

Table 87. Domestic Coal Supply, Disposition, and Prices																									
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1997-2020
Sources of Supply (million short tons)																									
Distribution From																									
Appalachia 1/	397.0	406.1	417.6	410.1	414.8	422.8	418.2	412.9	409.1	412.5	409.3	418.3	416.7	407.6	405.6	399.6	400.1	397.9	403.3	392.1	391.5	391.4	393.3	389.1	-0.1%
Interior	167.8	170.1	167.5	169.0	156.4	137.9	138.4	137.3	129.2	133.6	125.4	126.5	135.7	126.9	134.2	134.3	138.9	150.0	145.7	157.4	160.5	162.2	157.7	163.7	-0.1%
Northern Great Plains	347.8	369.4	387.5	406.5	431.0	443.0	451.4	457.1	462.9	473.6	485.1	488.2	481.5	498.2	512.5	522.4	531.4	536.6	547.6	555.9	567.5	572.5	588.1	592.4	2.3%
Other West and Non-Contiguous	91.9	97.5	98.4	99.1	99.6	102.8	103.6	104.9	112.0	105.2	111.5	109.5	112.5	113.4	110.6	112.8	107.0	106.8	106.5	109.3	110.1	111.8	116.1	119.0	1.1%
Total Distribution (excludes exports) 2/	1004.6	1043.1	1071.1	1084.6	1101.8	1106.5	1111.6	1112.1	1113.2	1124.8	1131.3	1142.5	1146.5	1146.1	1162.8	1169.0	1177.4	1191.2	1203.2	1214.7	1229.6	1237.9	1255.2	1264.3	1.0%
Imports	7.5	7.1	7.1	7.5	7.5	7.5	7.5	7.5	7.5	7.6	7.6	7.6	7.6	7.6	7.7	7.7	7.7	7.7	7.7	7.8	7.8	7.8	7.8	7.9	0.2%
Total Supply	1012.1	1050.2	1078.1	1092.1	1109.3	1114.0	1119.1	1119.7	1120.8	1132.4	1138.9	1150.1	1154.1	1153.8	1170.5	1176.7	1185.1	1199.0	1210.9	1222.4	1237.4	1245.7	1263.1	1272.1	1.0%
Consumption (million short tons)																									
Residential/Commercial	6.0	6.3	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.5	6.5	6.5	6.5	6.5	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	0.4%
Industrial 3/	70.5	70.9	72.4	71.7	72.5	73.0	73.3	73.1	73.8	74.9	75.6	75.9	76.3	76.6	76.8	77.1	77.6	78.4	79.1	80.0	80.7	81.4	81.8	82.3	0.7%
Coke Plants	29.4	28.6	29.5	28.9	28.4	27.9	27.3	26.7	26.2	25.7	25.2	24.6	24.1	23.7	23.2	22.8	22.4	22.0	21.6	21.2	20.9	20.5	20.2	19.8	-1.7%
Electricity	924.0	934.2	966.7	985.4	1002.1	1006.2	1011.4	1013.4	1013.6	1025.8	1032.1	1043.0	1048.4	1049.6	1066.5	1070.4	1084.3	1091.5	1103.5	1114.4	1129.2	1138.8	1150.5	1166.0	1.0%
Total Consumption	1029.9	1040.1	1074.9	1092.3	1109.4	1113.5	1118.4	1119.7	1120.0	1132.9	1139.3	1150.0	1155.4	1156.4	1173.1	1176.9	1190.9	1198.5	1210.8	1222.3	1237.4	1247.3	1259.1	1274.8	0.9%
Discrepancy 4/	-17.8	10.1	3.2	-0.2	-0.2	0.5	0.7	-0.1	0.8	-0.5	-0.4	0.1	-1.2	-2.6	-2.6	-0.2	-5.8	0.5	0.1	0.1	-0.0	-1.6	4.0	-2.7	N/A
Delivered Prices (1997 dollars per short ton)																									
Industrial 5/	32.41	30.46	30.14	29.86	29.55	29.28	29.02	28.78	28.53	28.29	28.08	27.79	27.64	27.40	27.14	26.86	26.67	26.42	26.15	25.93	25.70	25.51	25.26	24.96	-1.1%
Coke Plants	47.36	46.41	45.89	45.37	45.01	44.56	44.33	43.92	43.61	43.20	42.84	42.62	42.30	41.98	41.63	41.31	40.82	40.66	40.16	39.89	39.59	39.34	39.06	38.74	-0.9%
Electricity	26.16	25.25	24.88	24.47	24.20	23.99	23.75	23.43	23.21	22.85	22.59	22.19	21.93	21.66	21.25	20.93	20.60	20.29	20.03	19.75	19.50	19.30	19.03	18.77	-1.4%
Average Price 6/	27.20	26.20	25.82	25.39	25.08	24.85	24.60	24.27	24.04	23.67	23.40	23.01	22.74	22.46	22.05	21.71	21.38	21.07	20.80	20.51	20.24	20.04	19.76	19.49	-1.4%

1/ Includes waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal distribution tables. The totals for this table include this waste coal tonnage.

2/ Excludes distribution less than 500 tons and to unknown destinations.

3/ Historical data is the sum of steam and coking coal consumption.

4/ Includes stock changes.

5/ Historical data is the average for steam and coking coal consumption.

6/ Weighted average excludes residential/commercial prices.

Appalachia: PA, OH, MD, WV, VA, TN, AL, Eastern KY.

Interior: Western KY, IL, IN, IA, MO, KS, OK, AR, TX, LA.

Northern Great Plains: ND, SD, MT, WY.

Other West: CO, UT, AZ, NM, WA, AK.

N/A = Not applicable.

Note: Total may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO99 National Energy Modeling System run AEO99B.D100198A.

Table 88. Coal Production and Minemouth Prices by Region																									
Supply Regions 1/	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1997-2020
Production (million short tons per year)																									
Appalachia 2/	477.18	480.59	491.34	483.44	487.72	495.42	490.81	485.47	481.67	486.40	483.42	492.46	490.92	481.81	479.83	474.04	474.88	472.89	478.62	467.75	467.49	467.70	469.91	466.03	-0.1%
Interior	170.86	170.19	167.63	169.08	156.50	137.97	138.55	137.43	129.34	133.68	125.55	126.61	135.84	127.08	134.33	134.40	139.07	150.16	145.85	157.52	160.65	162.34	157.89	163.88	-0.2%
Northern Great Plains	352.46	372.12	390.29	409.42	434.10	446.20	454.68	460.39	466.29	476.99	488.59	491.73	485.11	501.85	516.19	526.11	535.16	540.45	551.55	559.92	571.54	576.64	592.31	596.66	2.3%
Other West and Non-Contiguous	98.82	102.31	104.33	106.30	108.35	113.55	114.41	115.81	123.07	116.36	122.76	120.88	124.06	125.01	122.32	124.61	118.78	118.61	118.41	121.14	122.00	123.72	128.03	131.16	1.2%
Appalachia 2/	477.18	480.59	491.34	483.44	487.72	495.42	490.81	485.47	481.67	486.40	483.42	492.46	490.92	481.81	479.83	474.04	474.88	472.89	478.62	467.75	467.49	467.70	469.91	466.03	-0.1%
Interior	170.86	170.19	167.63	169.08	156.50	137.97	138.55	137.43	129.34	133.68	125.55	126.61	135.84	127.08	134.33	134.40	139.07	150.16	145.85	157.52	160.65	162.34	157.89	163.88	-0.2%
West	451.28	474.43	494.63	515.71	542.45	559.74	569.09	576.20	589.36	593.36	611.35	612.62	609.17	626.86	638.51	650.72	653.94	659.06	669.96	681.06	693.54	700.35	720.34	727.83	2.1%
East of Mississippi River	588.77	591.11	599.24	592.85	586.56	582.50	578.70	572.41	560.82	570.03	559.19	569.59	577.54	563.47	570.18	564.46	569.95	579.06	580.46	581.23	584.09	585.98	583.72	585.83	-0.0%
West of Mississippi River	510.55	534.11	554.36	575.39	600.11	610.63	619.75	626.69	639.56	643.40	661.13	662.10	658.38	672.27	682.49	694.70	697.93	703.06	713.98	725.10	737.59	744.41	764.42	771.91	1.8%
U.S. Total	1099.3	1125.2	1153.6	1168.2	1186.7	1193.1	1198.5	1199.1	1200.4	1213.4	1220.3	1231.7	1235.9	1235.7	1252.7	1259.2	1267.9	1282.1	1294.4	1306.3	1321.7	1330.4	1348.1	1357.7	0.9%
Minemouth Prices (1997 dollars per short ton)																									
Appalachia	26.37	25.69	25.18	24.90	24.47	24.04	23.81	23.45	23.21	22.89	22.68	22.39	22.18	22.10	21.89	21.71	21.50	21.36	21.14	21.07	21.02	20.97	20.82	20.72	-1.0%
Interior	17.92	17.34	16.93	16.74	16.17	15.88	15.71	15.48	15.22	15.17	14.88	14.85	14.98	14.86	15.03	14.87	14.98	15.06	14.97	15.00	14.92	14.91	14.81	14.81	-0.8%
Northern Great Plains	6.63	6.49	6.30	6.15	5.99	5.91	5.79	5.70	5.59	5.53	5.47	5.41	5.39	5.35	5.32	5.32	5.31	5.27	5.25	5.26	5.25	5.29	5.31	5.31	-1.0%
Other West and Non-Contiguous	19.87	19.38	19.07	18.75	18.43	18.15	17.96	17.85	17.62	17.53	17.14	16.97	16.80	16.66	16.38	16.25	16.23	16.08	16.07	15.91	15.86	15.81	15.68	15.60	-1.0%
Appalachia	26.37	25.69	25.18	24.90	24.47	24.04	23.81	23.45	23.21	22.89	22.68	22.39	22.18	22.10	21.89	21.71	21.50	21.36	21.14	21.07	21.02	20.97	20.82	20.72	-1.0%
Interior	17.92	17.34	16.93	16.74	16.17	15.88	15.71	15.48	15.22	15.17	14.88	14.85	14.98	14.86	15.03	14.87	14.98	15.06	14.97	15.00	14.92	14.91	14.81	14.81	-0.8%
West	9.53	9.27	8.99	8.74	8.47	8.40	8.24	8.14	8.10	7.88	7.81	7.69	7.71	7.61	7.44	7.41	7.29	7.22	7.16	7.15	7.12	7.15	7.15	7.16	-1.2%
East of Mississippi River	25.27	24.60	24.14	23.82	23.46	23.15	22.89	22.54	22.36	22.03	21.88	21.62	21.36	21.29	21.05	20.86	20.67	20.46	20.31	20.14	20.05	19.99	19.89	19.75	-1.1%
West of Mississippi River	9.92	9.65	9.38	9.14	8.84	8.71	8.56	8.46	8.42	8.21	8.12	8.01	8.02	7.89	7.72	7.69	7.57	7.50	7.44	7.43	7.39	7.42	7.41	7.42	-1.3%
U.S. Total	18.14	17.51	17.04	16.59	16.06	15.76	15.48	15.18	14.93	14.70	14.43	14.30	14.26	14.00	13.79	13.59	13.46	13.35	13.21	13.08	12.98	12.96	12.81	12.74	-1.5%

