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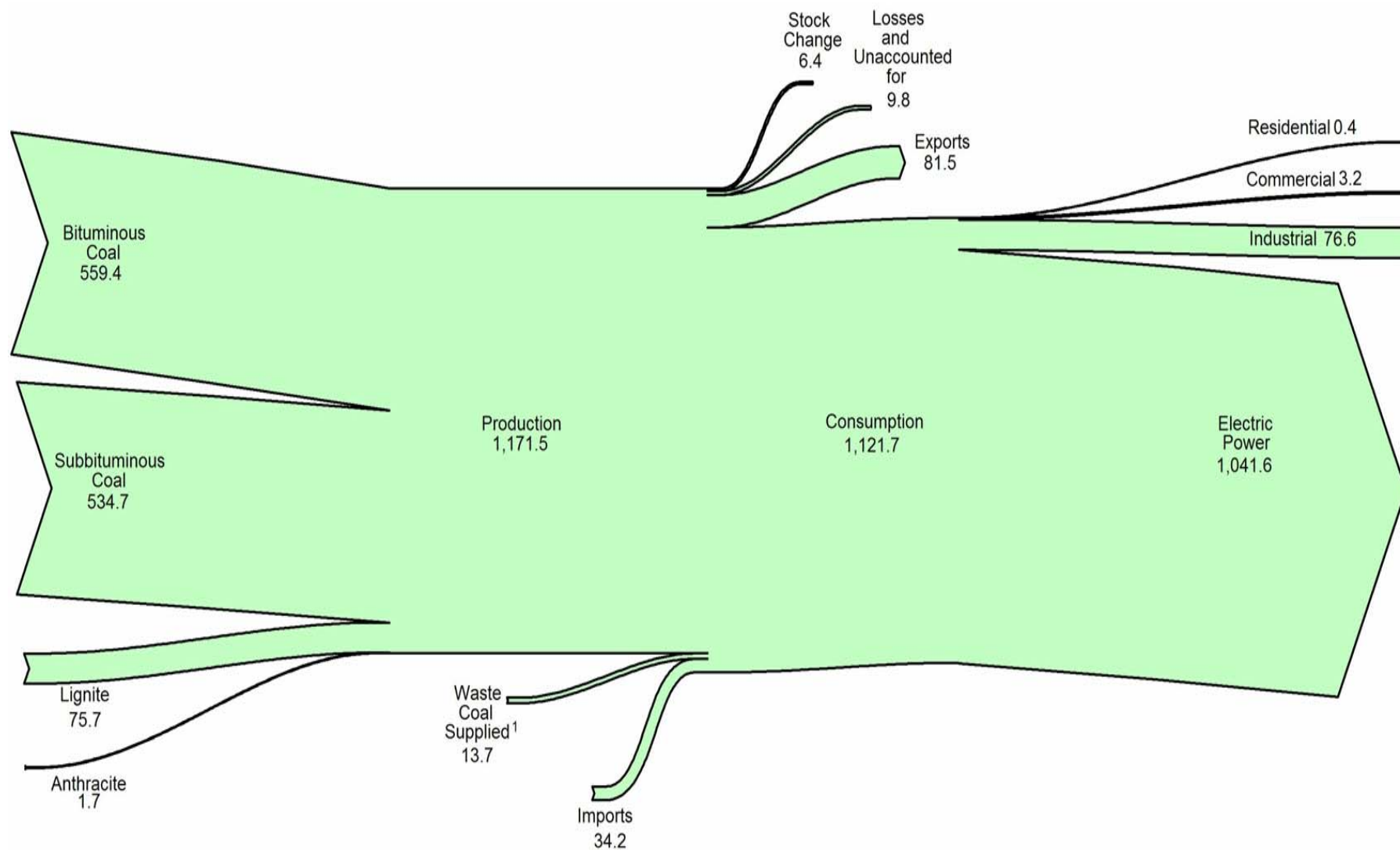
# Coal



Coal yard, Curtis Bay, Maryland. Source: U.S. Department of Energy.



**Figure 7.0 Coal Flow, 2008**  
(Million Short Tons)



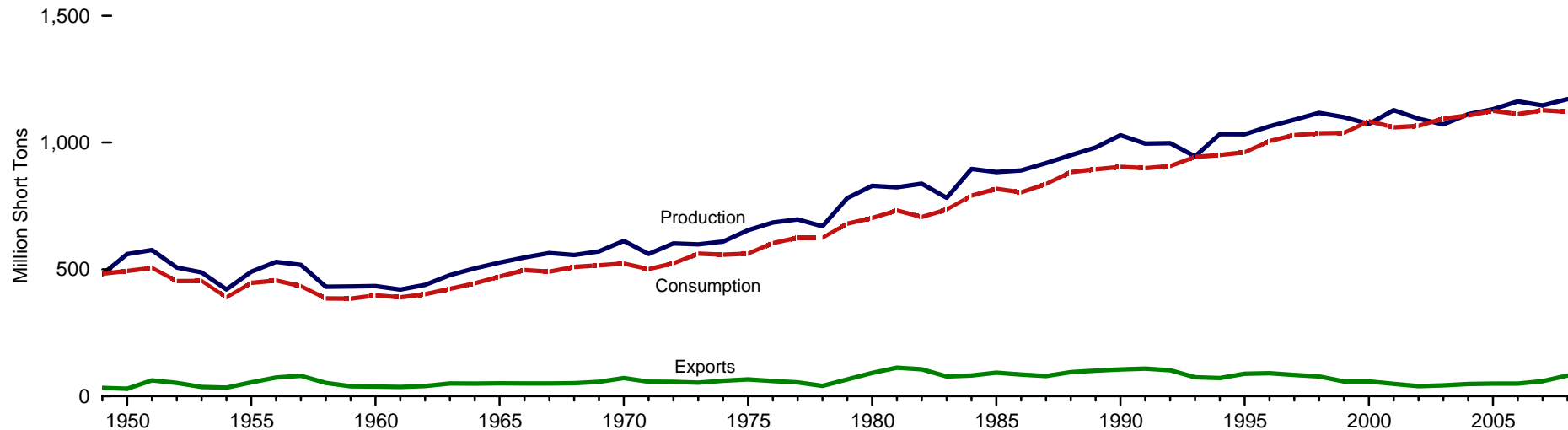
<sup>1</sup> Includes fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste that are consumed by the electric power and industrial sectors.

Notes: • Production categories are estimated; other data are preliminary. • Values are derived from source data prior to rounding for publication. • Totals may not equal sum of components due to independent rounding.

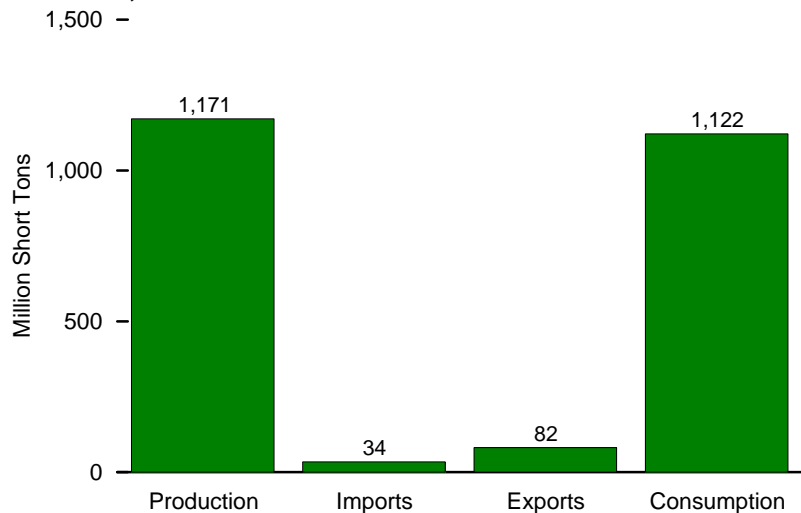
Sources: Tables 7.1, 7.2, and 7.3.

## Figure 7.1 Coal Overview

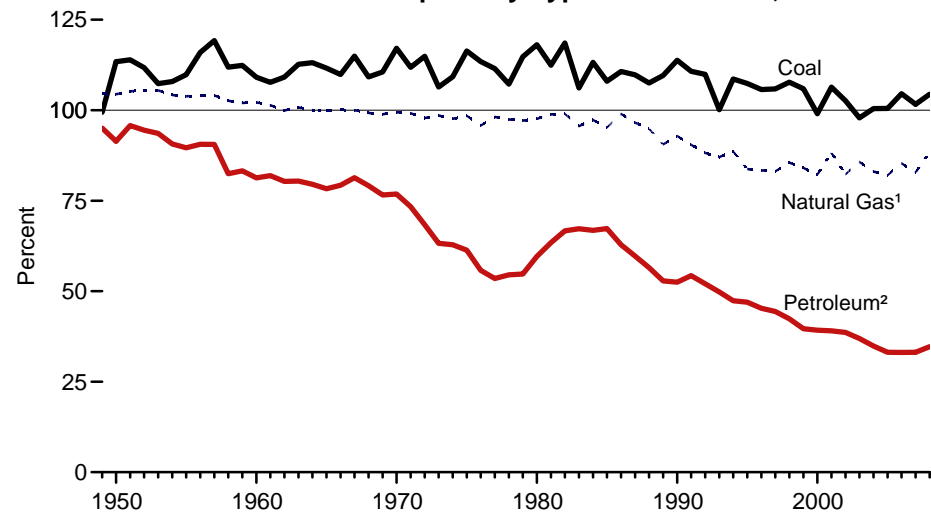
### Overview, 1949-2008



### Overview, 2008



### Production as Share of Consumption by Type of Fossil Fuel, 1949-2008



<sup>1</sup> Dry natural gas production as share of natural gas consumption.

<sup>2</sup> Crude oil and natural gas plant liquids production as share of petroleum products supplied.

Sources: Tables 5.1, 6.1, and 7.1.

