

# CO<sub>2</sub> Stationary Source and Geologic Storage Resource Estimates by State/Province

## APPENDIX C

### Prepared for

U.S. Department of Energy  
National Energy Technology Laboratory  
Carbon Sequestration Program

### Prepared by

DOE Regional Carbon Sequestration Partnerships and  
the National Carbon Sequestration Database and Geographic Information System

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## CO<sub>2</sub> Stationary Source Emission Estimates by State/Province

The table (“Identified Stationary CO<sub>2</sub> Sources”) displays CO<sub>2</sub> stationary source data by state/province which were obtained from the RCSPs and compiled by NATCARB. As described on page 25, a total of more than 4,507 stationary sources with total annual emissions exceeding 3,400 million metric tons (3,748 million tons) of CO<sub>2</sub> have been documented by the RCSPs.

Information on the methods used in estimating CO<sub>2</sub> stationary source emissions can be found in the “CO<sub>2</sub> Stationary Source Emission Estimation Methodologies Summary” in Appendix A. Emissions data specific to each RCSP can be found within each RCSP section of *Atlas III*.

The States/provinces with the largest CO<sub>2</sub> stationary source emissions include Texas, Alberta, Indiana, Ohio, Florida, Pennsylvania, Illinois, Louisiana, West Virginia, and Missouri. The 343 stationary sources identified in Texas are estimated to emit 373 million metric tons per year (411 million tons per year) of CO<sub>2</sub>. The 305 stationary sources identified in Alberta are estimated to emit 208 million metric tons per year (229 million tons per year). The 92 stationary sources identified in Indiana are estimated to emit 155 million metric tons per year (171 million tons per year).

Identified Stationary CO<sub>2</sub> Sources

State/Province	CO <sub>2</sub> Emissions Million Metric Ton Per Year	Number of Sources	State/Province	CO <sub>2</sub> Emissions Million Metric Ton Per Year	Number of Sources
Alabama	80	59	New Brunswick	6	7
Alaska	20	49	New Hampshire	8	66
Alberta	208	305	New Jersey	35	123
Arizona	55	50	New Mexico	35	32
Arkansas	35	30	New York	77	386
British Columbia	15	53	Newfoundland & Labrador	4	7
California	84	182	North Carolina	77	55
Colorado	52	56	North Dakota	42	31
Connecticut	10	63	Northwest Territories	0	2
Delaware	6	16	Nova Scotia	11	7
District of Columbia	0	5	Ohio	149	51
Florida	143	108	Oklahoma	57	45
Georgia	90	64	Ontario	50	48
Hawaii	10	45	Oregon	11	22
Idaho	2	18	Pennsylvania	142	76
Illinois	122	138	Quebec	14	32
Indiana	155	92	Rhode Island	2	18
Iowa	55	63	Saskatchewan	42	35
Kansas	48	102	South Carolina	40	48
Kentucky	93	48	South Dakota	21	53
Louisiana	102	133	Tennessee	66	29
Maine	5	106	Texas	373	343
Manitoba	4	12	Utah	43	27
Maryland	37	21	Vermont	0	73
Massachusetts	25	137	Virginia	46	56
Michigan	84	45	Washington	21	35
Minnesota	59	103	West Virginia	99	26
Mississippi	34	49	Wisconsin	77	219
Missouri	98	126	Wyoming	59	101
Montana	28	78	Offshore	46	47
Nebraska	31	35			
Nevada	27	16			
			<b>TOTAL</b>	<b>3,467</b>	<b>4,507</b>

## Total CO<sub>2</sub> Storage Resource Estimates by State/Province

The table (“Total CO<sub>2</sub> Storage Resource”) displays the total CO<sub>2</sub> storage resource estimates by state/province which were obtained from the RCSPs and compiled by NATCARB. The total CO<sub>2</sub> storage resource is the sum of saline formation, oil and gas reservoir, and unmineable coal area CO<sub>2</sub> storage resource estimates. The current total CO<sub>2</sub> storage resource identified by the RCSPs is approximately 1,850 to 20,470 billion metric tons (2,040 to 22,570 billion tons).

