

**TABLE 1: ANNUAL IMPACT OF OPENING RESTRICTED  
FEDERAL LANDS TO OIL, GAS, AND COAL DEVELOPMENT**  
(\$ BILLIONS ANNUALLY, UNLESS OTHERWISE SPECIFIED)

	SHORT-RUN	LONG-RUN
AVG. PROCEEDS FROM FEDERAL OIL AND GAS LEASING (CBO)	\$11.7	\$13.5
ANNUAL FEDERAL TAX REVENUES FROM INCREASED OIL, GAS, AND COAL ACTIVITY	\$24.1	\$126
<b>TOTAL FEDERAL REVENUES</b>	<b>\$35.8</b>	<b>\$139.5</b>
OUTPUT	\$126.9	663
EMPLOYMENT (THOUSANDS OF JOBS)	552	2,763
WAGES	32.4	162.9
STATE & LOCAL TAX REVENUES	10.3	61.5

**SOURCES:** "AVERAGE PROCEEDS FROM FEDERAL OIL AND GAS LEASING" FROM CBO, POTENTIAL BUDGETARY EFFECTS OF IMMEDIATELY OPENING MOST FEDERAL LANDS TO OIL AND GAS LEASING, AUG. 2012, AT TABLE 1(CBO LONG-RUN IS THE AVERAGE OF THEIR 11 YEARS OF ESTIMATES), AND AUTHOR'S ESTIMATES.

**NOTE:** SHORT-RUN EFFECTS ARE THOSE PROVIDED ANNUALLY DURING THE FIRST YEARS OF THE INVESTMENT (PRE-PRODUCTION) PHASE -ESTIMATED TO BE 7 YEARS; LONG-RUN EFFECTS ARE THOSE PROVIDED ANNUALLY DURING THE PRODUCTION PHASE - ESTI-MATED TO BE 30 YEARS. MY ANALYSIS ONLY INCLUDES AREAS DESIGNATED AS TEMPORARILY UNAVAILABLE TO OIL AND GAS LEASING BY THE CBO AND FEDERAL LANDS IN THE POWDER RIVER BASIN AS DESCRIBED IN APPENDIX B.

**TABLE 2: INCREASED OUTPUT FROM OPENING FEDERAL LANDS**  
(\$ MILLIONS ANNUALLY)

REGION	SHORT-RUN	LONG-RUN
ATLANTIC OCS	\$7,588	\$23,994
EASTERN GULF	\$7,122	\$31,325
PACIFIC OCS	\$24,727	\$58,445
ANWR	\$17,747	\$39,807
PRB COAL	N/A	\$87,871
<b>TOTAL FROM REGIONAL ANALYSIS</b>	<b>\$57,184</b>	<b>\$241,445</b>
ADDITIONAL OIL AND GAS NON-ANWR (INTERIOR STATES) AND SPILLOVER EFFECTS	\$69,725	\$421,593
<b>TOTAL U.S. (ONSHORE &amp; OFFSHORE)</b>	<b>\$126,909</b>	<b>\$663,038</b>

**SOURCE:** BUREAU OF ECONOMIC ANALYSIS; DEPARTMENT OF COMMERCE

**TABLE 3: INCREASED EMPLOYMENT  
FROM OPENING FEDERAL LANDS**

REGION	SHORT-RUN	LONG-RUN
ATLANTIC OCS	38,442	120,389
EASTERN GULF	32,333	142,408
PACIFIC OCS	101,471	238,806
ANWR	61,314	77,300
PRB COAL	N/A	260,834
<b>TOTAL FROM REGIONAL ANALYSIS</b>	<b>233,507</b>	<b>839,538</b>
ADDITIONAL OIL AND GAS NON-ANWR (INTERIOR STATES) AND SPILLOVER EFFECTS	318,661	1,923,793
<b>TOTAL U.S. (ONSHORE &amp; OFFSHORE)</b>	<b>552,168</b>	<b>2,763,331</b>