1/ Coal Production Regions:

- Appalachia: PA, OH, MD, WV, VA, TN, AL, Eastern KY.
- Interior: Western KY, IL, IN, IA, MO, KS, OK, AR, TX, LA.
- Northern Great Plains: ND, SD, MT, WY.
- Other West: CO, UT, AZ, NM, WA, AK.

2 /Includes waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal production tables. The totals for this table include this waste coal tonnage.

N/A = Not applicable

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO99 National Energy Modeling System run AEO99B.D100198A.

Table 89. Coal Production by Region and Type (million short tons per year)																									
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1997-2020
Northern Appalachia	161.71	162.19	168.99	161.91	165.48	173.88	171.32	170.15	162.34	172.31	168.29	185.54	190.35	184.27	189.80	191.63	196.96	199.43	211.73	208.44	212.54	215.78	219.07	218.70	1.3%
Medium Sulfur (Premium) 1/	7.03	6.83	6.91	6.82	6.72	6.62	6.78	6.90	7.50	7.60	7.74	7.27	6.80	6.41	6.31	6.25	6.45	6.05	6.04	5.59	5.57	5.47	5.41	5.35	-1.2%
Low Sulfur (Bituminous) 2/	4.17	5.08	5.65	5.52	5.99	5.83	5.88	5.57	6.04	5.52	5.77	5.19	4.55	4.24	4.78	5.02	4.59	4.35	4.28	4.27	4.42	4.49	4.32	4.14	-0.0%
Medium Sulfur (Bituminous) 2/	66.81	72.82	76.45	69.95	72.00	76.88	76.30	73.91	76.11	81.40	82.05	93.10	97.99	94.99	102.71	106.03	111.44	113.83	125.88	122.82	127.77	129.32	133.96	131.04	3.0%
High Sulfur (Bituminous)	74.30	67.86	70.97	75.92	75.92	80.25	77.98	79.49	69.82	73.73	69.84	76.87	76.02	75.68	72.81	71.19	70.44	66.97	67.33	67.71	66.68	67.88	66.92	69.22	-0.3%
High Sulfur (Gob) 3/	9.40	9.60	9.00	3.70	4.84	4.31	4.38	4.29	2.88	4.07	2.89	3.10	5.00	2.94	3.18	3.15	4.04	8.22	8.19	8.05	8.10	8.61	8.47	8.94	-0.2%
Central Appalachia	287.70	289.76	293.64	293.35	293.83	293.15	291.60	288.05	292.34	287.99	289.70	282.53	276.94	274.77	268.64	262.03	258.44	254.26	247.92	240.61	236.33	233.42	233.17	228.96	-1.0%
Medium Sulfur (Premium) 1/	63.84	64.00	64.20	63.54	62.82	62.09	61.75	61.00	59.78	60.42	59.89	59.78	59.67	59.50	59.04	58.51	57.83	57.75	57.28	57.27	56.85	56.52	56.14	55.78	-0.6%
Low Sulfur (Bituminous)	66.09	67.55	68.79	67.10	69.89	69.60	70.02	68.62	66.48	67.70	66.30	65.78	65.05	65.00	64.14	62.46	60.51	58.80	58.48	56.11	54.97	52.32	48.44	46.03	-1.6%
Medium Sulfur (Bituminous)	157.77	158.21	160.65	162.72	161.12	161.45	159.84	158.43	166.09	159.87	163.51	156.97	152.22	150.27	145.47	141.05	140.10	137.71	132.16	127.22	124.51	124.58	128.58	127.15	-0.9%
Southern Appalachia	27.77	28.65	28.72	28.18	28.40	28.39	27.89	27.26	26.99	26.10	25.43	24.39	23.62	22.78	21.39	20.37	19.48	19.21	18.98	18.70	18.62	18.50	17.66	18.37	-1.8%
Low Sulfur (Premium) 1/	9.71	7.25	7.26	7.46	7.38	7.31	7.25	7.19	7.14	7.08	7.03	6.98	6.93	6.88	6.83	6.79	6.76	6.72	6.68	6.64	6.61	6.57	6.54	6.50	-1.7%
Low Sulfur (Bituminous)	8.57	11.05	11.00	10.46	11.21	11.26	11.01	10.57	10.30	9.72	9.53	9.08	8.72	8.28	7.66	7.20	6.80	6.98	7.11	7.45	7.83	8.04	7.32	8.30	-0.1%
Medium Sulfur (Bituminous)	9.49	10.36	10.47	10.26	9.81	9.82	9.63	9.50	9.55	9.29	8.87	8.33	7.97	7.62	6.89	6.38	5.92	5.51	5.19	4.60	4.18	3.89	3.81	3.57	-4.2%
Eastern Interior	111.59	110.52	107.90	109.40	98.84	87.08	87.89	86.94	79.14	83.63	75.77	77.13	86.63	81.67	90.35	90.42	95.08	106.17	101.83	113.48	116.60	118.28	113.82	119.80	0.3%
Medium Sulfur (Bituminous)	32.73	34.52	34.57	33.86	25.13	22.69	20.12	19.53	19.13	20.07	20.00	22.03	26.28	23.14	23.72	21.94	29.75	34.35	35.42	35.67	33.92	34.60	31.24	33.79	0.1%
High Sulfur (Bituminous)	78.86	75.99	73.33	75.54	73.72	64.39	67.77	67.41	60.01	63.57	55.77	55.10	60.35	58.53	66.63	68.48	65.33	71.82	66.42	77.82	82.68	83.68	82.57	86.01	0.4%
Western Interior High Sulfur (Bituminous)	2.75	1.74	1.75	1.73	1.73	1.72	1.70	1.69	1.68	1.67	1.65	1.63	1.62	1.60	1.57	1.55	1.53	1.51	1.50	1.48	1.47	1.46	1.46	1.45	-2.7%
Gulf	56.52	57.93	57.97	57.95	55.94	49.17	48.97	48.80	48.52	48.38	48.12	47.85	47.59	43.80	42.41	42.43	42.46	42.48	42.51	42.55	42.58	42.60	42.62	42.63	-1.2%
Medium Sulfur (Lignite)	31.32	32.99	33.03	33.00	27.33	26.73	26.68	26.73	26.69	26.76	26.77	26.78	24.98	25.00	25.02	25.04	25.07	25.09	25.12	25.16	25.18	25.20	25.22	25.24	-0.9%
High Sulfur (Lignite)	25.20	24.94	24.94	24.94	28.61	22.44	22.28	22.07	21.83	21.62	21.35	21.06	22.61	18.81	17.39	17.39	17.39	17.39	17.39	17.39	17.39	17.39	17.39	17.39	-1.6%
Dakota Med. Sulfur (Lignite) 4/	29.82	31.89	32.54	33.13	34.02	34.33	30.44	29.15	29.06	28.83	28.54	28.21	27.94	27.67	30.10	29.72	29.39	29.10	28.91	28.54	28.31	28.15	28.12	27.97	-0.3%
Powder/Green River	322.64	340.23	357.75	376.28	400.08	411.87	424.23	431.24	437.23	448.16	460.05	463.52	457.17	474.19	486.08	496.39	505.77	511.35	522.64	531.38	543.23	548.49	564.19	568.69	2.5%
Low Sulfur (Bituminous)	2.85	4.16	4.03	4.25	3.90	3.83	3.73	3.65	3.60	3.48	3.35	3.23	3.11	3.00	2.77	2.61	2.47	2.35	2.25	2.07	1.95	1.87	1.86	1.79	-2.0%
Low Sulfur (Sub-Bituminous)	273.88	287.97	305.90	321.47	344.72	351.94	364.91	372.25	378.44	390.21	402.98	407.25	401.64	416.76	429.47	440.98	451.35	457.71	474.99	478.45	489.40	493.34	504.50	507.07	2.7%
Medium Sulfur (Sub-Bituminous)	45.91	48.10	47.82	50.57	51.46	56.10	55.60	55.34	55.18	54.47	53.72	53.04	52.41	54.43	53.84	52.80	51.95	51.30	45.40	50.86	51.88	53.28	57.83	59.83	1.2%
Rocky Mountain	54.13	60.02	61.82	63.61	65.58	70.71	71.27	72.02	78.35	74.26	82.67	80.93	84.27	87.24	87.20	89.67	84.02	83.99	83.92	87.12	88.61	91.68	96.01	99.10	2.7%
Low Sulfur (Bituminous)	44.50	51.16	52.95	54.93	57.11	62.45	63.30	64.24	70.72	66.98	75.74	74.33	77.98	81.24	81.79	84.69	79.42	79.73	79.94	83.63	85.47	88.77	93.18	96.47	3.4%
Low Sulfur (Sub-Bituminous)	9.63	8.86	8.86	8.68	8.47	8.26	7.97	7.78	7.63	7.28	6.93	6.60	6.29	6.00	5.41	4.98	4.60	4.26	3.97	3.49	3.15	2.91	2.83	2.63	-5.5%
Arizona/New Mexico	38.75	36.94	37.12	37.21	37.20	37.20	37.49	38.09	38.98	36.30	36.22	36.23	36.20	34.30	31.93	31.93	31.93	31.94	31.94	31.70	31.21	29.96	29.97	29.97	-1.1%
Low Sulfur (Bituminous)	26.04	23.42	23.49	23.52	23.50	23.49	23.60	23.85	24.23	25.70	25.61	25.62	25.59	25.56	23.19	23.19	23.19	23.19	23.19	22.95	22.95	22.95	22.95	22.95	-0.5%
Medium Sulfur (Sub-Bituminous)	12.71	13.53	13.63	13.68	13.70	13.71	13.89	14.24	14.75	10.60	10.61	10.61	10.61	8.74	8.74	8.74	8.74	8.74	8.75	8.75	8.27	7.02	7.02	7.02	-2.5%
Washington/Alaska																									
Medium Sulfur (Sub-Bituminous)	5.94	5.35	5.39	5.48	5.56	5.64	5.65	5.70	5.74	5.81	3.87	3.73	3.60	3.47	3.20	3.00	2.83	2.68	2.55	2.33	2.17	2.08	2.05	2.10	-4.4%

