



America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy

Volume 2 – State Economic Contributions

Appendix C. Economic Contributions Excluding Cross-State Contributions by State and Year

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December 2012

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TABLE OF CONTENTS

UNCONVENTIONAL OIL	4
Employment Contributions Excluding Cross-State Contributions: Alphabetical by State	5
Value Added Contribution Excluding Cross-State Contributions: Alphabetical by State	11
Labor Income Contribution Excluding Cross-State Contributions: Alphabetical by State.....	17
UNCONVENTIONAL GAS	23
Employment Contribution Excluding Cross-State Contributions: Alphabetical by State.....	24
Value Added Contribution Excluding Cross-State Contributions: Alphabetical by State	30
Labor Income Contribution Excluding Cross-State Contributions: Alphabetical by State.....	36

Appendix C. Economic Contributions Excluding Cross-State Contributions by State and Year

Appendix C presents three different types of detailed tables by state for each reference year over the forecast horizon (2012, 2015, 2020, 2025, 2030 and 2035). The tables presented in this appendix are similar in structure to the tables presented in Appendix A; however, these tables present the indirect and induced contributions generated by the direct activity in each state independent of all other states. In doing so, these tables present only the indirect and induced employment, value added, and labor income contributions attributed to supporting those directly employed by the industry's unconventional oil and gas activity in the source state through production and/or capital expenditure. In other words, the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state. As a function of this methodology, all direct contributions remain unchanged from Appendix A and changes are only observed within the indirect and induced contributions. The results in this Appendix are obtained directly from the IMPLAN model's single state runs.

Results for the following three concepts are presented:

- 1) Employment Contribution
- 2) Value Added Contribution
- 3) Labor Income Contribution

Each contribution table is split out into direct, indirect, induced and total contribution. Also included are state multipliers defined as:

$$(\text{indirect contribution} + \text{induced contribution}) / \text{direct contribution}$$

For each concept, there is a separate table for each of our forecast years.

A summary description of the tables is as follows:

1 – Employment Contribution Excluding Cross-State Contributions: Alphabetical by State. These tables present the direct, indirect, induced, and total employment contributions for 2012, 2015, 2020, 2025, 2030, and 2035 alphabetically by state.

2 – Value Added Contribution Excluding Cross-State Contributions: Alphabetical by State. These tables present the direct, indirect, induced, and total value added contributions for 2012, 2015, 2020, 2025, 2030, and 2035 alphabetically by state.

3 – Labor Income Contribution Excluding Cross-State Contributions: Alphabetical by State. These tables present the direct, indirect, induced, and total value added contributions for 2012, 2015, 2020, 2025, 2030, and 2035 alphabetically by state.

Each of the detailed tables is presented separately for unconventional oil activity and unconventional gas activity.

UNCONVENTIONAL OIL

Employment Contributions Excluding Cross-State Contributions: Alphabetical by State

US State-Level Employment Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2012					
(Number of Workers)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	0	0	0	0	0.00
Arizona	1	1	1	2	2.89
Arkansas	1,659	980	1,023	3,661	1.21
California	3,244	5,065	4,086	12,395	2.82
Colorado	4,276	2,762	3,533	10,571	1.47
Connecticut	0	0	0	0	0.00
Delaware	4	2	2	8	0.97
Florida	137	153	152	442	2.22
Georgia	0	0	0	0	0.00
Idaho	1	1	1	4	2.64
Illinois	1,108	596	1,047	2,751	1.48
Indiana	14	8	9	31	1.26
Iowa	246	223	175	644	1.62
Kansas	1,607	801	1,031	3,438	1.14
Kentucky	10	4	4	19	0.80
Louisiana	1,782	1,220	1,153	4,155	1.33
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	5	4	5	15	1.76
Michigan	4,655	1,666	3,322	9,643	1.07
Minnesota	2,020	716	1,623	4,358	1.16
Mississippi	0	0	0	1	2.23
Missouri	6,513	2,152	3,770	12,435	0.91
Montana	2,615	2,001	2,817	7,433	1.84
Nebraska	514	497	338	1,349	1.63
Nevada	16	28	14	59	2.65
New Hampshire	0	0	0	0	0.00
New Jersey	42	35	39	116	1.73
New Mexico	5,433	3,157	4,187	12,778	1.35
New York	12	5	7	24	0.98
North Carolina	0	0	0	0	0.00
North Dakota	19,746	20,270	23,374	63,390	2.21
Ohio	1,918	1,453	1,833	5,204	1.71
Oklahoma	8,361	6,246	8,024	22,631	1.71
Oregon	169	139	129	437	1.59
Pennsylvania	498	704	645	1,847	2.71
Rhode Island	0	0	0	0	0.00
South Carolina	2	5	3	10	3.52
South Dakota	16	21	16	53	2.28
Tennessee	3	5	3	11	2.52
Texas	102,880	83,627	117,634	304,142	1.96
Utah	775	813	772	2,360	2.05
Vermont	0	0	0	0	0.00
Virginia	14	17	14	46	2.21
Washington	20	16	17	52	1.66
West Virginia	16	19	17	53	2.27
Wisconsin	2,091	826	1,699	4,616	1.21
Wyoming	674	325	266	1,265	0.88
US Total	173,097	136,565	182,787	492,448	1.84

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

US State-Level Employment Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2015
(Number of Workers)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	0	0	0	0	0.00
Arizona	1	1	1	3	2.89
Arkansas	2,121	1,252	1,308	4,681	1.21
California	4,170	6,513	5,254	15,938	2.82
Colorado	5,750	3,715	4,751	14,216	1.47
Connecticut	0	0	0	0	0.00
Delaware	21	8	12	41	0.97
Florida	156	173	172	502	2.22
Georgia	0	0	0	0	0.00
Idaho	1	2	2	5	2.64
Illinois	1,666	896	1,573	4,135	1.48
Indiana	69	41	46	155	1.26
Iowa	378	342	269	989	1.62
Kansas	3,757	1,872	2,411	8,040	1.14
Kentucky	53	23	20	95	0.80
Louisiana	1,109	758	717	2,584	1.33
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	27	21	26	74	1.76
Michigan	6,567	2,350	4,687	13,604	1.07
Minnesota	3,403	1,206	2,734	7,343	1.16
Mississippi	1	2	1	4	2.23
Missouri	8,182	2,704	4,736	15,621	0.91
Montana	4,338	3,197	4,673	12,208	1.81
Nebraska	727	704	478	1,910	1.63
Nevada	20	36	18	74	2.65
New Hampshire	0	0	0	0	0.00
New Jersey	216	177	197	591	1.73
New Mexico	5,900	3,428	4,547	13,875	1.35
New York	62	24	37	122	0.98
North Carolina	0	0	0	0	0.00
North Dakota	29,539	29,632	33,928	93,099	2.15
Ohio	14,003	10,611	13,384	37,998	1.71
Oklahoma	13,741	10,250	13,187	37,178	1.71
Oregon	240	198	184	621	1.59
Pennsylvania	997	1,411	1,291	3,699	2.71
Rhode Island	0	0	0	0	0.00
South Carolina	3	5	4	12	3.52
South Dakota	23	30	22	75	2.28
Tennessee	4	5	4	12	2.52
Texas	130,175	112,628	161,860	404,663	2.11
Utah	1,087	1,141	1,083	3,311	2.05
Vermont	0	0	0	0	0.00
Virginia	72	86	73	230	2.21
Washington	28	22	23	74	1.66
West Virginia	83	99	89	271	2.27
Wisconsin	2,967	1,172	2,411	6,551	1.21
Wyoming	954	460	377	1,791	0.88
US Total	242,607	197,198	266,590	706,395	1.91

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Employment Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2020 (Number of Workers)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	0	0	0	0	0.00
Arizona	1	1	1	3	2.89
Arkansas	2,166	1,399	1,385	4,949	1.29
California	4,183	6,637	5,329	16,148	2.86
Colorado	6,067	4,065	5,097	15,229	1.51
Connecticut	0	0	0	0	0.00
Delaware	33	14	19	66	0.97
Florida	150	166	165	481	2.22
Georgia	0	0	0	0	0.00
Idaho	1	1	2	4	1.89
Illinois	1,899	1,132	1,260	4,290	1.26
Indiana	108	87	72	268	1.47
Iowa	429	214	287	931	1.17
Kansas	5,675	2,446	2,111	10,232	0.80
Kentucky	85	62	57	204	1.39
Louisiana	1,084	742	701	2,527	1.33
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	43	16	31	90	1.11
Michigan	7,027	2,490	5,646	15,163	1.16
Minnesota	3,948	4,371	3,541	11,860	2.00
Mississippi	2	1	1	4	0.91
Missouri	8,370	5,398	8,385	22,153	1.65
Montana	4,584	3,504	2,982	11,070	1.41
Nebraska	764	1,351	674	2,789	2.65
Nevada	21	37	19	77	2.65
New Hampshire	0	0	0	0	0.00
New Jersey	349	207	277	833	1.39
New Mexico	6,324	2,404	3,756	12,485	0.97
New York	100	38	59	198	0.98
North Carolina	0	0	0	0	0.00
North Dakota	30,813	32,513	37,217	100,544	2.26
Ohio	25,747	18,581	24,793	69,120	1.68
Oklahoma	18,618	13,557	14,253	46,428	1.49
Oregon	254	335	312	901	2.54
Pennsylvania	1,283	1,816	1,662	4,761	2.71
Rhode Island	0	0	0	0	0.00
South Carolina	3	3	2	8	2.28
South Dakota	24	36	25	86	2.52
Tennessee	4	4	6	14	2.76
Texas	129,886	118,550	172,379	420,815	2.24
Utah	1,139	1,195	1,135	3,469	2.05
Vermont	0	0	0	0	0.00
Virginia	114	93	97	304	1.65
Washington	29	35	32	96	2.28
West Virginia	134	53	109	295	1.20
Wisconsin	3,135	1,517	1,242	5,895	0.88
Wyoming	1,014	489	401	1,904	0.88
US Total	265,611	225,561	295,521	786,693	1.96

