

**USGS NATIONAL ASSESSMENT OF OIL AND GAS RESOURCES UPDATE (December, 2008)**  
**CONVENTIONAL OIL AND GAS RESOURCES**

|        | Province Number and Name           | Vintage | Conventional Oil<br>(billions of barrels) |       |       | Conventional Gas <sup>1</sup><br>(trillions of cubic feet) |        |        | Natural Gas Liquids<br>(billions of barrels) |      |      |
|--------|------------------------------------|---------|---|-------|-------|--|--------|--------|--|------|------|
|        |                                    |         | F95                                       | F05   | Mean  | F95  | F05    | Mean   | F95  | F05  | Mean |
| 1a     | North Slope, ANWR                  | 1998    | 5.72                                      | 15.95 | 10.36 |  |        | 8.60   |  |      | 0.32 |
| 1b     | North Slope, NPRA                  | 2002    | 6.67                                      | 15.01 | 10.56 |  |        | 73.03  |  |      | 1.42 |
| 1c     | North Slope, Central               | 2005    | 2.56                                      | 5.85  | 3.98  | 26.62  | 50.90  | 37.52  | 0.33   | 0.66 | 0.48 |
| 1e     | North Slope, Gas Hydrates          | 2008    | 0.00                                      | 0.00  | 0.00  | 25.23  | 157.83 | 85.43  | 0  | 0    | 0    |
| 2      | Central Alaska                     | 2004    | 0.00                                      | 0.59  | 0.17  | 0.00   | 14.63  | 5.46   | 0.00   | 0.35 | 0.01 |
| 3      | Southern Alaska                    | 1995    | 0.19                                      | 2.20  | 0.97  | 0.68   | 4.34   | 2.14   | 0.00   | 0.00 | 0.00 |
| 4      | Western Oregon-Wash.               | 1995    | 0.00                                      | 0.12  | 0.03  | 0.10   | 1.94   | 0.79   | 0.00   | 0.01 | 0.01 |
| 5      | Eastern Oregon-Wash.               | 2006    | 0.00                                      | 0.00  | 0.00  | 0.00   | 0.86   | 0.31   | 0.00   | 0.01 | 0.01 |
| 7      | Northern Coastal                   | 1995    | 0.01                                      | 0.09  | 0.03  | 0.35   | 2.33   | 1.09   | 0.00   | 0.01 | 0.01 |
| 8      | Sonoma-Livermore                   | 1995    | 0.00                                      | 0.06  | 0.01  | 0.00   | 0.42   | 0.06   | 0.00   | 0.00 | 0.00 |
| 9      | Sacramento Basin                   | 2007    | 0.00                                      | 0.00  | 0.00  | 0.14   | 1.07   | 0.53   | 0.05   | 0.77 | 0.26 |
| 10     | San Joaquin Basin                  | 2004    | 0.08                                      | 0.85  | 0.39  | 0.32   | 4.33   | 1.76   | 0.01   | 0.22 | 0.09 |
| 11     | Central Coastal                    | 1995    | 0.10                                      | 1.17  | 0.49  | 0.03   | 0.37   | 0.15   | 0.01   | 0.01 | 0.01 |
| 12     | Santa Maria Basin                  | 1995    | 0.02                                      | 0.60  | 0.21  | 0.01   | 0.35   | 0.12   | 0.01   | 0.03 | 0.01 |
| 13     | Ventura Basin                      | 1995    | 0.28                                      | 2.27  | 1.06  | 0.66   | 3.66   | 1.90   | 0.02   | 0.12 | 0.06 |
| 14     | Los Angeles Basin                  | 1995    | 0.41                                      | 1.78  | 0.98  | 0.61   | 3.08   | 1.61   | 0.02   | 0.11 | 0.06 |
| 17     | Idaho-Snake River Downwarp         | 1995    | 0.00                                      | 0.01  | 0.01  | 0.00   | 0.09   | 0.01   | 0.00   | 0.00 | 0.00 |
| 18     | Western Great Basin                | 1995    | 0.00                                      | 0.37  | 0.06  | 0.00   | 2.49   | 0.43   | 0.00   | 0.00 | 0.00 |
| 19     | Eastern Great Basin                | 2005    | 0.24                                      | 3.80  | 1.56  | 0.19   | 4.98   | 1.84   | 0.01   | 0.23 | 0.08 |
| 20     | Uinta-Piceance Basin               | 2002    | 0.00                                      | 0.04  | 0.02  | 0.07   | 0.44   | 0.21   | 0.00   | 0.01 | 0.00 |
| 21     | Paradox Basin                      | 1995    | 0.11                                      | 0.61  | 0.31  | 0.93   | 3.48   | 2.02   | 0.03   | 0.17 | 0.09 |
| 22     | San Juan Basin                     | 2002    | 0.00                                      | 0.04  | 0.02  | 0.06   | 0.31   | 0.16   | 0.00   | 0.01 | 0.00 |
| 23     | Albuquerque-Sante Fe Rift          | 1995    | 0.00                                      | 0.15  | 0.05  | 0.00   | 1.29   | 0.36   | 0.00   | 0.06 | 0.02 |
| 24     | Northern Arizona                   | 1995    | 0.00                                      | 0.32  | 0.07  | 0.00   | 0.96   | 0.17   | 0.00   | 0.08 | 0.01 |
| 25     | S. Ariz.-S.W. New Mexico           | 1995    | 0.00                                      | 0.06  | 0.02  | 0.01   | 0.53   | 0.20   | 0.01   | 0.05 | 0.02 |
