5.6</b>	<b>0.9</b>	<b>0.4</b>	<b>0.1</b>

\*percentages may not sum to 100 due to rounding

### 3. State Output Emission Rates (eGRID2016)

State	Total output emission rates (lb/MWh)						
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	CO <sub>2</sub> e	Annual NO <sub>x</sub>	Ozone Season NO <sub>x</sub>	SO <sub>2</sub>
AK	925.9	0.063	0.009	930.0	6.6	6.5	0.6
AL	912.9	0.069	0.010	917.5	0.4	0.4	0.4
AR	1,115.7	0.105	0.015	1,122.6	0.9	0.9	1.6
AZ	932.2	0.067	0.011	937.1	0.6	0.6	0.2
CA	452.5	0.026	0.003	454.1	0.5	0.4	0.0
CO	1,468.4	0.146	0.021	1,477.9	1.1	1.1	0.7
CT	498.5	0.061	0.008	502.1	0.3	0.3	0.0
DC	481.8	0.023	0.002	483.0	4.6	4.6	0.1
DE	887.4	0.033	0.004	889.3	0.4	0.4	0.1
FL	1,024.2	0.077	0.010	1,029.0	0.5	0.6	0.4
GA	1,001.8	0.086	0.013	1,007.4	0.4	0.3	0.4
HI	1,522.1	0.157	0.024	1,532.9	4.5	4.2	7.5
IA	997.9	0.051	0.016	1,003.9	0.8	0.9	1.0
ID	188.7	0.008	0.001	189.3	0.3	0.3	0.1
IL	811.3	0.048	0.012	816.0	0.4	0.4	1.0
IN	1,812.7	0.185	0.027	1,824.9	1.7	1.7	1.7
KS	1,195.6	0.129	0.019	1,204.1	0.8	0.9	0.3
KY	1,954.3	0.189	0.032	1,968.1	1.5	1.4	1.9
LA	878.9	0.049	0.007	882.1	0.8	0.9	0.7
MA	821.3	0.101	0.013	827.5	0.5	0.5	0.2
MD	1,012.7	0.078	0.017	1,019.5	0.6	0.7	0.9
ME	337.0	0.164	0.023	347.6	0.6	0.6	0.3
MI	1,099.9	0.063	0.016	1,106.0	0.8	0.8	1.5
MN	1,012.7	0.123	0.018	1,020.3	0.7	0.7	0.6
MO	1,687.7	0.122	0.028	1,699.0	1.5	1.4	2.5
MS	940.7	0.029	0.006	943.0	0.4	0.5	0.2
MT	1,251.0	0.135	0.020	1,260.1	1.1	1.1	1.0
NC	867.4	0.080	0.011	872.7	0.6	0.6	0.4
ND	1,663.8	0.130	0.027	1,674.8	2.0	1.9	2.4
NE	1,281.2	0.139	0.021	1,290.7	1.1	1.1	2.8
NH	310.6	0.101	0.013	316.8	0.2	0.2	0.1
NJ	557.8	0.034	0.004	559.8	0.2	0.3	0.1
NM	1,572.8	0.150	0.022	1,582.6	2.4	2.4	0.5
NV	769.9	0.027	0.003	771.5	0.5	0.5	0.2
NY	464.0	0.031	0.004	465.9	0.3	0.4	0.1
OH	1,466.0	0.125	0.022	1,475.3	1.0	1.0	1.8
OK	1,043.7	0.063	0.011	1,048.3	0.7	0.8	1.3
OR	305.9	0.020	0.003	307.2	0.4	0.4	0.1
PA	855.4	0.052	0.011	860.0	0.8	0.8	1.0
RI	870.8	0.017	0.002	871.7	0.2	0.2	0.0
SC	629.4	0.025	0.009	632.8	0.3	0.3	0.2
SD	513.3	0.049	0.007	516.6	0.2	0.2	0.1
TN	992.3	0.074	0.015	998.4	0.5	0.6	0.8
TX	1,049.5	0.079	0.011	1,054.6	0.6	0.6	1.1
UT	1,627.4	0.166	0.024	1,638.4	1.8	1.7	0.9
VA	813.8	0.083	0.012	819.0	0.6	0.6	0.3
VT	56.9	0.161	0.021	66.8	0.4	0.5	0.0
WA	186.8	0.010	0.003	187.9	0.1	0.2	0.1
WI	1,388.9	0.072	0.020	1,396.5	0.7	0.7	0.5
WV	1,975.8	0.211	0.033	1,990.6	1.3	1.3	1.2
WY	2,026.3	0.223	0.032	2,041.0	1.6	1.6	1.4
<b>U.S.</b>	<b>998.4</b>	<b>0.080</b>	<b>0.013</b>	<b>1,004.2</b>	<b>0.7</b>	<b>0.7</b>	<b>0.8</b>