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

US State-Level Employment Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2025 (Number of Workers)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	2	3	2	7	2.74
Arizona	1	2	1	4	2.89
Arkansas	3,427	2,143	2,191	7,761	1.26
California	6,023	8,481	7,338	21,841	2.63
Colorado	9,434	6,616	8,575	24,625	1.61
Connecticut	0	0	0	0	0.00
Delaware	41	17	23	80	0.97
Florida	144	159	158	461	2.21
Georgia	0	0	0	0	0.00
Idaho	3	5	4	11	2.64
Illinois	2,049	1,782	2,330	6,162	2.01
Indiana	140	83	93	317	1.26
Iowa	532	380	343	1,255	1.36
Kansas	7,902	3,945	5,306	17,153	1.17
Kentucky	104	45	39	187	0.80
Louisiana	6,394	4,706	5,725	16,825	1.63
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	54	43	53	150	1.76
Michigan	7,384	2,809	5,393	15,586	1.11
Minnesota	4,409	1,606	3,563	9,578	1.17
Mississippi	959	501	660	2,121	1.21
Missouri	8,515	2,829	4,939	16,283	0.91
Montana	5,158	3,765	5,012	13,936	1.70
Nebraska	814	771	527	2,113	1.59
Nevada	25	44	22	91	2.65
New Hampshire	0	0	0	0	0.00
New Jersey	423	346	384	1,153	1.73
New Mexico	8,496	4,957	6,410	19,864	1.34
New York	124	47	74	245	0.98
North Carolina	0	0	0	0	0.00
North Dakota	30,613	32,476	37,237	100,325	2.28
Ohio	30,994	19,932	28,384	79,309	1.56
Oklahoma	22,658	16,142	21,633	60,433	1.67
Oregon	280	250	227	756	1.70
Pennsylvania	1,409	1,830	1,708	4,947	2.51
Rhode Island	0	0	0	0	0.00
South Carolina	2	5	4	11	3.52
South Dakota	27	36	26	89	2.28
Tennessee	18	17	14	48	1.76
Texas	114,983	109,582	157,997	382,562	2.33
Utah	3,779	3,376	3,963	11,118	1.94
Vermont	0	0	0	0	0.00
Virginia	137	164	139	439	2.22
Washington	55	42	44	141	1.58
West Virginia	160	192	172	524	2.28
Wisconsin	3,308	1,290	2,683	7,281	1.20
Wyoming	3,116	1,455	1,502	6,074	0.95
US Total	284,096	232,873	314,898	831,867	1.93

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Employment Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2030 (Number of Workers)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	4	7	5	16	2.74
Arizona	2	3	2	7	2.89
Arkansas	5,613	3,273	3,566	12,451	1.22
California	8,544	10,764	10,061	29,370	2.44
Colorado	13,872	9,966	13,498	37,336	1.69
Connecticut	0	0	0	0	0.00
Delaware	50	20	28	99	0.97
Florida	150	166	165	482	2.21
Georgia	0	0	0	0	0.00
Idaho	5	8	6	19	2.64
Illinois	2,379	2,163	2,772	7,315	2.07
Indiana	183	109	121	414	1.26
Iowa	601	348	364	1,313	1.18
Kansas	10,585	5,270	7,089	22,944	1.17
Kentucky	128	55	48	230	0.80
Louisiana	14,571	9,904	12,812	37,288	1.56
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	69	55	67	191	1.76
Michigan	7,198	2,785	5,292	15,276	1.12
Minnesota	4,310	1,634	3,511	9,455	1.19
Mississippi	2,482	1,330	1,793	5,605	1.26
Missouri	9,396	3,102	5,447	17,945	0.91
Montana	5,183	3,732	4,917	13,832	1.67
Nebraska	684	636	438	1,758	1.57
Nevada	30	53	27	110	2.65
New Hampshire	0	0	0	0	0.00
New Jersey	520	422	471	1,413	1.71
New Mexico	11,695	6,758	8,549	27,003	1.31
New York	156	60	93	309	0.98
North Carolina	0	0	0	0	0.00
North Dakota	23,074	24,961	28,751	76,787	2.33
Ohio	36,077	23,163	32,741	91,981	1.55
Oklahoma	26,320	18,597	24,745	69,662	1.65
Oregon	248	250	220	719	1.90
Pennsylvania	1,661	2,139	2,000	5,801	2.49
Rhode Island	0	0	0	0	0.00
South Carolina	3	5	4	12	3.52
South Dakota	24	31	23	78	2.28
Tennessee	37	34	28	99	1.64
Texas	100,687	102,276	145,077	348,039	2.46
Utah	7,752	6,634	8,464	22,850	1.95
Vermont	0	0	0	0	0.00
Virginia	165	199	168	532	2.22
Washington	83	62	66	211	1.54
West Virginia	193	232	209	634	2.28
Wisconsin	2,771	1,061	2,242	6,073	1.19
Wyoming	6,253	2,931	3,281	12,465	0.99
US Total	303,760	245,199	329,161	878,120	1.89

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

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Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Employment Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2035 (Number of Workers)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	7	11	8	25	2.74
Arizona	2	3	2	7	2.89
Arkansas	7,081	4,011	4,480	15,572	1.20
California	10,261	11,999	11,793	34,053	2.32
Colorado	16,931	12,381	17,085	46,398	1.74
Connecticut	0	0	0	0	0.00
Delaware	57	23	32	113	0.97
Florida	111	123	123	357	2.22
Georgia	0	0	0	0	0.00
Idaho	7	10	8	25	2.64
Illinois	2,376	2,285	2,847	7,508	2.16
Indiana	218	130	145	492	1.26
Iowa	617	293	356	1,266	1.05
Kansas	11,925	5,905	7,953	25,783	1.16
Kentucky	146	63	54	264	0.80
Louisiana	21,777	12,888	16,324	50,989	1.34
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	81	64	79	225	1.76
Michigan	6,329	2,509	4,698	13,536	1.14
Minnesota	4,003	1,585	3,291	8,879	1.22
Mississippi	3,834	2,047	2,754	8,635	1.25
Missouri	8,305	2,731	4,821	15,857	0.91
Montana	4,933	3,497	4,551	12,981	1.63
Nebraska	515	467	324	1,306	1.54
Nevada	30	54	27	111	2.65
New Hampshire	0	0	0	0	0.00
New Jersey	595	479	536	1,609	1.71
New Mexico	12,222	7,066	8,727	28,014	1.29
New York	181	70	108	359	0.98
North Carolina	0	0	0	0	0.00
North Dakota	14,516	16,079	18,624	49,219	2.39
Ohio	38,274	24,502	34,288	97,064	1.54
Oklahoma	23,483	16,666	22,282	62,430	1.66
Oregon	204	239	203	646	2.17
Pennsylvania	1,776	2,254	2,114	6,144	2.46
Rhode Island	0	0	0	0	0.00
South Carolina	2	4	3	9	3.52
South Dakota	19	25	18	61	2.28
Tennessee	54	47	39	140	1.58
Texas	74,136	83,053	117,312	274,501	2.70
Utah	11,145	9,348	12,202	32,695	1.93
Vermont	0	0	0	0	0.00
Virginia	187	224	190	601	2.22
Washington	108	80	85	273	1.52
West Virginia	218	262	236	716	2.28
Wisconsin	2,016	754	1,626	4,396	1.18
Wyoming	8,923	4,164	4,758	17,845	1.00
US Total	287,606	228,394	305,105	821,105	1.85

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

Value Added Contribution Excluding Cross-State Contributions: Alphabetical by State

US State-Level Value Added Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2012 (2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	0	0	0	0	0.00
Arizona	0	0	0	0	1.17
Arkansas	143	77	55	275	0.93
California	337	516	331	1,184	2.51
Colorado	353	279	252	884	1.50
Connecticut	0	0	0	0	0.00
Delaware	0	0	0	1	0.67
Florida	9	13	10	32	2.52
Georgia	0	0	0	0	0.00
Idaho	0	0	0	0	0.66
Illinois	127	65	79	271	1.13
Indiana	1	1	1	3	0.82
Iowa	22	17	9	48	1.18
Kansas	228	65	59	353	0.54
Kentucky	1	0	0	1	0.81
Louisiana	158	93	64	314	0.99
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	0	0	0	1	1.93
Michigan	368	162	220	749	1.04
Minnesota	212	69	109	389	0.84
Mississippi	0	0	0	0	0.70
Missouri	460	187	232	878	0.91
Montana	695	147	153	995	0.43
Nebraska	36	38	18	92	1.57
Nevada	3	2	1	6	1.06
New Hampshire	0	0	0	0	0.00
New Jersey	6	4	3	13	1.23
New Mexico	1,078	202	223	1,503	0.39
New York	1	1	1	2	1.33
North Carolina	0	0	0	0	0.00
North Dakota	2,918	1,909	1,325	6,152	1.11
Ohio	323	121	111	556	0.72
Oklahoma	1,800	525	461	2,786	0.55
Oregon	16	12	8	36	1.31
Pennsylvania	53	67	45	165	2.11
Rhode Island	0	0	0	0	0.00
South Carolina	1	0	0	1	0.72
South Dakota	4	2	1	6	0.74
Tennessee	0	0	0	1	2.34
Texas	37,867	12,108	9,875	59,851	0.58
Utah	80	64	44	188	1.36
Vermont	0	0	0	0	0.00
Virginia	2	2	1	5	1.59
Washington	1	2	1	4	1.99
West Virginia	4	2	1	7	0.83
Wisconsin	224	66	100	390	0.74
Wyoming	75	33	16	124	0.66
US Total	47,605	16,852	13,810	78,267	0.64

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Value Added Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2015					
(2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	0	0	0	0	0.00
Arizona	0	0	0	0	1.17
Arkansas	251	142	98	491	0.95
California	593	910	580	2,083	2.51
Colorado	794	639	571	2,003	1.52
Connecticut	0	0	0	0	0.00
Delaware	3	1	1	6	0.67
Florida	14	20	15	49	2.52
Georgia	0	0	0	0	0.00
Idaho	0	0	0	1	0.66
Illinois	266	167	175	608	1.29
Indiana	10	4	4	18	0.82
Iowa	46	33	19	97	1.13
Kansas	740	203	190	1,133	0.53
Kentucky	5	2	2	8	0.81
Louisiana	100	62	40	203	1.02
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	3	3	3	9	1.93
Michigan	710	323	426	1,459	1.05
Minnesota	484	158	248	890	0.84
Mississippi	0	0	0	1	0.70
Missouri	784	320	395	1,499	0.91
Montana	1,381	293	317	1,991	0.44
Nebraska	69	72	35	176	1.56
Nevada	5	3	2	9	1.06
New Hampshire	0	0	0	0	0.00
New Jersey	40	27	23	90	1.23
New Mexico	1,175	216	240	1,631	0.39
New York	6	4	4	15	1.33
North Carolina	0	0	0	0	0.00
North Dakota	5,748	2,927	2,204	10,879	0.89
Ohio	2,675	861	874	4,409	0.65
Oklahoma	3,980	1,103	980	6,064	0.52
Oregon	30	24	15	69	1.30
Pennsylvania	89	110	74	274	2.07
Rhode Island	0	0	0	0	0.00
South Carolina	1	0	0	2	0.72
South Dakota	7	4	2	12	0.74
Tennessee	0	1	0	1	2.34
Texas	49,799	15,565	14,035	79,399	0.59
Utah	160	130	88	377	1.36
Vermont	0	0	0	0	0.00
Virginia	12	12	7	31	1.59
Washington	3	3	2	8	1.99
West Virginia	25	14	7	46	0.83
Wisconsin	431	128	192	750	0.74
Wyoming	144	64	31	240	0.67
US Total	70,584	24,547	21,898	117,029	0.66

