

Table 13: Proved reserves and production of shale natural gas, 2016 - 2019

billion cubic feet

State and Subdivision	Reserves				Production			
	2016	2017	2018	2019	2016	2017	2018	2019
Alaska	0	0	0	0	0	0	0	0
Lower 48 States	209,809	307,903	342,135	353,086	17,032	18,589	22,054	25,556
Arkansas	6,262	7,090	5,970	5,093	733	618	521	471
California	41	62	41	0	6	6	4	0
Colorado	2,032	1,885	2,727	2,500	164	97	126	149
Florida	0	0	0	0	0	0	0	0
Kansas	0	0	0	0	0	0	0	0
Kentucky	12	17	0	0	0	1	0	0
Louisiana	9,637	26,484	25,598	29,553	1,111	1,450	2,044	2,518
North	9,570	26,316	25,598	29,553	1,085	1,414	2,044	2,518
South	67	168	0	0	26	36	0	0
State Offshore	0	0	0	0	0	0	0	0
Michigan	1,128	942	1,457	1,138	84	63	77	72
Mississippi	7	8	0	0	2	2	0	0
Montana	213	258	221	268	19	18	18	21
New Mexico	5,581	9,451	13,082	13,827	497	592	785	1,101
North Dakota	8,259	9,984	11,737	12,542	582	664	840	1,043
Ohio	15,472	26,468	23,956	34,376	1,386	1,747	2,337	2,558
Oklahoma	20,327	22,675	21,396	20,897	1,082	1,290	1,325	1,490
Pennsylvania	60,979	89,478	103,388	105,394	5,049	5,365	6,079	6,782
Texas	56,577	78,666	100,789	93,477	5,029	5,171	6,392	7,440
RRC District 1	7,493	8,895	11,434	9,511	690	652	693	729
RRC District 2 Onshore	4,126	4,900	4,993	4,345	642	584	654	631
RRC District 3 Onshore	125	744	451	328	23	23	21	23
RRC District 4 Onshore	11,001	12,861	13,953	12,486	706	677	689	682
RRC District 5	8,321	10,636	8,431	6,728	827	730	680	586
RRC District 6	3,249	8,909	18,690	17,026	339	333	515	895
RRC District 7B	1,562	1,736	1,673	1,090	116	110	118	93
RRC District 7C	5,661	7,156	7,454	7,745	451	494	597	705
RRC District 8	7,924	15,319	26,116	27,649	730	1,115	1,960	2,683
RRC District 8A	8	48	104	115	0	1	6	9
RRC District 9	7,107	7,462	7,490	6,454	505	452	459	404
RRC District 10	0	0	0	0	0	0	0	0
State Offshore	0	0	0	0	0	0	0	0
Virginia	45	66	0	0	4	4	0	0
West Virginia	23,146	34,296	31,748	34,020	1,270	1,486	1,504	1,911
Wyoming	17	28	0	0	5	6	0	0
Federal Offshore	0	0	0	0	0	0	0	0
Other states ^a	74	62	25	1	9	10	2	0
U.S. Total	209,809	307,903	342,135	353,086	17,032	18,589	22,054	25,556

^a Other states include Alabama, California, Illinois, 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 U.S. EIA production volumes listed elsewhere on the U.S. 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).

Sources: U.S. Energy Information Administration, Form EIA-23L, *Annual Report of Domestic Oil and Gas Proved Reserves*, 2016-2019