Information on the methods used in estimating CO<sub>2</sub> storage resource can be found in the “Methodology for Development of Geologic Storage Estimates for Carbon Dioxide” in Appendix B. Please note CO<sub>2</sub> geologic storage information in *Atlas III* was developed to provide a high level overview of CO<sub>2</sub> geologic storage potential across the United States and parts of Canada. Carbon dioxide resource estimates presented are intended to be used as an initial assessment of potential geologic storage. This information provides CCS project developers a starting point for further investigation of the extent to which geologic CO<sub>2</sub> storage is feasible. This information is not intended as a substitute for site-specific characterization, assessment and testing. Please refer to page 14 of *Atlas III* for additional information on this level of assessment.

Total CO<sub>2</sub> Storage Resource\*

State/Province	Million Metric Tons		Million Tons	
	Low Estimate	High Estimate	Low Estimate	High Estimate
Alabama	14,020	166,320	15,454	183,336
Alaska	8,980	20,530	9,899	22,630
Alberta	46,080	50,170	50,795	55,303
Arizona	130	1,590	143	1,753
Arkansas	6,150	63,260	6,779	69,732
British Columbia	1,600	2,130	1,764	2,348
California	33,510	416,930	36,938	459,587
Colorado	32,960	426,800	36,332	470,466
Connecticut	0	0	0	0
Delaware	20	80	22	88
District of Columbia	0	0	0	0
Florida	17,120	219,850	18,872	242,343
Georgia	520	23,260	573	25,640
Hawaii				
Idaho	50	720	55	794
Illinois	10,040	118,290	11,067	130,392
Indiana	14,480	85,650	15,961	94,413
Iowa	10	160	11	176
Kansas	2,780	18,000	3,064	19,842
Kentucky	1,530	9,750	1,687	10,748
Louisiana	168,270	2,083,280	185,486	2,296,423
Maine				
Manitoba	1,050	1,050	1,157	1,157
Maryland	860	5,050	948	5,567
Massachusetts	0	0	0	0
Michigan	15,390	59,260	16,965	65,323
Minnesota				
Mississippi	51,460	637,970	56,725	703,242
Missouri	20	320	22	353
Montana	123,630	1,656,640	136,279	1,826,133
Nebraska	22,890	76,870	25,232	84,735
Nevada	0	0	0	0

State/Province	Million Metric Tons		Million Tons	
	Low Estimate	High Estimate	Low Estimate	High Estimate
New Brunswick				
New Hampshire				
New Jersey	0	0	0	0
New Mexico	39,550	449,300	43,596	495,268
New York	2,620	7,740	2,888	8,532
Newfoundland & Labrador				
North Carolina	1,320	18,170	1,455	20,029
North Dakota	108,230	125,080	119,303	137,877
Northwest Territories				
Nova Scotia				
Ohio	14,140	26,110	15,587	28,781
Oklahoma	8,120	8,130	8,951	8,962
Ontario	10	20	11	22
Oregon	7,080	97,390	7,804	107,354
Pennsylvania	10,100	30,920	11,133	34,083
Quebec	0	0	0	0
Rhode Island	0	0	0	0
Saskatchewan	7,900	15,740	8,708	17,350
South Carolina	200	9,660	220	10,648
South Dakota	17,580	156,180	19,379	172,159
Tennessee	490	6,650	540	7,330
Texas	393,490	4,662,190	433,748	5,139,185
Utah	22,180	289,960	24,449	319,626
Vermont	0	0	0	0
Virginia	330	1,240	364	1,367
Washington	29,930	411,570	32,992	453,678
West Virginia	6,630	20,260	7,308	22,333
Wisconsin	0	0	0	0
Wyoming	101,590	1,216,640	111,984	1,341,116
Offshore	509,220	6,776,230	561,319	7,469,515
<b>TOTAL</b>	<b>1,854,260</b>	<b>20,473,110</b>	<b>2,043,972</b>	<b>22,567,741</b>

\* States/Provinces with a “zero” value represent estimates of minimal CO<sub>2</sub> storage resource, while states/provinces with a blank represent areas that have not yet been assessed by the RCSPs.