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Value Added Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2020					
(2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	0	0	0	0	0.00
Arizona	0	0	0	0	1.17
Arkansas	267	155	104	526	0.97
California	613	943	600	2,156	2.52
Colorado	863	700	622	2,185	1.53
Connecticut	0	0	0	0	0.00
Delaware	6	2	2	9	0.67
Florida	14	19	15	48	2.52
Georgia	0	0	0	0	0.00
Idaho	1	0	0	1	0.66
Illinois	318	223	217	758	1.39
Indiana	16	7	6	29	0.82
Iowa	53	36	22	110	1.09
Kansas	1,232	321	304	1,857	0.51
Kentucky	8	4	3	14	0.81
Louisiana	100	62	40	202	1.01
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	5	5	5	15	1.93
Michigan	785	365	471	1,622	1.07
Minnesota	576	188	296	1,059	0.84
Mississippi	1	0	0	1	0.70
Missouri	824	336	415	1,574	0.91
Montana	1,517	323	347	2,187	0.44
Nebraska	74	77	38	189	1.55
Nevada	5	3	2	10	1.06
New Hampshire	0	0	0	0	0.00
New Jersey	67	45	38	150	1.24
New Mexico	1,300	237	264	1,800	0.39
New York	11	7	7	25	1.33
North Carolina	0	0	0	0	0.00
North Dakota	6,252	3,221	2,419	11,892	0.90
Ohio	5,392	1,617	1,684	8,693	0.61
Oklahoma	5,784	1,520	1,365	8,669	0.50
Oregon	33	26	17	75	1.30
Pennsylvania	108	132	88	328	2.04
Rhode Island	0	0	0	0	0.00
South Carolina	1	0	0	2	0.72
South Dakota	8	4	2	13	0.74
Tennessee	0	1	0	1	2.34
Texas	53,633	16,621	14,957	85,211	0.59
Utah	173	140	95	408	1.36
Vermont	0	0	0	0	0.00
Virginia	20	20	11	51	1.59
Washington	3	3	3	9	1.99
West Virginia	42	24	11	77	0.83
Wisconsin	467	138	208	813	0.74
Wyoming	157	70	34	262	0.66
US Total	80,726	27,596	24,711	133,034	0.65

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Value Added Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2025 (2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	1	0	0	1	0.77
Arizona	0	0	0	1	1.17
Arkansas	532	238	171	942	0.77
California	1,084	1,261	859	3,203	1.96
Colorado	1,815	1,129	1,044	3,987	1.20
Connecticut	0	0	0	0	0.00
Delaware	7	2	2	12	0.67
Florida	14	19	15	48	2.52
Georgia	0	0	0	0	0.00
Idaho	1	0	0	2	0.66
Illinois	361	272	254	887	1.45
Indiana	21	9	8	38	0.82
Iowa	68	41	27	136	1.00
Kansas	1,801	466	442	2,709	0.50
Kentucky	10	5	3	18	0.81
Louisiana	795	243	212	1,250	0.57
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	7	7	6	20	1.93
Michigan	861	404	517	1,783	1.07
Minnesota	670	224	345	1,239	0.85
Mississippi	234	46	50	331	0.41
Missouri	874	356	439	1,669	0.91
Montana	1,701	364	394	2,459	0.45
Nebraska	82	85	42	208	1.54
Nevada	6	4	2	12	1.06
New Hampshire	0	0	0	0	0.00
New Jersey	84	57	47	188	1.24
New Mexico	1,638	312	342	2,292	0.40
New York	14	9	10	32	1.34
North Carolina	0	0	0	0	0.00
North Dakota	6,372	3,209	2,424	12,005	0.88
Ohio	6,738	2,013	2,103	10,854	0.61
Oklahoma	7,391	1,903	1,714	11,008	0.49
Oregon	38	32	20	90	1.38
Pennsylvania	117	142	95	354	2.03
Rhode Island	0	0	0	0	0.00
South Carolina	1	0	0	2	0.72
South Dakota	9	4	2	15	0.74
Tennessee	2	2	1	5	1.61
Texas	47,478	15,388	13,774	76,640	0.61
Utah	901	367	328	1,597	0.77
Vermont	0	0	0	0	0.00
Virginia	25	25	14	63	1.59
Washington	5	6	5	16	2.00
West Virginia	52	30	14	96	0.83
Wisconsin	513	151	228	891	0.74
Wyoming	801	182	133	1,116	0.39
US Total	83,124	29,008	26,089	138,222	0.66

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Value Added Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2030
(2012 \$M)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	2	1	0	3	0.77
Arizona	1	0	0	1	1.17
Arkansas	1,001	361	283	1,645	0.64
California	1,798	1,635	1,195	4,628	1.57
Colorado	3,299	1,664	1,612	6,575	0.99
Connecticut	0	0	0	0	0.00
Delaware	9	3	3	15	0.67
Florida	15	20	16	51	2.51
Georgia	0	0	0	0	0.00
Idaho	2	1	0	3	0.66
Illinois	433	334	306	1,074	1.48
Indiana	28	12	11	51	0.82
Iowa	78	39	29	146	0.86
Kansas	2,436	631	600	3,667	0.51
Kentucky	12	6	4	22	0.81
Louisiana	2,070	565	521	3,156	0.52
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	9	9	8	26	1.93
Michigan	857	409	515	1,781	1.08
Minnesota	665	230	346	1,240	0.87
Mississippi	659	126	138	923	0.40
Missouri	977	396	492	1,865	0.91
Montana	1,676	373	393	2,442	0.46
Nebraska	70	71	35	176	1.52
Nevada	7	5	3	15	1.06
New Hampshire	0	0	0	0	0.00
New Jersey	104	70	59	233	1.23
New Mexico	2,146	422	455	3,023	0.41
New York	18	11	12	41	1.34
North Carolina	0	0	0	0	0.00
North Dakota	4,838	2,476	1,880	9,193	0.90
Ohio	7,799	2,363	2,461	12,623	0.62
Oklahoma	8,582	2,207	1,981	12,771	0.49
Oregon	35	33	20	88	1.50
Pennsylvania	136	165	111	411	2.03
Rhode Island	0	0	0	0	0.00
South Carolina	1	0	0	2	0.72
South Dakota	8	4	2	14	0.74
Tennessee	4	4	3	11	1.50
Texas	38,875	14,246	12,749	65,870	0.69
Utah	2,161	708	702	3,571	0.65
Vermont	0	0	0	0	0.00
Virginia	30	31	17	78	1.59
Washington	8	9	7	24	2.00
West Virginia	64	37	17	118	0.83
Wisconsin	436	126	194	756	0.73
Wyoming	1,912	349	295	2,556	0.34
US Total	83,261	30,154	27,473	140,888	0.69

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Value Added Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2035					
(2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	3	1	1	5	0.77
Arizona	1	0	0	1	1.17
Arkansas	1,356	443	362	2,161	0.59
California	2,354	1,860	1,425	5,638	1.40
Colorado	4,474	2,054	2,033	8,561	0.91
Connecticut	0	0	0	0	0.00
Delaware	10	3	3	17	0.67
Florida	11	15	12	39	2.50
Georgia	0	0	0	0	0.00
Idaho	3	1	1	4	0.66
Illinois	447	358	320	1,125	1.52
Indiana	34	15	13	62	0.82
Iowa	82	33	29	144	0.76
Kansas	2,776	718	684	4,179	0.51
Kentucky	14	7	5	26	0.81
Louisiana	3,148	835	782	4,766	0.51
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	11	11	10	31	1.93
Michigan	773	378	465	1,616	1.09
Minnesota	629	226	329	1,184	0.88
Mississippi	1,027	197	216	1,440	0.40
Missouri	881	355	443	1,678	0.91
Montana	1,557	359	370	2,286	0.47
Nebraska	53	53	26	133	1.49
Nevada	8	5	3	16	1.06
New Hampshire	0	0	0	0	0.00
New Jersey	121	81	68	270	1.23
New Mexico	2,155	438	465	3,059	0.42
New York	21	14	15	49	1.34
North Carolina	0	0	0	0	0.00
North Dakota	3,069	1,605	1,226	5,899	0.92
Ohio	8,175	2,525	2,619	13,319	0.63
Oklahoma	7,937	2,031	1,824	11,792	0.49
Oregon	30	32	19	81	1.67
Pennsylvania	141	170	115	426	2.02
Rhode Island	0	0	0	0	0.00
South Carolina	1	0	0	1	0.72
South Dakota	6	3	1	11	0.74
Tennessee	6	6	4	16	1.44
Texas	28,100	11,635	10,402	50,137	0.78
Utah	3,239	1,002	1,026	5,266	0.63
Vermont	0	0	0	0	0.00
Virginia	35	35	20	90	1.59
Washington	10	11	9	31	2.01
West Virginia	74	42	19	135	0.83
Wisconsin	323	91	143	557	0.72
Wyoming	2,863	493	429	3,785	0.32
US Total	75,958	28,145	25,934	130,036	0.71

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

Labor Income Contribution Excluding Cross-State Contributions: Alphabetical by State

US State-Level Labor Income Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2012 (2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	0	0	0	0	0.00
Arizona	0	0	0	0	5.61
Arkansas	107	64	42	212	0.99
California	245	465	262	972	2.97
Colorado	282	225	178	686	1.43
Connecticut	0	0	0	0	0.00
Delaware	0	0	0	1	1.24
Florida	9	8	6	23	1.54
Georgia	0	0	0	0	0.00
Idaho	0	0	0	0	3.29
Illinois	97	56	59	212	1.19
Indiana	1	1	0	2	1.22
Iowa	16	14	7	38	1.29
Kansas	106	90	72	268	1.54
Kentucky	0	0	0	1	1.51
Louisiana	103	92	56	252	1.44
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	0	0	0	1	1.26
Michigan	315	120	144	579	0.84
Minnesota	163	57	81	300	0.85
Mississippi	0	0	0	0	3.26
Missouri	386	147	158	691	0.79
Montana	271	101	111	483	0.78
Nebraska	24	36	16	76	2.11
Nevada	1	3	1	5	3.56
New Hampshire	0	0	0	0	0.00
New Jersey	5	3	2	10	1.27
New Mexico	451	257	205	912	1.02
New York	1	0	0	2	1.04
North Carolina	0	0	0	0	0.00
North Dakota	1,331	1,057	730	3,118	1.34
Ohio	144	177	143	464	2.22
Oklahoma	852	408	359	1,619	0.90
Oregon	9	13	8	30	2.36
Pennsylvania	38	60	36	134	2.51
Rhode Island	0	0	0	0	0.00
South Carolina	0	0	0	1	2.43
South Dakota	1	3	1	5	3.42
Tennessee	0	0	0	1	2.66
Texas	16,043	6,356	5,420	27,819	0.73
Utah	50	62	39	151	2.01
Vermont	0	0	0	0	0.00
Virginia	1	2	1	4	2.17
Washington	1	1	1	3	1.39
West Virginia	2	2	1	5	1.40
Wisconsin	171	57	75	304	0.77
Wyoming	42	29	14	86	1.04
US Total	21,272	9,968	8,230	39,470	0.86

