

**Table 14: Proved reserves, reserves changes, and production of shale natural gas, 2019**

billion cubic feet

State and Subdivision	Changes in Reserves During 2019								
	Published Proved Reserves 12/31/18	Adjustments (+,-)	Revision Increases (+)	Revision Decreases (-)	Sales Acquisitions (-)	Extensions & Discoveries (+)	Estimated Production (-)	Proved Reserves 12/31/19	
Alaska	0	0	0	0	0	0	0	0	0
<b>Lower 48 States</b>	<b>342,135</b>	<b>-6,298</b>	<b>41,528</b>	<b>61,152</b>	<b>7,724</b>	<b>23,699</b>	<b>46,454</b>	<b>25,556</b>	<b>353,086</b>
Arkansas	5,970	-3	59	462	0	0	0	471	5,093
Colorado	2,727	-86	235	542	9	0	324	149	2,500
Florida	0	0	0	0	0	0	0	0	0
Kansas	0	0	0	0	0	0	0	0	0
Kentucky	0	0	0	0	0	0	0	0	0
<b>Louisiana</b>	<b>25,598</b>	<b>-2,109</b>	<b>8,107</b>	<b>7,562</b>	<b>1,312</b>	<b>7,031</b>	<b>2,318</b>	<b>2,518</b>	<b>29,553</b>
North	25,598	-2,109	8,107	7,562	1,312	7,031	2,318	2,518	29,553
South	0	0	0	0	0	0	0	0	0
State offshore	0	0	0	0	0	0	0	0	0
Michigan	1,457	-473	19	69	0	276	0	72	1,138
Mississippi	0	0	0	0	0	0	0	0	0
Montana	221	53	0	23	0	2	36	21	268
<b>New Mexico</b>	<b>13,082</b>	<b>-1,173</b>	<b>870</b>	<b>2,313</b>	<b>336</b>	<b>156</b>	<b>4,642</b>	<b>1,101</b>	<b>13,827</b>
North Dakota	11,737	-370	1,149	578	3	294	1,356	1,043	12,542
Ohio	23,956	-800	7,969	4,035	15	8,182	1,677	2,558	34,376
Oklahoma	21,396	1,286	7,567	10,847	1,285	1,829	2,441	1,490	20,897
Pennsylvania	103,388	-584	4,654	8,853	526	431	13,666	6,782	105,394
<b>Texas</b>	<b>100,789</b>	<b>-2,203</b>	<b>8,711</b>	<b>19,853</b>	<b>3,943</b>	<b>5,064</b>	<b>12,352</b>	<b>7,440</b>	<b>93,477</b>
RRC District 1	11,434	-177	375	2,279	71	248	710	729	9,511
RRC District 2 Onshore	4,993	-301	220	418	713	522	673	631	4,345
RRC District 3 Onshore	451	310	16	29	601	204	0	23	328
RRC District 4 Onshore	13,953	255	36	2,039	167	0	1,130	682	12,486
RRC District 5	8,431	-692	57	487	271	276	0	586	6,728
RRC District 6	18,690	-1,001	2,257	5,964	8	913	3,034	895	17,026
RRC District 7B	1,673	40	1	238	293	0	0	93	1,090
RRC District 7C	7,454	239	922	1,506	115	80	1,376	705	7,745
RRC District 8	26,116	-893	4,526	6,385	1,094	2,694	5,368	2,683	27,649
RRC District 8A	104	-13	0	3	5	5	36	9	115
RRC District 9	7,490	30	301	505	605	122	25	404	6,454
RRC District 10	0	0	0	0	0	0	0	0	0
State offshore	0	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0	0	0
West Virginia	31,748	222	2,188	6,008	295	434	7,642	1,911	34,020
Wyoming	0	0	0	0	0	0	0	0	0
Federal Offshore	0	0	0	0	0	0	0	0	0
Other states <sup>a</sup>	91	-83	0	7	0	0	0	0	1
<b>U.S. Total</b>	<b>342,135</b>	<b>-6,298</b>	<b>41,528</b>	<b>61,152</b>	<b>7,724</b>	<b>23,699</b>	<b>46,454</b>	<b>25,556</b>	<b>353,086</b>

<sup>a</sup> Other states include California, Indiana, Missouri, New York, South Dakota, Tennessee, and Utah. Individual state volumes are withheld to avoid disclosure of operator-level reserves data, or because of other statistical precision or data quality reasons.

Note: The above table is based on shale natural gas proved reserves and production volumes reported and imputed from data on Form EIA-23 "Annual Report of Domestic Oil and Gas Reserves." For certain reasons (e.g. incorrect or incomplete respondent submissions, respondent mis-identification of shale vs non-shale reservoirs) the actual proved reserves and production of natural gas from shales may be higher or lower. The production estimates are offered only as an observed indicator of production trends and may differ from official EIA production volumes listed elsewhere on the EIA web page.

Natural gas is measured at 60 degrees Fahrenheit and at an atmospheric pressure base of 14.73 pounds per square inch absolute (psia).

Source: U.S. Energy Information Administration, Form EIA-23L, *Annual Report of Domestic Oil and Gas Proved Reserves*