## CO<sub>2</sub> Storage Resource Estimates for Oil and Gas Reservoirs by State/Province

The table (“CO<sub>2</sub> Storage Resource Estimates for Oil and Gas Reservoirs”) displays oil and gas reservoir CO<sub>2</sub> storage resource estimates by state/province. As described on page 28, the RCSPs have documented the location of more than 142 billion metric tons (156 billion tons) of CO<sub>2</sub> storage potential in oil and gas reservoirs distributed over 29 States and 4 provinces. In the table, States/provinces with a “zero” value represent estimates of minimal oil and gas reservoir CO<sub>2</sub> storage resource while States/provinces with a blank represent areas that have not yet been assessed by the RCSPs. Carbon dioxide storage resource data for oil and gas reservoirs specific to each RCSP can be found within each RCSP section of *Atlas III*. Additional details can be obtained from the NATCARB website (<http://www.natcarb.org/>).

Areas with the largest oil and gas reservoir storage potential identified include Texas, offshore, Louisiana, Alberta, Ohio, Oklahoma, New Mexico, Saskatchewan, North Dakota, and California. These CO<sub>2</sub> storage resources are significant, with an estimated 120 years of storage available in Texas oil and gas reservoirs at Texas’s current emission rate. Oklahoma’s oil and gas reservoirs are estimated to have CO<sub>2</sub> storage resource for more than 140 years of emissions from the state.

Please note CO<sub>2</sub> geologic storage information in *Atlas III* was developed to provide a high level overview of CO<sub>2</sub> geologic storage potential across the United States and parts of Canada. Carbon dioxide resource estimates presented are intended to be used as an initial assessment of potential geologic storage. This information provides CCS project developers a starting point for further investigation of the extent to which geologic CO<sub>2</sub> storage is feasible. This information is not intended as a substitute for site-specific characterization, assessment and testing. Please refer to page 14 of *Atlas III* for additional information on this level of assessment.

CO<sub>2</sub> Storage Resource Estimates for Oil & Gas Reservoirs by State/Province\*

State/Province	Million Metric Tons	Million Tons
Alabama	350	386
Alaska		
Alberta	10,090	11,122
Arizona	10	11
Arkansas	260	287
British Columbia	10	11
California	3,440	3,792
Colorado	1,610	1,775
Connecticut		
Delaware		
District of Columbia		
Florida	130	143
Georgia		
Hawaii		
Idaho		
Illinois	100	110
Indiana	20	22
Iowa		
Kansas	1,590	1,753
Kentucky	50	55
Louisiana	10,610	11,696
Maine		
Manitoba	740	816
Maryland		
Massachusetts		
Michigan	770	849
Minnesota		
Mississippi	560	617
Missouri	0	0
Montana	2,600	2,866
Nebraska	30	33
Nevada		

\* States/Provinces with a “zero” value represent estimates of minimal CO<sub>2</sub> storage resource, while states/provinces with a blank represent areas that have not yet been assessed by the RCSPs.

State/Province	Million Metric Tons	Million Tons
New Brunswick		
New Hampshire		
New Jersey		
New Mexico	7,350	8,102
New York	920	1,014
Newfoundland & Labrador		
North Carolina		
North Dakota	4,410	4,861
Northwest Territories		
Nova Scotia		
Ohio	10,060	11,089
Oklahoma	8,120	8,951
Ontario		
Oregon		
Pennsylvania	2,970	3,274
Quebec		
Rhode Island		
Saskatchewan	6,920	7,628
South Carolina		
South Dakota	190	209
Tennessee	0	0
Texas	46,200	50,927
Utah	1,160	1,279
Vermont		
Virginia	60	66
Washington		
West Virginia	1,830	2,017
Wisconsin		
Wyoming	2,300	2,535
Offshore	16,790	18,508
<b>TOTAL</b>	<b>142,250</b>	<b>156,804</b>