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Labor Income Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2015
(2012 \$M)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	0	0	0	0	0.00
Arizona	0	0	0	0	6.54
Arkansas	160	118	74	352	1.20
California	366	825	462	1,653	3.51
Colorado	544	517	403	1,464	1.69
Connecticut	0	0	0	0	0.00
Delaware	2	1	1	4	1.45
Florida	12	13	9	33	1.79
Georgia	0	0	0	0	0.00
Idaho	0	0	0	1	3.84
Illinois	173	144	133	451	1.61
Indiana	5	4	3	13	1.43
Iowa	29	28	15	71	1.48
Kansas	290	193	219	702	1.42
Kentucky	2	3	1	6	1.76
Louisiana	53	63	37	152	1.88
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	3	2	2	7	1.47
Michigan	518	239	281	1,039	1.00
Minnesota	319	129	185	633	0.99
Mississippi	0	0	0	0	3.80
Missouri	564	251	270	1,085	0.92
Montana	481	165	172	817	0.70
Nebraska	40	68	30	138	2.46
Nevada	2	5	2	9	4.16
New Hampshire	0	0	0	0	0.00
New Jersey	27	23	17	67	1.48
New Mexico	414	318	267	998	1.41
New York	5	3	3	11	1.22
North Carolina	0	0	0	0	0.00
North Dakota	5,340	1,658	1,160	8,158	0.53
Ohio	1,010	897	943	2,851	1.82
Oklahoma	1,562	648	562	2,772	0.77
Oregon	15	26	15	56	2.76
Pennsylvania	55	99	59	214	2.87
Rhode Island	0	0	0	0	0.00
South Carolina	0	1	0	1	2.84
South Dakota	2	6	3	10	3.99
Tennessee	0	0	0	1	3.10
Texas	18,463	8,227	7,282	33,973	0.84
Utah	87	124	79	289	2.35
Vermont	0	0	0	0	0.00
Virginia	7	11	6	24	2.54
Washington	2	2	1	6	1.62
West Virginia	12	13	7	32	1.63
Wisconsin	283	109	145	537	0.90
Wyoming	70	57	28	154	1.21
US Total	30,915	14,989	12,878	58,782	0.90

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Labor Income Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2020
(2012 \$M)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	0	0	0	0	0.00
Arizona	0	0	0	0	6.52
Arkansas	169	130	80	378	1.24
California	379	856	479	1,714	3.52
Colorado	592	569	440	1,601	1.70
Connecticut	0	0	0	0	0.00
Delaware	3	2	2	7	1.45
Florida	12	12	9	33	1.78
Georgia	0	0	0	0	0.00
Idaho	0	0	0	1	3.82
Illinois	206	195	167	567	1.75
Indiana	9	7	5	21	1.42
Iowa	33	31	17	80	1.43
Kansas	467	261	284	1,012	1.17
Kentucky	4	4	2	10	1.75
Louisiana	53	62	37	152	1.88
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	5	4	3	11	1.46
Michigan	573	270	313	1,156	1.02
Minnesota	381	154	221	755	0.98
Mississippi	0	0	0	1	3.79
Missouri	595	264	283	1,142	0.92
Montana	528	181	191	900	0.70
Nebraska	43	73	32	148	2.44
Nevada	2	5	2	9	4.14
New Hampshire	0	0	0	0	0.00
New Jersey	45	38	28	111	1.48
New Mexico	457	354	298	1,110	1.43
New York	8	5	5	18	1.21
North Carolina	0	0	0	0	0.00
North Dakota	5,856	1,821	1,273	8,951	0.53
Ohio	1,974	1,307	1,345	4,627	1.34
Oklahoma	2,198	845	740	3,783	0.72
Oregon	16	28	17	61	2.74
Pennsylvania	67	119	72	257	2.85
Rhode Island	0	0	0	0	0.00
South Carolina	0	1	0	1	2.83
South Dakota	2	6	3	11	3.97
Tennessee	0	1	0	1	3.09
Texas	19,640	8,706	7,773	36,118	0.84
Utah	94	135	85	313	2.35
Vermont	0	0	0	0	0.00
Virginia	11	19	9	39	2.54
Washington	2	2	2	6	1.61
West Virginia	20	22	11	53	1.64
Wisconsin	308	118	157	583	0.89
Wyoming	76	62	30	169	1.21
US Total	34,827	16,669	14,414	65,911	0.89

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Labor Income Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2025
(2012 \$M)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	0	1	0	1	4.21
Arizona	0	0	0	1	6.48
Arkansas	282	228	158	667	1.37
California	601	1,276	769	2,647	3.40
Colorado	1,030	802	750	2,583	1.51
Connecticut	0	0	0	0	0.00
Delaware	3	3	2	8	1.44
Florida	12	12	9	33	1.78
Georgia	0	0	0	0	0.00
Idaho	0	1	0	2	3.80
Illinois	235	239	195	668	1.85
Indiana	12	9	7	28	1.41
Iowa	43	35	21	99	1.29
Kansas	684	340	352	1,376	1.01
Kentucky	5	5	3	13	1.74
Louisiana	315	339	261	915	1.90
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	6	5	4	15	1.45
Michigan	630	299	344	1,273	1.02
Minnesota	445	184	258	887	0.99
Mississippi	91	68	62	220	1.43
Missouri	633	280	301	1,214	0.92
Montana	602	205	213	1,021	0.69
Nebraska	48	81	36	164	2.43
Nevada	2	7	3	12	4.12
New Hampshire	0	0	0	0	0.00
New Jersey	56	48	35	139	1.46
New Mexico	592	433	353	1,378	1.33
New York	11	7	6	23	1.21
North Carolina	0	0	0	0	0.00
North Dakota	5,896	1,819	1,276	8,990	0.52
Ohio	2,482	1,534	1,553	5,569	1.24
Oklahoma	2,780	1,022	892	4,693	0.69
Oregon	19	34	20	73	2.80
Pennsylvania	72	128	77	278	2.84
Rhode Island	0	0	0	0	0.00
South Carolina	0	1	0	1	2.81
South Dakota	3	7	3	13	3.95
Tennessee	1	2	1	4	2.70
Texas	17,657	8,078	7,174	32,909	0.86
Utah	373	311	322	1,006	1.70
Vermont	0	0	0	0	0.00
Virginia	14	23	12	48	2.53
Washington	4	4	3	11	1.57
West Virginia	25	27	14	66	1.63
Wisconsin	340	129	172	641	0.88
Wyoming	319	132	87	539	0.69
US Total	36,325	18,156	15,747	70,228	0.93

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Labor Income Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2030
(2012 \$M)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	1	1	1	3	4.10
Arizona	0	1	0	1	6.31
Arkansas	487	294	274	1,055	1.16
California	935	1,803	1,174	3,911	3.18
Colorado	1,690	1,081	1,011	3,782	1.24
Connecticut	0	0	0	0	0.00
Delaware	4	3	3	11	1.40
Florida	13	13	9	35	1.74
Georgia	0	0	0	0	0.00
Idaho	1	1	1	3	3.70
Illinois	288	295	237	819	1.85
Indiana	16	12	9	37	1.37
Iowa	51	33	22	106	1.08
Kansas	954	434	430	1,819	0.91
Kentucky	6	7	4	17	1.69
Louisiana	807	722	588	2,117	1.62
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	8	6	5	19	1.41
Michigan	642	303	343	1,289	1.01
Minnesota	454	190	258	901	0.99
Mississippi	257	153	173	583	1.26
Missouri	730	311	336	1,376	0.89
Montana	616	211	218	1,045	0.70
Nebraska	42	68	30	140	2.35
Nevada	3	8	3	14	4.01
New Hampshire	0	0	0	0	0.00
New Jersey	72	59	43	174	1.42
New Mexico	808	548	434	1,790	1.21
New York	14	8	8	30	1.18
North Carolina	0	0	0	0	0.00
North Dakota	4,559	1,403	990	6,952	0.53
Ohio	2,981	1,757	1,737	6,476	1.17
Oklahoma	3,309	1,188	1,027	5,524	0.67
Oregon	19	34	19	72	2.83
Pennsylvania	86	149	90	325	2.76
Rhode Island	0	0	0	0	0.00
South Carolina	0	1	0	1	2.74
South Dakota	2	6	3	12	3.85
Tennessee	3	4	2	9	2.55
Texas	15,424	7,570	6,663	29,657	0.92
Utah	854	492	496	1,842	1.16
Vermont	0	0	0	0	0.00
Virginia	17	28	14	60	2.46
Washington	7	6	4	17	1.50
West Virginia	32	33	17	82	1.58
Wisconsin	297	107	146	551	0.85
Wyoming	740	219	150	1,109	0.50
US Total	37,229	19,563	16,974	73,767	0.98

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Labor Income Contribution of Unconventional Oil Excluding Cross-State Contributions*, 2035
(2012 \$M)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	1	2	1	4	4.00
Arizona	0	1	0	1	6.15
Arkansas	644	328	297	1,268	0.97
California	1,200	2,137	1,463	4,800	3.00
Colorado	2,218	1,269	1,182	4,669	1.11
Connecticut	0	0	0	0	0.00
Delaware	5	4	3	13	1.36
Florida	10	10	7	27	1.70
Georgia	0	0	0	0	0.00
Idaho	1	2	1	4	3.60
Illinois	303	317	248	869	1.87
Indiana	19	15	11	46	1.34
Iowa	55	28	22	105	0.92
Kansas	1,119	480	462	2,060	0.84
Kentucky	7	8	5	20	1.65
Louisiana	1,250	899	712	2,862	1.29
Maine	0	0	0	0	0.00
Maryland	0	0	0	0	0.00
Massachusetts	10	8	6	23	1.38
Michigan	591	280	312	1,183	1.00
Minnesota	440	187	247	873	0.99
Mississippi	413	181	215	809	0.96
Missouri	675	279	302	1,256	0.86
Montana	595	203	208	1,006	0.69
Nebraska	32	51	23	106	2.27
Nevada	3	8	4	15	3.90
New Hampshire	0	0	0	0	0.00
New Jersey	86	68	50	204	1.37
New Mexico	844	562	435	1,841	1.18
New York	17	10	9	36	1.15
North Carolina	0	0	0	0	0.00
North Dakota	2,938	909	647	4,494	0.53
Ohio	3,250	1,829	1,771	6,850	1.11
Oklahoma	3,118	1,112	961	5,190	0.66
Oregon	17	32	17	67	2.88
Pennsylvania	92	154	93	339	2.68
Rhode Island	0	0	0	0	0.00
South Carolina	0	1	0	1	2.67
South Dakota	2	5	2	9	3.75
Tennessee	4	6	3	13	2.44
Texas	11,755	6,210	5,460	23,425	0.99
Utah	1,294	640	634	2,567	0.98
Vermont	0	0	0	0	0.00
Virginia	20	33	16	69	2.40
Washington	9	8	5	22	1.45
West Virginia	37	38	19	95	1.54
Wisconsin	226	78	108	412	0.82
Wyoming	1,125	292	203	1,619	0.44
US Total	34,424	18,682	16,167	69,272	1.01