| 26     | South-Central New Mexico           | 1995    | 0.00                                      | 0.00  | 0.00  | 0.00   | 0.00   | 0.00   | 0.00   | 0.00 | 0.00 |
| 27     | Montana Thrust Belt                | 2002    | 0.01                                      | 0.19  | 0.08  | 1.10   | 20.67  | 8.53   | 0.03   | 0.59 | 0.23 |
| 28     | Central Montana                    | 1995    | 0.13                                      | 0.42  | 0.27  | 0.40   | 1.37   | 0.84   | 0.01   | 0.01 | 0.01 |
| 29     | Southwest Montana                  | 1995    | 0.00                                      | 0.13  | 0.03  | 0.12   | 0.76   | 0.40   | 0.01   | 0.01 | 0.01 |
| 30     | Hanna, Laramie, Shirley            | 2005    | 0.01                                      | 0.12  | 0.06  | 0.06   | 0.63   | 0.28   | 0.00   | 0.03 | 0.01 |
| 31     | Williston Basin                    | 2008    | 0.07                                      | 0.37  | 0.20  | 0.21   | 2.07   | 0.98   | 0.00   | 0.11 | 0.05 |
| 33     | Powder River Basin                 | 2007    | 0.06                                      | 0.43  | 0.21  | 0.23   | 2.63   | 1.16   | 0.02   | 0.25 | 0.11 |
| 34     | Big Horn Basin                     | 2008    | 0.02                                      | 0.13  | 0.07  | 0.12   | 0.88   | 0.44   | 0.00   | 0.03 | 0.01 |
| 35     | Wind River Basin                   | 2005    | 0.01                                      | 0.09  | 0.04  | 0.11   | 0.97   | 0.46   | 0.00   | 0.00 | 0.00 |
| 36     | Wyoming Thrust Belt                | 2003    | 0.01                                      | 0.08  | 0.04  | 0.13   | 1.17   | 0.56   | 0.01   | 0.13 | 0.06 |
| 37     | Southwestern Wyoming               | 2002    | 0.01                                      | 0.07  | 0.03  | 0.61   | 5.38   | 2.42   | 0.02   | 0.17 | 0.07 |
| 38     | Park Basins                        | 1995    | 0.01                                      | 0.11  | 0.03  | 0.01   | 0.07   | 0.02   | 0.00   | 0.01 | 0.00 |
| 39     | Denver Basin                       | 2003    | 0.01                                      | 0.16  | 0.06  | 0.02   | 0.31   | 0.11   | 0.00   | 0.02 | 0.01 |
| 40     | Las Animas Arch                    | 1995    | 0.04                                      | 0.28  | 0.14  | 0.20   | 1.07   | 0.53   | 0.01   | 0.03 | 0.01 |
| 41     | Raton Basin-Sierra Grande Uplift   | 2004    | 0.00                                      | 0.00  | 0.00  | 0.21   | 1.28   | 0.76   | 0.01   | 0.05 | 0.03 |
| 43     | Palo Duro Basin                    | 1995    | 0.01                                      | 0.07  | 0.03  | 0.01   | 0.01   | 0.01   | 0.00   | 0.00 | 0.00 |
| 44     | Permian Basin                      | 2007    | 0.21                                      | 1.42  | 0.75  | 1.42   | 10.11  | 5.2    | 0.01   | 0.49 | 0.24 |
| 45     | Bend Arch-Ft. Worth Basin          | 2003    | 0.03                                      | 0.18  | 0.10  | 0.15   | 0.87   | 0.47   | 0.00   | 0.05 | 0.02 |
| 46     | Marathon Thrust Belt               | 1995    | 0.01                                      | 0.04  | 0.02  | 0.06   | 0.28   | 0.14   | 0.01   | 0.02 | 0.01 |
| 47     | Western Gulf                       | 1995    | 0.73                                      | 4.56  | 2.29  | 44.11  | 96.18  | 68.09  | 1.04   | 2.20 | 1.57 |
| 48-49  | East Texas Basin/LA-MS Salt Basins | 1995    | 0.88                                      | 5.39  | 2.76  | 18.81  | 42.34  | 29.49  | 0.57   | 2.10 | 1.21 |
| 50     | Florida Peninsula                  | 2001    | 0.04                                      | 0.85  | 0.35  | 0.00   | 4.25   | 1.66   | 0.00   | 0.05 | 0.06 |
| 51     | Superior                           | 1995    | 0.00                                      | 0.44  | 0.05  | 0.00   | 2.95   | 0.42   | 0.00   | 0.01 | 0.01 |
| 53     | Cambridge Arch-Central Kansas      | 1995    | 0.04                                      | 0.43  | 0.20  | 0.08   | 1.04   | 0.41   | 0.01   | 0.04 | 0.02 |
| 55     | Nemaha Uplift                      | 1995    | 0.03                                      | 0.29  | 0.12  | 0.17   | 0.96   | 0.47   | 0.01   | 0.06 | 0.03 |
| 56     | Forest City Basin                  | 1995    | 0.00                                      | 0.06  | 0.02  | 0.00   | 0.19   | 0.07   | 0.00   | 0.01 | 0.01 |
| 58     | Anadarko Basin                     | 1995    | 0.21                                      | 0.66  | 0.40  | 8.72   | 21.27  | 14.20  | 0.13   | 0.28 | 0.19 |
| 59     | Sedgwick Basin/Salina Basin        | 1995    | 0.02                                      | 0.12  | 0.07  | 0.14   | 0.51   | 0.32   | 0.01   | 0.03 | 0.02 |
