

Table 10: Natural gas, wet after lease separation, proved reserves, reserves changes from shale plays, by states and areas, 2022
(billion cubic feet)

State and Subdivision	Changes in proved reserves during 2022						Proved producing reserves of shale plays	Proved nonproducing reserves of shale plays	Proved reserves of shale plays 12/31/22
	Proved reserves of shale plays 12/31/21	Revisions and other changes (b) (+,-)	Divestitures (-)	Acquisitions (+)	Extensions and discoveries (+)	Estimated production (-)			
Alaska	0	0	0	0	0	0	0	0	0
Lower 48 States	393,779	10,823	45,120	1,999	14,276	30,586	247,664	183,749	431,413
Arkansas	5,127	1,178	0	607	0	357	5,124	217	5,341
Colorado	4,149	4,976	352	9	796	716	4,941	4,606	9,546
Kansas	0	0	0	0	0	0	0	0	0
Louisiana	35,630	-1,416	4,174	80	77	3,615	14,122	20,648	34,770
North Onshore	35,630	-1,416	4,174	80	77	3,615	14,122	20,648	34,770
South Onshore	0	0	0	0	0	0	0	0	0
Michigan	1,092	218	0	0	0	64	1,246	0	1,246
Mississippi	0	0	0	0	0	0	0	0	0
Montana	254	75	29	10	67	19	184	211	395
Nebraska	0	0	0	0	0	0	0	0	0
New Mexico	22,245	-1,459	6,683	111	472	2,036	11,943	13,851	25,794
East	22,245	-1,459	6,683	111	472	2,036	11,943	13,851	25,794
West	0	0	0	0	0	0	0	0	0
North Dakota	11,146	1,835	707	10	204	1,059	9,508	3,314	12,822
Ohio	31,790	123	2,457	236	424	2,196	16,248	16,114	32,362
Oklahoma	20,750	2,657	1,987	15	44	1,397	14,349	9,677	24,025
Pennsylvania	105,586	-8,120	10,035	63	4,993	7,433	70,191	34,807	104,998
Texas	116,848	2,710	13,070	556	7,144	8,767	71,135	59,314	130,448
RRC District 1	9,790	456	609	28	97	689	5,699	4,537	10,236
RRC District 2 Onshore	5,775	-461	252	0	901	632	3,817	2,017	5,834
RRC District 3 Onshore	177	-16	17	0	9	11	100	75	176
RRC District 4 Onshore	14,235	-1,112	2,763	262	1,428	663	5,757	10,633	16,390
RRC District 5 Onshore	6,467	-1,356	392	0	1,888	444	5,808	1,139	6,946
RRC District 6 Onshore	20,453	3,235	4,090	0	1	1,463	6,826	19,489	26,315
RRC District 7B Onshore	1,067	50	0	0	180	73	1,169	54	1,223
RRC District 7C Onshore	12,282	-1,353	760	5	794	779	7,766	3,932	11,699
RRC District 8 Onshore	40,334	1,422	4,141	188	1,580	3,642	28,965	14,682	43,647
RRC District 8A Onshore	120	-6	46	0	7	6	79	80	160
RRC District 9 Onshore	6,148	1,851	0	73	261	365	5,148	2,675	7,823
RRC District 10 Onshore	0	0	0	0	0	0	0	0	0
State Offshore	0	0	0	0	0	0	0	0	0
West Virginia	39,160	6,891	5,348	301	0	2,872	28,184	20,042	48,226
Wyoming	0	879	278	1	56	38	357	816	1,174
Federal Offshore	0	0	0	0	0	0	0	0	0
Other Shale States (a)	2	278	0	0	0	16	130	134	264
U.S. Total	393,779	10,823	45,120	1,999	14,276	30,586	247,664	183,749	431,413

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

(b) Annual balancing item calculated by EIA.

- 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.