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

UNCONVENTIONAL GAS

Employment Contribution Excluding Cross-State Contributions: Alphabetical by State

US State-Level Employment Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2012 (Number of Workers)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	7	12	8	28	2.74
Arizona	0	0	0	0	0.00
Arkansas	10,275	5,121	6,600	21,996	1.14
California	3,237	4,155	3,573	10,965	2.39
Colorado	19,462	13,760	20,577	53,799	1.76
Connecticut	0	1	1	2	2.89
Delaware	63	63	59	185	1.92
Florida	70	78	78	227	2.22
Georgia	0	0	0	0	0.00
Idaho	3	4	3	9	2.64
Illinois	2,313	1,149	2,178	5,641	1.44
Indiana	128	126	100	353	1.77
Iowa	290	71	164	526	0.81
Kansas	463	300	361	1,124	1.43
Kentucky	71	77	56	203	1.87
Louisiana	22,532	16,698	20,886	60,115	1.67
Maine	0	0	0	0	0.00
Maryland	2	2	2	6	2.54
Massachusetts	19	15	19	53	1.80
Michigan	3,362	1,310	2,478	7,149	1.13
Minnesota	307	109	247	662	1.16
Mississippi	0	0	0	0	2.23
Missouri	5,891	1,904	3,421	11,217	0.90
Montana	0	0	0	0	0.00
Nebraska	68	50	37	154	1.28
Nevada	13	22	11	46	2.65
New Hampshire	7	4	5	16	1.34
New Jersey	153	135	150	437	1.86
New Mexico	1,683	1,416	1,079	4,179	1.48
New York	82	44	56	182	1.22
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	2,292	1,951	2,122	6,365	1.78
Oklahoma	12,776	8,688	10,948	32,412	1.54
Oregon	27	57	43	127	3.77
Pennsylvania	25,130	19,382	25,807	70,319	1.80
Rhode Island	0	0	0	0	0.00
South Carolina	1	2	1	4	3.52
South Dakota	3	3	3	9	2.28
Tennessee	33	25	22	79	1.43
Texas	56,594	57,346	79,530	193,470	2.42
Utah	9,348	8,115	11,609	29,072	2.11
Vermont	0	0	0	0	0.00
Virginia	114	178	165	458	3.01
Washington	0	0	0	0	0.00
West Virginia	3,615	1,640	2,062	7,317	1.02
Wisconsin	190	89	158	437	1.30
Wyoming	6,742	3,324	4,079	14,145	1.10
US Total	187,363	147,425	198,697	533,486	1.85

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Employment Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2015
(Number of Workers)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	10	15	11	36	2.74
Arizona	0	0	0	0	0.00
Arkansas	15,248	7,749	9,915	32,912	1.16
California	3,788	4,923	4,210	12,921	2.41
Colorado	24,156	17,917	27,621	69,694	1.89
Connecticut	1	1	1	2	2.89
Delaware	84	81	76	241	1.87
Florida	101	112	111	323	2.21
Georgia	0	0	0	0	0.00
Idaho	3	4	3	10	2.64
Illinois	3,010	1,517	2,845	7,372	1.45
Indiana	177	169	136	482	1.73
Iowa	352	85	198	635	0.80
Kansas	547	382	449	1,377	1.52
Kentucky	98	100	73	271	1.78
Louisiana	25,745	20,357	27,870	73,972	1.87
Maine	0	0	0	0	0.00
Maryland	2	3	2	7	2.54
Massachusetts	30	24	30	84	1.79
Michigan	4,543	1,781	3,357	9,680	1.13
Minnesota	510	181	410	1,100	1.16
Mississippi	0	0	0	1	2.23
Missouri	8,389	2,714	4,858	15,961	0.90
Montana	0	0	0	0	0.00
Nebraska	78	56	42	176	1.26
Nevada	16	28	14	57	2.65
New Hampshire	9	5	7	21	1.34
New Jersey	231	199	223	652	1.82
New Mexico	1,429	1,453	1,065	3,946	1.76
New York	120	62	81	263	1.20
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	5,159	3,929	4,701	13,790	1.67
Oklahoma	20,685	14,678	19,737	55,100	1.66
Oregon	32	69	52	153	3.78
Pennsylvania	43,203	33,680	46,960	123,843	1.87
Rhode Island	0	0	0	0	0.00
South Carolina	1	3	2	6	3.52
South Dakota	3	4	3	10	2.28
Tennessee	36	28	24	88	1.42
Texas	77,392	80,906	113,814	272,112	2.52
Utah	10,527	9,062	12,861	32,450	2.08
Vermont	0	0	0	0	0.00
Virginia	159	244	225	627	2.95
Washington	0	0	0	0	0.00
West Virginia	7,310	3,278	4,298	14,885	1.04
Wisconsin	261	119	217	597	1.29
Wyoming	9,847	4,929	6,166	20,942	1.13
US Total	263,287	210,846	292,667	766,800	1.91

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Employment Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2020
(Number of Workers)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	10	17	12	39	2.74
Arizona	0	0	0	0	0.00
Arkansas	16,112	8,053	10,300	34,465	1.14
California	3,727	4,970	4,201	12,899	2.46
Colorado	28,708	21,606	33,697	84,012	1.93
Connecticut	1	1	1	3	2.89
Delaware	117	108	104	329	1.81
Florida	141	157	156	455	2.21
Georgia	0	0	0	0	0.00
Idaho	2	1	2	4	1.46
Illinois	4,124	3,773	3,125	11,022	1.67
Indiana	260	59	144	464	0.78
Iowa	374	314	349	1,036	1.77
Kansas	553	531	391	1,474	1.67
Kentucky	144	111	148	402	1.80
Louisiana	26,293	20,790	28,149	75,232	1.86
Maine	0	0	0	0	0.00
Maryland	3	2	3	7	1.79
Massachusetts	51	20	38	109	1.14
Michigan	6,333	2,244	5,089	13,665	1.16
Minnesota	846	1,131	759	2,736	2.23
Mississippi	1	0	0	1	0.90
Missouri	12,290	3,977	7,118	23,384	0.90
Montana	0	0	0	0	0.00
Nebraska	61	107	54	221	2.65
Nevada	18	10	14	42	1.34
New Hampshire	13	11	12	35	1.78
New Jersey	377	421	348	1,147	2.04
New Mexico	938	473	625	2,035	1.17
New York	188	98	127	412	1.20
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	12,981	9,163	12,218	34,363	1.65
Oklahoma	30,640	22,301	30,770	83,711	1.73
Oregon	37	29	45	111	2.01
Pennsylvania	56,673	44,181	61,388	162,241	1.86
Rhode Island	0	0	0	0	0.00
South Carolina	2	3	2	7	2.28
South Dakota	2	1	1	4	1.41
Tennessee	39	40	56	136	2.45
Texas	107,091	95,054	138,027	340,172	2.18
Utah	6,913	5,951	8,446	21,310	2.08
Vermont	0	0	0	0	0.00
Virginia	235	361	333	929	2.95
Washington	0	0	0	0	0.00
West Virginia	10,172	4,594	7,751	22,517	1.21
Wisconsin	353	186	238	776	1.20
Wyoming	7,989	3,999	5,003	16,991	1.13
US Total	334,808	254,849	359,242	948,899	1.83

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Employment Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2025
(Number of Workers)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	12	18	13	43	2.74
Arizona	0	0	0	0	0.00
Arkansas	14,761	7,345	9,535	31,640	1.14
California	3,184	4,355	3,643	11,182	2.51
Colorado	30,807	23,652	37,346	91,805	1.98
Connecticut	1	2	1	4	2.89
Delaware	154	140	135	429	1.78
Florida	165	182	182	529	2.21
Georgia	0	0	0	0	0.00
Idaho	0	1	0	1	2.64
Illinois	5,036	2,535	4,753	12,325	1.45
Indiana	356	318	267	941	1.64
Iowa	374	78	204	656	0.76
Kansas	484	490	518	1,492	2.09
Kentucky	196	181	134	510	1.61
Louisiana	27,866	21,190	28,125	77,181	1.77
Maine	0	0	0	0	0.00
Maryland	3	5	4	12	2.54
Massachusetts	75	60	73	207	1.78
Michigan	7,746	3,114	5,781	16,641	1.15
Minnesota	1,201	426	965	2,592	1.16
Mississippi	1	2	1	4	2.23
Missouri	14,849	4,805	8,577	28,232	0.90
Montana	0	0	0	0	0.00
Nebraska	36	19	16	71	0.97
Nevada	17	31	15	64	2.65
New Hampshire	17	9	13	39	1.34
New Jersey	540	445	506	1,491	1.76
New Mexico	310	439	448	1,197	2.86
New York	263	131	174	568	1.16
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	21,817	15,002	20,314	57,132	1.62
Oklahoma	39,223	27,521	36,632	103,377	1.64
Oregon	39	84	64	186	3.81
Pennsylvania	72,575	57,210	77,183	206,967	1.85
Rhode Island	0	0	0	0	0.00
South Carolina	2	5	3	11	3.52
South Dakota	0	1	0	1	2.28
Tennessee	28	21	19	68	1.41
Texas	127,550	129,929	180,816	438,296	2.44
Utah	2,282	2,195	3,387	7,864	2.45
Vermont	0	0	0	0	0.00
Virginia	318	475	433	1,226	2.85
Washington	0	0	0	0	0.00
West Virginia	13,576	6,139	8,079	27,795	1.05
Wisconsin	431	197	358	985	1.29
Wyoming	3,768	2,136	2,817	8,720	1.31
US Total	390,064	310,888	431,536	1,132,488	1.90