**Table 7.1 Coal Overview, Selected Years, 1949-2008**  
(Million Short Tons)

Year	Production <sup>1</sup>	Waste Coal Supplied <sup>2</sup>	Trade			Stock Change <sup>4</sup>	Losses and Unaccounted for <sup>5</sup>	Consumption
			Imports	Exports	Net Imports <sup>3</sup>			
1949	480.6	NA	0.3	32.8	-32.5	( <sup>6</sup> )	<sup>6,R</sup> 35.1	483.2
1950	560.4	NA	.4	29.4	-29.0	( <sup>6</sup> )	<sup>6,R</sup> 37.3	494.1
1955	490.8	NA	.3	54.4	-54.1	( <sup>6</sup> )	<sup>6,R</sup> 10.3	447.0
1960	434.3	NA	.3	38.0	-37.7	( <sup>6</sup> )	<sup>6,R</sup> 1.5	398.1
1965	527.0	NA	.2	51.0	-50.8	( <sup>6</sup> )	<sup>6,R</sup> 4.1	472.0
1970	612.7	NA	(s)	71.7	-71.7	( <sup>6</sup> )	<sup>6,R</sup> 17.7	523.2
1971	560.9	NA	.1	57.3	-57.2	( <sup>6</sup> )	<sup>6,R</sup> 2.2	501.6
1972	602.5	NA	(s)	56.7	-56.7	( <sup>6</sup> )	<sup>6,R</sup> 21.5	524.3
1973	598.6	NA	.1	53.6	-53.5	( <sup>6</sup> )	<sup>6,R</sup> 17.5	562.6
1974	610.0	NA	2.1	60.7	-58.6	-8.9	2.0	558.4
1975	654.6	NA	.9	66.3	-65.4	32.2	-5.5	562.6
1976	684.9	NA	1.2	60.0	-58.8	8.5	13.8	603.8
1977	697.2	NA	1.6	54.3	-52.7	22.6	-3.4	625.3
1978	670.2	NA	3.0	40.7	-37.8	-4.9	12.1	625.2
1979	781.1	NA	2.1	66.0	-64.0	36.2	.4	680.5
1980	829.7	NA	1.2	91.7	-90.5	25.6	10.8	702.7
1981	823.8	NA	1.0	112.5	-111.5	-19.0	-1.4	732.6
1982	838.1	NA	.7	106.3	-105.5	22.6	3.1	706.9
1983	782.1	NA	1.3	77.8	-76.5	-29.5	-1.6	736.7
1984	895.9	NA	1.3	81.5	-80.2	28.7	-4.3	791.3
1985	883.6	NA	2.0	92.7	-90.7	-27.9	2.8	818.0
1986	890.3	NA	2.2	85.5	-83.3	4.0	-1.2	804.2
1987	918.8	NA	1.7	79.6	-77.9	6.5	-2.5	836.9
1988	950.3	NA	2.1	95.0	-92.9	-24.9	-1.3	883.6
1989	980.7	1.4	2.9	100.8	-98.0	-13.7	2.9	895.0
1990	1,029.1	3.3	2.7	105.8	-103.1	26.5	-1.7	904.5
1991	996.0	4.0	3.4	109.0	-105.6	-.9	-3.9	899.2
1992	997.5	6.3	3.8	102.5	-98.7	-3.0	.5	907.7
1993	945.4	8.1	8.2	74.5	-66.3	-51.9	-4.9	944.1
1994	1,033.5	8.2	8.9	71.4	-62.5	23.6	4.3	951.3
1995	1,033.0	8.6	9.5	88.5	-79.1	-.3	.6	962.1
1996	1,063.9	8.8	8.1	90.5	-82.4	-17.5	1.4	1,006.3
1997	1,089.9	8.1	7.5	83.5	-76.1	-11.3	3.7	1,029.5
1998	1,117.5	8.7	8.7	78.0	-69.3	24.2	-4.4	1,037.1
1999	1,100.4	8.7	9.1	58.5	-49.4	24.0	-2.9	1,038.6
2000	1,073.6	9.1	12.5	58.5	-46.0	-48.3	.9	1,084.1
2001	<sup>1</sup> 1,127.7	10.1	19.8	48.7	-28.9	41.6	7.1	1,060.1
2002	1,094.3	9.1	16.9	39.6	-22.7	10.2	4.0	1,066.4
2003	1,071.8	10.0	25.0	43.0	-18.0	-26.7	-4.4	1,094.9
2004	1,112.1	11.3	27.3	48.0	-20.7	-11.5	6.9	1,107.3
2005	1,131.5	13.4	30.5	49.9	-19.5	-9.7	9.1	1,126.0
2006	1,162.7	14.4	36.2	49.6	-13.4	42.6	8.8	1,112.3
2007	<sup>R</sup> 1,146.6	14.1	36.3	59.2	-22.8	<sup>R</sup> 5.8	<sup>R</sup> 4.1	<sup>R</sup> 1,128.0
2008 <sup>P</sup>	1,171.5	13.7	34.2	81.5	-47.3	6.4	9.8	1,121.7

<sup>1</sup> Beginning in 2001, includes a small amount of refuse recovery (coal recaptured from a refuse mine, and cleaned to reduce the concentration of noncombustible materials).

<sup>2</sup> Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."

<sup>3</sup> Net imports equal imports minus exports. Minus sign indicates exports are greater than imports.

<sup>4</sup> A negative value indicates a decrease in stocks and a positive value indicates an increase.

<sup>5</sup> "Losses and Unaccounted for" is calculated as the sum of production, imports, and waste coal supplied, minus exports, stock change, and consumption.

<sup>6</sup> Through 1973, stock change is included in "Losses and Unaccounted for."

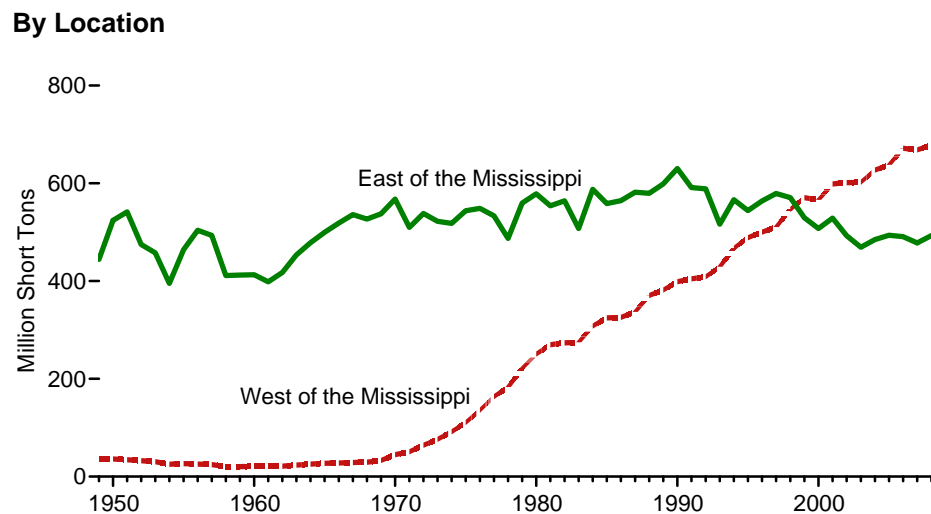
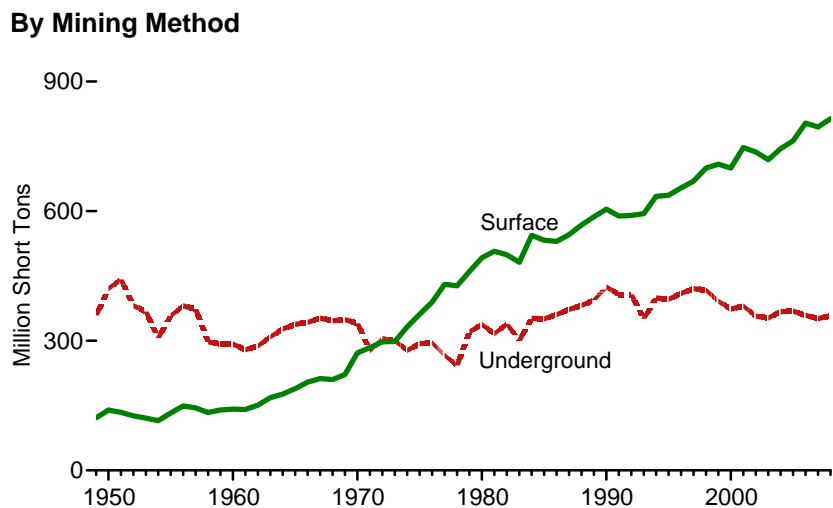
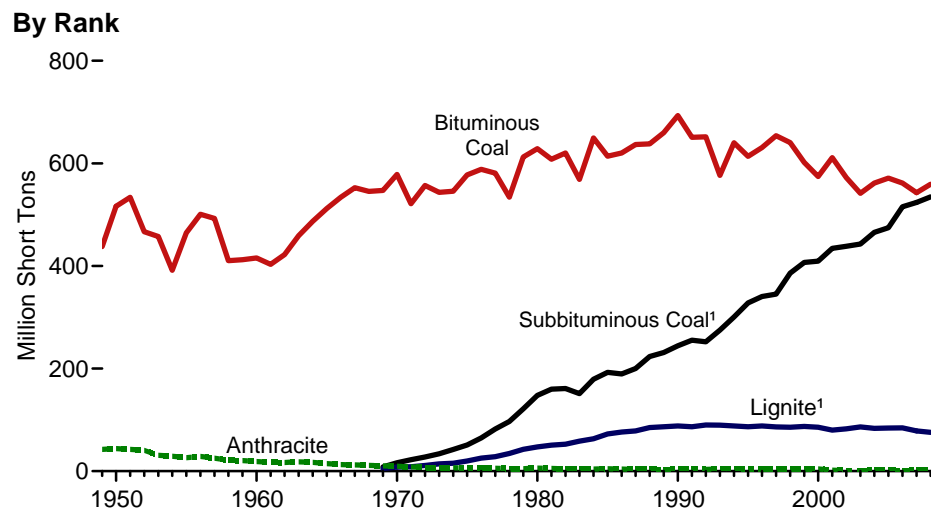
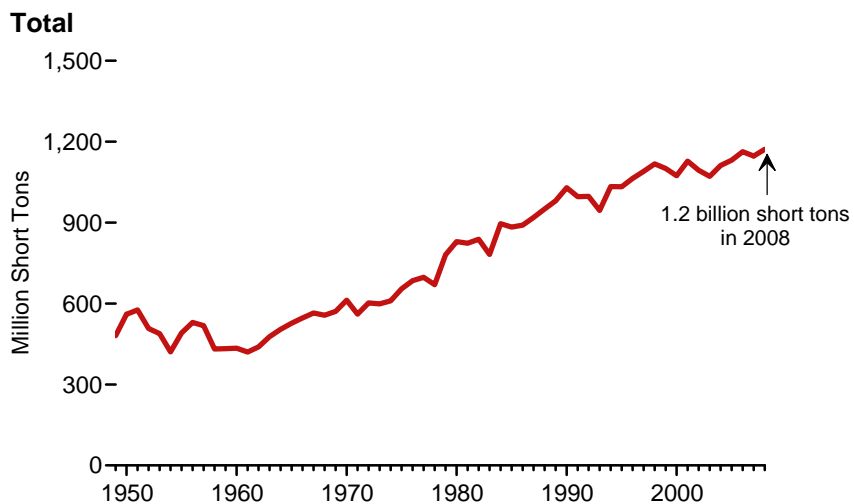
R=Revised. P=Preliminary. NA=Not available. (s)=Less than 0.05 million short tons.

Notes: • See Note 1, "Coal Consumption," at end of section. • Totals may not equal sum of components due to independent rounding.

Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/coal.html>. • For related information, see <http://www.eia.doe.gov/fuelcoal.html>.

Sources: **Production:** Table 7.2. **Waste Coal Supplied:** • 1989-1997—Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000—EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • 2001—EIA, Form EIA-906, "Power Plant Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants. • 2002 forward—EIA, *Quarterly Coal Report October-December 2008* (April 2009), Table ES-1. **Imports:** • 1949-2001—U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145." • 2002 forward—EIA, *Quarterly Coal Report October-December 2008* (April 2009), Table ES-1. **Exports:** Table 7.4. **Stock Change:** Table 7.5. **Losses and Unaccounted for:** Calculated. **Consumption:** Table 7.3.

**Figure 7.2 Coal Production, 1949-2008**



<sup>1</sup> Included in bituminous coal prior to 1969.

Source: Table 7.2.