| 60     | Cherokee Platform                  | 1995    | 0.02                                      | 0.17  | 0.08  | 0.07   | 0.34   | 0.18   | 0.01   | 0.02 | 0.01 |
| 61     | Southern Oklahoma                  | 1995    | 0.05                                      | 0.57  | 0.24  | 0.47   | 1.79   | 1.02   | 0.01   | 0.05 | 0.02 |
| 62     | Arkoma Basin                       | 1995    | 0.00                                      | 0.07  | 0.01  | 1.17   | 4.22   | 2.48   | 0.04   | 0.13 | 0.08 |
| 63     | Michigan Basin                     | 2004    | 0.29                                      | 1.88  | 0.99  | 1.16   | 7.73   | 3.96   | 0.06   | 0.45 | 0.22 |
| 64     | Illinois Basin                     | 2007    | 0.04                                      | 0.51  | 0.21  | 0.07   | 1.00   | 0.42   | 0.00   | 0.05 | 0.02 |
| 65     | Black Warrior Basin                | 2002    | 0.00                                      | 0.01  | 0.00  | 0.02   | 3.34   | 1.45   | 0.00   | 0.02 | 0.01 |
| 66     | Cincinnati Arch                    | 1995    | 0.01                                      | 0.04  | 0.02  | 0.01   | 0.04   | 0.02   | 0.00   | 0.01 | 0.01 |
| 67     | Appalachian Basin                  | 2002    | 0.01                                      | 0.10  | 0.05  | 1.26   | 8.28   | 4.31   | 0.01   | 0.80 | 0.04 |
| 68     | Blue Ridge Thrust Belt             | 1995    | 0.00                                      | 0.00  | 0.00  | 0.00   | 0.15   | 0.03   | 0.00   | 0.00 | 0.00 |
| 69     | Piedmont                           | 1995    | 0.00                                      | 0.00  | 0.00  | 0.00   | 1.19   | 0.39   | 0.00   | 0.00 | 0.00 |
| TOTALS |                                    |         |   |       |       | 41.38  |        | 378.60 |  |      | 7.38 |

<sup>1</sup>includes non-associated and associated-dissolved gas resources

**USGS NATIONAL ASSESSMENT OF OIL AND GAS RESOURCES UPDATE (December, 2008)**  
**CONTINUOUS OIL AND GAS RESOURCES, INCLUSIVE OF COAL-BED GAS RESOURCES**

| Province Number and Name              | Vintage | Continuous Oil<br>(millions of barrels) |         |         | Continuous Gas (incl. CBG)<br>(trillions of cubic feet) |        |        | Natural Gas Liquids<br>(millions of barrels) |         |         |
|---------------------------------------|---------|---|---------|---------|---|--------|--------|--|---------|---------|
|                                       |         | F95                                     | F05     | Mean    | F95   | F05    | Mean   | F95  | F05     | Mean    |
| 1d North Slope, Coal-bed Gas          | 2006    |   |         |         | 7.07  | 36.08  | 18.06  | 11.00  | 95.00   | 40.00   |
| 2 Central Alaska                      | 1995    |   |         |         |   |        |        |  |         |         |
| 3 Southern Alaska                     | 1995    |   |         |         |   |        |        |  |         |         |
| 4 Western Oregon-Wash.                | 1995    |   |         |         | 0.00  | 1.30   | 0.70   |  |         |         |
| 5 Eastern Oregon-Wash.                | 2006    |   |         |         | 1.18  | 3.44   | 2.12   | 3.12   | 19.79   | 9.20    |
| 7 Northern Coastal                    | 1995    |   |         |         |   |        |        |  |         |         |
| 8 Sonoma-Livermore                    | 1995    |   |         |         |   |        |        |  |         |         |
| 9 Sacramento Basin                    | 2007    |   |         |         |   |        |        |  |         |         |
| 10 San Joaquin Basin                  | 2004    |   |         |         |   |        |        |  |         |         |
| 11 Central Coastal                    | 1995    |   |         |         |   |        |        |  |         |         |
| 12 Santa Maria Basin                  | 1995    |   |         |         |   |        |        |  |         |         |
| 13 Ventura Basin                      | 1995    |   |         |         |   |        |        |  |         |         |
| 14 Los Angeles Basin                  | 1995    |   |         |         |   |        |        |  |         |         |
| 17 Idaho-Snake River Downwarp         | 1995    |   |         |         |   |        |        |  |         |         |
| 18 Western Great Basin                | 1995    |   |         |         |   |        |        |  |         |         |
| 19 Eastern Great Basin                | 2005    |   |         |         |   |        |        |  |         |         |
| 20 Uinta-Piceance Basin               | 2002    | 24.83                                   | 56.84   | 38.78   | 12.15   | 33.38  | 21.20  | 18.72  | 66.41   | 37.84   |
| 21 Paradox Basin                      | 1995    | 61.00                                   | 597.00  | 242.00  | 0.05  | 0.48   | 0.19   |  |         |         |