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Employment Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2030 (Number of Workers)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	12	18	13	43	2.74
Arizona	0	0	0	1	2.89
Arkansas	8,933	4,451	5,795	19,179	1.15
California	2,833	3,745	3,188	9,767	2.45
Colorado	32,469	25,196	39,662	97,328	2.00
Connecticut	2	3	2	7	2.89
Delaware	214	187	183	585	1.73
Florida	131	145	144	420	2.21
Georgia	0	0	0	0	0.00
Idaho	1	1	1	3	2.64
Illinois	5,689	2,826	5,342	13,858	1.44
Indiana	522	454	389	1,366	1.61
Iowa	471	103	256	829	0.76
Kansas	514	526	558	1,599	2.11
Kentucky	279	246	183	708	1.54
Louisiana	27,874	20,921	27,699	76,494	1.74
Maine	0	0	0	0	0.00
Maryland	5	6	5	16	2.54
Massachusetts	118	94	116	327	1.78
Michigan	8,455	3,530	6,407	18,391	1.18
Minnesota	1,823	646	1,465	3,933	1.16
Mississippi	349	175	220	743	1.13
Missouri	13,326	4,309	7,709	25,344	0.90
Montana	0	0	0	0	0.00
Nebraska	47	28	23	97	1.08
Nevada	16	28	14	58	2.65
New Hampshire	25	14	20	59	1.34
New Jersey	801	663	749	2,213	1.76
New Mexico	1,548	1,068	1,205	3,822	1.47
New York	384	193	256	833	1.17
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	32,202	21,832	29,720	83,755	1.60
Oklahoma	42,905	29,586	39,034	111,525	1.60
Oregon	43	93	71	207	3.81
Pennsylvania	93,458	70,864	94,046	258,368	1.76
Rhode Island	0	0	0	0	0.00
South Carolina	2	4	3	9	3.52
South Dakota	1	1	1	4	2.28
Tennessee	11	10	8	29	1.75
Texas	104,797	107,749	149,797	362,343	2.46
Utah	1,876	1,730	2,541	6,147	2.28
Vermont	0	0	0	0	0.00
Virginia	450	665	605	1,720	2.82
Washington	0	0	0	0	0.00
West Virginia	17,408	7,890	10,299	35,598	1.04
Wisconsin	520	248	435	1,202	1.31
Wyoming	3,568	1,885	2,350	7,803	1.19
US Total	404,080	312,138	430,515	1,146,733	1.84

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Employment Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2035 (Number of Workers)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	10	17	12	39	2.74
Arizona	1	1	1	3	2.89
Arkansas	11,417	5,641	7,083	24,142	1.11
California	2,859	3,645	3,171	9,674	2.38
Colorado	31,887	25,672	38,253	95,812	2.00
Connecticut	3	4	3	10	2.89
Delaware	276	235	232	742	1.69
Florida	122	135	135	393	2.21
Georgia	0	0	0	0	0.00
Idaho	2	3	2	7	2.64
Illinois	6,805	3,515	6,464	16,784	1.47
Indiana	697	601	517	1,816	1.60
Iowa	622	140	339	1,101	0.77
Kansas	653	644	692	1,989	2.05
Kentucky	360	309	231	899	1.50
Louisiana	27,299	20,680	27,659	75,638	1.77
Maine	0	0	0	0	0.00
Maryland	6	8	7	20	2.54
Massachusetts	162	130	160	452	1.78
Michigan	9,089	3,907	6,970	19,966	1.20
Minnesota	2,267	803	1,821	4,891	1.16
Mississippi	1,135	590	775	2,500	1.20
Missouri	12,752	4,119	7,400	24,270	0.90
Montana	0	0	0	0	0.00
Nebraska	59	41	31	132	1.23
Nevada	15	27	14	56	2.65
New Hampshire	37	21	29	87	1.34
New Jersey	1,038	876	979	2,892	1.79
New Mexico	4,565	2,714	3,233	10,512	1.30
New York	498	258	335	1,091	1.19
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	39,374	26,708	36,182	102,264	1.60
Oklahoma	49,075	33,380	43,793	126,248	1.57
Oregon	43	92	70	205	3.81
Pennsylvania	115,560	85,815	113,884	315,259	1.73
Rhode Island	0	0	0	0	0.00
South Carolina	2	3	2	7	3.52
South Dakota	2	3	2	7	2.28
Tennessee	32	32	25	89	1.75
Texas	87,184	89,440	122,248	298,872	2.43
Utah	3,329	2,845	3,904	10,079	2.03
Vermont	0	0	0	0	0.00
Virginia	578	854	776	2,207	2.82
Washington	0	0	0	0	0.00
West Virginia	21,341	9,677	12,577	43,594	1.04
Wisconsin	646	313	542	1,501	1.32
Wyoming	4,973	2,447	2,919	10,339	1.08
US Total	436,771	326,344	443,474	1,206,589	1.76

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

Value Added Contribution Excluding Cross-State Contributions: Alphabetical by State

US State-Level Value Added Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2012 (2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	3	1	1	5	0.77
Arizona	0	0	0	0	0.00
Arkansas	2,006	478	458	2,943	0.47
California	414	538	371	1,323	2.20
Colorado	5,853	1,731	1,715	9,299	0.59
Connecticut	0	0	0	0	0.90
Delaware	10	8	5	24	1.31
Florida	6	8	7	21	2.52
Georgia	0	0	0	0	0.00
Idaho	1	0	0	1	0.66
Illinois	353	163	210	727	1.06
Indiana	15	12	8	35	1.31
Iowa	35	8	11	54	0.54
Kansas	72	38	27	136	0.90
Kentucky	9	7	4	21	1.25
Louisiana	5,582	1,442	1,377	8,401	0.51
Maine	0	0	0	0	0.00
Maryland	1	0	0	1	0.85
Massachusetts	2	2	2	6	1.93
Michigan	350	169	211	730	1.08
Minnesota	41	13	21	76	0.84
Mississippi	0	0	0	0	0.70
Missouri	537	213	270	1,020	0.90
Montana	0	0	0	0	0.00
Nebraska	6	5	3	13	1.25
Nevada	3	2	1	6	1.06
New Hampshire	1	1	0	2	1.53
New Jersey	30	20	16	66	1.17
New Mexico	170	108	70	347	1.04
New York	9	7	6	23	1.51
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	288	212	166	666	1.32
Oklahoma	3,233	913	809	4,954	0.53
Oregon	4	7	3	14	2.40
Pennsylvania	5,972	2,113	2,124	10,209	0.71
Rhode Island	0	0	0	0	0.00
South Carolina	0	0	0	1	0.72
South Dakota	1	0	0	1	0.74
Tennessee	3	3	2	8	1.30
Texas	18,862	8,290	7,236	34,387	0.82
Utah	2,107	541	598	3,246	0.54
Vermont	0	0	0	0	0.00
Virginia	29	30	15	73	1.55
Washington	0	0	0	0	0.00
West Virginia	795	158	144	1,097	0.38
Wisconsin	26	9	12	47	0.81
Wyoming	2,265	344	289	2,898	0.28
US Total	49,096	17,595	16,191	82,882	0.69

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Value Added Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2015 (2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	4	2	1	6	0.77
Arizona	0	0	0	0	0.00
Arkansas	3,282	776	743	4,801	0.46
California	522	688	472	1,682	2.23
Colorado	6,264	2,232	2,314	10,809	0.73
Connecticut	0	0	0	0	0.90
Delaware	15	11	7	33	1.28
Florida	9	13	10	32	2.52
Georgia	0	0	0	0	0.00
Idaho	1	0	0	2	0.66
Illinois	497	232	297	1,026	1.06
Indiana	23	18	11	52	1.26
Iowa	46	10	15	71	0.54
Kansas	97	52	36	185	0.91
Kentucky	13	11	6	30	1.22
Louisiana	6,490	1,590	1,533	9,613	0.48
Maine	0	0	0	0	0.00
Maryland	1	0	0	2	0.85
Massachusetts	4	4	3	11	1.93
Michigan	512	248	308	1,069	1.09
Minnesota	74	24	38	136	0.84
Mississippi	0	0	0	0	0.70
Missouri	822	327	414	1,563	0.90
Montana	0	0	0	0	0.00
Nebraska	7	6	3	16	1.23
Nevada	4	2	1	7	1.06
New Hampshire	1	1	1	2	1.53
New Jersey	49	31	26	106	1.18
New Mexico	100	68	41	208	1.09
New York	14	11	10	35	1.49
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	915	456	397	1,768	0.93
Oklahoma	6,567	1,670	1,508	9,745	0.48
Oregon	5	9	4	19	2.42
Pennsylvania	7,030	2,362	2,399	11,791	0.68
Rhode Island	0	0	0	0	0.00
South Carolina	0	0	0	1	0.72
South Dakota	1	0	0	2	0.74
Tennessee	4	3	2	9	1.29
Texas	30,073	12,697	11,172	53,942	0.79
Utah	5,586	1,384	1,605	8,574	0.54
Vermont	0	0	0	0	0.00
Virginia	42	44	21	107	1.55
Washington	0	0	0	0	0.00
West Virginia	1,845	344	324	2,513	0.36
Wisconsin	39	13	18	69	0.80
Wyoming	3,739	544	507	4,790	0.28
US Total	74,697	25,883	24,249	124,829	0.67

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Value Added Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2020
(2012 \$M)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	4	2	1	7	0.77
Arizona	0	0	0	0	0.00
Arkansas	3,328	811	772	4,910	0.48
California	511	694	471	1,677	2.28
Colorado	7,738	2,655	2,787	13,180	0.70
Connecticut	0	0	0	1	0.90
Delaware	20	15	10	46	1.24
Florida	13	18	14	45	2.52
Georgia	0	0	0	0	0.00
Idaho	1	0	0	1	0.66
Illinois	681	323	408	1,413	1.07
Indiana	34	25	16	75	1.21
Iowa	49	10	16	74	0.52
Kansas	114	65	41	220	0.94
Kentucky	19	14	8	41	1.19
Louisiana	6,005	1,522	1,448	8,975	0.49
Maine	0	0	0	0	0.00
Maryland	1	1	0	2	0.85
Massachusetts	6	6	6	19	1.93
Michigan	716	351	432	1,500	1.09
Minnesota	123	40	63	226	0.84
Mississippi	0	0	0	0	0.70
Missouri	1,199	479	605	2,283	0.90
Montana	0	0	0	0	0.00
Nebraska	6	4	2	12	1.14
Nevada	4	3	2	8	1.06
New Hampshire	1	1	1	3	1.53
New Jersey	77	49	42	169	1.18
New Mexico	98	60	37	195	0.98
New York	22	17	16	54	1.48
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	2,851	1,064	1,016	4,931	0.73
Oklahoma	9,543	2,443	2,202	14,187	0.49
Oregon	6	10	5	21	2.47
Pennsylvania	9,424	3,168	3,207	15,799	0.68
Rhode Island	0	0	0	0	0.00
South Carolina	1	0	0	1	0.72
South Dakota	1	0	0	1	0.74
Tennessee	4	3	2	10	1.29
Texas	39,775	16,773	14,982	71,531	0.80
Utah	4,315	1,080	1,204	6,599	0.53
Vermont	0	0	0	0	0.00
Virginia	60	63	31	155	1.56
Washington	0	0	0	0	0.00
West Virginia	2,599	484	455	3,537	0.36
Wisconsin	52	18	24	94	0.79
Wyoming	3,363	479	457	4,298	0.28
US Total	92,766	32,751	30,784	156,301	0.68