**Table 7.2 Coal Production, Selected Years, 1949-2008**  
(Million Short Tons)

Year	Rank				Mining Method		Location		Total <sup>1</sup>
	Bituminous Coal <sup>1</sup>	Subbituminous Coal	Lignite	Anthracite <sup>1</sup>	Underground	Surface <sup>1</sup>	East of the Mississippi <sup>1</sup>	West of the Mississippi <sup>1</sup>	
1949	437.9	( <sup>2</sup> )	( <sup>2</sup> )	42.7	358.9	121.7	444.2	36.4	480.6
1950	516.3	( <sup>2</sup> )	( <sup>2</sup> )	44.1	421.0	139.4	524.4	36.0	560.4
1955	464.6	( <sup>2</sup> )	( <sup>2</sup> )	26.2	358.0	132.9	464.2	26.6	490.8
1960	415.5	( <sup>2</sup> )	( <sup>2</sup> )	18.8	292.6	141.7	413.0	21.3	434.3
1965	512.1	( <sup>2</sup> )	( <sup>2</sup> )	14.9	338.0	189.0	499.5	27.4	527.0
1970	578.5	16.4	8.0	9.7	340.5	272.1	567.8	44.9	612.7
1971	521.3	22.2	8.7	8.7	277.2	283.7	509.9	51.0	560.9
1972	556.8	27.5	11.0	7.1	305.0	297.4	538.2	64.3	602.5
1973	543.5	33.9	14.3	6.8	300.1	298.5	522.1	76.4	598.6
1974	545.7	42.2	15.5	6.6	278.0	332.1	518.1	91.9	610.0
1975	577.5	51.1	19.8	6.2	293.5	361.2	543.7	110.9	654.6
1976	588.4	64.8	25.5	6.2	295.5	389.4	548.8	136.1	684.9
1977	581.0	82.1	28.2	5.9	266.6	430.6	533.3	163.9	697.2
1978	534.0	96.8	34.4	5.0	242.8	427.4	487.2	183.0	670.2
1979	612.3	121.5	42.5	4.8	320.9	460.2	559.7	221.4	781.1
1980	628.8	147.7	47.2	6.1	337.5	492.2	578.7	251.0	829.7
1981	608.0	159.7	50.7	5.4	316.5	507.3	553.9	269.9	823.8
1982	620.2	160.9	52.4	4.6	339.2	499.0	564.3	273.9	838.1
1983	568.6	151.0	58.3	4.1	300.4	481.7	507.4	274.7	782.1
1984	649.5	179.2	63.1	4.2	352.1	543.9	587.6	308.3	895.9
1985	613.9	192.7	72.4	4.7	350.8	532.8	558.7	324.9	883.6
1986	620.1	189.6	76.4	4.3	360.4	529.9	564.4	325.9	890.3
1987	636.6	200.2	78.4	3.6	372.9	545.9	581.9	336.8	918.8
1988	638.1	223.5	85.1	3.6	382.2	568.1	579.6	370.7	950.3
1989	659.8	231.2	86.4	3.3	393.8	586.9	599.0	381.7	980.7
1990	693.2	244.3	88.1	3.5	424.5	604.5	630.2	398.9	1,029.1
1991	650.7	255.3	86.5	3.4	407.2	588.8	591.3	404.7	996.0
1992	651.8	252.2	90.1	3.5	407.2	590.3	588.6	409.0	997.5
1993	576.7	274.9	89.5	4.3	351.1	594.4	516.2	429.2	945.4
1994	640.3	300.5	88.1	4.6	399.1	634.4	566.3	467.2	1,033.5
1995	613.8	328.0	86.5	4.7	396.2	636.7	544.2	488.7	1,033.0
1996	630.7	340.3	88.1	4.8	409.8	654.0	563.7	500.2	1,063.9
1997	653.8	345.1	86.3	4.7	420.7	669.3	579.4	510.6	1,089.9
1998	640.6	385.9	85.8	5.3	417.7	699.8	570.6	547.0	1,117.5
1999	601.7	406.7	87.2	4.8	391.8	708.6	529.6	570.8	1,100.4
2000	574.3	409.2	85.6	4.6	373.7	700.0	507.5	566.1	1,073.6
2001	<sup>1</sup> 611.3	434.4	80.0	<sup>1</sup> 1.9	380.6	<sup>1</sup> 747.1	<sup>1</sup> 528.8	<sup>1</sup> 598.9	<sup>1</sup> 1,127.7
2002	572.1	438.4	82.5	1.4	357.4	736.9	492.9	601.4	1,094.3
2003	541.5	442.6	86.4	1.3	352.8	719.0	469.2	602.5	1,071.8
2004	561.5	465.4	83.5	1.7	367.6	744.5	484.8	627.3	1,112.1
2005	571.2	474.7	83.9	1.7	368.6	762.9	493.8	637.7	1,131.5
2006	561.6	515.3	84.2	1.5	359.0	803.7	490.8	672.0	1,162.7
2007	<sup>R</sup> 542.8	<sup>R</sup> 523.7	<sup>R</sup> 78.6	1.6	<sup>R</sup> 351.8	<sup>R</sup> 794.8	<sup>R</sup> 478.2	<sup>R</sup> 668.5	<sup>R</sup> 1,146.6
2008	<sup>E</sup> 559.4	<sup>E</sup> 534.7	<sup>E</sup> 75.7	<sup>E</sup> 1.7	<sup>E</sup> 357.6	<sup>E</sup> 813.9	<sup>E</sup> 493.1	<sup>E</sup> 678.4	<sup>P</sup> 1,171.5

<sup>1</sup> Beginning in 2001, includes a small amount of refuse recovery.

<sup>2</sup> Included in "Bituminous Coal."

R=Revised. P=Preliminary. E=Estimate.

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

Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/coal.html>.

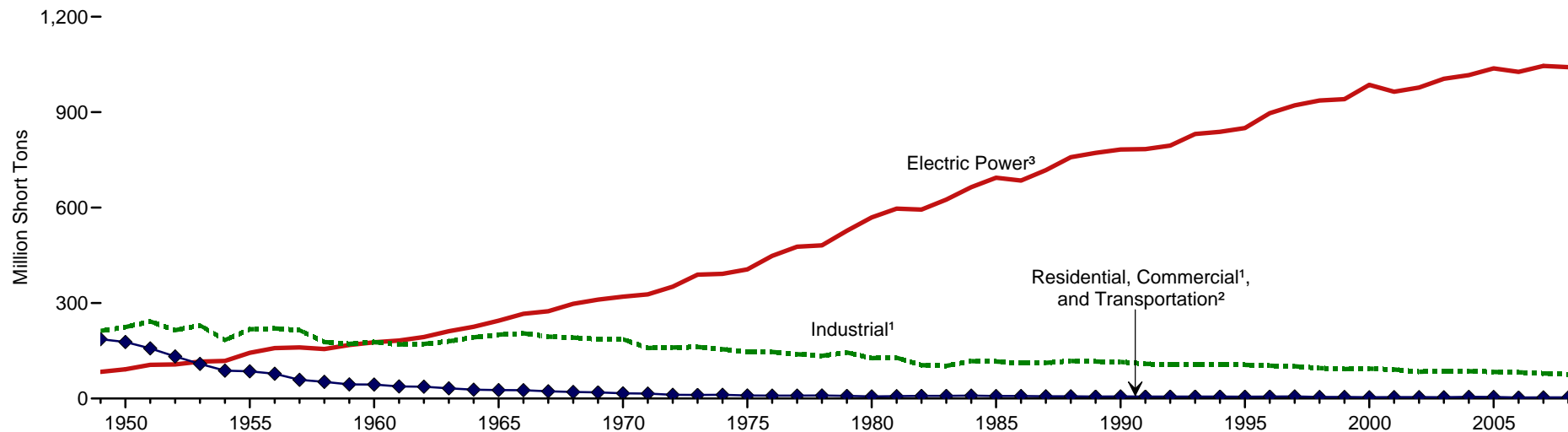
• For related information, see <http://www.eia.doe.gov/fuelcoal.html>.

Sources: • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coal—Bituminous and Lignite" and "Coal—Pennsylvania Anthracite" chapters. • 1976—Energy Information Administration (EIA), Energy Data Reports, *Coal—Bituminous and Lignite in 1976* and *Coal—Pennsylvania Anthracite 1976*. • 1977 and

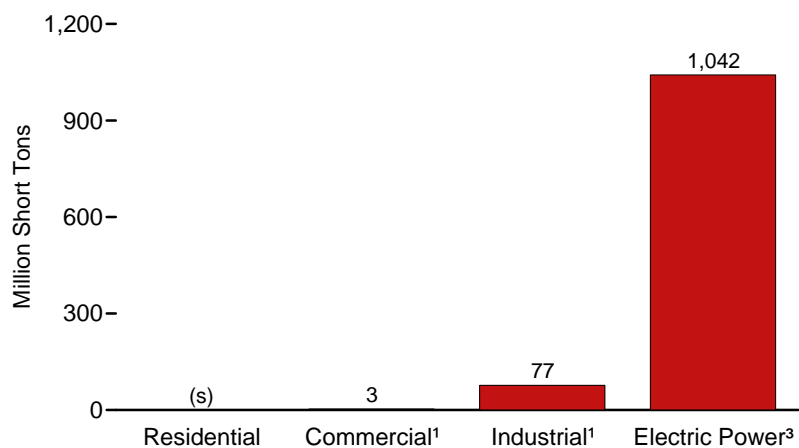
1978—EIA, Energy Data Reports, *Bituminous Coal and Lignite Production and Mine Operations—1977; 1978, Coal—Pennsylvania Anthracite 1977; 1978, and Coal Production*, annual reports. • 1979 and 1980—EIA, Energy Data Reports, *Weekly Coal Report and Coal Production*, annual reports. • 1981-1988—EIA, *Weekly Coal Production and Coal Production*, annual reports. • 1989-2000—EIA, *Coal Industry Annual*, annual reports. • 2001-2007—EIA, *Annual Coal Report*, annual reports. • 2008—EIA, *Quarterly Coal Report October-December 2008* (April 2009), Table 1; EIA, Form EIA-7A, "Coal Production Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Figure 7.3 Coal Consumption by Sector**

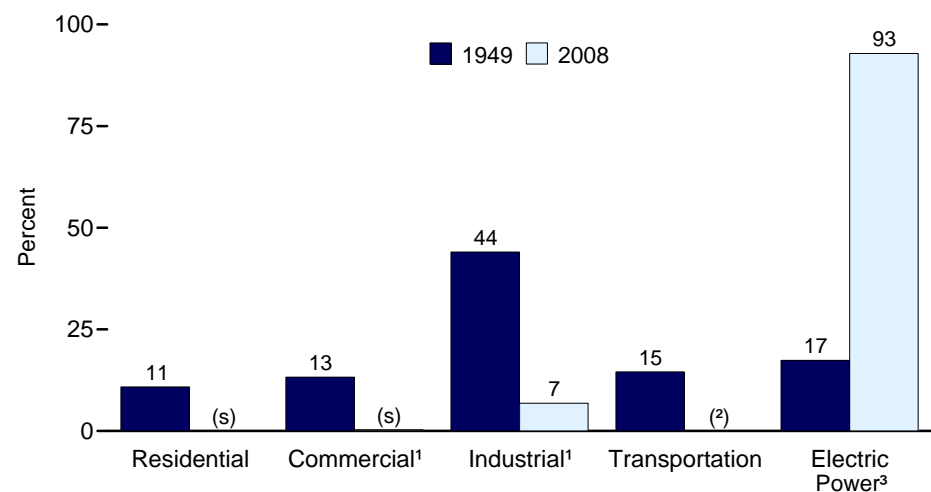
**By Sector, 1949-2008**



**By Sector, 2008**



**Sector Shares, 1949 and 2008**



<sup>1</sup> Includes combined-heat-and-power (CHP) plants and a small number of electricity-only plants.

<sup>2</sup> For 1978 forward, small amounts of transportation sector use are included in "Industrial."

<sup>3</sup> Electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.

(s)=Less than 0.5.

Source: Table 7.3.

**Table 7.3 Coal Consumption by Sector, Selected Years, 1949-2008**

(Million Short Tons)