Table 89. Coal Production by Region and Type (million short tons per year)																										
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1997-2020	
Subtotals: All Regions																										
Premium Metallurgical 1/	80.57	78.07	78.37	77.82	76.93	76.02	75.77	75.09	74.41	75.10	74.67	74.03	73.40	72.78	72.18	71.56	71.03	70.52	70.01	69.51	69.03	68.56	68.09	67.63	-0.8%	
Bituminous	574.95	583.92	594.11	595.77	591.02	593.65	590.87	586.46	583.77	588.67	588.00	597.27	607.44	599.16	604.14	601.78	601.48	607.11	609.15	613.80	618.79	623.85	626.61	631.91	0.4%	
Sub-Bituminous	348.07	363.81	381.60	399.88	423.91	435.65	448.02	455.30	461.74	468.37	478.10	481.22	474.55	489.40	500.65	510.51	519.48	524.68	535.66	543.87	554.86	558.62	574.24	578.65	2.2%	
Lignite	95.74	99.42	99.51	94.77	94.80	87.81	83.78	82.25	80.46	81.28	79.55	79.16	80.53	74.41	75.69	75.30	75.89	79.81	79.62	79.15	78.99	79.35	79.20	79.55	-0.8%	
Low Sulfur	445.45	466.50	487.94	503.38	532.17	543.96	557.67	563.72	574.58	583.66	603.24	604.06	599.86	616.96	626.05	637.93	639.69	644.09	660.90	665.06	676.73	681.25	691.93	695.88	2.0%	
Medium Sulfur	463.37	478.58	485.65	483.02	469.68	476.06	466.66	460.42	469.57	465.12	465.57	469.85	470.47	461.23	465.05	459.47	469.47	472.11	472.70	468.81	468.61	470.11	479.40	478.84	0.1%	
High Sulfur	190.51	180.14	180.01	181.84	184.81	173.11	174.12	174.96	156.22	164.66	151.50	157.77	165.59	157.56	161.58	161.75	158.72	165.92	160.84	172.46	176.32	179.02	176.81	183.02	-0.2%	
U.S. Total	1099.3	1125.2	1153.6	1168.2	1186.7	1193.1	1198.4	1199.1	1200.4	1213.4	1220.3	1231.7	1235.9	1235.7	1252.7	1259.2	1267.9	1282.1	1294.4	1306.3	1321.7	1330.4	1348.1	1357.7	0.9%	

1/ "Premium" coal is used to make metallurgical coke.

2/ Includes Pennsylvania anthracite.

3/ Waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal production tables. The totals for this table include this waste coal tonnage.

4/ Only includes lignite which is reported as medium sulfur.

Northern Appalachia: PA,MD,OH,N,WV (PA anthracite is included under low and medium sulfur bituminous).

Central Appalachia: S,WV,VA,E,KY

Southern Appalachia: AL,TN.

Eastern Interior: IL,IN,W,KY.

Western Interior (Bituminous Only): IA,MO,KS,OK,AR,TX.

Gulf (Lignite Only): TX,LA,AR.

Dakota: ND,SD,E,MT(Lignite Only).

Powder/Green River: WY,MT(Sub-Bituminous and Bituminous)

Rocky Mountains: CO,UT.

Sulfur Definitions:

Low Sulfur: 0 - 0.60 pounds of sulfur per million Btu.

Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million Btu.

High Sulfur: Over 1.67 pounds of sulfur per million Btu.

Btu = British thermal unit.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO99 National Energy Modeling System run AEO99B.D100198A.

Table 90. Coal Prices by Region and Type (1997 Dollars per Short Ton)																										
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1997-2020	
Northern Appalachia	24.98	23.97	23.47	23.31	22.85	22.33	22.01	21.58	21.29	20.97	20.70	20.42	20.09	20.04	19.89	19.75	19.46	19.26	19.08	19.00	18.97	18.92	18.79	18.65	-1.3%	
Medium Sulfur (Premium) 1/	39.70	38.42	37.66	36.91	36.36	35.82	35.32	34.91	34.61	34.27	33.95	33.84	33.63	33.42	33.22	33.01	32.63	32.62	32.24	32.24	31.96	31.96	31.99	31.67	-1.0%	
Low Sulfur (Bituminous) 2/	35.00	34.32	34.05	33.60	33.34	33.03	32.84	32.55	32.08	31.95	31.66	31.18	30.88	30.76	30.78	30.56	30.27	30.00	29.86	29.78	29.77	29.53	29.44	29.14	-0.8%	
Medium Sulfur (Bituminous) 2/	25.04	24.14	23.56	22.88	22.52	21.99	21.64	21.21	20.73	20.53	20.13	19.98	19.86	19.74	19.63	19.52	19.29	19.33	19.13	19.12	19.07	19.02	18.90	18.77	-1.2%	
High Sulfur (Bituminous)	24.51	23.20	22.60	22.38	21.95	21.45	21.09	20.66	20.05	19.92	19.51	19.44	19.28	19.14	18.90	18.67	18.47	18.42	18.26	18.12	18.11	18.11	17.96	17.91	-1.4%	
High Sulfur (Gob) 3/	12.78	12.38	12.01	10.13	10.17	9.83	9.54	9.28	8.58	8.79	8.27	8.29	8.91	8.25	8.30	8.24	8.41	9.54	9.64	9.73	9.73	9.87	9.84	9.94	-1.1%	
Central Appalachia	26.12	25.57	25.09	24.72	24.28	23.93	23.75	23.45	23.18	22.97	22.79	22.64	22.58	22.48	22.36	22.21	22.14	22.09	21.95	21.91	21.87	21.86	21.78	21.66	-0.8%	
Medium Sulfur (Premium) 1/	29.62	29.02	28.44	27.88	27.46	27.05	26.92	26.52	26.25	25.97	25.71	25.71	25.61	25.51	25.44	25.37	25.11	25.24	24.99	24.99	24.99	24.99	24.99	24.98	-0.7%	
Low Sulfur (Bituminous)	26.12	25.34	24.96	24.47	24.27	23.93	23.78	23.55	23.25	23.02	22.88	22.79	22.70	22.60	22.47	22.34	22.22	22.03	22.03	21.79	21.71	21.66	21.38	21.25	-0.9%	
Medium Sulfur (Bituminous)	24.70	24.27	23.80	23.58	23.05	22.73	22.52	22.22	22.05	21.80	21.68	21.40	21.34	21.23	21.05	20.85	20.89	20.79	20.60	20.58	20.52	20.52	20.52	20.35	-0.8%	
Southern Appalachia	37.12	36.66	36.29	35.94	35.81	35.65	35.47	35.26	35.05	34.75	34.55	34.44	34.29	34.12	33.83	33.74	33.61	33.54	33.54	33.43	33.63	33.66	33.45	33.66	-0.4%	
Low Sulfur (Premium) 1/	40.55	39.32	38.94	38.64	38.45	38.25	38.06	37.87	37.87	37.49	37.49	37.48	37.29	37.11	36.92	37.10	37.10	36.91	36.91	36.54	36.54	36.54	36.54	36.53	-0.5%	
Low Sulfur (Bituminous)	37.35	37.81	37.44	37.00	37.04	36.93	36.75	36.52	36.12	35.88	35.52	35.43	35.23	35.01	34.53	34.31	33.97	34.08	34.08	34.09	34.39	34.39	34.04	34.38	-0.4%	
Medium Sulfur (Bituminous)	33.40	33.58	33.24	32.90	32.42	32.24	32.06	31.89	31.79	31.48	31.17	30.81	30.64	30.47	30.00	29.53	29.22	28.76	28.46	27.87	27.58	27.30	27.03	26.74	-1.0%	
Eastern Interior	20.56	19.87	19.36	19.04	18.46	18.04	17.78	17.47	17.20	17.02	16.79	16.70	16.75	16.53	16.60	16.39	16.48	16.46	16.40	16.30	16.15	16.13	16.03	15.98	-1.1%	
Medium Sulfur (Bituminous)	21.85	20.65	20.25	19.81	19.26	18.95	18.83	18.64	18.40	18.28	18.08	17.98	18.22	18.06	17.96	17.83	18.00	17.93	17.86	17.86	17.69	17.58	17.54	17.42	-1.0%	
High Sulfur (Bituminous)	20.03	19.52	18.94	18.69	18.19	17.72	17.47	17.13	16.82	16.62	16.33	16.19	16.12	15.93	16.11	15.93	15.79	15.76	15.63	15.58	15.52	15.53	15.46	15.41	-1.1%	
Western Interior High Sulfur (Bituminous)	24.03	22.25	22.25	22.25	22.14	22.03	22.14	22.25	22.25	22.25	22.25	22.03	21.92	21.81	21.70	21.59	21.38	21.27	21.27	21.27	21.27	21.06	21.06	21.06	-0.6%	
Gulf	12.39	12.36	12.24	12.24	11.94	11.83	11.77	11.72	11.73	11.74	11.62	11.61	11.53	11.49	11.43	11.38	11.38	11.32	11.32	11.32	11.33	11.33	11.33	11.33	-0.4%	
Medium Sulfur (Lignite)	13.34	13.31	13.18	13.18	12.85	12.79	12.72	12.66	12.66	12.66	12.54	12.54	12.48	12.42	12.35	12.29	12.29	12.23	12.23	12.24	12.24	12.24	12.24	12.24	-0.4%	
High Sulfur (Lignite)	11.22	11.11	11.01	11.01	11.06	10.68	10.63	10.58	10.59	10.59	10.47	10.44	10.48	10.25	10.10	10.05	10.05	10.00	10.01	10.01	10.01	10.01	10.01	10.01	-0.5%	
Dakota Med. Sulfur (Lignite) 4/	8.09	8.03	8.04	7.96	7.92	7.88	7.77	7.67	7.60	7.60	7.58	7.53	7.52	7.48	7.52	7.41	7.41	7.38	7.38	7.30	7.31	7.31	7.31	7.24	-0.5%	
Powder/Green River	W	6.35	6.14	5.99	5.82	5.75	5.65	5.56	5.46	5.39	5.34	5.28	5.25	5.23	5.19	5.19	5.18	5.15	5.13	5.15	5.14	5.19	5.21	5.21	N/A	
Low Sulfur (Bituminous)	W	17.05	16.72	16.55	16.30	16.22	16.14	16.06	15.90	15.90	15.75	15.59	15.51	15.44	15.36	15.28	15.13	15.06	15.06	14.91	14.91	14.76	14.76	14.76	N/A	
Low Sulfur (Sub-Bituminous)	W	5.97	5.79	5.62	5.49	5.41	5.33	5.25	5.15	5.10	5.05	5.00	4.98	4.95	4.93	4.96	4.96	4.94	4.94	4.94	4.94	4.99	4.99	4.99	N/A	
Medium Sulfur (Sub-Bituminous)	W	7.71	7.48	7.41	7.30	7.19	7.09	6.99	6.92	6.85	6.85	6.81	6.78	6.74	6.71	6.68	6.68	6.65	6.65	6.72	6.72	6.72	6.79	6.79	N/A	
Rocky Mountain	18.04	17.67	17.19	16.72	16.32	16.06	15.70	15.48	15.29	15.00	14.96	14.67	14.59	14.50	14.41	14.32	14.18	14.03	14.02	13.92	13.92	13.97	13.88	13.82	-1.2%	
Low Sulfur (Bituminous)	17.96	17.61	17.08	16.57	16.16	15.92	15.53	15.30	15.13	14.82	14.82	14.53	14.45	14.38	14.31	14.24	14.10	13.95	13.96	13.87	13.88	13.95	13.86	13.80	-1.1%	
Low Sulfur (Sub-Bituminous)	18.40	18.03	17.85	17.67	17.41	17.15	17.07	16.98	16.81	16.65	16.48	16.32	16.24	16.16	15.92	15.68	15.53	15.45	15.30	15.00	14.85	14.70	14.70	14.55	-1.0%	
Arizona/New Mexico	W	21.34	21.34	21.33	21.22	21.12	21.21	21.31	21.29	21.59	21.43	21.43	21.32	21.48	21.10	21.05	21.05	20.94	20.94	20.93	20.94	21.01	21.01	21.01	N/A	
Low Sulfur (Bituminous)	W	22.87	22.87	22.87	22.76	22.65	22.76	22.87	22.87	23.10	22.87	22.87	22.75	22.87	22.53	22.41	22.41	22.30	22.30	22.30	22.30	22.30	22.30	22.30	22.30	N/A
Medium Sulfur (Sub-Bituminous)	W	18.69	18.69	18.69	18.59	18.50	18.59	18.69	18.69	17.95	17.95	17.95	17.86	17.41	17.33	17.41	17.41	17.33	17.33	17.33	17.15	16.81	16.81	16.81	N/A	
Washington/Alaska																										
Medium Sulfur (Sub-Bituminous)	W	25.01	25.01	24.76	24.64	24.76	24.89	24.76	24.51	24.51	23.40	23.40	23.29	23.17	23.05	22.94	22.71	22.60	22.60	22.37	22.15	22.15	22.15	22.20	N/A	