**SOURCE:** BUREAU OF ECONOMIC ANALYSIS; DEPARTMENT OF COMMERCE

**TABLE 4: INCREASED EMPLOYMENT FROM OPENING  
FEDERAL LANDS TO OIL AND GAS, BY SECTOR<sup>34</sup>**

	<b>SHORT-RUN</b>	<b>LONG-RUN</b>
MINING	21,550	496,453
HEALTH CARE AND SOCIAL ASSISTANCE	20,760	263,772
RETAIL TRADE	10,343	248,034
ACCOMMODATION AND FOOD SERVICES	7,741	171,363
REAL ESTATE AND RENTAL AND LEASING	39,537	170,090
PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES	15,290	157,619
MANUFACTURING	22,920	146,975
ADMINISTRATIVE AND WASTE MANAGEMENT SERVICES	12,806	146,663
FINANCE AND INSURANCE	8,007	132,655
OTHER SERVICES	14,077	126,672
TRANSPORTATION AND WAREHOUSING	11,918	88,757
WHOLESALE TRADE	14,238	73,307
EDUCATIONAL SERVICES	5,149	66,628
ARTS, ENTERTAINMENT, AND RECREATION	12,045	50,481
INFORMATION	6,341	43,177
MANAGEMENT OF COMPANIES AND ENTERPRISES	19,685	40,342
AGRICULTURE, FORESTRY, FISHING, AND HUNTING	5,046	38,420
CONSTRUCTION	12,885	16,002
HOUSEHOLDS	9,823	14,825
UTILITIES	1,409	10,236
<b>TOTAL</b>	<b>271,572</b>	<b>2,502,172</b>

**SOURCE:** BUREAU OF ECONOMIC ANALYSIS; DEPARTMENT OF COMMERCE

**TABLE 5: WAGE GAINS FROM OPENING FEDERAL LANDS**  
(\$ MILLIONS ANNUALLY)

REGION	SHORT-RUN	LONG-RUN
ATLANTIC OCS	\$1,555	\$4,910
EASTERN GULF	\$1,430	\$6,290
PACIFIC OCS	\$5,129	\$10,431
ANWR	\$3,258	\$2,119
PRB COAL	N/A	\$16,127
<b>TOTAL FROM REGIONAL ANALYSIS</b>	<b>\$11,373</b>	<b>\$39,898</b>
ADDITIONAL OIL AND GAS NON-ANWR AND SPILLOVER EFFECTS	\$21,014	\$123,031
<b>TOTAL U.S. (ONSHORE &amp; OFFSHORE)</b>	<b>\$32,387</b>	<b>\$162,910</b>

**SOURCE:** BUREAU OF ECONOMIC ANALYSIS; DEPARTMENT OF COMMERCE

**TABLE 6: ANNUAL GAINED TAX REVENUES  
BY STATE FROM THE PROPOSAL**  
(\$ MILLIONS ANNUALLY)

	SHORT-RUN	LONG-RUN
<b>STATE &amp; LOCAL TAXES (INDIVIDUAL)</b>	\$5,869	\$18,885
MAINE	\$45	\$141
NEW HAMPSHIRE	\$1	\$4
MASSACHUSETTS	\$45	\$137
RHODE ISLAND	\$9	\$134
CONNECTICUT	\$15	\$46
NEW YORK	\$28	\$87
NEW JERSEY	\$35	\$117
DELAWARE	\$5	\$17
MARYLAND	\$7	\$21
VIRGINIA	\$20	\$62
NORTH CAROLINA	\$65	\$200
SOUTH CAROLINA	\$40	\$11
GEORGIA	\$19	\$58
FLORIDA	\$241	\$1,990
CALIFORNIA	\$1,111	\$2,648
OREGON	\$238	\$562
WASHINGTON	\$159	\$374
ALASKA	\$3,784	\$8,479
MONTANA	N/A	\$518
WYOMING	N/A	\$6,249
<b>STATE &amp; LOCAL TAXES (W/ADDITIONAL OIL AND GAS NON-ANWR (INTERIOR STATES) AND SPILLOVER EFFECTS)</b>	<b>\$10,247</b>	<b>\$61,531</b>
<b>FEDERAL TAXES</b>	<b>\$24,113</b>	<b>\$125,977</b>