Year	Residential Sector <sup>1</sup>	Commercial Sector <sup>1</sup>			Industrial Sector					Transportation Sector	Electric Power Sector <sup>2</sup>			Total
		CHP <sup>3</sup>	Other <sup>4</sup>	Total	Coke Plants	Other Industrial			Total		Electricity Only	CHP	Total	
						CHP <sup>5</sup>	Non-CHP <sup>6</sup>	Total						
1949	52.4	(7)	64.1	64.1	91.4	(8)	121.2	121.2	212.6	70.2	84.0	NA	84.0	483.2
1950	51.6	(7)	63.0	63.0	104.0	(8)	120.6	120.6	224.6	63.0	91.9	NA	91.9	494.1
1955	35.6	(7)	32.9	32.9	107.7	(8)	110.1	110.1	217.8	17.0	143.8	NA	143.8	447.0
1960	24.2	(7)	16.8	16.8	81.4	(8)	96.0	96.0	177.4	3.0	176.7	NA	176.7	398.1
1965	14.6	(7)	11.0	11.0	95.3	(8)	105.6	105.6	200.8	.7	244.8	NA	244.8	472.0
1970	9.0	(7)	7.1	7.1	96.5	(8)	90.2	90.2	186.6	.3	320.2	NA	320.2	523.2
1971	7.4	(7)	7.8	7.8	83.2	(8)	75.6	75.6	158.9	.2	327.3	NA	327.3	501.6
1972	5.0	(7)	6.7	6.7	87.7	(8)	72.9	72.9	160.6	.2	351.8	NA	351.8	524.3
1973	4.1	(7)	7.0	7.0	94.1	(8)	68.0	68.0	162.1	.1	389.2	NA	389.2	562.6
1974	3.7	(7)	7.8	7.8	90.2	(8)	64.9	64.9	155.1	.1	391.8	NA	391.8	558.4
1975	2.8	(7)	6.6	6.6	83.6	(8)	63.6	63.6	147.2	(s)	406.0	NA	406.0	562.6
1976	2.6	(7)	6.3	6.3	84.7	(8)	61.8	61.8	146.5	(s)	448.4	NA	448.4	603.8
1977	2.5	(7)	6.4	6.4	77.7	(8)	61.5	61.5	139.2	(s)	477.1	NA	477.1	625.3
1978	2.2	(7)	7.3	7.3	71.4	(8)	63.1	63.1	134.5	(8)	481.2	NA	481.2	625.2
1979	1.7	(7)	6.7	6.7	77.4	(8)	67.7	67.7	145.1	(8)	527.1	NA	527.1	680.5
1980	1.4	(7)	5.1	5.1	66.7	(8)	60.3	60.3	127.0	(8)	569.3	NA	569.3	702.7
1981	1.3	(7)	6.1	6.1	61.0	(8)	67.4	67.4	128.4	(8)	596.8	NA	596.8	732.6
1982	1.4	(7)	6.8	6.8	40.9	(8)	64.1	64.1	105.0	(8)	593.7	NA	593.7	706.9
1983	1.4	(7)	7.1	7.1	37.0	(8)	66.0	66.0	103.0	(8)	625.2	NA	625.2	736.7
1984	1.7	(7)	7.4	7.4	44.0	(8)	73.7	73.7	117.8	(8)	664.4	NA	664.4	791.3
1985	1.7	(7)	6.1	6.1	41.1	(8)	75.4	75.4	116.4	(8)	693.8	NA	693.8	818.0
1986	1.8	(7)	5.9	5.9	35.9	(8)	75.6	75.6	111.5	(8)	685.1	NA	685.1	804.2
1987	1.6	(7)	5.3	5.3	37.0	(8)	75.2	75.2	112.1	(8)	717.9	NA	717.9	836.9
1988	1.6	(7)	5.6	5.6	41.9	(8)	76.3	76.3	118.1	(8)	758.4	NA	758.4	883.6
1989	1.3	1.1	3.7	4.9	40.5	24.9	51.3	76.1	116.6	(8)	767.4	4.8	772.2	895.0
1990	1.3	1.2	4.2	5.4	38.9	27.8	48.5	76.3	115.2	(8)	774.2	8.4	782.6	904.5
1991	1.1	1.2	3.8	5.0	33.9	27.0	48.4	75.4	109.3	(8)	773.2	10.7	783.9	899.2
1992	1.1	1.2	3.9	5.0	32.4	28.2	45.8	74.0	106.4	(8)	781.2	13.9	795.1	907.7
1993	1.1	1.4	3.7	5.1	31.3	28.9	46.0	74.9	106.2	(8)	816.6	15.1	831.6	944.1
1994	.9	1.3	3.8	5.1	31.7	29.7	45.5	75.2	106.9	(8)	821.2	17.1	838.4	951.3
1995	.8	1.4	3.6	5.1	33.0	29.4	43.7	73.1	106.1	(8)	832.9	17.3	850.2	962.1
1996	.7	1.7	3.6	5.3	31.7	29.4	42.3	71.7	103.4	(8)	878.8	18.1	896.9	1,006.3
1997	.7	1.7	4.0	5.8	30.2	29.9	41.7	71.5	101.7	(8)	904.2	17.1	921.4	1,029.5
1998	.5	1.4	2.9	4.3	28.2	28.6	38.9	67.4	95.6	(8)	920.4	16.3	936.6	1,037.1
1999	.6	1.5	2.8	4.3	28.1	27.8	37.0	64.7	92.8	(8)	924.7	16.2	940.9	1,038.6
2000	.5	1.5	2.1	3.7	28.9	28.0	37.2	65.2	94.1	(8)	967.1	18.7	985.8	1,084.1
2001	.5	1.4	2.4	3.9	26.1	25.8	39.5	65.3	91.3	(8)	946.1	18.4	964.4	1,060.1
2002	.5	1.4	2.5	3.9	23.7	26.2	34.5	60.7	84.4	(8)	960.1	17.4	977.5	1,066.4
2003	.6	1.8	1.9	3.7	24.2	24.8	36.4	61.3	85.5	(8)	983.5	21.6	1,005.1	1,094.9
2004	.5	1.9	2.7	4.6	23.7	26.6	35.6	62.2	85.9	(8)	994.8	21.5	1,016.3	1,107.3
2005	.4	1.9	2.4	4.3	23.4	25.9	34.5	60.3	83.8	(8)	1,015.6	21.8	1,037.5	1,126.0
2006	.3	1.9	1.1	R2.9	23.0	25.3	34.2	59.5	82.4	(8)	1,004.8	21.9	1,026.6	1,112.3
2007	R.4	1.9	R1.2	R3.2	22.7	R22.5	R34.1	R56.6	R79.3	(8)	R1,022.8	R22.3	R1,045.1	R1,128.0
2008 <sup>P</sup>	.4	2.1	1.0	3.2	22.1	23.6	31.0	54.5	76.6	(8)	1,019.0	22.6	1,041.6	1,121.7

<sup>1</sup> See Note 2, "Residential and Commercial Coal Consumption Estimates," at end of section.

<sup>2</sup> Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers. Electric utility CHP plants are included in "Electricity Only."

<sup>3</sup> Commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants, such as those at hospitals and universities.

<sup>4</sup> All commercial sector fuel use other than that in "Commercial CHP."

<sup>5</sup> Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants.

<sup>6</sup> All industrial sector fuel use other than that in "Coke Plants" and "Industrial CHP."

<sup>7</sup> Included in "Commercial Other."

<sup>8</sup> Included in "Industrial Non-CHP."

R=Revised. P=Preliminary. NA=Not available. (s)=Less than 0.05 million short tons.

Notes: • See Tables 8.5a-8.5d for the amount of coal used to produce electricity and Tables 8.6a-8.6c

for the amount of coal used to produce useful thermal output. • See Note 1, "Coal Consumption," at end of section. • See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 8.

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

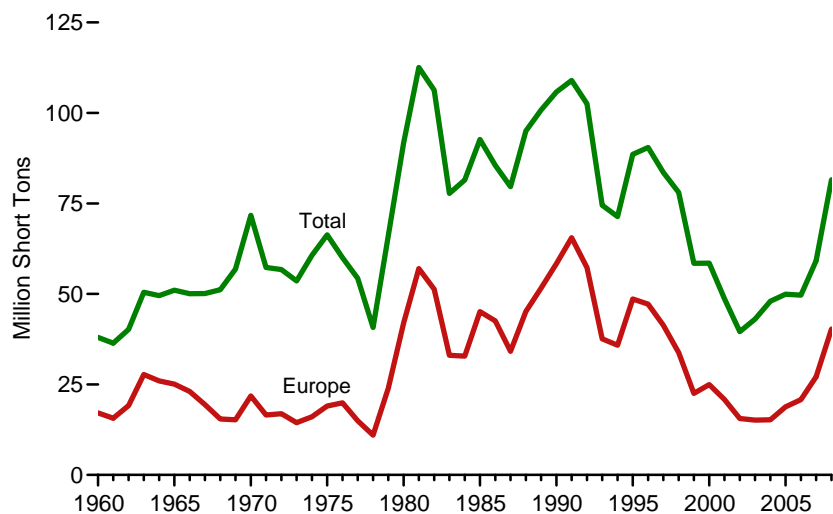
Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/coal.html>.

• For related information, see <http://www.eia.doe.gov/fuelcoal.html>.

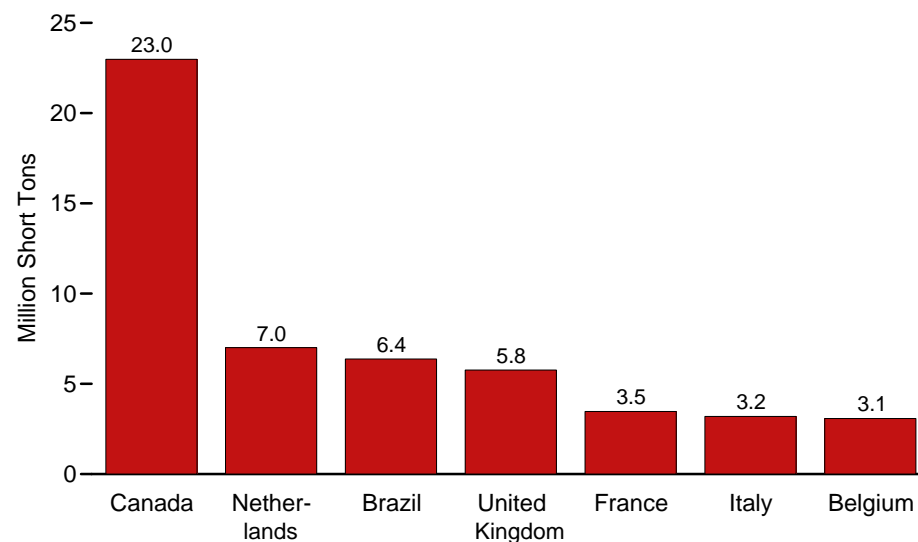
Sources: **Commercial CHP and Industrial CHP:** Table 8.7c. **Electric Power Sector:** Tables 8.5b, 8.5c, 8.6b, and 8.7b. **All Other Data:** • 1949-1975—Bureau of Mines (BOM), *Minerals Yearbook*, "Coal—Bituminous and Lignite" and "Coal—Pennsylvania Anthracite" chapters. • 1976—Energy Information Administration (EIA), *Energy Data Reports, Coal—Bituminous and Lignite in 1976 and Coal—Pennsylvania Anthracite 1976*. • 1977 and 1978—EIA, *Energy Data Reports, Coal—Pennsylvania Anthracite 1977; 1978, and Weekly Coal Report*. • 1979 and 1980—EIA, *Energy Data Report, Weekly Coal Report*. • 1981-2001—EIA, *Quarterly Coal Report (QCR) October-December*, quarterly reports. • 2002 forward—EIA, *QCR October-December 2008* (April 2009), Table 27.

**Figure 7.4 Coal Exports by Country of Destination**

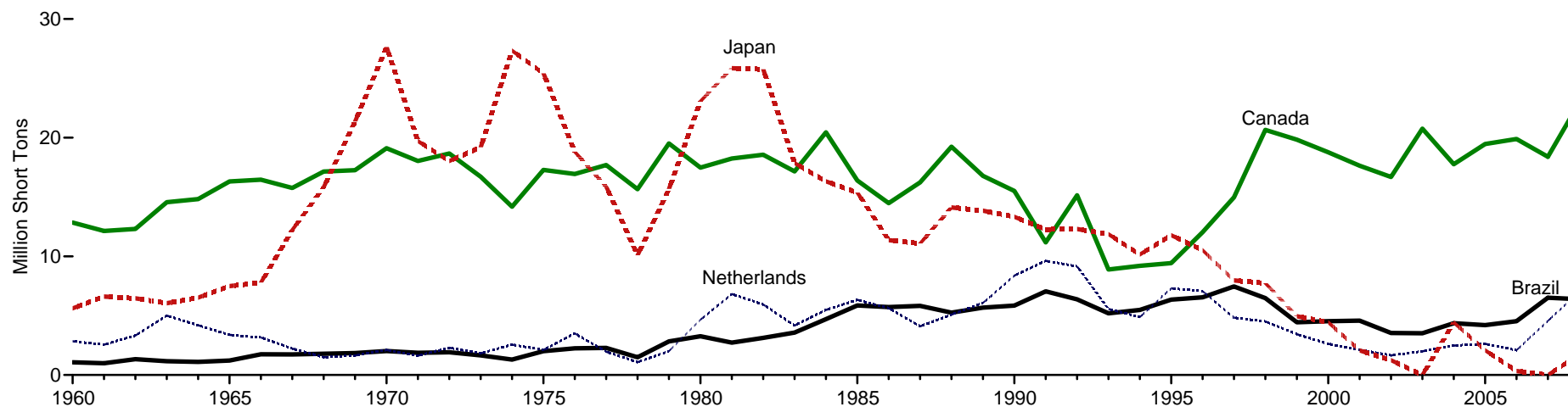
**Total and Europe, 1960-2008**



**By Selected Country, 2008**



**By Selected Country, 1960-2008**



Source: Table 7.4.