Table 90. Coal Prices by Region and Type (1997 Dollars per Short Ton)																									
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1997-2020
Average by Type: All Regions																									
Premium Metallurgical 1/	31.82	30.80	30.23	29.70	29.30	28.89	28.74	28.38	28.21	27.90	27.68	27.62	27.46	27.30	27.21	27.15	26.94	26.99	26.75	26.68	26.66	26.65	26.65	26.62	-0.8%
Bituminous	23.85	23.23	22.78	22.37	22.02	21.68	21.40	21.07	20.79	20.56	20.31	20.08	19.87	19.73	19.50	19.28	19.19	19.05	18.94	18.75	18.66	18.61	18.47	18.33	-1.1%
Sub-Bituminous	7.49	7.25	7.02	6.82	6.62	6.52	6.41	6.33	6.22	6.01	5.85	5.78	5.75	5.64	5.57	5.56	5.53	5.48	5.44	5.44	5.41	5.42	5.43	5.43	-1.4%
Lignite	11.09	10.98	10.85	10.66	10.40	10.18	10.20	10.16	10.13	10.12	10.05	10.03	9.97	9.87	9.74	9.68	9.68	9.70	9.72	9.71	9.72	9.74	9.74	9.73	-0.6%
Low Sulfur	13.24	12.81	12.39	11.88	11.56	11.37	11.12	10.87	10.68	10.45	10.30	10.11	10.07	9.90	9.65	9.53	9.30	9.16	9.04	8.97	8.91	8.90	8.73	8.71	-1.8%
Medium Sulfur	21.97	21.38	21.01	20.57	20.22	19.81	19.73	19.48	19.34	19.16	18.99	18.82	18.75	18.57	18.38	18.24	18.18	18.15	18.13	17.93	17.84	17.77	17.66	17.49	-1.0%
High Sulfur	20.31	19.39	18.97	19.04	18.46	18.38	18.06	17.76	17.30	17.17	16.88	16.91	16.64	16.71	16.62	16.41	16.22	15.98	15.87	15.79	15.74	15.74	15.65	15.62	-1.1%
U.S. Average	18.14	17.51	17.04	16.59	16.06	15.76	15.48	15.18	14.93	14.70	14.43	14.30	14.26	14.00	13.79	13.59	13.46	13.35	13.21	13.08	12.98	12.96	12.81	12.74	-1.5%

1/ "Premium" coal is used to make metallurgical coke.

2/ Includes Pennsylvania anthracite.

3/ Waste coal delivered to Independent Power Producers (IPP) that is not included in other Energy Information Administration coal tables. The averages for this table include this waste coal tonnage.

4/ Only includes lignite which is reported as medium sulfur.

Northern Appalachia: PA,MD,OH,N,WV (PA. anthracite is included under low and medium sulfur bituminous).

Central Appalachia: S,WV,VA,E,KY

Southern Appalachia: AL,TN.

Eastern Interior: IL,IN,W,KY.

Western Interior (Bituminous Only): IA,MO,KS,OK,AR,TX.

Gulf (Lignite Only): TX,LA,AR.

Dakota: ND,SD,E,MT(Lignite Only).

Powder/Green River: WY,MT(Sub-Bituminous and Bituminous)

Rocky Mountains: CO,UT.

Sulfur Definitions:

Low Sulfur: 0 - 0.60 pounds of sulfur per million Btu.

Medium Sulfur: 0.61 - 1.67 pounds of sulfur per million Btu.

High Sulfur: Over 1.67 pounds of sulfur per million Btu.

Btu = British thermal unit.

W = Withheld.

N/A = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, AEO99 National Energy Modeling System run AEO99B.D100198A.