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Value Added Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2025					
(2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	4	2	1	8	0.77
Arizona	0	0	0	0	0.00
Arkansas	3,085	761	724	4,569	0.48
California	442	616	414	1,472	2.33
Colorado	8,670	2,882	3,059	14,611	0.69
Connecticut	0	0	0	1	0.90
Delaware	27	20	13	60	1.22
Florida	15	21	17	54	2.52
Georgia	0	0	0	0	0.00
Idaho	0	0	0	0	0.66
Illinois	841	393	502	1,735	1.06
Indiana	48	34	22	104	1.17
Iowa	49	9	15	74	0.51
Kansas	118	71	42	231	0.96
Kentucky	26	19	11	55	1.17
Louisiana	6,193	1,592	1,508	9,292	0.50
Maine	0	0	0	0	0.00
Maryland	1	1	0	3	0.85
Massachusetts	9	10	9	27	1.93
Michigan	892	444	538	1,874	1.10
Minnesota	177	58	91	326	0.84
Mississippi	0	0	0	1	0.70
Missouri	1,466	586	740	2,792	0.90
Montana	0	0	0	0	0.00
Nebraska	3	2	1	7	0.95
Nevada	4	3	2	8	1.06
New Hampshire	2	1	1	4	1.53
New Jersey	111	71	60	242	1.18
New Mexico	85	44	28	158	0.85
New York	31	24	22	76	1.47
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	5,108	1,767	1,735	8,609	0.69
Oklahoma	12,289	3,113	2,832	18,235	0.48
Oregon	6	11	6	23	2.53
Pennsylvania	12,439	4,172	4,222	20,833	0.67
Rhode Island	0	0	0	0	0.00
South Carolina	1	0	0	2	0.72
South Dakota	0	0	0	0	0.74
Tennessee	3	2	2	7	1.29
Texas	47,764	19,892	17,979	85,635	0.79
Utah	2,380	538	622	3,540	0.49
Vermont	0	0	0	0	0.00
Virginia	81	85	42	208	1.56
Washington	0	0	0	0	0.00
West Virginia	3,535	657	617	4,809	0.36
Wisconsin	64	22	30	116	0.80
Wyoming	1,831	254	242	2,327	0.27
US Total	107,802	38,177	36,149	182,127	0.69

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Value Added Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2030					
(2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	5	2	1	8	0.77
Arizona	0	0	0	0	1.17
Arkansas	1,854	511	468	2,832	0.53
California	422	565	385	1,373	2.25
Colorado	9,183	3,115	3,286	15,585	0.70
Connecticut	1	0	0	1	0.90
Delaware	40	28	19	88	1.18
Florida	13	18	14	45	2.52
Georgia	0	0	0	0	0.00
Idaho	0	0	0	1	0.66
Illinois	1,007	466	600	2,073	1.06
Indiana	75	52	34	161	1.15
Iowa	65	13	21	99	0.51
Kansas	135	82	48	264	0.96
Kentucky	38	28	16	81	1.15
Louisiana	6,419	1,654	1,568	9,641	0.50
Maine	0	0	0	0	0.00
Maryland	2	1	1	4	0.85
Massachusetts	16	16	14	46	1.93
Michigan	1,048	542	634	2,224	1.12
Minnesota	286	93	147	525	0.84
Mississippi	79	16	17	112	0.43
Missouri	1,403	559	707	2,669	0.90
Montana	0	0	0	0	0.00
Nebraska	5	3	2	10	1.06
Nevada	4	3	1	8	1.06
New Hampshire	3	2	2	7	1.53
New Jersey	174	112	95	381	1.19
New Mexico	321	94	81	496	0.55
New York	48	37	34	119	1.49
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	7,997	2,723	2,698	13,418	0.68
Oklahoma	13,920	3,459	3,193	20,572	0.48
Oregon	8	13	7	27	2.53
Pennsylvania	16,243	5,474	5,548	27,264	0.68
Rhode Island	0	0	0	0	0.00
South Carolina	1	0	0	1	0.72
South Dakota	0	0	0	1	0.74
Tennessee	1	1	1	3	1.60
Texas	41,926	17,934	15,839	75,699	0.81
Utah	1,454	358	399	2,210	0.52
Vermont	0	0	0	0	0.00
Virginia	121	126	62	308	1.56
Washington	0	0	0	0	0.00
West Virginia	4,755	897	837	6,489	0.36
Wisconsin	83	29	38	150	0.82
Wyoming	1,549	233	214	1,996	0.29
US Total	110,701	39,260	37,033	186,993	0.69

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Value Added Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2035					
(2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	4	2	1	8	0.77
Arizona	0	0	0	1	1.17
Arkansas	2,351	665	602	3,618	0.54
California	452	580	403	1,436	2.18
Colorado	9,101	3,172	3,323	15,596	0.71
Connecticut	1	1	0	2	0.90
Delaware	54	37	26	117	1.16
Florida	13	18	14	45	2.51
Georgia	0	0	0	0	0.00
Idaho	1	0	0	1	0.66
Illinois	1,270	608	763	2,641	1.08
Indiana	105	72	48	225	1.14
Iowa	91	18	29	138	0.52
Kansas	175	105	63	343	0.96
Kentucky	50	37	21	108	1.14
Louisiana	6,905	1,750	1,670	10,326	0.50
Maine	0	0	0	0	0.00
Maryland	3	2	1	5	0.85
Massachusetts	23	23	21	67	1.93
Michigan	1,197	637	726	2,560	1.14
Minnesota	374	122	192	687	0.84
Mississippi	301	59	64	424	0.41
Missouri	1,421	563	714	2,698	0.90
Montana	0	0	0	0	0.00
Nebraska	6	5	3	14	1.20
Nevada	4	3	2	8	1.06
New Hampshire	4	3	3	11	1.53
New Jersey	239	156	130	525	1.20
New Mexico	1,008	234	231	1,473	0.46
New York	65	52	47	164	1.52
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	10,161	3,497	3,457	17,115	0.68
Oklahoma	16,426	4,007	3,703	24,136	0.47
Oregon	8	13	7	28	2.51
Pennsylvania	20,565	6,938	7,044	34,547	0.68
Rhode Island	0	0	0	0	0.00
South Carolina	1	0	0	1	0.72
South Dakota	1	0	0	1	0.74
Tennessee	4	4	3	11	1.60
Texas	34,870	15,757	13,608	64,235	0.84
Utah	1,727	480	512	2,718	0.57
Vermont	0	0	0	0	0.00
Virginia	163	170	84	416	1.56
Washington	0	0	0	0	0.00
West Virginia	6,084	1,156	1,075	8,315	0.37
Wisconsin	108	39	50	197	0.82
Wyoming	1,936	309	280	2,525	0.30
US Total	117,272	41,293	38,919	197,485	0.68

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

Labor Income Contribution Excluding Cross-State Contributions: Alphabetical by State

US State-Level Labor Income Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2012 (2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	1	2	1	4	3.78
Arizona	0	0	0	0	0.00
Arkansas	893	323	307	1,523	0.70
California	290	486	294	1,070	2.69
Colorado	2,472	1,026	963	4,461	0.80
Connecticut	0	0	0	0	3.20
Delaware	7	7	4	19	1.70
Florida	6	5	4	15	1.60
Georgia	0	0	0	0	0.00
Idaho	0	1	0	1	3.41
Illinois	258	140	160	558	1.16
Indiana	10	12	6	28	1.77
Iowa	26	6	8	40	0.54
Kansas	45	33	23	101	1.27
Kentucky	6	7	3	16	1.73
Louisiana	2,538	1,225	848	4,611	0.82
Maine	0	0	0	0	0.00
Maryland	0	1	0	1	4.08
Massachusetts	2	2	1	5	1.30
Michigan	285	125	141	550	0.93
Minnesota	31	11	16	58	0.88
Mississippi	0	0	0	0	3.38
Missouri	437	167	183	787	0.80
Montana	0	0	0	0	0.00
Nebraska	4	5	2	11	2.00
Nevada	1	3	1	5	3.69
New Hampshire	1	0	0	1	0.99
New Jersey	22	17	13	52	1.38
New Mexico	116	100	55	272	1.34
New York	7	6	5	17	1.40
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	197	195	134	526	1.67
Oklahoma	1,444	566	495	2,505	0.73
Oregon	3	6	3	12	3.08
Pennsylvania	2,448	1,541	1,300	5,289	1.16
Rhode Island	0	0	0	0	0.00
South Carolina	0	0	0	0	2.52
South Dakota	0	1	0	1	3.55
Tennessee	2	3	2	6	2.19
Texas	8,631	4,602	4,200	17,433	1.02
Utah	910	741	755	2,406	1.64
Vermont	0	0	0	0	0.00
Virginia	16	28	14	58	2.66
Washington	0	0	0	0	0.00
West Virginia	328	150	125	603	0.84
Wisconsin	19	8	9	36	0.88
Wyoming	881	209	157	1,248	0.42
US Total	22,337	11,758	10,234	44,329	0.98

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

US State-Level Labor Income Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2015
(2012 \$M)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	1	3	1	6	3.76
Arizona	0	0	0	0	0.00
Arkansas	1,448	1,094	914	3,457	1.39
California	368	621	373	1,361	2.70
Colorado	2,785	3,071	2,844	8,701	2.12
Connecticut	0	0	0	0	3.18
Delaware	10	10	6	26	1.68
Florida	9	8	6	23	1.59
Georgia	0	0	0	0	0.00
Idaho	0	1	0	1	3.39
Illinois	364	199	226	789	1.17
Indiana	15	17	9	41	1.72
Iowa	34	8	11	53	0.54
Kansas	59	47	32	138	1.34
Kentucky	9	10	5	23	1.72
Louisiana	2,625	2,434	2,064	7,123	1.71
Maine	0	0	0	0	0.00
Maryland	0	1	0	1	4.07
Massachusetts	4	3	2	8	1.30
Michigan	418	184	206	807	0.93
Minnesota	55	20	28	103	0.87
Mississippi	0	0	0	0	3.37
Missouri	673	256	281	1,210	0.80
Montana	0	0	0	0	0.00
Nebraska	4	6	3	13	1.98
Nevada	2	4	2	7	3.68
New Hampshire	1	0	0	2	0.98
New Jersey	35	27	20	83	1.35
New Mexico	64	64	34	162	1.52
New York	11	9	7	27	1.37
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	493	536	409	1,438	1.92
Oklahoma	2,741	2,238	1,939	6,918	1.52
Oregon	4	8	4	15	3.04
Pennsylvania	2,853	3,373	3,322	9,548	2.35
Rhode Island	0	0	0	0	0.00
South Carolina	0	0	0	1	2.51
South Dakota	0	1	0	1	3.53
Tennessee	2	3	2	8	2.18
Texas	13,466	15,511	13,354	42,330	2.14
Utah	2,210	2,317	2,223	6,751	2.05
Vermont	0	0	0	0	0.00
Virginia	23	41	20	85	2.64
Washington	0	0	0	0	0.00
West Virginia	742	539	430	1,711	1.31
Wisconsin	29	11	13	53	0.86
Wyoming	1,447	878	653	2,978	1.06
US Total	33,006	33,552	29,446	96,004	1.91