**Table 7.4 Coal Exports by Country of Destination, 1960-2008**  
(Million Short Tons)

Year	Canada	Brazil	Europe										Japan	Other	Total	
			Belgium <sup>1</sup>	Denmark	France	Germany <sup>2</sup>	Italy	Nether-lands	Spain	Turkey	United Kingdom	Other				Total
1960	12.8	1.1	1.1	0.1	0.8	4.6	4.9	2.8	0.3	NA	-	2.4	17.1	5.6	1.3	38.0
1961	12.1	1.0	1.0	.1	.7	4.3	4.8	2.6	.2	NA	-	2.0	15.7	6.6	1.0	36.4
1962	12.3	1.3	1.3	(s)	.9	5.1	6.0	3.3	.8	NA	(s)	1.8	19.1	6.5	1.0	40.2
1963	14.6	1.2	2.7	(s)	2.7	5.6	7.9	5.0	1.5	NA	-	2.4	27.7	6.1	.9	50.4
1964	14.8	1.1	2.3	(s)	2.2	5.2	8.1	4.2	1.4	NA	-	2.6	26.0	6.5	1.1	49.5
1965	16.3	1.2	2.2	(s)	2.1	4.7	9.0	3.4	1.4	NA	(s)	2.3	25.1	7.5	.9	51.0
1966	16.5	1.7	1.8	(s)	1.6	4.9	7.8	3.2	1.2	NA	(s)	2.5	23.1	7.8	1.0	50.1
1967	15.8	1.7	1.4	-	2.1	4.7	5.9	2.2	1.0	NA	-	2.1	19.4	12.2	1.0	50.1
1968	17.1	1.8	1.1	-	1.5	3.8	4.3	1.5	1.5	NA	-	1.9	15.5	15.8	.9	51.2
1969	17.3	1.8	.9	-	2.3	3.5	3.7	1.6	1.8	NA	-	1.3	15.2	21.4	1.2	56.9
1970	19.1	2.0	1.9	-	3.6	5.0	4.3	2.1	3.2	NA	(s)	1.8	21.8	27.6	1.2	71.7
1971	18.0	1.9	.8	-	3.2	2.9	2.7	1.6	2.6	NA	1.7	1.1	16.6	19.7	1.1	57.3
1972	18.7	1.9	1.1	-	1.7	2.4	3.7	2.3	2.1	NA	2.4	1.1	16.9	18.0	1.2	56.7
1973	16.7	1.6	1.2	-	2.0	1.6	3.3	1.8	2.2	NA	.9	1.3	14.4	19.2	1.6	53.6
1974	14.2	1.3	1.1	-	2.7	1.5	3.9	2.6	2.0	NA	1.4	.9	16.1	27.3	1.8	60.7
1975	17.3	2.0	.6	-	3.6	2.0	4.5	2.1	2.7	NA	1.9	1.6	19.0	25.4	2.6	66.3
1976	16.9	2.2	2.2	(s)	3.5	1.0	4.2	3.5	2.5	NA	.8	2.1	19.9	18.8	2.1	60.0
1977	17.7	2.3	1.5	.1	2.1	.9	4.1	2.0	1.6	NA	.6	2.1	15.0	15.9	3.5	54.3
1978	15.7	1.5	1.1	-	1.7	.6	3.2	1.1	.8	NA	.4	2.2	11.0	10.1	2.5	40.7
1979	19.5	2.8	3.2	.2	3.9	2.6	5.0	2.0	1.4	NA	1.4	4.4	23.9	15.7	4.1	66.0
1980	17.5	3.3	4.6	1.7	7.8	2.5	7.1	4.7	3.4	NA	4.1	6.0	41.9	23.1	6.0	91.7
1981	18.2	2.7	4.3	3.9	9.7	4.3	10.5	6.8	6.4	.6	2.3	8.2	57.0	25.9	8.7	112.5
1982	18.6	3.1	4.8	2.8	9.0	2.3	11.3	5.9	5.6	1.6	2.0	6.0	51.3	25.8	7.5	106.3
1983	17.2	3.6	2.5	1.7	4.2	1.5	8.1	4.2	3.3	1.6	1.2	4.7	33.1	17.9	6.1	77.8
1984	20.4	4.7	3.9	.6	3.8	.9	7.6	5.5	2.3	1.5	2.9	3.9	32.8	16.3	7.2	81.5
1985	16.4	5.9	4.4	2.2	4.5	1.1	10.3	6.3	3.5	2.2	2.7	8.1	45.1	15.4	9.9	92.7
1986	14.5	5.7	4.4	2.1	5.4	.8	10.4	5.6	2.6	2.4	2.9	5.9	42.6	11.4	11.4	85.5
1987	16.2	5.8	4.6	.9	2.9	.5	9.5	4.1	2.5	.8	2.6	5.8	34.2	11.1	12.3	79.6
1988	19.2	5.3	6.5	2.8	4.3	.7	11.1	5.1	2.5	2.0	3.7	6.4	45.1	14.1	11.3	95.0
1989	16.8	5.7	7.1	3.2	6.5	.7	11.2	6.1	3.3	1.7	4.5	7.2	51.6	13.8	12.9	100.8
1990	15.5	5.8	8.5	3.2	6.9	1.1	11.9	8.4	3.8	2.1	5.2	7.4	58.4	13.3	12.7	105.8
1991	11.2	7.1	7.5	4.7	9.5	1.7	11.3	9.6	4.7	2.2	6.2	8.2	65.5	12.3	13.0	109.0
1992	15.1	6.4	7.2	3.8	8.1	1.0	9.3	9.1	4.5	2.0	5.6	6.6	57.3	12.3	11.4	102.5
1993	8.9	5.2	5.2	.3	4.0	.5	6.9	5.6	4.1	1.6	4.1	5.3	37.6	11.9	11.0	74.5
1994	9.2	5.5	4.9	.5	2.9	.3	7.5	4.9	4.1	1.3	3.4	6.0	35.8	10.2	10.7	71.4
1995	9.4	6.4	4.5	2.1	3.7	2.0	9.1	7.3	4.7	2.0	4.7	8.7	48.6	11.8	12.4	88.5
1996	12.0	6.5	4.6	1.3	3.9	1.1	9.2	7.1	4.1	2.2	6.2	7.7	47.2	10.5	14.2	90.5
1997	15.0	7.5	4.3	.4	3.4	.9	7.0	4.8	4.1	2.1	7.2	7.1	41.3	8.0	11.8	83.5
1998	20.7	6.5	3.2	.3	3.2	1.2	5.3	4.5	3.2	1.6	5.9	5.3	33.8	7.7	9.4	78.0
1999	19.8	4.4	2.1	-	2.5	.6	4.0	3.4	2.5	.8	3.2	3.5	22.5	5.0	6.7	58.5
2000	18.8	4.5	2.9	.1	3.0	1.0	3.7	2.6	2.7	1.8	3.3	3.9	25.0	4.4	5.8	58.5
2001	17.6	4.6	2.8	-	2.2	.9	5.4	2.1	1.6	.9	2.5	2.4	20.8	2.1	3.6	48.7
2002	16.7	3.5	2.4	-	1.3	1.0	3.1	1.7	1.9	.6	1.9	1.8	15.6	1.3	2.6	39.6
2003	20.8	3.5	1.8	.3	1.3	.5	2.8	2.0	1.8	1.1	1.5	2.1	15.1	(s)	3.6	43.0
2004	17.8	4.4	1.7	.1	1.1	.6	2.1	2.5	1.5	1.3	2.0	2.3	15.2	4.4	6.2	48.0
2005	19.5	4.2	2.1	.1	1.3	.7	2.5	2.6	1.9	1.9	1.8	4.1	18.8	2.1	5.4	49.9
2006	19.9	4.5	2.2	.4	1.6	1.7	3.3	2.1	1.6	1.2	2.6	4.2	20.8	.3	4.1	49.6
2007	18.4	6.5	2.1	.1	2.4	2.3	3.5	4.6	1.5	1.4	3.4	5.8	27.1	(s)	7.1	59.2
2008 <sup>P</sup>	23.0	6.4	3.1	.4	3.5	2.5	3.2	7.0	2.4	1.9	5.8	10.6	40.3	1.7	10.1	81.5

<sup>1</sup> Through 1999, includes Luxembourg.

<sup>2</sup> Through 1990, data for Germany are for the former West Germany only. Beginning in 1991, data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

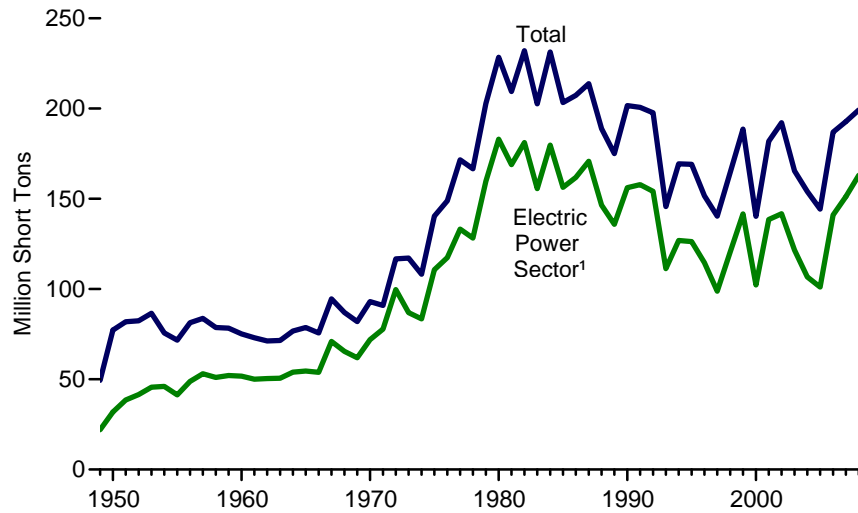
P=Preliminary. NA = Not Available. - = No data reported. (s)=Less than 0.05 million short tons.

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

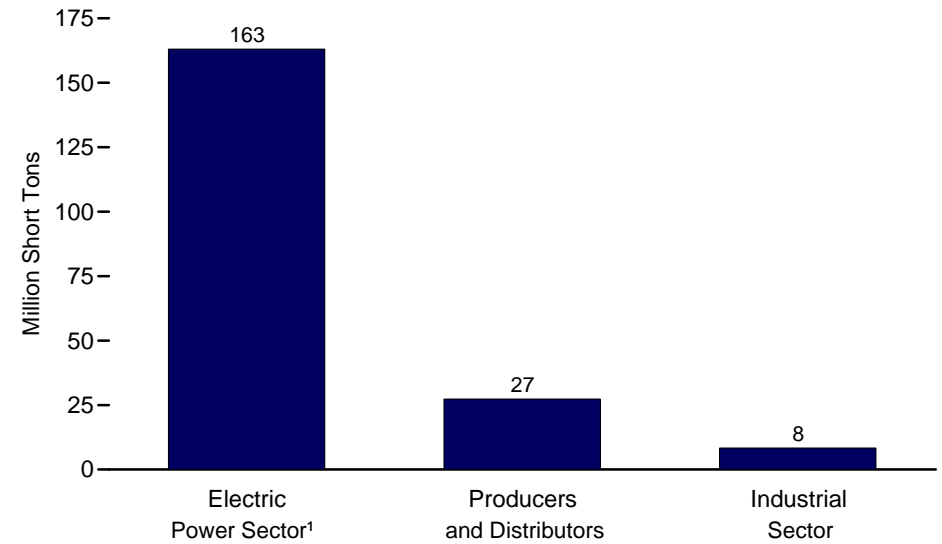
Sources: • 1960-1988—U.S. Department of Commerce, Bureau of the Census, *U.S. Exports by Schedule B Commodities, EM 522*. • 1989-2000—Energy Information Administration (EIA), *Coal Industry Annual*, annual reports. • 2001 forward—EIA, *Quarterly Coal Report October-December*, quarterly reports; and U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

**Figure 7.5 Coal Stocks**

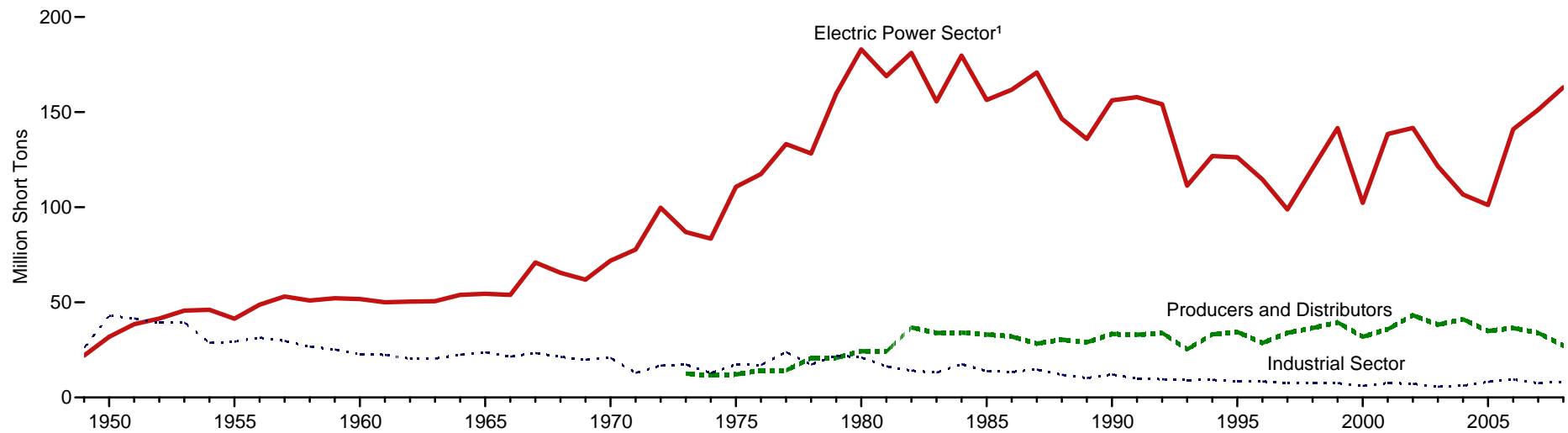
**Total and Electric Power Sector Stocks, 1949-2008**



**By Holding Entity, 2008**



**By Holding Entity, 1949-2008**



<sup>1</sup> Electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public.