Table 91. World Steam Coal Flows By Importing Regions and Exporting Countries 1,2/ (Million Short Tons)																											
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1997-2020		
Steam Coal Exports to Europe 3/																											
Australia	8.6	4.5	4.6	4.6	4.7	4.7	4.8	4.8	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.2	5.3	5.3	5.4	5.4	5.5	5.6	5.6	5.7	5.7	-1.8%	
United States	13.2	13.8	13.7	15.2	15.9	16.0	16.7	15.8	16.3	16.3	16.3	17.4	17.4	17.0	17.4	16.6	17.9	18.2	19.5	18.6	18.9	20.0	19.2	20.4	20.4	1.9%	
South Africa	38.3	45.5	46.1	47.9	49.1	50.7	50.4	50.7	56.8	56.6	56.3	56.1	55.7	55.3	54.9	53.6	51.9	50.2	47.6	47.0	46.3	45.7	45.1	44.5	44.5	0.7%	
Former U.S.S.R.	5.4	9.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	8.2	8.0	7.9	7.8	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	1.6%
Poland	17.2	11.7	11.4	11.0	10.5	9.9	9.4	8.8	8.3	7.8	7.4	6.9	6.5	6.1	6.0	5.9	5.9	5.8	5.7	5.7	5.6	5.6	5.6	5.5	5.5	-4.8%	
Canada	1.4	5.0	5.1	5.1	5.2	5.2	5.2	5.2	3.1	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.6	3.6	4.1%	
China	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
South America	27.0	27.3	28.4	29.6	30.3	31.0	31.7	32.4	33.1	33.6	34.1	34.6	35.1	35.7	36.4	37.0	38.1	39.1	39.9	40.3	40.7	41.1	41.5	41.9	41.9	1.9%	
Indonesia 4/	6.5	10.4	9.0	6.2	5.8	5.0	6.8	8.1	5.6	5.4	5.3	4.0	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.8	5.0	5.1	5.2	5.4	5.4	-0.8%	
Total	119.0	127.4	127.2	128.4	130.1	131.1	133.4	134.2	136.3	136.0	135.7	135.2	134.9	134.3	135.2	133.8	134.6	134.3	133.9	133.0	133.2	134.3	133.4	134.6	134.6	0.5%	
Steam Coal Exports to Asia																											
Australia	71.2	77.2	76.6	75.8	78.3	80.3	84.9	88.9	89.3	93.8	98.4	101.8	104.5	106.9	107.9	109.0	109.8	110.5	114.7	116.5	118.2	119.9	121.6	123.2	123.2	2.4%	
United States	6.1	5.7	7.2	8.1	9.8	11.8	12.0	12.7	12.9	13.2	13.4	12.5	12.6	12.5	13.5	13.6	13.7	13.7	13.8	13.9	15.0	14.2	15.3	14.5	14.5	3.8%	
South Africa	17.6	14.1	15.3	15.3	14.0	12.4	12.7	12.9	13.5	14.5	15.4	16.4	17.5	18.6	19.0	20.2	21.9	23.6	26.1	26.7	27.3	27.9	28.5	29.2	29.2	2.2%	
Former U.S.S.R.	2.4	6.6	6.1	5.5	5.4	5.3	5.2	5.1	5.0	4.9	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0	3.9	3.7	3.6	3.5	3.4	3.3	3.3	1.4%	
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
Canada	4.4	1.3	1.4	1.5	1.6	1.6	1.7	1.8	1.5	1.1	0.7	1.4	2.8	4.5	4.4	4.4	4.4	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
China	26.5	30.8	31.4	32.1	32.6	33.2	33.7	34.3	34.8	35.3	35.7	36.2	36.6	37.0	37.5	37.9	38.4	38.8	39.2	39.9	40.6	41.2	41.9	42.6	42.6	2.1%	
South America	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
Indonesia 4/	29.5	36.6	39.7	44.0	45.6	47.7	47.1	47.2	50.9	51.6	52.3	54.1	54.8	55.1	56.0	56.9	57.8	58.7	59.6	60.5	61.4	62.2	63.1	64.0	64.0	3.4%	
Total	157.7	172.3	177.7	182.3	187.4	192.4	197.3	202.9	208.0	214.4	220.7	227.0	233.3	239.0	242.5	246.2	249.9	253.6	257.4	261.3	266.0	269.0	273.8	276.7	276.7	2.5%	
Steam Coal Exports to America 5/																											
Australia	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.7	0.3	0.3	0.3	1.1	1.1	1.1	1.1	1.1	1.1	1.1	-0.7%	
United States	12.2	11.8	11.2	10.0	9.3	9.2	8.3	8.7	8.3	8.4	8.5	8.6	8.7	9.7	8.6	9.8	8.9	9.1	8.2	9.5	8.7	9.0	9.2	9.5	9.5	-1.1%	
South Africa	7.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	-4.9%	
Former U.S.S.R.	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
Poland	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
Canada	-0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A	
China	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
South America	3.7	9.2	9.4	9.6	9.8	10.0	10.3	10.5	10.7	11.0	11.3	11.6	11.9	12.2	12.6	13.1	13.3	13.4	13.8	14.2	14.6	14.9	15.3	15.7	15.7	6.5%	
Indonesia 4/	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A	
Total	42.4	24.0	23.6	22.5	22.0	22.2	21.5	22.2	22.0	22.4	22.9	23.4	23.8	25.1	24.1	25.5	24.7	25.0	25.4	27.1	26.7	27.4	28.1	28.7	28.7	-1.7%	
Total Steam Coal Exports																											
Australia	81.1	82.7	82.2	81.4	83.9	86.0	90.7	94.7	95.2	99.8	104.4	107.9	110.6	113.1	113.8	114.5	115.3	116.1	121.2	123.0	124.8	126.5	128.3	130.0	130.0	2.1%	
United States	31.4	31.3	32.1	33.3	34.9	37.1	36.9	37.2	37.5	37.8	38.1	38.5	38.8	39.1	39.5	40.0	40.5	41.0	41.5	42.1	42.6	43.1	43.7	44.4	44.4	1.5%	
South Africa	63.3	61.5	63.3	65.1	65.0	65.0	65.5	72.3	73.0	73.8	74.5	75.2	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	76.0	0.8%	
Former U.S.S.R.	11.5	15.7	15.0	14.3	14.1	13.9	13.7	13.4	13.2	13.0	12.8	12.6	12.3	12.1	12.0	11.9	11.8	11.7	11.6	11.5	11.4	11.2	11.1	11.0	11.0	-0.2%	
Poland	17.9	11.7	11.4	11.0	10.5	9.9	9.4	8.8	8.3	7.8	7.4	6.9	6.5	6.1	6.0	5.9	5.9	5.8	5.7	5.7	5.6	5.6	5.6	5.5	5.5	-5.0%	
Canada	5.5	6.5	6.6	6.7	6.8	6.9	7.1	7.2	4.8	4.4	4.0	4.7	6.2	7.8	7.8	7.8	7.8	7.8	3.5	3.6	3.6	3.6	3.6	3.7	3.7	-1.7%	
China	28.9	30.8	31.4	32.1	32.6	33.2	33.7	34.3	34.8	35.3	35.7	36.2	36.6	37.0	37.5	37.9	38.4	38.8	39.2	39.9	40.6	41.2	41.9	42.6	42.6	1.7%	
South America	30.8	36.5	37.8	39.1	40.1	41.0	41.9	42.8	43.8	44.6	45.4	46.2	47.0	47.8	49.0	50.2	51.3	52.5	53.7	54.5	55.2	56.0	56.8	57.5	57.5	2.8%	
Indonesia 4/	48.8	47.1	48.6	50.2	51.5	52.7	54.0	55.2	56.5	57.1	57.6	58.2	58.7	59.3	60.3	61.3	62.3	63.3	64.3	65.3	66.3	67.3	68.4	69.4	69.4	1.5%	
Total	319.1	323.7	328.4	333.3	339.5	345.8	352.3	359.3	366.4	372.8	379.2	385.6	392.0	398.4	401.8	405.5	409.2	412.9	416.7	421.4	426.0	430.6	435.3	440.0	440.0	1.4%	

Table 91. World Steam Coal Flows By Importing Regions and Exporting Countries Notes

Note: Totals may not equal sum of components due to independent rounding.

1/ Import Regions: Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom; Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand; America: Argentina, Brazil, Canada, Chile, Mexico, United States.

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and North Africa.

4/ In 1997, steam coal exports from Indonesia include an additional 6.8 million short tons of exports from other countries not included in the forecast period.

5/ In 1997, coal exports to America includes a balancing item term used by the International Energy Agency to reconcile discrepancies between reported exports and imports. For 1997, the balancing item for steam coal amounted to 17.1 million short tons. The negative quantities are attributable to the balancing item.

Sources: 1997 data: International Energy Agency, Coal Information 1997, (Paris, France, July 1997); Financial Times Energy Press, International Coal Report, Coal Year 1998 (London, England, May 1998); and Energy Information Administration, Quarterly Coal Report, October-December 1997, DOE/EIA-0121(97/4Q) (Washington, DC, May 1998). Projections: AEO99 National Energy Modeling System run AEO99B.D100198A.

Table 92. World Metallurgical Coal Flows By Importing and Exporting Countries 1,2/ (Million Short Tons)																								1997- 2020	
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
Metallurgical Coal Exports to Europe 3/																									
Australia	15.8	18.9	19.2	20.0	20.5	21.1	20.9	21.2	21.5	20.5	20.8	21.3	21.8	22.3	22.6	23.0	23.3	23.6	24.0	23.4	22.9	22.3	21.7	21.2	1.3%
United States	31.3	26.9	27.1	27.2	27.2	27.2	27.1	27.1	27.1	27.0	26.8	26.7	26.6	26.5	26.4	26.3	26.1	26.0	25.9	25.8	25.6	25.4	25.3	25.1	-1.0%
South Africa	0.3	1.4	1.5	1.5	1.5	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.2	1.2	1.0	0.6	0.2	0.0	0.0	0.0	0.2	0.6	0.8	0.5	2.5%
Former U.S.S.R.	4.0	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	-8.3%
Poland	3.4	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.4	3.4	0.0%
Canada	6.2	6.3	6.3	5.6	5.1	4.5	4.7	4.5	4.2	5.2	4.8	4.3	3.7	3.1	2.8	2.8	2.8	2.5	2.0	2.4	2.7	2.6	2.8	3.4	-2.5%
China	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	63.9	58.3	58.6	58.9	58.9	58.8	58.7	58.7	58.6	58.3	58.1	57.8	57.5	57.3	57.0	56.8	56.5	56.3	56.0	55.7	55.3	55.0	54.6	54.2	-0.7%
Metallurgical Coal Exports to Asia 5/																									
Australia	67.4	71.0	71.4	70.8	70.8	70.7	70.7	70.6	70.6	71.1	71.6	72.1	72.6	73.1	73.1	73.1	73.1	73.1	73.2	73.1	73.1	73.1	73.1	73.0	0.4%
United States	7.8	9.2	8.4	8.0	7.6	7.2	7.5	7.4	7.2	8.4	8.4	8.2	8.1	7.9	7.6	7.4	7.1	6.8	6.6	6.4	6.2	6.0	5.8	5.6	-1.5%
South Africa	3.0	4.2	4.1	4.0	4.0	4.0	4.0	4.0	4.0	3.9	3.9	3.9	3.9	3.9	4.0	4.4	4.8	4.9	4.9	4.8	4.6	4.2	3.9	4.1	1.4%
Former U.S.S.R.	3.2	2.3	2.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	-1.6%
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	23.4	24.1	23.7	23.8	24.3	24.8	24.6	24.8	25.1	24.1	24.5	25.0	25.6	26.2	26.4	26.4	26.4	26.6	27.0	27.3	27.8	28.4	29.0	29.0	0.9%
China	6.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	-3.1%
South America	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	115.9	114.2	113.2	112.1	112.2	112.3	112.3	112.3	112.4	113.1	113.9	114.8	115.7	116.6	116.7	116.8	116.9	117.0	117.1	117.1	117.2	117.2	117.2	117.2	0.0%
Metallurgical Coal Exports to America 6/																									
Australia	9.1	5.7	5.7	5.8	5.8	5.9	5.9	5.9	6.0	6.1	6.2	6.4	6.5	6.6	6.8	7.0	7.1	7.3	7.5	7.6	7.8	8.0	8.1	8.3	-0.4%
United States	13.0	14.7	14.9	15.1	15.2	15.2	15.3	15.3	15.3	15.5	15.6	15.8	15.9	16.1	16.4	16.5	16.8	17.0	17.3	17.5	17.7	18.0	18.2	18.4	1.5%
South Africa	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Former U.S.S.R.	-0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Poland	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	5.2	2.4	2.9	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	-1.8%
China	-2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	30.6	22.7	23.5	24.3	24.4	24.5	24.6	24.6	24.7	25.0	25.3	25.6	25.9	26.1	26.6	26.9	27.3	27.7	28.2	28.6	29.0	29.4	29.8	30.2	-0.1%
Total Metallurgical Coal Exports																									
Australia	92.3	95.7	96.3	96.6	97.1	97.7	97.5	97.8	98.1	97.7	98.6	99.7	100.8	102.0	102.5	103.0	103.6	104.1	104.6	104.2	103.8	103.4	102.9	102.5	0.5%
United States	52.2	50.8	50.4	50.3	49.9	49.6	49.9	49.7	49.6	50.8	50.9	50.7	50.6	50.5	50.4	50.1	50.0	49.9	49.7	49.6	49.5	49.4	49.2	49.1	-0.3%
South Africa	6.3	5.6	5.6	5.5	5.5	5.4	5.4	5.3	5.3	5.2	5.2	5.2	5.1	5.1	5.0	5.0	4.9	4.9	4.9	4.8	4.8	4.7	4.7	4.6	-1.3%
Former U.S.S.R.	6.3	3.1	3.1	3.0	3.0	3.0	2.9	2.9	2.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	-3.5%
Poland	5.2	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.7	3.7	3.7	3.7	3.7	3.6	3.6	3.6	3.6	3.5	3.5	3.5	3.5	3.5	3.4	3.4	-1.8%
Canada	34.7	32.8	32.8	32.8	32.8	32.8	32.8	32.8	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.7	32.6	32.6	32.5	33.2	33.8	34.5	35.2	35.8	0.1%
China	4.8	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	-1.6%
South America	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	210.4	195.2	195.3	195.4	195.5	195.6	195.6	195.6	195.7	196.4	197.3	198.2	199.1	200.0	200.3	200.5	200.8	201.0	201.3	201.4	201.4	201.5	201.5	201.6	-0.2%