| 22 San Juan Basin                     | 2002    |   |         |         | 40.98   | 61.48  | 50.42  | 91.52  | 213.68  | 144.40  |
| 23 Albuquerque-Sante Fe Rift          | 1995    |   |         |         |   |        |        |  |         |         |
| 24 Northern Arizona                   | 1995    |   |         |         |   |        |        |  |         |         |
| 25 S. Ariz.-S.W. New Mexico           | 1995    |   |         |         |   |        |        |  |         |         |
| 26 South-Central New Mexico           | 1995    |   |         |         |   |        |        |  |         |         |
| 27 Montana Thrust Belt                | 2002    | 12.90                                   | 50.60   | 27.90   | 0.05  | 0.21   | 0.11   | 2.10   | 11.30   | 5.60    |
| 28 Central Montana                    | 2001    |   |         |         | 2.43  | 12.56  | 6.12   | 0.00   | 0.00    | 0.00    |
| 29 Southwest Montana                  | 1995    |   |         |         |   |        |        |  |         |         |
| 30 Hanna, Laramie, Shirley            | 2005    | 14.00                                   | 76.00   | 38.00   | 0.00  | 0.04   | 0.02   | 0.00   | 0.00    | 0.00    |
| 31 Williston Basin                    | 2008    | 3063.00                                 | 4319.00 | 3645.00 | 1.38  | 4.72   | 2.73   | 23.00  | 260.00  | 148.00  |
| 33 Powder River Basin                 | 2002    | 252.52                                  | 665.41  | 424.28  | 8.79  | 24.61  | 15.47  | 0.00   | 0.00    | 0.00    |
| 34 Big Horn Basin                     | 2008    | 2.00                                    | 11.00   | 5.00    | 0.20  | 1.15   | 0.55   | 0.00   | 2.00    | 0.00    |
| 35 Wind River Basin                   | 2005    |   |         |         | 0.88  | 3.56   | 1.94   | 0.00   | 0.03    | 0.01    |
| 36 Wyoming Thrust Belt                | 2003    |   |         |         | 0.15  | 0.70   | 0.36   |  |         |         |
| 37 Southwestern Wyoming               | 2002    | 66.90                                   | 151.00  | 103.60  | 52.79   | 121.83 | 82.17  | 1275.60                                      | 4335.20 | 2503.90 |
| 38 Park Basins                        | 1995    |   |         |         |   |        |        |  |         |         |
| 39 Denver Basin                       | 2003    | 20.73                                   | 67.35   | 39.83   | 1.29  | 4.14   | 2.41   | 21.32  | 77.98   | 43.90   |
| 40 Las Animas Arch                    | 1995    |   |         |         |   |        |        |  |         |         |
| 41 Raton Basin-Sierra Grande Uplift   | 2004    |   |         |         | 0.90  | 2.55   | 1.59   |  |         |         |
| 43 Palo Duro Basin                    | 1995    |   |         |         |   |        |        |  |         |         |
| 44 Permian Basin                      | 2007    | 340.00                                  | 725.00  | 510.00  | 21.93   | 52.97  | 35.39  | 420.00                                       | 1305.00 | 785.00  |
| 45 Bend Arch-Ft. Worth Basin          | 2003    |   |         |         | 21.71   | 31.52  | 26.23  | 668.85                                       | 1512.09 | 1049.16 |
| 46 Marathon Thrust Belt               | 1995    |   |         |         |   |        |        |  |         |         |
| 47 Western Gulf                       | 1995    | 752.00                                  | 1516.00 | 1089.00 | 1.82  | 3.67   | 2.63   |  |         |         |
| 48-49 East Texas Basin/LA-MS Salt Bas | 1995    |   |         |         |   |        |        |  |         |         |
| 47-49 Gulf Coast Coalbed Gas          | 2007    |   |         |         | 1.66  | 7.92   | 4.06   |  |         |         |
| 50 Florida Peninsula                  | 2000    |   |         |         |   |        |        |  |         |         |
| 51 Superior                           | 1995    |   |         |         |   |        |        |  |         |         |
| 53 Cambridge Arch-Central Kansas      | 1995    |   |         |         |   |        |        |  |         |         |
| 54 Nemaha Uplift                      | 1995    |   |         |         |   |        |        |  |         |         |
| 56 Forest City Basin                  | 1995    |   |         |         | 0.00  | 1.44   | 0.45   |  |         |         |
| 58 Anadarko Basin                     | 1995    |   |         |         |   |        |        |  |         |         |
| 59 Sedgwick Basin/Salina Basin        | 1995    |   |         |         |   |        |        |  |         |         |
| 60 Cherokee Platform                  | 1995    |   |         |         | 1.07  | 3.08   | 1.91   |  |         |         |
| 61 Southern Oklahoma                  | 1995    |   |         |         |   |        |        |  |         |         |