Note: Stocks are at end of year.  
Source: Table 7.5.

**Table 7.5 Coal Stocks by Sector, Selected Years, 1949-2008**  
(Million Short Tons)

Year	Producers and Distributors	Consumers							Total
		Residential and Commercial Sectors	Industrial Sector			Transportation Sector	Electric Power Sector <sup>2</sup>	Total	
			Coke Plants	Other <sup>1</sup>	Total				
1949	NA	1.4	10.0	16.1	26.0	( <sup>3</sup> )	22.1	49.5	49.5
1950	NA	2.5	16.8	26.2	43.0	( <sup>3</sup> )	31.8	77.3	77.3
1955	NA	1.0	13.4	15.9	29.3	( <sup>3</sup> )	41.4	71.7	71.7
1960	NA	.7	11.1	11.6	22.8	( <sup>3</sup> )	51.7	75.2	75.2
1965	NA	.4	10.6	13.1	23.8	( <sup>3</sup> )	54.5	78.6	78.6
1970	NA	.3	9.0	11.8	20.8	( <sup>3</sup> )	71.9	93.0	93.0
1971	NA	.3	7.3	5.6	12.9	( <sup>3</sup> )	77.8	91.0	91.0
1972	NA	.3	9.1	7.6	16.7	( <sup>3</sup> )	99.7	116.8	116.8
1973	12.5	.3	7.0	10.4	17.4	( <sup>3</sup> )	87.0	104.6	117.2
1974	11.6	.3	6.2	6.6	12.8	( <sup>3</sup> )	83.5	96.6	108.2
1975	12.1	.2	8.8	8.5	17.3	( <sup>3</sup> )	110.7	128.3	140.4
1976	14.2	.2	9.9	7.1	17.0	( <sup>3</sup> )	117.4	134.7	148.9
1977	14.2	.2	12.8	11.1	23.9	( <sup>3</sup> )	133.2	157.3	171.5
1978	20.7	.4	8.3	9.0	17.3	NA	128.2	145.9	166.6
1979	20.8	.3	10.2	11.8	21.9	NA	159.7	182.0	202.8
1980	24.4	NA	9.1	12.0	21.0	NA	183.0	204.0	228.4
1981	24.1	NA	6.5	9.9	16.4	NA	168.9	185.3	209.4
1982	36.8	NA	4.6	9.5	14.1	NA	181.1	195.3	232.0
1983	33.9	NA	4.3	8.7	13.1	NA	155.6	168.7	202.6
1984	34.1	NA	6.2	11.3	17.5	NA	179.7	197.2	231.3
1985	33.1	NA	3.4	10.4	13.9	NA	156.4	170.2	203.4
1986	32.1	NA	3.0	10.4	13.4	NA	161.8	175.2	207.3
1987	28.3	NA	3.9	10.8	14.7	NA	170.8	185.5	213.8
1988	30.4	NA	3.1	8.8	11.9	NA	146.5	158.4	188.8
1989	29.0	NA	2.9	7.4	10.2	NA	135.9	146.1	175.1
1990	33.4	NA	3.3	8.7	12.0	NA	156.2	168.2	201.6
1991	33.0	NA	2.8	7.1	9.8	NA	157.9	167.7	200.7
1992	34.0	NA	2.6	7.0	9.6	NA	154.1	163.7	197.7
1993	25.3	NA	2.4	6.7	9.1	NA	111.3	120.5	145.7
1994	33.2	NA	2.7	6.6	9.2	NA	126.9	136.1	169.4
1995	34.4	NA	2.6	5.7	8.3	NA	126.3	134.6	169.1
1996	28.6	NA	2.7	5.7	8.4	NA	114.6	123.0	151.6
1997	34.0	NA	2.0	5.6	7.6	NA	98.8	106.4	140.4
1998	36.5	NA	2.0	5.5	7.6	NA	120.5	128.1	164.6
1999	39.5	NA	1.9	5.6	7.5	NA	141.6	149.1	188.6
2000	31.9	NA	1.5	4.6	6.1	NA	102.3	108.4	140.3
2001	35.9	NA	1.5	6.0	7.5	NA	138.5	146.0	181.9
2002	43.3	NA	1.4	5.8	7.2	NA	141.7	148.9	192.1
2003	38.3	NA	.9	4.7	5.6	NA	121.6	127.2	165.5
2004	41.2	NA	1.3	4.8	6.2	NA	106.7	112.9	154.0
2005	35.0	NA	2.6	5.6	8.2	NA	101.1	109.3	144.3
2006	36.5	NA	2.9	6.5	9.4	NA	141.0	150.4	186.9
2007	<sup>R</sup> 34.0	NA	1.9	5.6	7.6	NA	<sup>R</sup> 151.2	<sup>R</sup> 158.8	<sup>R</sup> 192.8
2008 <sup>P</sup>	<sup>E</sup> 27.3	.5	2.3	6.0	8.3	NA	163.1	171.9	199.2

<sup>1</sup> Through 1977, data are for stocks held by the manufacturing and transportation sectors. Beginning in 1978, data are for stocks held at manufacturing plants only.

<sup>2</sup> Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1998, data are for electric utilities only; beginning in 1999, data are for electric utilities and independent power producers.

<sup>3</sup> Included in "Industrial Sector Other."

R=Revised. P=Preliminary. E=Estimate. NA=Not available.

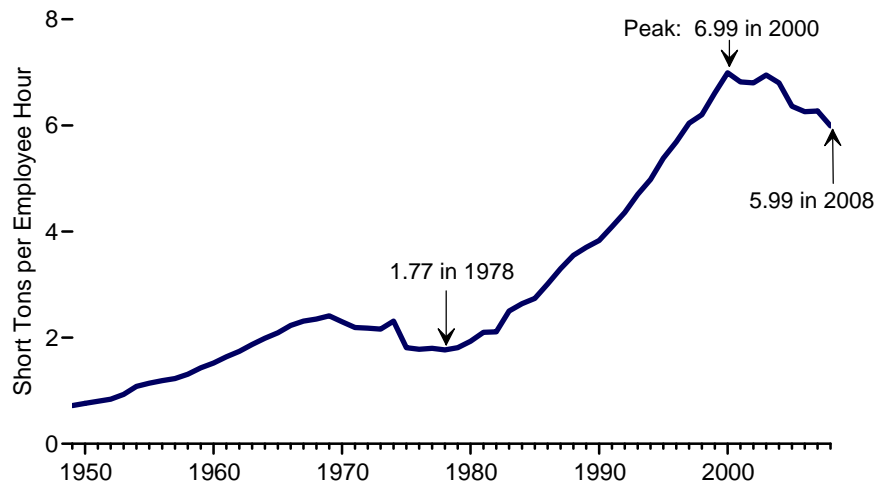
Notes: • Stocks are at end of year. • Totals may not equal sum of components due to independent rounding.

Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/coal.html>. • For related information, see <http://www.eia.doe.gov/fuelcoal.html>.

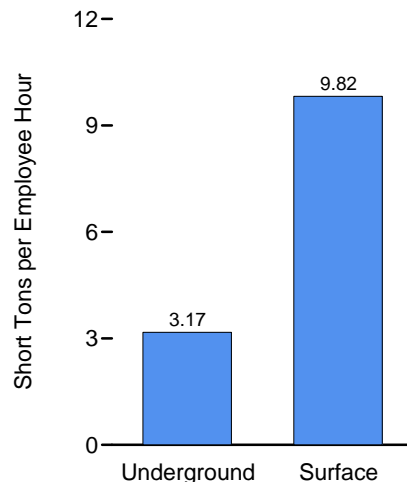
Sources: **Electric Power Sector:** Table 8.8. **All Other Data:** • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coal—Bituminous and Lignite" and "Coal—Pennsylvania Anthracite" chapters. • 1976—Energy Information Administration (EIA), Energy Data Reports, *Coal—Bituminous and Lignite in 1976 and Coal—Pennsylvania Anthracite 1976*. • 1977 and 1978—EIA, Energy Data Reports, *Coal—Pennsylvania Anthracite 1977; 1978, and Weekly Coal Report*. • 1979—EIA, Energy Data Report, *Weekly Coal Report*. • 1980-2001—EIA, *Quarterly Coal Report (QCR) October-December*, quarterly reports. • 2002 forward—EIA, *QCR October-December 2008* (April 2009), Table 32.

**Figure 7.6 Coal Mining Productivity**

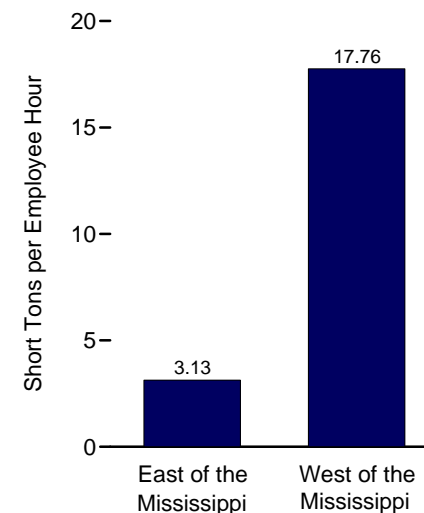
**Total, 1949-2008**



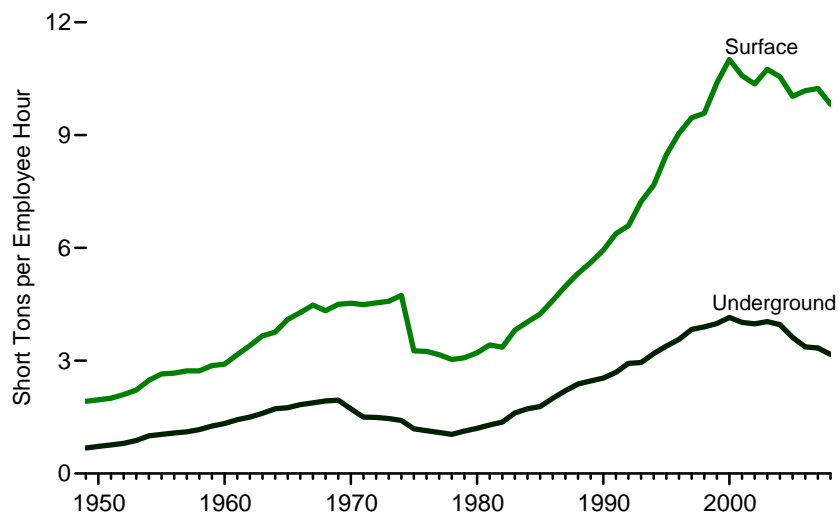
**Mining Methods, 2008**



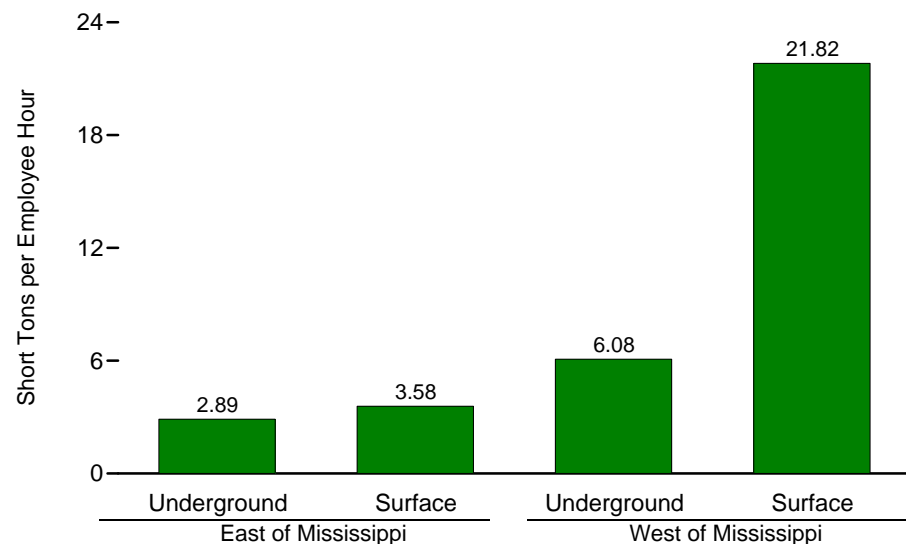
**Location, 2008**



**Mining Method,<sup>1</sup> 1949-2008**



**By Region and Mining Method, 2008**



<sup>1</sup> For 1979 forward, includes all coal; prior to 1979, excludes anthracite.  
 Note: Beginning in 2001, surface mining includes a small amount of refuse recovery.