**SOURCE:** BUREAU OF ECONOMIC ANALYSIS; DEPARTMENT OF COMMERCE; U.S. CENSUS BUREAU;  
BUREAU OF ECONOMIC ANALYSIS

## Appendix A: Tables and Figures

**TABLE A1: BOE OIL AND GAS BY REGION**  
(BASED ON FIGURE 1 OF CBO REPORT)  
(VALUES IN BILLIONS)

	TOTAL BOE	OIL BOE	MCF
<b>ALLOWABLE</b>			
CENTRAL AND WESTERN GULF OCS	78	42	202
ALASKA OCS	28	28	0
ONSHORE	18	1	95
<b>TEMPORARILY UNAVAILABLE</b>			
EASTERN GULF OCS	8	6	11
ATLANTIC OCS	9	3	33
PACIFIC OCS	12	10	11
ONSHORE	10	5	28
<b>UNAVAILABLE</b>			
ANWR	8	8	0
ONSHORE	4	2	11

**SOURCE:** SOURCE: FIGURE 1 OF CBO REPORT

**NOTES:** 1,000 CUBIC FEET OF NATURAL GAS (1 MCF)=0.178 BOE

**TABLE A2: VALUE OF OIL AND GAS RESERVES AND INVESTMENT  
ALLOCATED TO REGIONS & STATES**  
(VALUES IN BILLIONS)

REGION	STATE	LENGTH OF COASTLINE	% OF REGIONAL COASTLINE	OIL BOE BILLIONS OF BOE	GAS MCF	VALUE OF RESERVES (\$BILLIONS)
ATLANTIC	MAINE	228	11%	0.32	3.48	\$50.2
ATLANTIC	NEW HAMPSHIRE	13	1%	0.02	0.20	\$2.9
ATLANTIC	MASSACHUSETTS	192	9%	0.27	2.93	\$42.2
ATLANTIC	RHODE ISLAND	40	2%	0.06	0.61	\$8.8
ATLANTIC	CONNECTICUT	96	4%	0.13	1.46	\$21.1
ATLANTIC	NEW YORK	127	6%	0.18	1.94	\$27.9
ATLANTIC	NEW JERSEY	130	6%	0.18	1.98	\$28.6
ATLANTIC	DELAWARE	28	1%	0.04	0.43	\$6.2
ATLANTIC	MARYLAND	31	1%	0.04	0.47	\$6.8
ATLANTIC	VIRGINIA	112	5%	0.16	1.71	\$24.6
ATLANTIC	NORTH CAROLINA	301	14%	0.42	4.59	\$66.2
ATLANTIC	SOUTH CAROLINA	187	9%	0.26	2.85	\$41.1
ATLANTIC	GEORGIA	100	5%	0.14	1.52	\$22.0
ATLANTIC	FLORIDA	580	27%	0.80	8.84	\$127.6
EASTERN GULF	FLORIDA	770	100%	6.00	11.00	\$361.4
PACIFIC	CALIFORNIA	840	65%	6.50	7.15	\$695.6
PACIFIC	OREGON	296	23%	2.29	2.52	\$245.1
PACIFIC	WASHINGTON	157	12%	1.21	1.34	\$130.0
ANWR	ALASKA	-	100%	8.00	0.00	\$810.7
UNITED STATES ONSHORE & OFFSHORE OIL AND GAS				34.00	95.00	\$3,933.4
				COAL (MST)	VALUE OF RESERVES (\$BILLIONS)	
WEST MONTANA				5.86	\$109.2	
WEST WYOMING				79.52	\$1,483.6	

**SOURCE:** FIGURE 1 & TABLE 1 CBO ASSESSMENT FOR OIL AND GAS. AUTHORS' CALCULATIONS FOR COAL IN THE POWDER RIVER BASIN.

**NOTES:** RESERVES FROM TABLE A1 ARE ALLOCATED TO STATES BASED ON SHARE OF COASTLINE. ONSHORE IS CAPTURED ONLY IN THE TOTAL U.S. THEN THESE RESERVES ARE CONVERTED TO \$ VALUES BY MULTIPLYING THEM BY THE CBO ESTIMATE FOR MCF PRICE - \$5.10 (BASED ON AVERAGE PRICE ESTIMATES FOR 2012-2022) AND OIL PRICE - 101.34 (BASED ON AVERAGE PRICE ESTIMATES FOR 2012-2022); INVESTMENT COSTS ARE ESTIMATED BY MULTIPLYING RESERVE ESTIMATES BY THE ESTIMATED \$ OF INVESTMENT PER MCF FROM THE TAHITI PROJECT - \$1.86/7=.02 AND \$10.44/7=\$1.49.



