

Table 15: Shale natural gas proved reserves, reserves changes, and production, wet after lease separation, 2011

billion cubic feet

State and Subdivision	Published Proved Reserves 12/31/10	Adjustments (+,-)	Changes in Reserves During 2011					New Reservoir Discoveries		Estimated Production (-)	Proved Reserves 12/31/11
			Revision Increases (+)	Revision Decreases (-)	Sales (-)	Acquisitions (+)	Extensions (+)	New Field Discoveries (+)	in Old Fields (+)		
Alaska	0	0	0	0	0	0	0	0	0	0	0
Lower 48 States	97,449	1,584	25,993	23,455	22,694	27,038	32,764	232	699	7,994	131,616
Alabama	0	0	0	0	0	0	0	0	0	0	0
Arkansas	12,526	655	502	141	6,087	6,220	2,073	0	0	940	14,808
California	0	1	912	0	0	0	43	0	0	101	855
Colorado	4	0	4	0	0	0	5	0	0	3	10
Florida	0	0	0	0	0	0	0	0	0	0	0
Kansas	0	0	0	0	0	0	0	0	0	0	0
Kentucky	10	0	44	11	45	45	2	0	0	4	41
Louisiana	20,070	-172	2,002	3,882	3,782	4,291	5,367	0	140	2,084	21,950
North Onshore	20,070	-172	2,002	3,882	3,782	4,291	5,367	0	140	2,084	21,950
South Onshore	0	0	0	0	0	0	0	0	0	0	0
State Offshore	0	0	0	0	0	0	0	0	0	0	0
Michigan	2,306	31	140	151	682	409	0	0	0	106	1,947
Mississippi	0	0	0	0	0	0	0	0	0	0	0
Montana	186	14	14	14	42	41	5	0	1	13	192
New Mexico	123	69	83	190	0	0	68	0	0	9	144
East	35	66	68	146	0	0	5	0	0	5	23
West	88	3	15	44	0	0	63	0	0	4	121
New York	0	0	0	0	0	0	0	0	0	0	0
North Dakota	1,185	20	439	290	115	161	340	2	2	95	1,649
Ohio	0	0	0	0	0	0	0	0	0	0	0
Oklahoma	9,670	216	3,709	5,024	1,591	1,412	2,780	37	0	476	10,733
Pennsylvania	10,708	253	5,238	3,322	209	1,665	9,835	162	319	1,068	23,581
Texas	38,048	450	12,185	10,263	9,926	12,287	9,583	31	93	2,900	49,588
RRC District 1	1,564	0	2,141	48	1,132	1,130	1,604	20	0	156	5,123
RRC District 2 Onshore	395	237	388	402	61	38	1,157	0	81	141	1,692
RRC District 3 Onshore	0	1	0	0	0	0	0	0	0	0	1
RRC District 4 Onshore	565	185	792	295	75	75	1,506	0	12	154	2,611
RRC District 5	16,032	233	3,094	1,405	5,772	5,851	2,980	0	0	1,266	19,747
RRC District 6	4,381	26	2,322	1,860	879	1,673	1,303	0	0	382	6,584
RRC District 7B	2,435	-193	385	358	748	2,011	118	0	0	184	3,466
RRC District 7C	13	-1	13	19	0	0	21	0	0	0	27
RRC District 8	90	-79	45	12	0	20	2	0	0	5	61
RRC District 8A	0	0	0	0	0	0	0	0	0	0	0
RRC District 9	12,573	42	3,005	5,864	1,259	1,489	891	11	0	612	10,276
RRC District 10	0	-1	0	0	0	0	1	0	0	0	0
State Offshore	0	0	0	0	0	0	0	0	0	0	0
Utah	0	0	0	0	0	0	0	0	0	0	0
Virginia	0	0	0	0	0	0	0	0	0	0	0
West Virginia	2,491	-2	702	139	126	507	2,658	0	144	192	6,043
Wyoming	1	0	0	1	0	0	0	0	0	0	0
Federal Offshore	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous ^a	121	49	19	27	89	0	5	0	0	3	75
U.S. Total	97,449	1,584	25,993	23,455	22,694	27,038	32,764	232	699	7,994	131,616

^a Includes Indiana, Missouri, and Tennessee.

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 Survey 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 atmospheric pressure base of 14.73 pounds per square inch (psia)

Sources: U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 2008 through 2011 annual reports, DOE/EIA-0216.