Source: Table 7.6.

**Table 7.6 Coal Mining Productivity, Selected Years, 1949-2008**  
(Short Tons per Employee Hour <sup>1</sup>)

Year	Mining Method		Location						Total <sup>2</sup>
	Underground	Surface <sup>2</sup>	East of the Mississippi			West of the Mississippi			
			Underground	Surface <sup>2</sup>	Total <sup>2</sup>	Underground	Surface <sup>2</sup>	Total <sup>2</sup>	
1949	<sup>3</sup> 0.68	<sup>3</sup> 1.92	NA	NA	NA	NA	NA	NA	0.72
1950	<sup>3</sup> .72	<sup>3</sup> 1.96	NA	NA	NA	NA	NA	NA	.76
1955	<sup>3</sup> 1.04	<sup>3</sup> 2.65	NA	NA	NA	NA	NA	NA	1.14
1960	<sup>3</sup> 1.33	<sup>3</sup> 2.91	NA	NA	NA	NA	NA	NA	1.52
1965	<sup>3</sup> 1.75	<sup>3</sup> 4.10	NA	NA	NA	NA	NA	NA	2.09
1970	<sup>3</sup> 1.72	<sup>3</sup> 4.53	NA	NA	NA	NA	NA	NA	2.30
1971	<sup>3</sup> 1.50	<sup>3</sup> 4.49	NA	NA	NA	NA	NA	NA	2.19
1972	<sup>3</sup> 1.49	<sup>3</sup> 4.54	NA	NA	NA	NA	NA	NA	2.18
1973	<sup>3</sup> 1.46	<sup>3</sup> 4.58	NA	NA	NA	NA	NA	NA	2.16
1974	<sup>3</sup> 1.41	<sup>3</sup> 4.74	NA	NA	NA	NA	NA	NA	2.31
1975	<sup>3</sup> 1.19	<sup>3</sup> 3.26	NA	NA	NA	NA	NA	NA	1.81
1976	<sup>3</sup> 1.14	<sup>3</sup> 3.25	NA	NA	NA	NA	NA	NA	1.78
1977	<sup>3</sup> 1.09	<sup>3</sup> 3.16	NA	NA	NA	NA	NA	NA	1.80
1978	<sup>3</sup> 1.04	<sup>3</sup> 3.03	NA	NA	NA	NA	NA	NA	1.77
1979	1.13	3.08	NA	NA	NA	NA	NA	NA	1.81
1980	1.20	3.21	NA	NA	NA	NA	NA	NA	1.93
1981	1.29	3.42	NA	NA	NA	NA	NA	NA	2.10
1982	1.37	3.36	NA	NA	NA	NA	NA	NA	2.11
1983	1.61	3.81	NA	NA	NA	NA	NA	NA	2.50
1984	1.72	4.03	1.69	2.56	1.98	2.49	8.15	7.07	2.64
1985	1.78	4.24	1.75	2.52	2.00	2.45	8.61	7.40	2.74
1986	2.00	4.60	1.96	2.75	2.21	2.80	9.02	7.90	3.01
1987	2.20	4.98	2.16	2.97	2.42	3.39	9.86	8.73	3.30
1988	2.38	5.32	2.32	2.99	2.54	3.55	10.73	9.38	3.55
1989	2.46	5.61	2.39	3.13	2.63	3.92	11.86	10.21	3.70
1990	2.54	5.94	2.46	3.32	2.73	4.01	12.26	10.41	3.83
1991	2.69	6.38	2.59	3.49	2.86	4.53	12.36	10.79	4.09
1992	2.93	6.59	2.82	3.61	3.07	4.85	12.49	11.03	4.36
1993	2.95	7.23	2.81	3.74	3.11	5.18	13.94	12.14	4.70
1994	3.19	7.67	3.02	3.85	3.28	5.93	15.19	13.22	4.98
1995	3.39	8.48	3.19	4.03	3.45	6.32	16.23	14.18	5.38
1996	3.57	9.05	3.36	4.25	3.63	7.03	17.89	15.66	5.69
1997	3.83	9.46	3.63	4.49	3.89	6.82	18.63	16.04	6.04
1998	3.90	9.58	3.69	4.31	3.89	6.76	18.82	16.27	6.20
1999	3.99	10.39	3.74	4.48	3.97	7.45	19.57	17.18	6.61
2000	4.15	11.01	3.89	4.82	4.18	7.66	20.04	17.62	6.99
2001	4.02	<sup>2</sup> 10.58	3.71	<sup>2</sup> 4.53	<sup>2</sup> 3.98	8.39	<sup>2</sup> 20.63	<sup>2</sup> 18.32	<sup>2</sup> 6.82
2002	3.98	10.36	3.67	4.22	3.86	7.80	20.67	18.06	6.80
2003	4.04	10.75	3.68	4.18	3.85	8.33	21.42	18.67	6.95
2004	3.96	10.55	3.59	3.95	3.72	8.22	22.04	19.00	6.80
2005	3.62	10.03	3.28	3.75	3.44	7.48	21.98	18.50	6.36
2006	3.37	10.18	3.06	3.74	3.29	6.62	22.26	18.33	6.26
2007	<sup>R</sup> 3.34	<sup>R</sup> 10.24	<sup>R</sup> 3.03	<sup>R</sup> 3.74	<sup>R</sup> 3.27	<sup>R</sup> 6.52	<sup>R</sup> 22.35	<sup>R</sup> 18.23	<sup>R</sup> 6.27
2008 <sup>P</sup>	3.17	9.82	2.89	3.58	3.13	6.08	21.82	17.76	5.99

<sup>1</sup> Data through 1973 for bituminous coal, subbituminous coal, and lignite, and data through 1978 for anthracite, were originally reported in short tons per employee day—these data were converted to short tons per employee hour by assuming an eight-hour day. Through 1997, other data were calculated by dividing total production by total labor hours worked by all mine employees except office workers; beginning in 1998, the calculation also includes office workers.

<sup>2</sup> Beginning in 2001, includes a small amount of refuse recovery.

<sup>3</sup> Through 1978, data for anthracite are not available by mining method, but are included in "Total."

R=Revised. P=Preliminary. NA=Not available.

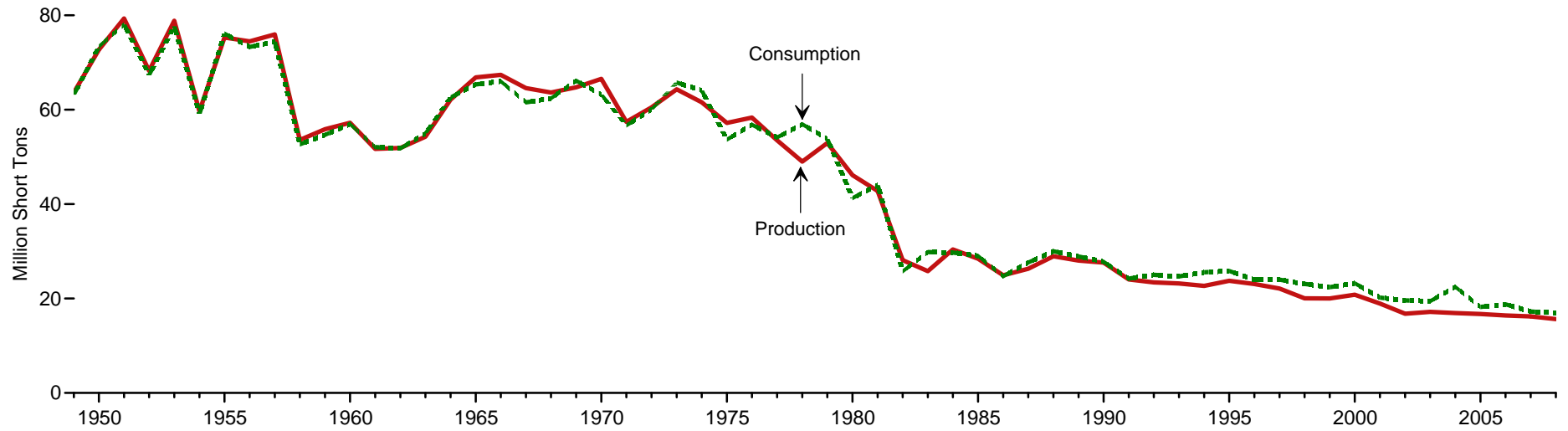
Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/coal.html>.

• For related information, see <http://www.eia.doe.gov/fuelcoal.html>.

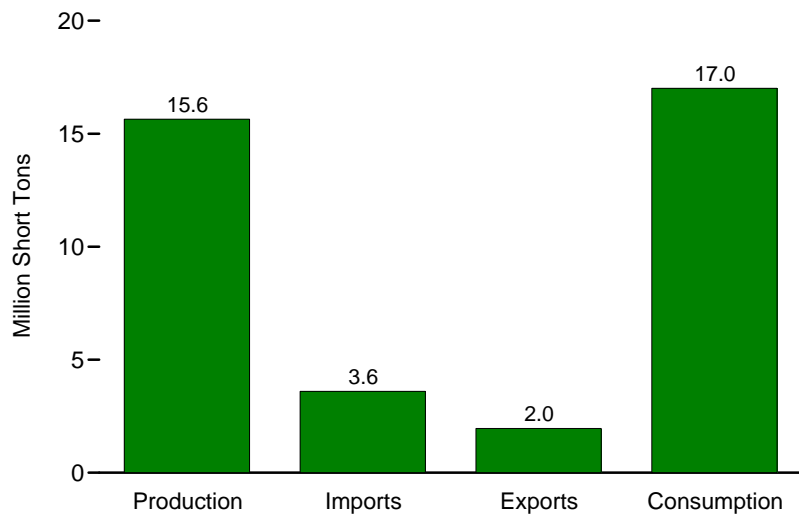
Sources: • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coal—Bituminous and Lignite" and "Coal—Pennsylvania Anthracite" chapters. • 1976—Energy Information Administration (EIA), *Energy Data Reports, Coal—Bituminous and Lignite in 1976 and Coal—Pennsylvania Anthracite 1976*. • 1977 and 1978—EIA, *Energy Data Reports, Bituminous Coal and Lignite Production and Mine Operations—1977; 1978 and Coal—Pennsylvania Anthracite 1977; 1978*. • 1979—EIA, *Energy Data Report, Coal Production—1979*. • 1980-1988—EIA, *Coal Production*, annual reports. • 1989-2000—EIA, *Coal Industry Annual*, annual reports. • 2001-2007—EIA, *Annual Coal Report*, annual reports. • 2008—EIA, Form EIA-7A, "Coal Production Report," and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Figure 7.7 Coke Overview**

