

**Table 9: Natural gas, wet after lease separation, proved reserves and production of shale plays, by states and areas, 2019–22
(billion cubic feet)**

State and Subdivision	Natural gas proved reserves of shale plays				Natural gas production from shale plays			
	2019	2020	2021	2022	2019	2020	2021	2022
Alaska	0	0	0	0	0	0	0	0
Lower 48 States	353,682	317,756	393,779	431,413	25,556	26,139	27,985	30,586
Alabama	0	0	0	-	0	0	0	-
Arizona	0	0	0	0	0	0	0	0
Arkansas	5,093	4,210	5,127	5,341	471	419	387	357
Colorado	2,500	1,331	4,149	9,546	149	116	301	716
Kansas	0	0	0	0	0	0	0	0
Louisiana	29,553	28,533	35,630	34,770	2,518	2,555	2,942	3,615
North Onshore	29,553	28,533	35,630	34,770	2,518	2,555	2,942	3,615
South Onshore	0	0	0	0	0	0	0	0
State Offshore	0	0	0	0	0	0	0	0
Michigan	1,138	823	1,092	1,246	72	57	53	64
Mississippi	0	0	0	0	0	0	0	0
Montana	268	227	254	395	21	16	15	19
Nebraska	0	0	0	0	0	0	0	0
New Mexico	14,413	14,667	22,245	25,794	1,101	1,337	1,642	2,036
East	14,413	14,667	22,245	25,794	1,101	1,337	1,642	2,036
West	0	0	0	0	0	0	0	0
North Dakota	12,542	8,376	11,146	12,822	1,043	970	1,052	1,059
Ohio	34,376	27,775	31,790	32,362	2,558	2,320	2,207	2,196
Oklahoma	20,897	15,483	20,750	24,025	1,490	1,195	1,239	1,397
Pennsylvania	105,394	96,699	105,586	104,998	6,782	7,040	7,546	7,433
Texas	93,487	87,296	116,848	130,448	7,440	7,844	8,262	8,767
RRC District 1	9,511	6,517	9,790	10,236	729	688	652	689
RRC District 2 Onshore	4,345	4,290	5,775	5,834	631	621	582	632
RRC District 3 Onshore	328	135	177	176	23	21	18	11
RRC District 4 Onshore	12,486	11,396	14,235	16,390	682	599	608	663
RRC District 5 Onshore	6,728	5,344	6,467	6,946	586	516	480	444
RRC District 6 Onshore	17,026	16,224	20,453	26,315	895	1,046	1,358	1,463
RRC District 7B Onshore	1,090	679	1,067	1,223	93	84	77	73
RRC District 7C Onshore	7,747	7,688	12,282	11,699	705	798	803	779
RRC District 8 Onshore	27,657	30,026	40,334	43,647	2,683	3,088	3,339	3,642
RRC District 8A Onshore	115	141	120	160	9	15	5	6
RRC District 9 Onshore	6,454	4,856	6,148	7,823	404	368	340	365
RRC District 10 Onshore	0	0	0	0	0	0	0	0
State Offshore	0	0	0	0	0	0	0	0
West Virginia	34,020	32,335	39,160	48,226	1,911	2,270	2,339	2,872
Wyoming	0	0	0	1,174	0	0	0	38
Federal Offshore	0	0	0	0	0	0	0	0
Other States (a)	1	1	2	264	0	0	0	16
U.S. Total	353,682	317,756	393,779	431,413	25,556	26,139	27,985	30,586

(a) Includes Alabama, California, Florida, Illinois, Indiana, Kentucky, Maryland, Missouri, New York, South Dakota, Tennessee, Utah, and Virginia.

- No data reported

Notes: The above table is based on shale natural gas proved reserves and production volumes reported and imputed from data on Form EIA-23L. 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 site.

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

Source: U.S. Energy Information Administration, Form EIA-23L, "Annual Report of Domestic Oil and Gas Proved Reserves," 2019-2022