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

US State-Level Labor Income Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2020
(2012 \$M)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	1	3	2	6	3.77
Arizona	0	0	0	0	0.00
Arkansas	1,509	1,109	923	3,541	1.35
California	361	625	371	1,357	2.75
Colorado	3,379	3,706	3,486	10,571	2.13
Connecticut	0	0	0	1	3.19
Delaware	14	14	9	36	1.67
Florida	12	12	8	32	1.59
Georgia	0	0	0	0	0.00
Idaho	0	0	0	1	3.40
Illinois	499	277	311	1,087	1.18
Indiana	22	24	13	59	1.67
Iowa	36	8	11	55	0.53
Kansas	65	61	39	166	1.53
Kentucky	12	14	7	33	1.72
Louisiana	2,467	2,301	1,918	6,686	1.71
Maine	0	0	0	0	0.00
Maryland	0	1	1	2	4.07
Massachusetts	6	4	3	14	1.30
Michigan	582	260	289	1,131	0.94
Minnesota	91	33	47	171	0.87
Mississippi	0	0	0	0	3.37
Missouri	983	374	410	1,766	0.80
Montana	0	0	0	0	0.00
Nebraska	3	4	2	10	1.91
Nevada	2	5	2	8	3.68
New Hampshire	1	1	1	2	0.98
New Jersey	57	43	32	131	1.32
New Mexico	60	57	32	149	1.50
New York	18	13	11	42	1.33
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	1,304	1,469	1,232	4,004	2.07
Oklahoma	3,994	3,275	2,821	10,090	1.53
Oregon	4	9	4	17	2.98
Pennsylvania	3,808	4,533	4,458	12,799	2.36
Rhode Island	0	0	0	0	0.00
South Carolina	0	1	0	1	2.51
South Dakota	0	0	0	1	3.53
Tennessee	3	3	2	8	2.17
Texas	17,969	20,741	17,733	56,443	2.14
Utah	1,667	1,746	1,707	5,120	2.07
Vermont	0	0	0	0	0.00
Virginia	34	59	29	123	2.64
Washington	0	0	0	0	0.00
West Virginia	1,039	761	607	2,406	1.32
Wisconsin	39	15	18	72	0.86
Wyoming	1,264	782	587	2,633	1.08
US Total	41,304	42,345	37,126	120,775	1.92

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Labor Income Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2025 (2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	1	4	2	7	3.77
Arizona	0	0	0	0	0.00
Arkansas	1,417	1,018	854	3,289	1.32
California	313	553	325	1,191	2.81
Colorado	3,730	4,071	3,879	11,680	2.13
Connecticut	0	0	0	1	3.19
Delaware	18	18	11	48	1.66
Florida	15	14	10	38	1.59
Georgia	0	0	0	0	0.00
Idaho	0	0	0	0	3.40
Illinois	615	337	382	1,334	1.17
Indiana	31	32	18	82	1.65
Iowa	36	7	11	55	0.52
Kansas	64	70	42	176	1.74
Kentucky	16	18	9	44	1.72
Louisiana	2,561	2,394	1,982	6,937	1.71
Maine	0	0	0	0	0.00
Maryland	0	1	1	2	4.07
Massachusetts	9	7	5	21	1.30
Michigan	722	328	361	1,411	0.96
Minnesota	132	47	68	247	0.87
Mississippi	0	0	0	1	3.37
Missouri	1,201	457	501	2,159	0.80
Montana	0	0	0	0	0.00
Nebraska	2	2	1	5	1.73
Nevada	2	4	2	8	3.68
New Hampshire	2	1	1	3	0.99
New Jersey	81	61	46	188	1.31
New Mexico	48	43	27	118	1.44
New York	25	18	15	59	1.32
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	2,246	2,533	2,184	6,963	2.10
Oklahoma	5,133	4,220	3,633	12,985	1.53
Oregon	5	9	4	18	2.92
Pennsylvania	5,010	5,973	5,881	16,865	2.37
Rhode Island	0	0	0	0	0.00
South Carolina	0	1	0	1	2.52
South Dakota	0	0	0	0	3.54
Tennessee	2	3	2	6	2.17
Texas	21,545	24,902	21,293	67,739	2.14
Utah	872	904	927	2,704	2.10
Vermont	0	0	0	0	0.00
Virginia	46	80	40	165	2.62
Washington	0	0	0	0	0.00
West Virginia	1,408	1,035	825	3,268	1.32
Wisconsin	48	19	22	89	0.87
Wyoming	667	424	320	1,411	1.12
US Total	48,023	49,609	43,685	141,317	1.94

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Labor Income Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2030					
(2012 \$M)					
	Direct	Indirect	Induced	Total	State Multiplier
Alabama	2	4	2	7	3.77
Arizona	0	0	0	0	5.80
Arkansas	918	622	512	2,052	1.24
California	297	511	304	1,112	2.74
Colorado	3,988	4,374	4,129	12,491	2.13
Connecticut	0	1	0	1	3.19
Delaware	26	27	16	69	1.65
Florida	12	12	8	32	1.59
Georgia	0	0	0	0	0.00
Idaho	0	0	0	0	3.40
Illinois	737	399	457	1,594	1.16
Indiana	48	49	29	126	1.62
Iowa	48	10	15	73	0.53
Kansas	73	79	48	201	1.73
Kentucky	24	27	14	64	1.71
Louisiana	2,665	2,485	2,054	7,204	1.70
Maine	0	0	0	0	0.00
Maryland	1	2	1	4	4.07
Massachusetts	15	11	8	35	1.30
Michigan	842	401	429	1,672	0.99
Minnesota	212	76	109	398	0.87
Mississippi	35	24	21	79	1.28
Missouri	1,148	436	479	2,064	0.80
Montana	0	0	0	0	0.00
Nebraska	3	3	2	8	1.84
Nevada	2	4	2	8	3.68
New Hampshire	3	1	1	5	0.98
New Jersey	128	97	72	296	1.32
New Mexico	150	123	92	365	1.43
New York	39	29	23	91	1.32
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	3,506	3,924	3,409	10,839	2.09
Oklahoma	5,807	4,806	4,119	14,732	1.54
Oregon	5	11	5	21	2.92
Pennsylvania	6,580	7,823	7,685	22,088	2.36
Rhode Island	0	0	0	0	0.00
South Carolina	0	1	0	1	2.52
South Dakota	0	0	0	1	3.54
Tennessee	1	1	1	3	2.41
Texas	18,962	21,922	18,710	59,594	2.14
Utah	552	584	574	1,710	2.10
Vermont	0	0	0	0	0.00
Virginia	68	118	59	244	2.61
Washington	0	0	0	0	0.00
West Virginia	1,909	1,400	1,110	4,419	1.32
Wisconsin	61	25	29	115	0.89
Wyoming	590	371	272	1,233	1.09
US Total	49,457	50,794	44,801	145,052	1.93

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight

America's New Energy Future: The Unconventional Oil and Gas Revolution and the US Economy
Appendix C – Economic Contributions Excluding Cross-State Contributions by State and Year

US State-Level Labor Income Contribution of Unconventional Gas Excluding Cross-State Contributions*, 2035
(2012 \$M)

	Direct	Indirect	Induced	Total	State Multiplier
Alabama	1	4	2	7	3.77
Arizona	0	0	0	1	5.80
Arkansas	1,179	808	651	2,638	1.24
California	318	523	318	1,160	2.64
Colorado	4,014	4,399	4,113	12,525	2.12
Connecticut	0	1	1	2	3.19
Delaware	35	35	22	93	1.64
Florida	12	11	8	32	1.59
Georgia	0	0	0	0	0.00
Idaho	0	1	0	1	3.40
Illinois	930	521	582	2,033	1.19
Indiana	68	69	40	177	1.61
Iowa	67	15	21	103	0.54
Kansas	97	101	62	259	1.68
Kentucky	32	36	18	85	1.71
Louisiana	2,845	2,645	2,205	7,694	1.70
Maine	0	0	0	0	0.00
Maryland	1	2	1	4	4.07
Massachusetts	22	16	12	50	1.30
Michigan	956	472	494	1,921	1.01
Minnesota	278	100	143	521	0.87
Mississippi	129	88	79	296	1.29
Missouri	1,161	440	485	2,086	0.80
Montana	0	0	0	0	0.00
Nebraska	4	5	2	11	1.96
Nevada	2	4	2	8	3.68
New Hampshire	4	2	2	8	0.98
New Jersey	175	135	99	408	1.33
New Mexico	438	346	281	1,066	1.43
New York	54	40	32	126	1.34
North Carolina	0	0	0	0	0.00
North Dakota	0	0	0	0	0.00
Ohio	4,489	5,010	4,335	13,833	2.08
Oklahoma	6,851	5,689	4,862	17,402	1.54
Oregon	6	11	5	22	2.94
Pennsylvania	8,357	9,907	9,730	27,994	2.35
Rhode Island	0	0	0	0	0.00
South Carolina	0	0	0	1	2.51
South Dakota	0	1	0	1	3.53
Tennessee	3	4	2	9	2.41
Texas	16,162	18,642	15,688	50,492	2.12
Utah	696	748	695	2,139	2.07
Vermont	0	0	0	0	0.00
Virginia	91	159	79	330	2.61
Washington	0	0	0	0	0.00
West Virginia	2,454	1,796	1,420	5,670	1.31
Wisconsin	80	34	38	151	0.90
Wyoming	771	472	340	1,584	1.05
US Total	52,780	53,292	46,871	152,942	1.90

*This table presents the indirect and induced contributions generated by the direct activity in each state independent of all other states' activity – the indirect and induced contributions do not include leakages (cross-state contributions) in the supply chain from activities supported outside of the reported state.

Source: IHS Global Insight