CO<sub>2</sub> Storage Resource Estimates for Unmineable Coal Areas by State/Province\*

## CO<sub>2</sub> Storage Resource Estimates for Unmineable Coal Areas by State/Province

The table (“CO<sub>2</sub> Storage Resource Estimates for Unmineable Coal Areas”) displays unmineable coal area CO<sub>2</sub> storage resource estimates by state/province. As described on page 29, the RCSPs have documented the location of more than 59 to 117 billion metric tons (65 to 128 billion tons) of CO<sub>2</sub> geologic storage potential in unmineable coal areas distributed over 29 States and 1 province. In the table, States/provinces with a zero represent estimates of minimal unmineable coal area CO<sub>2</sub> storage resource while States/provinces with a blank represent areas that have not yet been assessed by the RCSPs. Unmineable coal area CO<sub>2</sub> storage resource data specific to each RCSP can be found within each RCSP section of *Atlas III*. Additional details can be obtained from the NATCARB website (<http://www.natcarb.org/>).

Areas with the largest unmineable coal area CO<sub>2</sub> storage resource identified include Texas, Alaska, Louisiana, Mississippi, Wyoming, Alabama, Arkansas, offshore, Illinois, and Florida. An estimated 35 to 85 years of CO<sub>2</sub> storage resource is available in Texas unmineable coal areas for Texas’s current emission rate. Alaska’s unmineable coal areas alone are estimated to have CO<sub>2</sub> storage resource for 24 to 55 years worth of emissions from the state.

Please note CO<sub>2</sub> geologic storage information in *Atlas III* was developed to provide a high level overview of CO<sub>2</sub> geologic storage potential across the United States and parts of Canada. Carbon dioxide resource estimates presented are intended to be used as an initial assessment of potential geologic storage. This information provides CCS project developers a starting point for further investigation of the extent to which geologic CO<sub>2</sub> storage is feasible. This information is not intended as a substitute for site-specific characterization, assessment and testing. Please refer to page 14 of *Atlas III* for additional information on this level of assessment.

State/Province	Million Metric Tons		Million Tons	
	Low Estimate	High Estimate	Low Estimate	High Estimate
Alabama	1,910	4,340	2,105	4,784
Alaska	8,980	20,530	9,899	22,630
Alberta	840	840	926	926
Arizona	0	0	0	0
Arkansas	1,570	3,580	1,731	3,946
British Columbia				
California				
Colorado	490	860	540	948
Connecticut				
Delaware				
District of Columbia				
Florida	1,240	2,810	1,367	3,097
Georgia	30	60	33	66
Hawaii				
Idaho				
Illinois	1,450	2,860	1,598	3,153
Indiana	90	190	99	209
Iowa	0	10	0	11
Kansas	0	10	0	11
Kentucky	130	250	143	276
Louisiana	8,300	18,910	9,149	20,845
Maine				
Manitoba				
Maryland				
Massachusetts				
Michigan				
Minnesota				
Mississippi	5,450	12,470	6,008	13,746
Missouri	0	10	0	11
Montana	320	320	353	353
Nebraska	0	0	0	0
Nevada				

State/Province	Million Metric Tons		Million Tons	
	Low Estimate	High Estimate	Low Estimate	High Estimate
New Brunswick				
New Hampshire				
New Jersey				
New Mexico	80	300	88	331
New York				
Newfoundland & Labrador				
North Carolina				
North Dakota	600	600	661	661
Northwest Territories				
Nova Scotia				
Ohio	110	150	121	165
Oklahoma	0	10	0	11
Ontario				
Oregon				
Pennsylvania	230	330	254	364
Quebec				
Rhode Island				
Saskatchewan				
South Carolina				
South Dakota				
Tennessee	0	0	0	0
Texas	13,890	31,740	15,311	34,987
Utah	30	120	33	132
Vermont				
Virginia	190	790	209	871
Washington	0	0	0	0
West Virginia	320	500	353	551
Wisconsin				
Wyoming	11,860	12,140	13,073	13,382
Offshore	1,350	3,080	1,488	3,395
<b>TOTAL</b>	<b>59,460</b>	<b>117,810</b>	<b>65,543</b>	<b>129,863</b>

\* States/Provinces with a “zero” value represent estimates of minimal CO<sub>2</sub> storage resource, while states/provinces with a blank represent areas that have not yet been assessed by the RCSPs.