### 4. State Resource Mix (eGRID2016)

State	Nameplate Capacity (MW)	Net Generation (MWh)	Generation Resource Mix (percent)*										
			Coal	Oil	Gas	Other Fossil	Nuclear	Hydro	Biomass	Wind	Solar	Geo-thermal	Other unknown/purchased fuel
AK	3,439	6,335,034	9.4	13.1	48.0	0.0	0.0	26.2	0.7	2.7	0.0	0.0	0.0
AL	38,354	142,863,240	24.0	0.0	40.5	0.0	27.9	5.2	2.3	0.0	0.0	0.0	0.0
AR	19,536	60,445,059	39.4	0.1	30.1	0.0	22.2	6.0	2.3	0.0	0.0	0.0	0.0
AZ	40,135	108,734,631	28.0	0.0	31.4	0.0	29.8	6.6	0.2	0.5	3.4	0.0	0.0
CA	106,793	197,323,837	0.2	0.1	49.2	0.7	9.6	14.5	3.1	6.8	9.8	5.8	0.2
CO	19,873	54,418,480	55.0	0.0	23.3	0.0	0.0	3.0	0.3	17.3	1.0	0.0	0.1
CT	11,789	36,496,560	0.5	0.3	49.2	0.0	45.4	0.6	3.9	0.0	0.1	0.0	0.0
DC	25	76,474	0.0	1.3	29.7	0.0	0.0	0.0	69.0	0.0	0.0	0.0	0.0
DE	4,011	8,731,261	5.5	0.7	89.2	3.2	0.0	0.0	0.8	0.1	0.6	0.0	0.0
FL	100,751	238,226,428	16.6	1.2	66.5	0.0	12.3	0.1	2.6	0.0	0.1	0.0	0.7
GA	51,336	132,902,274	28.5	0.2	39.8	0.1	25.9	1.4	3.4	0.0	0.7	0.0	0.0
HI	3,502	9,948,845	15.1	66.7	0.0	0.6	0.0	0.9	5.6	6.4	0.9	2.6	1.1
IA	22,304	54,396,531	46.3	0.5	5.4	0.0	8.6	1.7	0.5	36.9	0.0	0.0	0.0
ID	6,212	15,660,938	0.2	0.0	21.2	0.0	0.0	57.7	3.4	16.5	0.2	0.5	0.4
IL	62,748	187,437,381	31.7	0.0	9.3	0.1	52.6	0.1	0.2	5.7	0.0	0.0	0.2
IN	40,933	101,397,209	71.3	0.6	19.7	2.2	0.0	0.4	0.4	4.8	0.2	0.0	0.3
KS	19,888	47,599,990	48.5	0.1	4.3	0.0	17.3	0.1	0.1	29.6	0.0	0.0	0.0
KY	31,179	80,273,501	83.2	1.5	10.3	0.1	0.0	4.3	0.6	0.0	0.0	0.0	0.0
LA	36,572	106,842,115	11.2	4.5	61.8	2.0	16.1	1.0	2.7	0.0	0.0	0.0	0.6
MA	19,517	31,951,671	5.9	1.3	66.2	0.0	16.9	0.7	6.5	0.7	1.9	0.0	0.0
MD	18,265	37,166,747	37.2	0.4	14.6	0.0	39.7	3.7	2.3	1.4	0.6	0.0	0.0
ME	5,718	11,514,427	0.6	1.0	30.4	1.3	0.0	26.1	25.3	14.5	0.0	0.0	0.9
MI	36,977	112,121,790	36.1	0.7	26.1	1.6	28.1	0.7	2.4	4.2	0.0	0.0	0.0
MN	21,832	60,036,476	38.7	0.1	14.9	0.0	23.1	2.0	3.6	17.5	0.0	0.0	0.2
MO	24,748	78,611,513	76.7	0.1	7.7	0.0	12.0	1.8	0.2	1.4	0.0	0.0	0.0
