

**Table 9: Natural gas, wet after lease separation, proved reserves and production of shale plays, by states and areas, 2021–24  
(billion cubic feet)**

State and Subdivision	Natural gas production from shale plays				Natural gas proved reserves of shale plays			
	2021	2022	2023	2024	2021	2022	2023	2024
Alaska	-	-	-	-	-	-	-	-
<b>Lower 48 States</b>	<b>27,985</b>	<b>30,586</b>	<b>32,228</b>	<b>32,868</b>	<b>393,779</b>	<b>431,413</b>	<b>393,094</b>	<b>379,354</b>
Arizona	-	-	-	-	-	-	-	-
Arkansas	387	357	361	328	5,127	5,341	3,836	2,814
Colorado	301	716	746	815	4,149	9,546	6,964	7,610
Idaho	-	-	-	-	-	-	-	-
<b>Louisiana</b>	<b>2,942</b>	<b>3,615</b>	<b>3,975</b>	<b>3,415</b>	<b>35,630</b>	<b>34,770</b>	<b>29,858</b>	<b>21,224</b>
North Onshore	2,942	3,615	3,975	3,415	35,630	34,770	29,858	21,224
South Onshore	-	-	-	-	-	-	-	-
State Offshore	-	-	-	-	-	-	-	-
Michigan	53	64	61	58	1,092	1,246	1,067	1,011
Montana	15	19	20	36	254	395	460	657
Nevada	-	-	-	-	-	-	-	-
<b>New Mexico</b>	<b>1,642</b>	<b>2,036</b>	<b>2,384</b>	<b>2,800</b>	<b>22,245</b>	<b>25,794</b>	<b>28,220</b>	<b>31,315</b>
East	1,642	2,036	2,384	2,800	22,245	25,794	28,220	31,315
West	-	-	-	-	-	-	-	-
North Dakota	1,052	1,059	1,155	1,243	11,146	12,822	11,879	12,079
Ohio	2,207	2,196	2,174	2,115	31,790	32,362	28,455	26,291
Oklahoma	1,239	1,397	1,444	1,477	20,750	24,025	18,823	20,912
Oregon	-	-	-	-	-	-	-	-
Pennsylvania	7,546	7,433	7,502	7,372	105,586	104,998	101,243	94,452
<b>Texas</b>	<b>8,262</b>	<b>8,767</b>	<b>9,330</b>	<b>9,900</b>	<b>116,848</b>	<b>130,448</b>	<b>114,326</b>	<b>112,442</b>
RRC District 1	652	689	746	788	9,790	10,236	10,073	8,588
RRC District 2 Onshore	582	632	645	617	5,775	5,834	4,785	4,604
RRC District 3 Onshore	18	11	8	9	177	176	430	304
RRC District 4 Onshore	608	663	759	679	14,235	16,390	16,371	11,910
RRC District 5 Onshore	480	444	481	487	6,467	6,946	5,492	5,847
RRC District 6 Onshore	1,358	1,463	1,546	1,503	20,453	26,315	20,412	12,798
RRC District 7B Onshore	77	73	66	61	1,067	1,223	846	676
RRC District 7C Onshore	803	779	876	1,051	12,282	11,699	10,158	13,472
RRC District 8 Onshore	3,339	3,642	3,853	4,376	40,334	43,647	40,509	49,940
RRC District 8A Onshore	5	6	12	19	120	160	230	284
RRC District 9 Onshore	340	365	340	310	6,148	7,823	5,020	4,018
RRC District 10 Onshore	-	-	-	-	-	-	-	-
State Offshore	-	-	-	-	-	-	-	-
West Virginia	2,339	2,872	2,997	3,180	39,160	48,226	46,056	46,779
Wyoming	0	38	58	124	0	1,174	1,631	1,532
Federal Offshore	-	-	-	-	-	-	-	-
Other States (a)	0	16	20	6	2	264	278	235
<b>U.S. Total</b>	<b>27,985</b>	<b>30,586</b>	<b>32,228</b>	<b>32,868</b>	<b>393,779</b>	<b>431,413</b>	<b>393,094</b>	<b>379,354</b>

(a) Includes Alabama, California, Florida, Illinois, Indiana, Kansas, Kentucky, Maryland, Mississippi, Missouri, Nebraska, 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," 2021-2024.