**TABLE A3: RIMS II 2010 EXTRACTION  
MULTIPLIERS\***

STATE	OUTPUT	EARNINGS	EMPLOYMENT
ALABAMA	1.5147	0.274000	8.9373
ALASKA	1.4874	0.273100	5.1389
CALIFORNIA	1.6915	0.359000	6.7674
CONNECTICUT	1.0000	0.300532	7.3216
DELAWARE	1.4953	0.279800	6.0210
FLORIDA	1.5008	0.301400	6.8132
GEORGIA	1.5599	0.305800	7.3216
ILLINOIS	1.6634	0.335700	9.7864
LOUISIANA	1.6453	0.318000	6.9802
MAINE	1.0000	0.300532	7.3216
MARYLAND	1.4906	0.290200	9.0325
MASSACHUSETTS	1.5289	0.287400	8.3572
MISSISSIPPI	1.5075	0.266900	7.7226
NEW HAMPSHIRE	1.0000	0.300532	7.3216
MONTANA**	1.6820	0.303400	5.7731
NEW JERSEY	1.5788	0.293700	8.5829
NEW YORK	1.4379	0.226500	6.4359
NORTH CAROLINA	1.5252	0.293500	6.5902
OREGON	1.5020	0.291200	6.4913
RHODE ISLAND	1.4834	0.290300	6.1671
SOUTH CAROLINA	1.5182	0.309600	7.1937
PENNSYLVANIA	1.7305	0.360100	8.5332
TEXAS	1.8373	0.389000	7.6448
VIRGINIA	1.5280	0.294300	9.1455
WASHINGTON	1.5281	0.312100	6.5555
WYOMING**	1.6457	0.300200	4.7688
UNITED STATES***	2.3938	0.610900	10.4152

**SOURCE:** BUREAU OF ECONOMIC ANALYSIS

**NOTES:** 1,000 CUBIC FEET OF NATURAL GAS (1 MCF) = 0.178 BOE

\*OIL AND GAS EXTRACTION MULTIPLIERS FOR 2013 WERE NOT AVAILABLE AT THE TIME OF THIS STUDY.

\*\*MULTIPLIERS FOR COAL ONLY (2013)

\*\*\* THIS DATA IS FROM 2006 BECAUSE THE BEA HAS CEASED PRODUCING NATIONWIDE MULTIPLIERS. THE MULTIPLIER SHOULD NONETHELESS BE RELATIVELY STABLE OVER TIME.

**TABLE A4: RIMS II OIL & GAS EXTRACTION EMPLOYMENT  
MULTIPLIERS, BY INDUSTRY**

INDUSTRY	EXTRACTION MULTIPLIER
MINING	2.0662
HEALTH CARE AND SOCIAL ASSISTANCE	1.0978
RETAIL TRADE	1.0323
ACCOMMODATION AND FOOD SERVICES	0.7132
REAL ESTATE AND RENTAL AND LEASING	0.7079
PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES	0.6560
MANUFACTURING	0.6117
ADMINISTRATIVE AND WASTE MANAGEMENT SERVICES	0.6104
FINANCE AND INSURANCE	0.5521
OTHER SERVICES	0.5272
TRANSPORTATION AND WAREHOUSING	0.3694
WHOLESALE TRADE	0.3051
EDUCATIONAL SERVICES	0.2773
ARTS, ENTERTAINMENT, AND RECREATION	0.2101
INFORMATION	0.1797
MANAGEMENT OF COMPANIES AND ENTERPRISES	0.1679
AGRICULTURE, FORESTRY, FISHING, AND HUNTING	0.1599
CONSTRUCTION	0.0666
HOUSEHOLDS	0.0617
UTILITIES	0.0426
<b>TOTAL</b>	<b>10.4151</b>

**SOURCE:** BUREAU OF ECONOMIC ANALYSIS;

**NOTES:** THIS DATA IS OF 2006 BECAUSE THE BEA STOPPED PRODUCING U.S. LEVEL INDUSTRY EMPLOYMENT DATA.  
THE MULTIPLIERS HOWEVER ARE RELATIVELY STABLE OVER TIME.