CO<sub>2</sub> Storage Resource Estimates for Saline Formations by State/Province\*

State/ Province	Million Metric Tons		Million Tons	
	Low Estimate	High Estimate	Low Estimate	High Estimate
Alabama	11,760	161,630	12,963	178,167
Alaska				
Alberta	35,150	39,240	38,746	43,255
Arizona	120	1,580	132	1,742
Arkansas	4,320	59,420	4,762	65,499
British Columbia	1,590	2,120	1,753	2,337
California	30,070	413,490	33,147	455,795
Colorado	30,860	424,330	34,017	467,744
Connecticut	0	0	0	0
Delaware	20	80	22	88
District of Columbia	0	0	0	0
Florida	15,750	216,910	17,361	239,102
Georgia	490	23,200	540	25,574
Hawaii				
Idaho	50	720	55	794
Illinois	8,490	115,330	9,359	127,130
Indiana	14,370	85,440	15,840	94,181
Iowa	10	150	11	165
Kansas	1,190	16,400	1,312	18,078
Kentucky	1,350	9,450	1,488	10,417
Louisiana	149,360	2,053,760	164,641	2,263,883
Maine				
Manitoba	310	310	342	342
Maryland	860	5,050	948	5,567
Massachusetts	0	0	0	0
Michigan	14,620	58,490	16,116	64,474
Minnesota				
Mississippi	45,450	624,940	50,100	688,878
Missouri	20	310	22	342
Montana	120,710	1,653,720	133,060	1,822,914
Nebraska	22,860	76,840	25,199	84,702
Nevada	0	0	0	0

State/ Province	Million Metric Tons		Million Tons	
	Low Estimate	High Estimate	Low Estimate	High Estimate
New Brunswick				
New Hampshire				
New Jersey	0	0	0	0
New Mexico	32,120	441,650	35,406	486,836
New York	1,700	6,820	1,874	7,518
Newfoundland & Labrador				
North Carolina	1,320	18,170	1,455	20,029
North Dakota	103,220	120,070	113,781	132,355
Northwest Territories				
Nova Scotia				
Ohio	3,970	15,900	4,376	17,527
Oklahoma	0	0	0	0
Ontario	10	20	11	22
Oregon	7,080	97,390	7,804	107,354
Pennsylvania	6,900	27,620	7,606	30,446
Quebec	0	0	0	0
Rhode Island	0	0	0	0
Saskatchewan	980	8,820	1,080	9,722
South Carolina	200	9,660	220	10,648
South Dakota	17,390	155,990	19,169	171,950
Tennessee	490	6,650	540	7,330
Texas	333,400	4,584,250	367,511	5,053,271
Utah	20,990	288,680	23,138	318,215
Vermont	0	0	0	0
Virginia	80	390	88	430
Washington	29,930	411,570	32,992	453,678
West Virginia	4,480	17,930	4,938	19,764
Wisconsin	0	0	0	0
Wyoming	87,430	1,202,200	96,375	1,325,199
Offshore	491,080	6,756,360	541,323	7,447,612
<b>TOTAL</b>	<b>1,652,550</b>	<b>20,213,050</b>	<b>1,821,625</b>	<b>22,281,074</b>

\* States/Provinces with a “zero” value represent estimates of minimal CO<sub>2</sub> storage resource, while states/provinces with a blank represent areas that have not yet been assessed by the RCSPs.