Table 92. World Metallurgical Coal Flows By Importing and Exporting Countries Notes

Note: Totals may not equal sum of components due to independent rounding.

1/ Import Regions: Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom; Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand; America: Argentina, Brazil, Canada, Chile, Mexico, United States.

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and North Africa.

4/ In 1997, metallurgical coal exports from Indonesia include an additional 3.6 million short tons of exports from other countries not included in the forecast period.

5/ For 1997, includes 9.6 million short tons of coal for pulverized coal injection at blast furnaces shipped to Japanese steelmakers.

6/ In 1997, coal exports to America includes a balancing item term used by the International Energy Agency to reconcile discrepancies between reported exports and imports. For 1997, the balancing item for metallurgical coal amounted to 5.8 million short tons. The negative quantities are attributable to the balancing item.

Sources: 1997 data: International Energy Agency, Coal Information 1997, (Paris, France, July 1998); Financial Times Energy Press, International Coal Report, Coal Year 1998 (London, England, May 1998); and Energy Information Administration, Quarterly Coal Report, October-December 1997, DOE/EIA-0121(97/4Q) (Washington, DC, May 1998). Projections: AEO99 National Energy Modeling System run AEO99B.D100198A.

Table 93. World Total Coal Flows By Importing and Exporting Countries 1,2/ (Million Short Tons)																									
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	1997-2020
Total Coal Exports to Europe 3/																									
Australia	24.4	23.5	23.7	24.6	25.2	25.8	25.7	26.1	26.4	25.5	25.8	26.3	26.9	27.4	27.8	28.2	28.6	29.0	29.3	28.9	28.4	27.9	27.4	26.9	0.4%
United States	44.5	40.7	40.8	42.4	43.0	43.2	43.8	42.9	43.3	43.2	43.1	44.1	44.0	43.5	43.7	42.8	44.0	44.2	45.4	44.4	44.5	45.5	44.5	45.5	0.1%
South Africa	38.6	47.0	47.5	49.4	50.6	52.1	51.8	52.0	58.2	57.9	57.6	57.3	56.9	56.5	55.9	54.2	52.1	50.2	47.6	47.0	46.5	46.3	45.9	45.0	0.7%
Former U.S.S.R.	9.4	9.9	9.8	9.6	9.5	9.4	9.2	9.1	8.9	8.8	8.7	8.5	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	-0.6%
Poland	20.6	15.6	15.2	14.9	14.3	13.7	13.2	12.6	12.0	11.6	11.1	10.6	10.2	9.7	9.6	9.5	9.4	9.3	9.3	9.2	9.1	9.1	9.0	8.9	-3.6%
Canada	7.6	11.4	11.3	10.7	10.2	9.7	10.0	9.7	7.4	8.3	8.0	7.5	6.9	6.4	6.1	6.1	6.1	5.9	5.5	5.9	6.1	6.1	6.3	7.0	-0.4%
China	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	27.8	27.3	28.4	29.6	30.3	31.0	31.7	32.4	33.1	33.6	34.1	34.6	35.1	35.7	36.4	37.0	38.1	39.1	39.9	40.3	40.7	41.1	41.5	41.9	1.8%
Indonesia 4/	8.6	10.4	9.0	6.2	5.8	5.0	6.8	8.1	5.6	5.4	5.3	4.0	4.0	4.2	4.3	4.4	4.5	4.6	4.7	4.8	5.0	5.1	5.2	5.4	-2.0%
Total	182.9	185.7	185.8	187.4	189.0	190.0	192.2	192.9	194.9	194.3	193.7	193.0	192.4	191.6	192.2	190.6	191.1	190.6	189.9	188.6	188.5	189.2	188.0	188.8	0.1%
Total Coal Exports to Asia																									
Australia	138.6	148.2	148.0	146.6	149.1	151.1	155.6	159.6	159.9	164.9	170.0	173.9	177.1	180.0	181.0	182.1	182.9	183.6	187.9	189.6	191.3	193.0	194.6	196.2	1.5%
United States	13.9	14.9	15.7	16.1	17.4	19.1	19.5	20.1	20.2	21.5	21.8	20.7	20.7	20.4	21.1	21.0	20.8	20.6	20.4	20.3	21.1	20.1	21.0	20.1	1.6%
South Africa	20.6	18.3	19.4	19.3	18.0	16.4	16.6	16.9	17.5	18.4	19.4	20.3	21.4	22.5	23.0	24.6	26.7	28.5	31.0	31.5	31.9	32.1	32.4	33.3	2.1%
Former U.S.S.R.	5.6	8.9	8.3	7.7	7.6	7.5	7.4	7.3	7.2	7.1	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1	6.0	5.8	5.7	5.6	5.5	-0.1%
Poland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	27.8	25.4	25.1	25.3	25.9	26.5	26.3	26.7	26.6	25.2	25.2	26.4	28.4	30.7	30.9	30.8	30.8	31.0	27.0	27.3	27.8	28.4	29.0	29.0	0.2%
China	33.2	34.1	34.7	35.4	35.9	36.5	37.0	37.6	38.1	38.6	39.0	39.5	39.9	40.3	40.8	41.2	41.7	42.1	42.6	43.2	43.9	44.5	45.2	45.9	1.4%
South America	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Indonesia 4/	33.7	36.6	39.7	44.0	45.6	47.7	47.1	47.2	50.9	51.6	52.3	54.1	54.8	55.1	56.0	56.9	57.8	58.7	59.6	60.5	61.4	62.2	63.1	64.0	2.8%
Total	273.7	286.5	290.9	294.5	299.6	304.7	309.6	315.2	320.4	327.4	334.6	341.8	349.0	355.6	359.2	363.0	366.8	370.7	374.6	378.4	383.2	386.1	391.0	393.9	1.6%
Total Coal Exports to America 5/																									
Australia	10.5	6.6	6.7	6.7	6.8	6.8	6.9	6.9	6.9	7.1	7.2	7.4	7.5	7.6	7.5	7.2	7.4	7.6	8.6	8.7	8.9	9.1	9.2	9.4	-0.5%
United States	25.2	26.5	26.1	25.1	24.4	24.4	23.5	24.0	23.6	23.8	24.1	24.4	24.7	25.8	25.0	26.4	25.7	26.1	25.5	27.0	26.4	26.9	27.4	27.9	0.4%
South Africa	10.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	2.1	2.1	2.1	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	-6.3%
Former U.S.S.R.	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Poland	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Canada	4.9	2.6	3.0	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	-1.4%
China	-1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
South America	5.0	9.2	9.4	9.6	9.8	10.0	10.3	10.5	10.7	11.0	11.3	11.6	11.9	12.2	12.6	13.1	13.3	13.4	13.8	14.2	14.6	14.9	15.3	15.7	5.1%
Indonesia 4/	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	N/A
Total	73.0	46.8	47.1	46.8	46.4	46.7	46.1	46.8	46.8	47.4	48.1	48.9	49.6	51.2	50.7	52.4	52.0	52.8	53.6	55.7	55.7	56.8	57.8	58.9	-0.9%
Total Coal Exports																									
Australia	173.4	178.3	178.4	178.0	181.1	183.7	188.2	192.6	193.3	197.5	203.0	207.6	211.4	215.1	216.3	217.6	218.9	220.1	225.8	227.2	228.5	229.9	231.2	232.5	1.3%
United States	83.5	82.1	82.5	83.6	84.9	86.7	86.8	87.0	87.1	88.6	89.0	89.2	89.4	89.6	89.9	90.1	90.5	90.9	91.3	91.7	92.1	92.5	92.9	93.5	0.5%
South Africa	69.6	67.1	68.9	70.6	70.5	70.4	70.4	70.8	77.6	78.3	79.0	79.7	80.3	81.0	81.0	80.9	80.9	80.8	80.8	80.8	80.7	80.7	80.6	80.6	0.6%
Former U.S.S.R.	17.8	18.8	18.1	17.4	17.1	16.9	16.6	16.3	16.1	15.9	15.6	15.4	15.1	14.9	14.8	14.7	14.6	14.4	14.3	14.2	14.1	14.0	13.9	13.8	-1.1%
Poland	23.1	15.6	15.2	14.9	14.3	13.7	13.2	12.6	12.0	11.6	11.1	10.6	10.2	9.7	9.6	9.5	9.4	9.3	9.3	9.2	9.1	9.1	9.0	8.9	-4.0%
Canada	40.2	39.3	39.4	39.6	39.6	39.7	39.8	39.9	37.5	37.1	36.7	37.4	38.9	40.6	40.5	40.5	40.4	40.4	36.0	36.7	37.4	38.1	38.8	39.5	-0.1%
China	33.7	34.1	34.7	35.4	35.9	36.5	37.0	37.6	38.1	38.6	39.0	39.5	39.9	40.3	40.8	41.2	41.7	42.1	42.6	43.2	43.9	44.5	45.2	45.9	1.3%
South America	33.0	36.5	37.8	39.1	40.1	41.0	41.9	42.8	43.8	44.6	45.4	46.2	47.0	47.8	49.0	50.2	51.3	52.5	53.7	54.5	55.2	56.0	56.8	57.5	2.4%
Indonesia 4/	55.3	47.1	48.6	50.2	51.5	52.7	54.0	55.2	56.5	57.1	57.6	58.2	58.7	59.3	60.3	61.3	62.3	63.3	64.3	65.3	66.3	67.3	68.4	69.4	1.0%
Total	529.6	518.9	523.8	528.7	535.0	541.4	547.9	554.9	562.0	569.2	576.4	583.8	591.1	598.4	602.1	606.0	610.0	614.0	618.1	622.7	627.4	632.1	636.8	641.5	0.8%