**TABLE A5: 2011 STATE TAX BURDEN**

STATE	STATE AND LOCAL TAXES (\$2011)	GROSS STATE PRODUCT (\$2011)	TAX BURDEN (ESTIMATED)
ALABAMA	8,635,527,000	150,330,000,000	5.7%
ALASKA	9,532,624,000	44,702,000,000	21.3%
ARIZONA	12,247,616,000	227,098,000,000	5.4%
ARKANSAS	7,635,370,000	91,496,000,000	8.3%
CALIFORNIA	115,565,925,000	1,735,360,000,000	6.7%
COLORADO	9,589,681,000	234,308,000,000	4.1%
CONNECTICUT	13,177,045,000	201,386,000,000	6.5%
DELAWARE	3,079,166,000	57,293,000,000	5.4%
FLORIDA	34,120,038,000	661,091,000,000	5.2%
GEORGIA	17,850,125,000	365,809,000,000	4.9%
HAWAII	5,102,871,000	57,977,000,000	8.8%
IDAHO	3,529,196,000	51,463,000,000	6.9%
ILLINOIS	29,619,110,000	582,094,000,000	5.1%
INDIANA	15,246,515,000	240,933,000,000	6.3%
IOWA	6,653,147,000	128,597,000,000	5.2%
KANSAS	7,165,501,000	113,367,000,000	6.3%
KENTUCKY	10,112,843,000	141,266,000,000	7.2%
LOUISIANA	10,697,358,000	205,877,000,000	5.2%
MAINE	3,653,983,000	44,821,000,000	8.2%
MARYLAND	16,897,413,000	264,373,000,000	6.4%
MASSACHUSETTS	21,722,664,000	348,577,000,000	6.2%
MICHIGAN	25,292,388,000	337,427,000,000	7.5%
MINNESOTA	18,296,318,000	244,912,000,000	7.5%
MISSISSIPPI	6,626,204,000	84,272,000,000	7.9%
MISSOURI	10,941,653,000	216,099,000,000	5.1%
MONTANA	2,548,268,000	31,983,000,000	8.0%
NEBRASKA	4,143,035,000	79,889,000,000	5.2%
NEVADA	6,041,767,000	112,503,000,000	5.4%
NEW HAMPSHIRE	2,166,334,000	56,572,000,000	3.8%
NEW JERSEY	29,940,234,000	426,765,000,000	7.0%
NEW MEXICO	5,136,455,000	70,497,000,000	7.3%
NEW YORK	64,164,437,000	1,016,350,000,000	6.3%
NORTH CAROLINA	22,392,452,000	385,092,000,000	5.8%
NORTH DAKOTA	2,600,821,000	34,262,000,000	7.6%

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**TABLE A5: 2011 STATE TAX BURDEN  
(CONTINUED)**

STATE	STATE AND LOCAL TAXES (\$2011)	GROSS STATE PRODUCT (\$2011)	TAX BURDEN (ESTIMATED)
OHIO	27,480,438,000	418,881,000,000	6.6%
OKLAHOMA	8,814,218,000	134,146,000,000	6.6%
OREGON	8,493,308,000	186,228,000,000	4.6%
PENNSYLVANIA	31,716,660,000	500,443,000,000	6.3%
RHODE ISLAND	2,729,507,000	43,663,000,000	6.3%
SOUTH CAROLINA	8,253,067,000	143,278,000,000	5.8%
SOUTH DAKOTA	1,348,017,000	34,443,000,000	3.9%
TENNESSEE	11,223,774,000	233,997,000,000	4.8%
TEXAS	44,919,866,000	1,149,908,000,000	3.9%
UTAH	5,798,868,000	108,329,000,000	5.4%
VERMONT	2,366,479,000	22,968,000,000	10.3%
VIRGINIA	18,093,846,000	375,747,000,000	4.8%
WASHINGTON	17,489,540,000	310,906,000,000	5.6%
WEST VIRGINIA	4,947,847,000	55,765,000,000	8.9%
WISCONSIN	15,009,179,000	221,741,000,000	6.8%
WYOMING	2,487,141,000	31,542,000,000	7.9%
WASHINGTON D.C.	5,390,557,000	91,643,000,000	5.9%
WTD AVG. (GSP)	778,686,396,000	13,108,469,000,000	5.9%