| 62 Arkoma Basin                       | 1995    |   |         |         | 1.87  | 3.58   | 2.64   |  |         |         |
| 63 Michigan Basin                     | 2004    |   |         |         | 5.48  | 9.87   | 7.47   | 0.00   | 0.00    | 0.00    |
| 64 Illinois Basin                     | 2007    |   |         |         | 1.48  | 8.98   | 4.23   | 0.00   | 0.01    | 0.00    |
| 65 Black Warrior Basin                | 2002    |   |         |         | 4.61  | 10.18  | 7.05   |  |         |         |
| 66 Cincinnati Arch                    | 1995    |   |         |         |   |        |        |  |         |         |
| 67 Appalachian Basin                  | 2002    |   |         |         | 38.63   | 105.19 | 65.98  | 0.41   | 1.48    | 0.83    |
| 68 Blue Ridge Thrust Belt             | 1995    |   |         |         |   |        |        |  |         |         |
| 69 Piedmont                           | 1995    |   |         |         |   |        |        |  |         |         |
| TOTALS                                |         |   |         | 6163.39 |   |        | 364.20 |  |         | 4767.84 |



**USGS NATIONAL ASSESSMENT OF OIL AND GAS RESOURCES UPDATE (December, 2008)**  
**TOTAL OIL AND GAS RESOURCES (Sum of Conventional and Continuous Resources)**

| Province Number and Name | Vintage                          | Total Oil<br>(billions of barrels) |      |       | Total Gas <sup>1</sup><br>(trillions of cubic feet) |       |        | Total Natural Gas Liquids<br>(billions of barrels) |      |      |       |
|--------------------------|----------------------------------|------------------------------------|------|-------|---|-------|--------|--|------|------|-------|
|                          |                                  | F95                                | F05  | Mean  | F95   | F05   | Mean   | F95  | F05  | Mean |       |
| 1a                       | North Slope, ANWR                | 1998                               | 5.72 | 15.95 | 10.36   |       |        | 8.60   |      |      | 0.32  |
| 1b                       | North Slope, NPRA                | 2002                               | 6.67 | 15.01 | 10.56   |       |        | 73.03  |      |      | 1.42  |
| 1c                       | North Slope, Central             | 2005                               | 2.56 | 5.85  | 3.98  | 26.62 | 50.90  | 37.52  | 0.33 | 0.66 | 0.48  |
| 1d                       | North Slope, Coal-bed Gas        | 2006                               | 0.00 | 0.00  | 0.00  | 7.07  | 36.08  | 18.06  | 0.01 | 0.09 | 0.04  |
| 1e                       | North Slope, Gas Hydrates        | 2008                               | 0.00 | 0.00  | 0.00  | 25.23 | 157.83 | 85.43  | 0.00 | 0.00 | 0.00  |
| 2                        | Central Alaska                   | 2004                               | 0.00 | 0.59  | 0.17  | 0.00  | 14.63  | 5.46   | 0.00 | 0.35 | 0.01  |
| 3                        | Southern Alaska                  | 1995                               | 0.19 | 2.20  | 0.97  | 0.68  | 4.34   | 2.14   | 0.00 | 0.00 | 0.00  |
| 4                        | Western Oregon-Wash.             | 1995                               | 0.00 | 0.12  | 0.03  | 0.10  | 3.24   | 1.49   | 0.00 | 0.01 | 0.01  |
| 5                        | Eastern Oregon-Wash.             | 2006                               | 0.00 | 0.00  | 0.00  | 1.18  | 4.29   | 2.43   | 0.00 | 0.02 | 0.03  |
| 7                        | Northern Coastal                 | 1995                               | 0.01 | 0.09  | 0.03  | 0.35  | 2.33   | 1.09   | 0.00 | 0.01 | 0.01  |
| 8                        | Sonoma-Livermore                 | 1995                               | 0.00 | 0.06  | 0.01  | 0.00  | 0.42   | 0.06   | 0.00 | 0.00 | 0.00  |
| 9                        | Sacramento Basin                 | 2007                               | 0.00 | 0.00  | 0.00  | 0.14  | 1.07   | 0.53   | 0.05 | 0.77 | 0.26  |
| 10                       | San Joaquin Basin                | 2004                               | 0.08 | 0.85  | 0.39  | 0.32  | 4.33   | 1.76   | 0.01 | 0.22 | 0.09  |
| 11                       | Central Coastal                  | 1995                               | 0.10 | 1.17  | 0.49  | 0.03  | 0.37   | 0.15   | 0.01 | 0.01 | 0.01  |
| 12                       | Santa Maria Basin                | 1995                               | 0.02 | 0.60  | 0.21  | 0.01  | 0.35   | 0.12   | 0.01 | 0.03 | 0.01  |
| 13                       | Ventura Basin                    | 1995                               | 0.28 | 2.27  | 1.06  | 0.66  | 3.66   | 1.90   | 0.02 | 0.12 | 0.06  |
| 14                       | Los Angeles Basin                | 1995                               | 0.41 | 1.78  | 0.98  | 0.61  | 3.08   | 1.61   | 0.02 | 0.11 | 0.06  |