Table 93. World Total Coal Flows By Importing and Exporting Countries Notes

Note: Totals may not equal sum of components due to independent rounding.

1/ Import Regions: Europe: Algeria, Austria, Belgium, Bulgaria, Croatia, Denmark, Egypt, Finland, France, Germany, Greece, Ireland, Israel, Italy, Luxembourg, Malta, Morocco, Netherlands, Norway, Portugal, Romania, Spain, Sweden, Tunisia, Turkey, United Kingdom; Asia: Bangladesh, China, Hong Kong, India, Iran, Japan, Malaysia, North Korea, Pakistan, Philippines, South Korea, Sri Lanka, Taiwan, Thailand; America: Argentina, Brazil, Canada, Chile, Mexico, United States.

2/ Excludes non-seaborne shipments of coal to Europe and Asia.

3/ Coal exports to Europe include exports to the Middle East and North Africa.

4/ In 1997, exports from Indonesia include an additional 10.4 million short tons of exports from other countries not included in the forecast period.

5/ In 1997, coal exports to America includes a balancing item term used by the International Energy Agency to reconcile discrepancies between reported exports and imports. For 1997, the balancing item amounted to 22.9 million short tons. The negative quantities are attributable to the balancing item.

Sources: 1997 data: International Energy Agency, Coal Information 1997, (Paris, France, July 1998); Financial Times Energy Press, International Coal Report, Coal Year 1998 (London, England, May 1998); and Energy Information Administration, Quarterly Coal Report, October-December 1997, DOE/EIA-0121(97/4Q) (Washington, DC, May 1998). Projections: AEO99 National Energy Modeling System run AEO99B.D100198A.

Table 94. Indicators of Macroeconomic Activity																									1997-
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Real Output, National (billion 1987 dollars)																									
Total Industrial	3982.2	4104.2	4101.3	4153.5	4244.1	4328.8	4415.3	4510.1	4639.1	4765.8	4887.2	4998.8	5123.1	5237.0	5308.8	5393.5	5472.6	5577.6	5693.4	5758.8	5868.5	5967.5	6054.7	6131.0	1.9%
Total Manufacturing	3170.0	3275.6	3265.0	3304.7	3383.6	3453.3	3525.3	3605.9	3716.8	3824.2	3926.0	4020.3	4127.8	4223.8	4281.9	4354.1	4422.0	4512.7	4612.6	4664.2	4762.6	4849.0	4922.3	4986.3	2.0%
Coal Mining	30.5	31.2	31.9	32.3	32.7	33.0	33.2	33.2	33.2	33.5	33.7	34.0	34.2	34.2	34.7	34.8	35.1	35.4	35.8	36.0	36.4	36.7	37.0	37.3	0.9%
Oil and Gas Extraction	79.5	78.9	79.4	79.4	80.3	80.7	81.7	82.1	83.3	84.2	85.2	85.9	86.8	87.8	88.7	90.0	90.8	92.1	93.1	93.7	94.3	94.8	94.8	94.7	0.8%
Refining	139.0	141.4	143.5	142.7	143.0	145.1	145.6	146.4	147.5	149.3	151.7	152.1	154.5	156.5	157.6	158.5	159.4	160.5	161.1	161.4	162.3	162.6	162.9	163.2	0.7%
Paper	125.2	127.3	128.2	130.7	132.9	134.6	135.9	137.4	139.6	141.9	144.0	145.7	147.8	149.5	150.9	152.4	153.6	155.1	156.8	158.0	159.2	160.3	161.3	162.2	1.1%
Chemicals	278.8	280.9	282.7	289.2	296.4	302.0	305.0	309.7	316.7	323.8	330.7	337.2	344.0	350.4	355.6	361.5	366.7	372.8	379.1	384.1	389.2	394.6	399.0	403.6	1.6%
Stone, Clay, and Glass	70.0	69.6	68.6	68.8	69.3	70.6	71.3	71.9	72.8	73.8	74.8	75.6	76.3	77.2	77.6	78.0	78.2	78.9	79.6	80.1	80.3	80.7	81.3	81.5	0.7%
Primary Metals	149.5	150.7	145.8	148.4	151.4	153.3	154.8	156.2	158.4	160.5	161.7	162.0	162.7	163.0	163.4	163.8	164.4	165.7	167.1	166.9	167.8	168.3	168.3	168.0	0.5%
Basic Steel	69.4	70.8	68.8	70.2	72.0	73.1	74.4	75.1	76.4	77.6	78.5	78.7	78.6	78.4	78.7	79.0	79.6	80.3	81.2	81.3	81.7	81.6	81.6	81.4	0.7%
Primary Aluminum	28.7	28.2	27.4	27.9	28.4	28.8	29.0	29.1	29.3	29.5	29.6	29.5	29.5	29.4	29.6	29.5	29.4	29.4	29.4	29.2	29.3	29.3	29.1	28.8	0.0%
Fabricated Metals	179.7	183.6	182.2	183.9	186.3	189.0	191.2	193.3	197.0	200.7	204.2	207.2	210.1	213.1	214.4	216.0	217.3	220.0	223.1	224.6	227.0	229.1	230.9	232.8	1.1%
Industrial Machinery	316.0	334.4	335.0	339.2	353.3	367.2	378.8	391.3	407.6	422.2	436.9	451.2	465.6	477.0	484.9	495.4	507.1	520.1	536.4	547.5	559.2	570.7	584.0	595.4	2.8%
Electrical Machinery	352.3	374.0	375.8	380.8	404.7	425.0	447.7	477.8	515.3	557.3	590.8	621.8	664.9	703.5	724.5	752.3	777.1	811.9	849.0	863.6	919.0	962.1	992.6	1021.1	4.7%
Transportation Equipment	408.6	429.7	421.3	428.1	433.6	438.8	449.7	458.9	471.6	477.7	486.9	498.4	507.3	516.5	519.1	523.4	528.6	536.4	545.7	549.5	555.5	561.7	567.9	571.8	1.5%
Real Disposable Income by Census Division (billion 1992 dollars)																									
New England	311	320	328	335	341	347	354	360	368	376	384	392	400	409	416	424	431	439	447	455	463	471	479	487	2.0%
Middle Atlantic	847	866	880	897	910	923	941	957	977	996	1017	1037	1057	1080	1097	1115	1134	1153	1172	1190	1210	1229	1247	1265	1.8%
East North Central	846	869	884	900	913	926	944	959	979	998	1018	1038	1057	1079	1096	1113	1130	1149	1168	1186	1205	1223	1241	1258	1.7%
West North Central	339	348	355	364	371	378	387	394	403	412	422	431	441	451	460	468	476	484	493	501	511	519	528	536	2.0%
South Atlantic	905	936	962	992	1017	1043	1075	1104	1138	1171	1207	1242	1278	1318	1353	1388	1425	1462	1502	1539	1581	1622	1663	1704	2.8%
East South Central	262	269	275	281	286	291	298	304	311	318	326	333	341	349	356	363	371	379	387	394	403	411	419	427	2.1%
West South Central	511	528	542	558	571	585	602	618	637	655	675	694	714	736	755	775	795	815	836	856	878	900	921	943	2.7%
Mountain	286	301	323	340	356	369	383	396	409	423	438	453	469	488	505	522	540	559	578	598	619	640	661	682	3.8%
Pacific	877	906	930	956	979	1001	1030	1057	1089	1120	1154	1188	1222	1259	1290	1322	1354	1388	1424	1457	1494	1530	1567	1603	2.7%
United States	5183	5345	5480	5622	5744	5864	6014	6149	6311	6469	6640	6809	6979	7170	7328	7489	7656	7828	8006	8176	8364	8545	8725	8905	2.4%
Non-Agricultural Employment by Census Division (millions)																									
New England	6.5	6.7	6.7	6.8	6.8	6.8	6.9	6.9	7.0	7.1	7.2	7.2	7.3	7.4	7.4	7.4	7.5	7.5	7.5	7.5	7.6	7.6	7.6	7.6	0.7%
Middle Atlantic	17.0	17.2	17.2	17.3	17.4	17.4	17.5	17.7	17.8	18.0	18.1	18.3	18.4	18.6	18.7	18.7	18.7	18.8	18.8	18.8	18.8	18.9	18.9	18.9	0.5%
East North Central	20.9	21.3	21.3	21.4	21.4	21.5	21.6	21.8	22.0	22.2	22.4	22.5	22.7	22.8	22.9	23.0	23.0	23.0	23.1	23.1	23.1	23.1	23.1	23.1	0.4%
West North Central	9.2	9.4	9.5	9.5	9.6	9.7	9.8	9.8	10.0	10.1	10.2	10.3	10.4	10.5	10.5	10.6	10.6	10.6	10.7	10.7	10.7	10.7	10.8	10.8	0.7%
South Atlantic	22.4	23.0	23.3	23.6	23.9	24.2	24.6	25.0	25.4	25.9	26.3	26.8	27.2	27.6	28.0	28.3	28.6	28.9	29.2	29.5	29.8	30.0	30.3	30.6	1.4%
East South Central	7.2	7.3	7.3	7.4	7.4	7.4	7.5	7.5	7.6	7.7	7.8	7.8	7.9	8.0	8.0	8.0	8.1	8.1	8.2	8.2	8.2	8.2	8.2	8.3	0.6%
West South Central	12.8	13.1	13.2	13.4	13.5	13.7	13.9	14.1	14.3	14.6	14.8	15.1	15.3	15.5	15.7	15.9	16.0	16.2	16.4	16.5	16.6	16.8	16.9	17.1	1.3%
Mountain	7.6	7.9	8.6	8.9	9.2	9.4	9.6	9.8	10.0	10.3	10.5	10.8	11.0	11.3	11.5	11.8	12.0	12.3	12.5	12.8	13.1	13.3	13.6	13.8	2.7%
Pacific	17.8	18.3	18.5	18.7	18.9	19.2	19.4	19.7	20.1	20.5	20.8	21.2	21.5	21.8	22.1	22.3	22.5	22.7	23.0	23.2	23.4	23.6	23.8	24.0	1.3%
United States	121.4	124.1	125.6	126.9	128.0	129.4	130.8	132.3	134.2	136.2	138.1	139.9	141.7	143.5	144.9	146.0	147.0	148.1	149.4	150.4	151.3	152.2	153.1	154.0	1.0%