### Saline Formation Storage Resource Estimates by State/Province

The table (“CO<sub>2</sub> Storage Resource Estimates for Saline Formations by State/Province”) displays saline formation CO<sub>2</sub> storage resource estimates by state/province. As described on page 27, the RCSPs have documented the location of saline formations with an estimated storage potential from approximately 1,650 to more than 20,200 billion metric tons (from 1,820 to more than 22,260 billion tons). In the table, States/provinces with a zero represent estimates of saline formation CO<sub>2</sub> storage resource while States/provinces with a blank represent areas that have not yet been assessed by the RCSPs. Saline formation CO<sub>2</sub> storage resource data specific to each RCSP can be found within each RCSP section of *Atlas III*. Additional details can be obtained from the NATCARB website (<http://www.natcarb.org/>).

Areas with the largest saline formation CO<sub>2</sub> storage resource identified include offshore, Texas, Louisiana, Montana, Wyoming, Mississippi, New Mexico, Colorado, California, and Washington. At Texas’s current emission rate, there is an estimated 890 to 12,290 years of CO<sub>2</sub> storage resource available in Texas saline formations.

Please note CO<sub>2</sub> geologic storage information in *Atlas III* was developed to provide a high level overview of CO<sub>2</sub> geologic storage potential across the United States and parts of Canada. Carbon dioxide resource estimates presented are intended to be used as an initial assessment of potential geologic storage. This information provides CCS project developers a starting point for further investigation of the extent to which geologic CO<sub>2</sub> storage is feasible. This information is not intended as a substitute for site-specific characterization, assessment and testing. Please refer to page 14 of *Atlas III* for additional information on this level of assessment.

# CO<sub>2</sub> Stationary Source Emissions and CO<sub>2</sub> Storage Resource Estimates Summary by State/Province

This table (“CO<sub>2</sub> Emissions and Geologic Storage Resource Summary”) is a compilation of all data provided in this Appendix. State/Provinces with the “zero” represents estimates of the minimal CO<sub>2</sub> storage resource while States/Provinces with a blank represent areas that have not yet been accessed by the RCSPs.

Please note CO<sub>2</sub> geologic storage information in *Atlas III* was developed to provide a high level overview of CO<sub>2</sub> geologic storage potential across the United States and parts of Canada. Carbon dioxide resource estimates presented are intended to be used as an initial assessment of potential geologic storage. This information provides CCS project developers a starting point for further investigation of the extent to which geologic CO<sub>2</sub> storage is feasible. This information is not intended as a substitute for site-specific characterization, assessment and testing. Please refer to page 14 of *Atlas III* for additional information on this level of assessment.

CO <sub>2</sub> Emissions			Oil and Gas Reservoir Storage Resource	Unmineable Coal Areas Storage Resource		Saline Formation Storage Resource		Total Storage Resource	
			Million Metric Tons	Million Metric Tons		Million Metric Tons		Million Metric Tons	
State/Province	Million Metric Ton/Year	No. Sources		Low Estimate	High Estimate	Low Estimate	High Estimate	Low Estimate	High Estimate
Alabama	80	59	350	1,910	4,340	11,760	161,630	14,020	166,320
Alaska	20	49		8,980	20,530			8,980	20,530
Alberta	208	305	10,090	840	840	35,150	39,240	46,080	50,170
Arizona	55	50	10	0	0	120	1,580	130	1,590
Arkansas	35	30	260	1,570	3,580	4,320	59,420	6,150	63,260
British Columbia	15	53	10			1,590	2,120	1,600	2,130
California	84	182	3,440			30,070	413,490	33,510	416,930
Colorado	52	56	1,610	490	860	30,860	424,330	32,960	426,800
Connecticut	10	63				0	0	0	0
Delaware	6	16				20	80	20	80
District of Columbia	0	5				0	0	0	0
Florida	143	108	130	1,240	2,810	15,750	216,910	17,120	219,850
Georgia	90	64		30	60	490	23,200	520	23,260
Hawaii	10	45							
Idaho	2	18				50	720	50	720
Illinois	122	138	100	1,450	2,860	8,490	115,330	10,040	118,290
Indiana	155	92	20	90	190	14,370	85,440	14,480	85,650
Iowa	55	63		0	10	10	150	10	160
Kansas	48	102	1,590	0	10	1,190	16,400	2,780	18,000
Kentucky	93	48	50	130	250	1,350	9,450	1,530	9,750
Louisiana	102	133	10,610	8,300	18,910	149,360	2,053,760	168,270	2,083,280
Maine	5	106							
Manitoba	4	12	740			310	310	1,050	1,050
Maryland	37	21				860	5,050	860	5,050
Massachusetts	25	137				0	0	0	0
Michigan	84	45	770			14,620	58,490	15,390	59,260
Minnesota	59	103							
Mississippi	34	49	560	5,450	12,470	45,450	624,940	51,460	637,970
Missouri	98	126	0	0	10	20	310	20	320
Montana	28	78	2,600	320	320	120,710	1,653,720	123,630	1,656,640
Nebraska	31	35	30	0	0	22,860	76,840	22,890	76,870