**SOURCE:** U.S. CENSUS BUREAU, BUREAU OF ECONOMIC ANALYSIS

**TABLE A6: STATE LEVEL RESULTS**  
(\$ MILLIONS ANNUALLY, EXCEPT FOR EMPLOYMENT)

OUTPUT	EMPLOYMENT		WAGES		LOCAL & STATE TAXES			
STATE	SHORT	LONG	SHORT	LONG	SHORT	LONG	SHORT	LONG
MAINE	\$557	\$1,724	4,078	12,686	\$167	\$521	\$45	\$141
NEW HAMPSHIRE	\$32	\$104	233	769	\$10	\$31	\$1	\$4
MASSACHUSETTS	\$717	\$2,222	3,920	12,150	\$135	\$417	\$45	\$137
RHODE ISLAND	\$145	\$468	603	1,945	\$28	\$91	\$9	\$134
CONNECTICUT	\$235	\$709	1,717	5,218	\$70	\$214	\$15	\$46
NEW YORK	\$446	\$1,390	1,997	6,222	\$70	\$218	\$28	\$87
NEW JERSEY	\$501	\$1,685	2,726	8,701	\$93	\$308	\$35	\$117
DELAWARE	\$102	\$320	412	1,292	\$19	\$60	\$5	\$17
MARYLAND	\$113	\$331	684	1,856	\$22	\$64	\$7	\$21
VIRGINIA	\$418	\$1,308	2,502	7,834	\$81	\$252	\$20	\$62
NORTH CAROLINA	\$1,121	\$3,458	4,846	14,944	\$216	\$665	\$65	\$200
SOUTH CAROLINA	\$694	\$2,133	3,286	10,110	\$141	\$435	\$40	\$11
GEORGIA	\$381	\$1,176	1,788	5,061	\$75	\$230	\$19	\$ 58
FLORIDA	\$2,126	\$6,961	9,635	31,602	\$27	\$1,397	\$110	\$361
FLORIDA	\$7,122	\$31,325	32,333	142,207	\$1,430	\$6,290	\$368	\$1,628
CALIFORNIA	\$16,687	\$39,531	66,763	157,501	\$3,542	\$6,698	\$1,111	\$2,648
OREGON	\$5,222	\$12,218	22,566	52,804	\$1,012	\$2,368	\$238	\$562
WASHINGTON	\$2,818	\$6,696	12,088	28,501	\$575	\$1,364	\$159	\$374
ALASKA	\$17,747	\$39,807	61,314	137,534	\$3,258	\$2,119	\$3,784	\$8,479
MONTANA	N/A	\$6,483	N/A	24,994	N/A	\$1,280	N/A	\$518
WYOMING	N/A	\$81,387	N/A	235,840	N/A	\$14,846	N/A	\$6,429
<b>TOTAL FROM REGIONAL ANALYSIS</b>	<b>\$57,184</b>	<b>\$241,445</b>			<b>\$11,373</b>	<b>\$39,878</b>	<b>\$6,105</b>	<b>\$18,885</b>
<b>ADDITIONAL OIL AND GAS NON-ANWR AND SPILLOVER EFFECTS</b>	<b>\$69,725</b>	<b>\$333,720</b>			<b>\$21,014</b>	<b>\$123,031</b>	<b>\$4,142</b>	<b>\$42,646</b>
<b>TOTAL U.S. (ONSHORE &amp; OFFSHORE)</b>	<b>\$126,909</b>	<b>\$663,038</b>			<b>\$32,387</b>	<b>\$162,910</b>	<b>\$10,247</b>	<b>\$61,531</b>

## Appendix B: Estimation of Coal Reserves

Total coal resources on Federal lands amount to approximately 957 billion short tons, of which approximately 57.5% are in the Powder River Basin. The Powder River Basin accounted for nearly 88% of all coal produced from federal lands, and hence, is the main focus area of this study.