| 17                       | Idaho-Snake River Downwarp       | 1995                               | 0.00 | 0.01  | 0.01  | 0.00  | 0.09   | 0.01   | 0.00 | 0.00 | 0.00  |
| 18                       | Western Great Basin              | 1995                               | 0.00 | 0.37  | 0.06  | 0.00  | 2.49   | 0.43   | 0.00 | 0.00 | 0.00  |
| 19                       | Eastern Great Basin              | 2005                               | 0.24 | 3.80  | 1.56  | 0.19  | 4.98   | 1.84   | 0.01 | 0.23 | 0.08  |
| 20                       | Uinta-Piceance Basin             | 2002                               | 0.02 | 0.10  | 0.06  | 12.22 | 34.42  | 21.51  | 0.02 | 0.08 | 0.04  |
| 21                       | Paradox Basin                    | 1995                               | 0.17 | 1.20  | 0.55  | 0.98  | 3.96   | 2.21   | 0.03 | 0.17 | 0.09  |
| 22                       | San Juan Basin                   | 2002                               | 0.00 | 0.04  | 0.02  | 41.04 | 61.79  | 50.48  | 0.09 | 0.22 | 0.14  |
| 23                       | Albuquerque-Sante Fe Rift        | 1995                               | 0.00 | 0.15  | 0.05  | 0.00  | 1.29   | 0.36   | 0.00 | 0.06 | 0.02  |
| 24                       | Northern Arizona                 | 1995                               | 0.00 | 0.32  | 0.07  | 0.00  | 0.96   | 0.17   | 0.00 | 0.08 | 0.01  |
| 25                       | S. Ariz.-S.W. New Mexico         | 1995                               | 0.00 | 0.06  | 0.02  | 0.01  | 0.53   | 0.20   | 0.01 | 0.05 | 0.02  |
| 26                       | South-Central New Mexico         | 1995                               | 0.00 | 0.00  | 0.00  | 0.00  | 0.00   | 0.00   | 0.00 | 0.00 | 0.00  |
| 27                       | Montana Thrust Belt              | 2002                               | 0.06 | 0.24  | 0.11  | 1.15  | 20.88  | 8.64   | 0.03 | 0.60 | 0.24  |
| 28                       | Central Montana                  | 1995                               | 0.13 | 0.42  | 0.27  | 0.40  | 1.37   | 6.96   | 0.01 | 0.01 | 0.01  |
| 29                       | Southwest Montana                | 1995                               | 0.00 | 0.13  | 0.03  | 0.12  | 0.76   | 0.40   | 0.01 | 0.01 | 0.01  |
| 30                       | Hanna, Laramie, Shirley          | 2005                               | 0.03 | 0.19  | 0.09  | 0.07  | 0.67   | 0.30   | 0.00 | 0.03 | 0.01  |
| 31                       | Williston Basin                  | 2008                               | 3.13 | 4.69  | 3.84  | 1.59  | 6.79   | 3.71   | 0.09 | 0.37 | 0.20  |
| 33                       | Powder River Basin               | 2007                               | 0.31 | 1.09  | 0.64  | 9.04  | 27.25  | 16.63  | 0.03 | 0.29 | 0.13  |
| 34                       | Big Horn Basin                   | 2008                               | 0.02 | 0.15  | 0.07  | 0.32  | 2.03   | 0.99   | 0.01 | 0.03 | 0.01  |
| 35                       | Wind River Basin                 | 2005                               | 0.01 | 0.09  | 0.04  | 1.00  | 5.00   | 2.64   | 0.00 | 0.00 | 0.00  |
| 36                       | Wyoming Thrust Belt              | 2003                               | 0.01 | 0.08  | 0.04  | 0.16  | 1.52   | 0.76   | 0.01 | 0.09 | 0.04  |
| 37                       | Southwestern Wyoming             | 2002                               | 0.08 | 0.27  | 0.13  | 53.40 | 127.21 | 84.59  | 1.32 | 4.47 | 2.57  |
| 38                       | Park Basins                      | 1995                               | 0.01 | 0.11  | 0.03  | 0.01  | 0.07   | 0.02   | 0.00 | 0.01 | 0.00  |
| 39                       | Denver Basin                     | 2003                               | 0.03 | 0.23  | 0.10  | 1.31  | 4.45   | 2.52   | 0.02 | 0.10 | 0.05  |
| 40                       | Las Animas Arch                  | 1995                               | 0.04 | 0.28  | 0.14  | 0.20  | 1.07   | 0.53   | 0.01 | 0.03 | 0.01  |
| 41                       | Raton Basin-Sierra Grande Uplift | 2004                               | 0.00 | 0.00  | 0.00  | 1.11  | 3.83   | 2.35   | 0.01 | 0.05 | 0.03  |
| 43                       | Palo Duro Basin                  | 1995                               | 0.01 | 0.07  | 0.03  | 0.01  | 0.01   | 0.01   | 0.00 | 0.00 | 0.00  |
| 44                       | Permian Basin                    | 2007                               | 0.56 | 2.15  | 1.26  | 23.35 | 63.08  | 40.58  | 0.48 | 1.80 | 1.02  |
| 45                       | Bend Arch-Ft. Worth Basin        | 2003                               | 0.03 | 0.18  | 0.10  | 21.86 | 32.39  | 26.70  | 0.67 | 1.56 | 1.02  |
| 46                       | Marathon Thrust Belt             | 1995                               | 0.01 | 0.04  | 0.02  | 0.06  | 0.28   | 0.14   | 0.01 | 0.02 | 0.01  |