\* States/Provinces with a “zero” value represent estimates of minimal CO<sub>2</sub> storage resource, while states/provinces with a blank represent areas that have not yet been assessed by the RCSPs.

CO <sub>2</sub> Emissions			Oil and Gas Reservoir Storage Resource	Unmineable Coal Areas Storage Resource		Saline Formation Storage Resource		Total Storage Resource	
			Million Metric Tons	Million Metric Tons		Million Metric Tons		Million Metric Tons	
State/Province	Million Metric Ton/Year	No. Sources		Low Estimate	High Estimate	Low Estimate	High Estimate	Low Estimate	High Estimate
Nevada	27	16				0	0	0	0
New Brunswick	6	7							
New Hampshire	8	66							
New Jersey	35	123				0	0	0	0
New Mexico	35	32	7,350	80	300	32,120	441,650	39,550	449,300
New York	77	386	920			1,700	6,820	2,620	7,740
Newfoundland & Labrador	4	7							
North Carolina	77	55				1,320	18,170	1,320	18,170
North Dakota	42	31	4,410	600	600	103,220	120,070	108,230	125,080
Northwest Territories	0	2							
Nova Scotia	11	7							
Ohio	149	51	10,060	110	150	3,970	15,900	14,140	26,110
Oklahoma	57	45	8,120	0	10	0	0	8,120	8,130
Ontario	50	48				10	20	10	20
Oregon	11	22				7,080	97,390	7,080	97,390
Pennsylvania	142	76	2,970	230	330	6,900	27,620	10,100	30,920
Quebec	14	32				0	0	0	0
Rhode Island	2	18				0	0	0	0
Saskatchewan	42	35	6,920			980	8,820	7,900	15,740
South Carolina	40	48				200	9,660	200	9,660
South Dakota	21	53	190			17,390	155,990	17,580	156,180
Tennessee	66	29	0	0	0	490	6,650	490	6,650
Texas	373	343	46,200	13,890	31,740	333,400	4,584,250	393,490	4,662,190
Utah	43	27	1,160	30	120	20,990	288,680	22,180	289,960
Vermont	0	73				0	0	0	0
Virginia	46	56	60	190	790	80	390	330	1,240
Washington	21	35		0	0	29,930	411,570	29,930	411,570
West Virginia	99	26	1,830	320	500	4,480	17,930	6,630	20,260
Wisconsin	77	219				0	0	0	0
Wyoming	59	101	2,300	11,860	12,140	87,430	1,202,200	101,590	1,216,640
Offshore	46	47	16,790	1,350	3,080	491,080	6,756,360	509,220	6,776,230
<b>TOTAL</b>	<b>3,467</b>	<b>4,507</b>	<b>142,250</b>	<b>59,460</b>	<b>117,810</b>	<b>1,652,550</b>	<b>20,213,050</b>	<b>1,854,260</b>	<b>20,473,110</b>