The following table gives a breakdown of total federal coal reserves in the US (excluding Alaska)<sup>42</sup>.

BASIN/ REGION	MST*	PERCENT
POWDER RIVER	550,206	57.5%
WILLISTON	27,200	2.8%
HANNA	2,350	0.2%
GREEN RIVER	1,200	0.1%
COLORADO PLATEAU	361,860	37.8%
GULF OF MEXICO COASTAL PLAIN	10,350	1.1%
APPALACHIAN	4,051	0.4%
<b>TOTAL</b>	<b>957,217</b>	

MST = MILLION SHORT TONS

**SOURCE:** INVENTORY OF ASSESSED FEDERAL COAL RESOURCES AND RESTRICTIONS TO THEIR DEVELOPMENT,  
U.S. DEPARTMENTS OF ENERGY, INTERIOR AND AGRICULTURE (AUGUST 2007)

Not all coal resources available in the Powder River Basin can be leased out for mining. Total land available for mining can be classified into the following three categories.

1. leasing available under standard lease terms or with no surface occupancy
2. leasing permitted with restrictions (possible leasing); and
3. leasing prohibited

Of the total federal lands, leasing is prohibited on approximately 591,000 acres which constitutes 10.9% of the area, roughly 82,000 acres or 1.5% of the area is available under standard lease terms and 431,000 acres or 7.9% of the total area is available with no surface occupancy. The major portion i.e. 4.3 million acres which constitutes 84.3% of federal land in the Powder River basin can be leased in the future. This area holds approximately 463 billion short tons of coal.

The following table gives a breakdown of the lease conditions in the PRB<sup>43</sup>.

CATEGORY	AREA		COAL TYPE (MST)				TOTAL COAL	
	ACRES	% FEDERAL	HYPOTHETICAL	INFERRED	INDICATED	MEASURED	MST	% FEDERAL
NLS	184,385	3.4%	245	9,636	4,524	872	15,277	2.8%
NLA	406,172	7.5%	280	10,494	5,064	1,043	16,881	3.1%
PL-PLUP	3,571,162	65.8%	28,875	243,230	93,926	21,435	387,466	70.4%
PL-PSOC	738,827	13.6%	-	29,919	37,471	9,128	76,518	13.9%
NSOA/OA	430,941	7.9%	515	12,506	8,756	1,864	23,641	4.3%
SUR-MIT	12,208	0.2%	-	179	1,744	739	2,662	0.5%
SLT	81,962	1.5%	255	9,148	14,156	3,676	27,235	4.9%
TOTAL FEDERAL	5,425,657	100.0%	30,696	315,113	165,641	38,757	550,206	100.0%
NON FEDERAL	1,403,858		10,589	52,881	28,135	5,875	97,480	
<b>TOTAL*</b>	<b>6,829,515</b>		<b>41,285</b>	<b>367,994</b>	<b>193,776</b>	<b>44,632</b>	<b>647,686</b>	
* TOTAL MAY DIFFER DUE TO ROUNDING AT EACH LEVEL.								

The following table defines each of the categories. Our analysis is focused on the PL-PLUP and PL-PSOC regions where leasing is possible but has not yet been undertaken.

<b>NLS</b>	NO LEASING (STATUTORY/ EXECUTIVE ORDER)
<b>NLA</b>	NO LEASING (ADMINISTRATIVE) GENERAL CATEGORY
<b>PL-PLUP</b>	POSSIBLE LEASING (ADMINISTRATIVE), PENDING LAND USE PLANNING OR NEPA COMPLIANCE
<b>PL-PSOC</b>	POSSIBLE LEASING (ADMINISTRATIVE), PENDING SURFACE OWNER CONSENT
<b>NSOA/OA</b>	LEASING, NO SURFACE OPERATIONS ANTICIPATED/ OFFSET AREA
<b>SUR-MIT</b>	SURFACE MINING ALLOWED WITH MITIGATION
<b>SLT</b>	LEASING, STANDARD LEASE TERMS