| 47                       | Western Gulf                     | 1995                               | 1.48 | 6.08  | 3.38  | 45.93 | 99.85  | 70.72  | 1.04 | 2.20 | 1.57  |
| 48-49                    | East Texas Basin/LA-MS Salt Ba:  | 1995                               | 0.88 | 5.39  | 2.76  | 18.81 | 42.34  | 29.49  | 0.57 | 2.10 | 1.21  |
| 47-49                    | Gulf Coast Coalbed Gas           | 2007                               | 0.00 | 0.00  | 0.00  | 1.66  | 7.92   | 4.06   | 0.00 | 0.00 | 0.00  |
| 50                       | Florida Peninsula                | 2001                               | 0.04 | 0.85  | 0.35  | 0.00  | 4.25   | 1.66   | 0.00 | 0.05 | 0.06  |
| 51                       | Superior                         | 1995                               | 0.00 | 0.44  | 0.05  | 0.00  | 2.95   | 0.42   | 0.00 | 0.01 | 0.01  |
| 53                       | Cambridge Arch-Central Kansas    | 1995                               | 0.04 | 0.43  | 0.20  | 0.08  | 1.04   | 0.41   | 0.01 | 0.04 | 0.02  |
| 55                       | Nemaha Uplift                    | 1995                               | 0.03 | 0.29  | 0.12  | 0.17  | 0.96   | 0.47   | 0.01 | 0.06 | 0.03  |
| 56                       | Forest City Basin                | 1995                               | 0.00 | 0.06  | 0.02  | 0.00  | 1.63   | 0.52   | 0.00 | 0.01 | 0.01  |
| 58                       | Anadarko Basin                   | 1995                               | 0.21 | 0.66  | 0.40  | 8.72  | 21.27  | 14.20  | 0.13 | 0.28 | 0.19  |
| 59                       | Sedgwick Basin/Salina Basin      | 1995                               | 0.02 | 0.12  | 0.07  | 0.14  | 0.51   | 0.32   | 0.01 | 0.03 | 0.02  |
| 60                       | Cherokee Platform                | 1995                               | 0.02 | 0.17  | 0.08  | 1.14  | 3.44   | 2.09   | 0.01 | 0.02 | 0.01  |
| 61                       | Southern Oklahoma                | 1995                               | 0.05 | 0.57  | 0.24  | 0.47  | 1.79   | 1.02   | 0.01 | 0.05 | 0.02  |
| 62                       | Arkoma Basin                     | 1995                               | 0.00 | 0.07  | 0.01  | 3.04  | 7.8    | 5.12   | 0.04 | 0.13 | 0.08  |
| 63                       | Michigan Basin                   | 2004                               | 0.29 | 1.88  | 0.99  | 6.64  | 17.6   | 11.44  | 0.06 | 0.45 | 0.22  |
| 64                       | Illinois Basin                   | 2007                               | 0.04 | 0.51  | 0.21  | 1.55  | 9.98   | 4.65   | 0.00 | 0.06 | 0.02  |
| 65                       | Black Warrior Basin              | 2002                               | 0.00 | 0.01  | 0.00  | 4.63  | 13.52  | 8.50   | 0.00 | 0.02 | 0.01  |
| 66                       | Cincinnati Arch                  | 1995                               | 0.01 | 0.04  | 0.02  | 0.01  | 0.04   | 0.02   | 0.00 | 0.01 | 0.01  |
| 67                       | Appalachian Basin                | 2002                               | 0.01 | 0.10  | 0.05  | 39.89 | 113.47 | 70.29  | 0.01 | 0.09 | 0.05  |
| 68                       | Blue Ridge Thrust Belt           | 1995                               | 0.00 | 0.00  | 0.00  | 0.00  | 0.15   | 0.03   | 0.00 | 0.00 | 0.00  |
| 69                       | Piedmont                         | 1995                               | 0.00 | 0.00  | 0.00  | 0.00  | 1.19   | 0.39   | 0.00 | 0.00 | 0.00  |
| TOTALS                   |                                  |                                    |      |       | 47.53   |       |        | 742.88   |      |      | 12.11 |

<sup>1</sup>includes non-associated and associated-dissolved gas resources

**USGS NATIONAL ASSESSMENT OF OIL AND GAS RESOURCES UPDATE (December, 2008)**  
**COAL-BED GAS RESOURCES**

|       | Province Number and Name          | Vintage | Coal-bed Gas<br>(trillions of cubic feet) |       |       |
|-------|-----------------------------------|---------|---|-------|-------|
|       |                                   |         | F95                                       | F05   | Mean  |
| 1d    | North Slope, Coal-bed Gas         | 2006    | 7.07                                      | 36.08 | 18.06 |
| 2     | Central Alaska                    | 1995    |   |       |       |
| 3     | Southern Alaska                   | 1995    |   |       |       |
| 4     | Western Oregon-Wash.              | 1995    | 0.00                                      | 1.30  | 0.70  |
| 5     | Eastern Oregon-Wash.              | 2006    |   |       |       |
| 7     | Northern Coastal                  | 1995    |   |       |       |
| 8     | Sonoma-Livermore                  | 1995    |   |       |       |