MS	19,600	62,881,295	8.5	0.0	79.7	0.0	9.4	0.0	2.4	0.0	0.0	0.0	0.0
MT	7,259	27,783,530	51.4	1.7	1.7	0.0	0.0	36.3	0.1	7.7	0.0	0.0	1.2
NC	48,224	130,768,153	28.6	0.2	30.0	0.3	32.7	3.4	2.0	0.0	2.6	0.0	0.2
ND	9,442	37,856,452	70.2	0.1	2.8	0.1	0.0	5.1	0.0	21.6	0.0	0.0	0.1
NE	10,004	37,197,843	58.8	0.0	1.4	0.0	25.1	4.1	0.3	10.2	0.0	0.0	0.0
NH	4,650	19,282,493	2.2	0.2	24.6	0.0	55.8	5.9	9.0	2.2	0.0	0.0	0.0
NJ	28,577	77,598,197	1.7	0.2	56.3	0.3	38.4	0.0	2.0	0.0	1.1	0.0	0.1
NM	13,286	32,922,552	55.8	0.2	30.2	0.0	0.0	0.4	0.1	11.0	2.3	0.0	0.0
NV	19,954	39,228,694	5.5	0.0	73.7	0.0	0.0	4.6	0.1	0.9	6.5	8.5	0.1
NY	51,336	134,090,833	1.3	0.5	42.1	0.0	31.0	19.7	2.3	2.9	0.1	0.0	0.0
OH	46,931	118,922,078	57.8	1.0	24.3	0.6	14.1	0.4	0.6	1.0	0.1	0.0	0.0
OK	33,525	78,655,008	24.4	0.0	46.4	0.0	0.0	3.2	0.5	25.5	0.0	0.0	0.0
OR	19,278	60,181,812	3.2	0.0	25.4	0.0	0.0	57.4	1.7	11.9	0.1	0.3	0.0
PA	68,559	215,066,508	25.4	0.2	31.6	0.2	38.6	0.8	1.5	1.6	0.0	0.0	0.0
RI	2,398	6,564,885	0.0	0.4	95.8	0.0	0.0	0.0	3.1	0.4	0.2	0.0	0.0
SC	31,485	96,985,764	21.7	0.1	16.9	0.0	57.6	1.3	2.5	0.0	0.0	0.0	0.0
SD	5,438	10,289,416	20.2	0.0	8.9	0.0	0.0	40.2	0.0	30.6	0.0	0.0	0.0
TN	27,973	79,340,633	39.3	0.2	14.3	0.0	37.3	7.7	1.2	0.0	0.1	0.0	0.0
TX	182,434	453,941,342	26.7	0.0	49.8	0.6	9.3	0.3	0.4	12.7	0.2	0.0	0.1
UT	11,044	38,133,928	68.0	0.1	22.8	0.1	0.0	2.0	0.2	2.2	2.8	1.3	0.5
VA	34,581	92,554,816	17.8	0.6	44.2	0.0	32.1	0.3	4.9	0.0	0.0	0.0	0.0
VT	796	1,911,207	0.0	0.2	0.1	0.0	0.0	56.4	25.0	15.2	3.1	0.0	0.0
WA	34,016	114,086,583	4.0	0.0	9.6	0.4	8.4	68.7	1.8	7.0	0.0	0.0	0.0
WI	23,414	64,966,611	51.4	0.2	23.8	0.0	15.6	4.3	2.3	2.3	0.0	0.0	0.0
WV	20,626	75,942,968	94.2	0.2	1.6	0.0	0.0	2.2	0.0	1.9	0.0	0.0	0.0
WY	13,744	46,656,630	85.8	0.1	1.7	0.8	0.0	2.1	0.0	9.4	0.0	0.0	0.1
<b>U.S.</b>	<b>1,515,007</b>	<b>4,075,322,641</b>	<b>30.4</b>	<b>0.6</b>	<b>33.8</b>	<b>0.3</b>	<b>19.8</b>	<b>6.4</b>	<b>1.7</b>	<b>5.6</b>	<b>0.9</b>	<b>0.4</b>	<b>0.1</b>