

Table 9: Natural gas, wet after lease separation, proved reserves and production of shale plays, by states and areas, 2020–23
(billion cubic feet)

State and Subdivision	Natural gas proved reserves of shale plays				Natural gas production from shale plays			
	2020	2021	2022	2023	2020	2021	2022	2023
Alaska	0	0	0	0	0	0	0	0
Lower 48 States	317,756	393,779	431,413	393,094	26,139	27,985	30,586	32,228
Alabama	0	0	-	-	0	0	-	-
Arizona	0	0	0	0	0	0	0	0
Arkansas	4,210	5,127	5,341	3,836	419	387	357	361
Colorado	1,331	4,149	9,546	6,964	116	301	716	746
Kansas	0	0	0	0	0	0	0	0
Louisiana	28,533	35,630	34,770	29,858	2,555	2,942	3,615	3,975
North Onshore	28,533	35,630	34,770	29,858	2,555	2,942	3,615	3,975
South Onshore	0	0	0	0	0	0	0	0
State Offshore	0	0	0	0	0	0	0	0
Michigan	823	1,092	1,246	1,067	57	53	64	61
Mississippi	0	0	0	0	0	0	0	0
Montana	227	254	395	460	16	15	19	20
Nebraska	0	0	0	0	0	0	0	0
New Mexico	14,667	22,245	25,794	28,220	1,337	1,642	2,036	2,384
East	14,667	22,245	25,794	28,220	1,337	1,642	2,036	2,384
West	0	0	0	0	0	0	0	0
North Dakota	8,376	11,146	12,822	11,879	970	1,052	1,059	1,155
Ohio	27,775	31,790	32,362	28,455	2,320	2,207	2,196	2,174
Oklahoma	15,483	20,750	24,025	18,823	1,195	1,239	1,397	1,444
Pennsylvania	96,699	105,586	104,998	101,243	7,040	7,546	7,433	7,502
Texas	87,296	116,848	130,448	114,326	7,844	8,262	8,767	9,330
RRC District 1	6,517	9,790	10,236	10,073	688	652	689	746
RRC District 2 Onshore	4,290	5,775	5,834	4,785	621	582	632	645
RRC District 3 Onshore	135	177	176	430	21	18	11	8
RRC District 4 Onshore	11,396	14,235	16,390	16,371	599	608	663	759
RRC District 5 Onshore	5,344	6,467	6,946	5,492	516	480	444	481
RRC District 6 Onshore	16,224	20,453	26,315	20,412	1,046	1,358	1,463	1,546
RRC District 7B Onshore	679	1,067	1,223	846	84	77	73	66
RRC District 7C Onshore	7,688	12,282	11,699	10,158	798	803	779	876
RRC District 8 Onshore	30,026	40,334	43,647	40,509	3,088	3,339	3,642	3,853
RRC District 8A Onshore	141	120	160	230	15	5	6	12
RRC District 9 Onshore	4,856	6,148	7,823	5,020	368	340	365	340
RRC District 10 Onshore	0	0	0	0	0	0	0	0
State Offshore	0	0	0	0	0	0	0	0
West Virginia	32,335	39,160	48,226	46,056	2,270	2,339	2,872	2,997
Wyoming	0	0	1,174	1,631	0	0	38	58
Federal Offshore	0	0	0	0	0	0	0	0
Other States (a)	1	2	264	278	0	0	16	20
U.S. Total	317,756	393,779	431,413	393,094	26,139	27,985	30,586	32,228

(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," 2020-2023.