| 9     | Sacramento Basin                  | 2006    |   |       |       |
| 10    | San Joaquin Basin                 | 2004    |   |       |       |
| 11    | Central Coastal                   | 1995    |   |       |       |
| 12    | Santa Maria Basin                 | 1995    |   |       |       |
| 13    | Ventura Basin                     | 1995    |   |       |       |
| 14    | Los Angeles Basin                 | 1995    |   |       |       |
| 17    | Idaho-Snake River Downwarp        | 1995    |   |       |       |
| 18    | Western Great Basin               | 1995    |   |       |       |
| 19    | Eastern Great Basin               | 2004    |   |       |       |
| 20    | Uinta-Piceance Basin              | 2002    | 1.16                                      | 4.07  | 2.31  |
| 21    | Paradox Basin                     | 1995    |   |       |       |
| 22    | San Juan Basin                    | 2002    | 20.65                                     | 28.47 | 24.24 |
| 23    | Albuquerque-Sante Fe Rift         | 1995    |   |       |       |
| 24    | Northern Arizona                  | 1995    |   |       |       |
| 25    | S. Ariz.-S.W. New Mexico          | 1995    |   |       |       |
| 26    | South-Central New Mexico          | 1995    |   |       |       |
| 27    | Montana Thrust Belt               | 2002    |   |       |       |
| 28    | Central Montana                   | 1995    |   |       |       |
| 29    | Southwest Montana                 | 1995    |   |       |       |
| 30    | Hanna, Laramie, Shirley           | 2005    |   |       |       |
| 31    | Williston Basin                   | 2008    | 0.37                                      | 1.70  | 0.88  |
| 33    | Powder River Basin                | 2002    | 8.24                                      | 22.42 | 14.26 |
| 34    | Big Horn Basin                    | 2008    | 0.05                                      | 0.26  | 0.13  |
| 35    | Wind River Basin                  | 2005    | 0.10                                      | 0.47  | 0.25  |
| 36    | Wyoming Thrust Belt               | 2003    | 0.15                                      | 0.70  | 0.36  |
| 37    | Southwestern Wyoming              | 2002    | 0.80                                      | 3.59  | 1.53  |
| 38    | Park Basins                       | 1995    |   |       |       |
| 39    | Denver Basin                      | 2003    |   |       |       |
| 40    | Las Animas Arch                   | 1995    |   |       |       |
| 41    | Raton Basin-Sierra Grande Uplift  | 2004    | 0.90                                      | 2.55  | 1.59  |
| 43    | Palo Duro Basin                   | 1995    |   |       |       |
| 44    | Permian Basin                     | 2007    |   |       |       |
| 45    | Bend Arch-Ft. Worth Basin         | 2003    |   |       |       |
| 46    | Marathon Thrust Belt              | 1995    |   |       |       |
| 47    | Western Gulf                      | 1995    |   |       |       |
| 49    | East Texas Basin/LA-MS Salt Basir | 1995    |   |       |       |
| 47-49 | Gulf Coast Coalbed Gas            | 2007    | 1.66                                      | 7.92  | 4.06  |
| 50    | Florida Peninsula                 | 2000    |   |       |       |
| 51    | Superior                          | 1995    |   |       |       |
| 53    | Cambridge Arch-Central Kansas     | 1995    |   |       |       |
| 55    | Nemaha Uplift                     | 1995    |   |       |       |
| 56    | Forest City Basin                 | 1995    | 0.00                                      | 1.44  | 0.45  |
| 58    | Anadarko Basin                    | 1995    |   |       |       |
| 59    | Sedgwick Basin/Salina Basin       | 1995    |   |       |       |
| 60    | Cherokee Platform                 | 1995    | 1.07                                      | 3.08  | 1.91  |
| 61    | Southern Oklahoma                 | 1995    |   |       |       |
| 62    | Arkoma Basin                      | 1995    | 1.87                                      | 3.58  | 2.64  |
| 63    | Michigan Basin                    | 2004    |   |       |       |
| 64    | Illinois Basin                    | 2007    | 0.18                                      | 0.86  | 0.44  |
| 65    | Black Warrior Basin               | 2002    | 4.61                                      | 10.18 | 7.05  |
| 66    | Cincinnati Arch                   | 1995    |   |       |       |
| 67    | Appalachian Basin                 | 2002    | 5.68                                      | 11.98 | 8.40  |
| 68    | Blue Ridge Thrust Belt            | 1995    |   |       |       |
| 69    | Piedmont                          | 1995    |   |       |       |
|       | TOTAL                             |         |   |       | 89.26 |