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1997: Data Resources Incorporate (DRI), DRI Trend0898. Projections: Energy Information Administration, AEO99 Modeling System run AEO99B.D100198A.

Table 95. Imported Petroleum by Source (Million Barrels per Day)																								1997-	
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2020
Crude Oil																									
Canada	1.20	1.18	1.17	1.24	1.24	1.25	1.26	1.26	1.29	1.31	1.34	1.37	1.42	1.46	1.47	1.48	1.50	1.51	1.51	1.52	1.53	1.54	1.55	1.55	1.1%
Mexico	1.36	1.33	1.33	1.38	1.38	1.40	1.41	1.41	1.42	1.44	1.47	1.49	1.53	1.58	1.58	1.58	1.57	1.56	1.55	1.53	1.52	1.51	1.51	1.50	0.4%
North Sea	0.46	0.59	0.59	0.64	0.65	0.67	0.68	0.68	0.70	0.72	0.73	0.73	0.73	0.73	0.71	0.69	0.67	0.65	0.63	0.60	0.58	0.56	0.54	0.53	0.6%
OPEC	3.78	3.89	3.92	4.17	4.26	4.47	4.53	4.61	4.71	4.81	5.00	5.07	5.23	5.43	5.57	5.70	5.85	6.00	6.15	6.31	6.46	6.59	6.71	6.89	2.6%
Latin America	1.39	1.45	1.47	1.57	1.61	1.65	1.67	1.71	1.75	1.80	1.87	1.90	1.97	2.08	2.17	2.24	2.31	2.35	2.39	2.44	2.49	2.52	2.58	2.67	2.9%
North Africa	0.01	0.05	0.07	0.09	0.10	0.12	0.13	0.14	0.15	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	13.4%
West Africa	0.69	0.67	0.68	0.71	0.72	0.76	0.77	0.78	0.80	0.81	0.82	0.83	0.83	0.82	0.81	0.80	0.79	0.78	0.77	0.76	0.75	0.74	0.73	0.72	0.2%
Indonesia	0.05	0.06	0.07	0.09	0.10	0.11	0.11	0.11	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.09	0.08	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.8%
Persian Gulf	1.64	1.66	1.63	1.71	1.73	1.83	1.85	1.87	1.91	1.93	2.03	2.06	2.15	2.25	2.31	2.39	2.49	2.62	2.75	2.87	2.98	3.09	3.16	3.26	3.0%
Other Middle East	0.01	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.02	3.1%
Other Latin America	0.56	0.54	0.56	0.59	0.59	0.62	0.63	0.65	0.67	0.68	0.68	0.67	0.67	0.67	0.66	0.65	0.63	0.62	0.61	0.60	0.59	0.58	0.57	0.56	0.0%
Other Africa	0.76	0.72	0.73	0.77	0.78	0.81	0.83	0.84	0.86	0.87	0.89	0.91	0.92	0.92	0.89	0.89	0.87	0.86	0.85	0.84	0.83	0.82	0.81	0.80	0.2%
Other Asia	0.10	0.16	0.16	0.18	0.19	0.20	0.21	0.22	0.22	0.22	0.21	0.20	0.20	0.19	0.18	0.17	0.16	0.16	0.16	0.15	0.15	0.15	0.15	0.14	1.5%
Light Refined Products 1/																									
Canada	0.29	0.22	0.24	0.37	0.40	0.40	0.42	0.44	0.45	0.43	0.43	0.43	0.39	0.39	0.40	0.37	0.41	0.41	0.41	0.43	0.44	0.45	0.46	0.49	2.3%
Northern Europe	0.10	0.06	0.08	0.12	0.14	0.14	0.16	0.16	0.17	0.17	0.18	0.19	0.16	0.16	0.16	0.16	0.16	0.15	0.15	0.16	0.15	0.16	0.16	0.16	2.1%
Southern Europe	0.03	0.02	0.03	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.07	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.06	0.05	0.06	0.06	0.06	3.1%
OPEC	0.24	0.18	0.21	0.36	0.39	0.40	0.46	0.51	0.55	0.64	0.66	0.73	0.68	0.70	0.73	0.75	0.84	0.84	0.91	0.98	0.97	1.02	1.04	1.11	6.9%
Latin America	0.19	0.14	0.16	0.25	0.26	0.26	0.28	0.30	0.33	0.35	0.37	0.41	0.39	0.40	0.42	0.43	0.46	0.47	0.50	0.54	0.54	0.56	0.58	0.62	5.3%
North Africa	0.03	0.02	0.03	0.05	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.07	0.06	0.06	0.06	0.05	0.07	0.05	0.05	0.06	0.05	0.06	0.06	0.06	3.1%
West Africa	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Indonesia	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0%
Persian Gulf	0.02	0.02	0.02	0.06	0.08	0.09	0.13	0.15	0.16	0.22	0.22	0.25	0.23	0.24	0.25	0.27	0.31	0.32	0.36	0.38	0.38	0.40	0.40	0.43	14.3%
Caribbean Basin	0.37	0.30	0.33	0.62	0.64	0.66	0.70	0.72	0.74	0.78	0.78	0.90	0.84	0.89	0.91	1.04	0.97	1.03	1.13	1.18	1.18	1.26	1.35	1.33	5.7%
Asian Exporters	0.01	0.01	0.01	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	6.2%
Other	0.02	0.02	0.02	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	3.1%
Heavy Refined Products 2/																									
Canada	0.07	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.05	0.05	0.04	0.04	0.05	0.05	0.05	0.04	0.05	0.05	0.04	0.05	0.05	0.05	0.05	0.05	-1.5%
Northern Europe	0.04	0.02	0.02	0.02	0.03	0.02	0.02	0.03	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.2%
Southern Europe	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
OPEC	0.44	0.32	0.27	0.31	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.8%
Latin America	0.17	0.11	0.09	0.12	0.13	0.14	0.14	0.15	0.16	0.16	0.15	0.17	0.23	0.20	0.20	0.20	0.18	0.18	0.18	0.17	0.19	0.19	0.19	0.22	1.1%
North Africa	0.16	0.12	0.09	0.10	0.11	0.09	0.08	0.07	0.05	0.04	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	-8.6%
West Africa	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.0%
Indonesia	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.0%
Persian Gulf	0.08	0.06	0.06	0.06	0.10	0.11	0.10	0.10	0.14	0.15	0.14	0.18	0.19	0.23	0.23	0.23	0.25	0.27	0.27	0.25	0.27	0.28	0.28	0.30	5.9%
Caribbean Basin	0.23	0.13	0.11	0.12	0.13	0.12	0.12	0.11	0.12	0.15	0.14	0.16	0.26	0.21	0.21	0.19	0.20	0.21	0.21	0.19	0.25	0.26	0.27	0.30	1.2%
Asian Exporters	0.04	0.02	0.03	0.02	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.2%
Other	0.04	0.02	0.03	0.02	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	-1.2%

1/ Includes gasoline, distillate, jet fuel, and liquified petroleum gases.

2/ Includes residual fuel oil and other refined products.

OPEC = Organization of Petroleum Exporting Countries - Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

Caribbean Basin = Bahama Islands, Columbia, Ecuador, Guatemala, Jamaica, Mexico, Netherlands Antilles, Panama, Puerto Rico, Trinidad and Tobago, and the Virgin Islands.

N/A = Not applicable.

Source: Energy Information Administration, AEO99 National Energy Modeling System run AEO99B.D100198A.