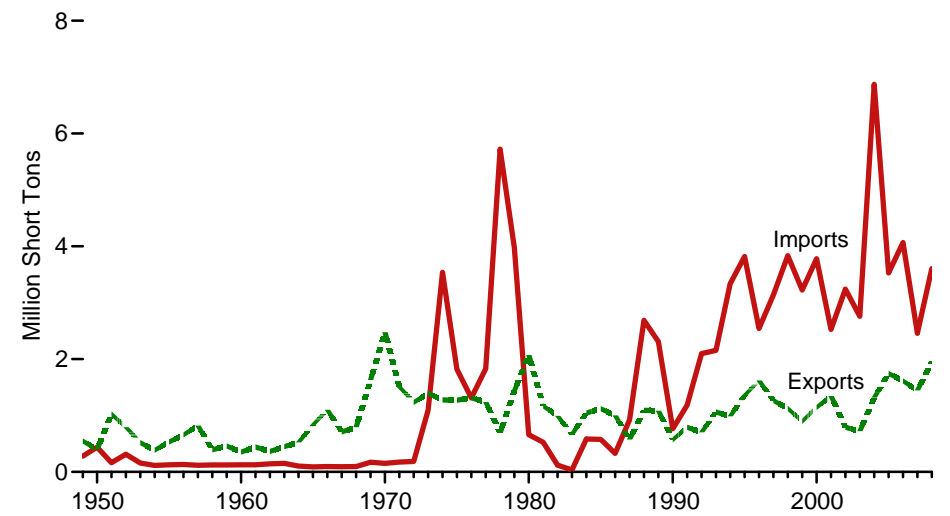
**Production and Consumption, 1949-2008**



**Overview, 2008**



**Trade, 1949-2008**



Source: Table 7.7.

**Table 7.7 Coke Overview, Selected Years, 1949-2008**  
(Million Short Tons)

Year	Production	Trade			Stock Change <sup>2</sup>	Consumption <sup>3</sup>
		Imports	Exports	Net Imports <sup>1</sup>		
1949	63.6	0.3	0.5	-0.3	0.2	63.2
1950	72.7	.4	.4	(s)	-7	73.4
1955	75.3	.1	.5	-4	-1.2	76.1
1960	57.2	.1	.4	-2	.1	56.9
1965	66.9	.1	.8	-7	.7	65.4
1970	66.5	.2	2.5	-2.3	1.0	63.2
1971	57.4	.2	1.5	-1.3	-6	56.7
1972	60.5	.2	1.2	-1.0	-6	60.0
1973	64.3	1.1	1.4	-3	-1.7	65.8
1974	61.6	3.5	1.3	2.3	-2	64.1
1975	57.2	1.8	1.3	.5	4.1	53.7
1976	58.3	1.3	1.3	(s)	1.5	56.8
1977	53.5	1.8	1.2	.6	(s)	54.1
1978	49.0	5.7	.7	5.0	-2.9	56.9
1979	52.9	4.0	1.4	2.5	1.7	53.8
1980	46.1	.7	2.1	-1.4	3.4	41.3
1981	42.8	.5	1.2	-6	-1.9	44.0
1982	28.1	.1	1.0	-9	1.5	25.8
1983	25.8	(s)	.7	-6	-4.7	29.9
1984	30.4	.6	1.0	-5	.2	29.7
1985	28.4	.6	1.1	-5	-1.2	29.1
1986	24.9	.3	1.0	-7	-5	24.7
1987	26.3	.9	.6	.3	-1.0	27.7
1988	28.9	2.7	1.1	1.6	.5	30.0
1989	28.0	2.3	1.1	1.2	.3	28.9
1990	27.6	.8	.6	.2	(s)	27.8
1991	24.0	1.2	.8	.4	.2	24.2
1992	23.4	2.1	.7	1.4	-2	25.0
1993	23.2	2.2	1.1	1.1	-4	24.7
1994	22.7	3.3	1.0	2.4	-5	25.6
1995	23.7	3.8	1.4	2.5	.4	25.8
1996	23.1	2.5	1.6	.9	(s)	24.0
1997	22.1	3.1	1.3	1.9	(s)	24.0
1998	20.0	3.8	1.1	2.7	-4	23.1
1999	20.0	3.2	.9	2.3	-1	22.4
2000	20.8	3.8	1.1	2.6	.2	23.2
2001	18.9	2.5	1.3	1.2	-1	20.2
2002	16.8	3.2	.8	2.5	-4	19.6
2003	17.2	2.8	.7	2.0	-2	19.4
2004	16.9	6.9	1.3	5.6	(s)	22.5
2005	16.7	3.5	1.7	1.8	.3	18.2
2006	16.4	4.1	1.6	2.5	.1	18.8
2007	16.2	2.5	1.4	1.0	-1	17.3
2008 <sup>P</sup>	15.6	3.6	2.0	1.6	.3	17.0

<sup>1</sup> Net imports equal imports minus exports. Minus sign indicates exports are greater than imports.

<sup>2</sup> Producer and distributor stocks at end of year. A negative value indicates a decrease in stocks; a positive value indicates an increase.

<sup>3</sup> "Consumption" is calculated as the sum of production and imports minus exports and stock change.

P=Preliminary. (s)=Less than 0.05 million short tons.

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

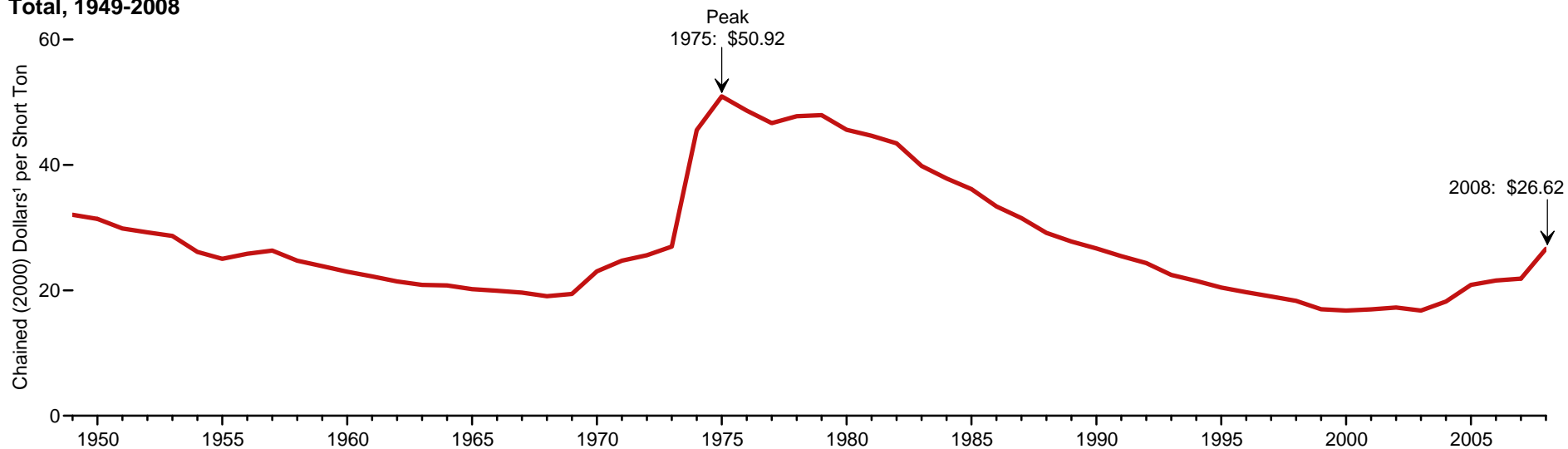
Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/coal.html>.

• For related information, see <http://www.eia.doe.gov/fuelcoal.html>.

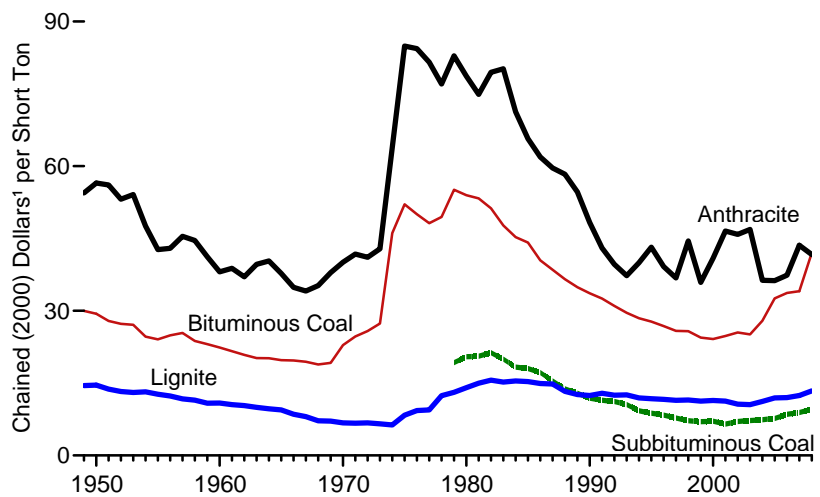
Sources: • 1949-1975—Bureau of Mines, *Minerals Yearbook*, "Coke and Coal Chemicals" chapter.  
• 1976-1980—Energy Information Administration (EIA), Energy Data Report, *Coke and Coal Chemicals*, annual reports. • 1981-2001—EIA, *Quarterly Coal Report (QCR) October-December*, quarterly reports.  
• 2002 forward—EIA, *QCR October-December 2008* (April 2009), Table ES-2.

**Figure 7.8 Coal Prices**

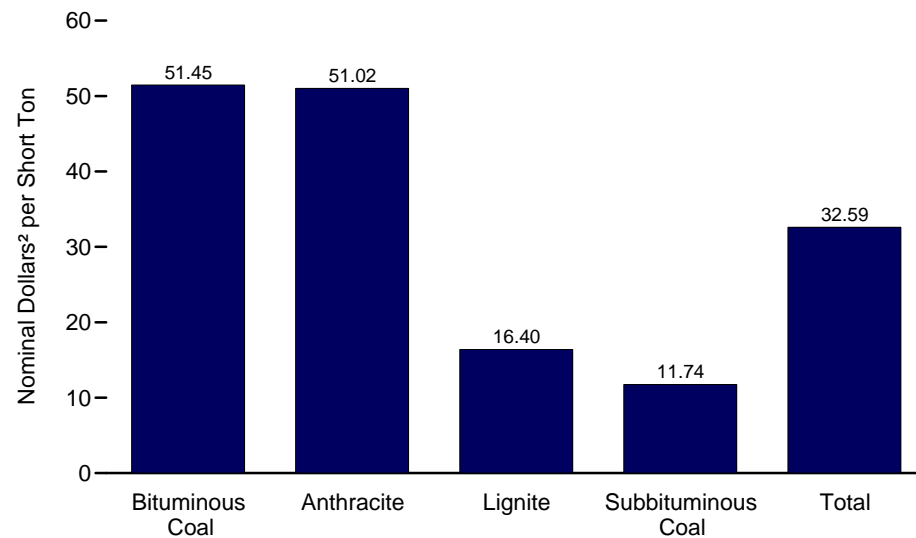
**Total, 1949-2008**



**By Type, 1949-2008**



**By Type, 2008**



<sup>1</sup> Calculated by using gross domestic product implicit price deflators. See Table D1.

<sup>2</sup> See "Nominal Dollars" in Glossary.

Source: Table 7.8.

**Table 7.8 Coal Prices, Selected Years, 1949-2008**

(Dollars per Short Ton)

Year	Bituminous Coal		Subbituminous Coal		Lignite <sup>1</sup>		Anthracite		Total	
	Nominal <sup>2</sup>	Real <sup>3</sup>	Nominal <sup>2</sup>	Real <sup>3</sup>	Nominal <sup>2</sup>	Real <sup>3</sup>	Nominal <sup>2</sup>	Real <sup>3</sup>	Nominal <sup>2</sup>	Real <sup>3</sup>
1949	4.90	<sup>4</sup> 29.97	( <sup>4</sup> )	( <sup>4</sup> )	2.37	14.49	8.90	54.43	5.24	32.05
1950	<sup>4</sup> 4.86	<sup>4</sup> 29.40	( <sup>4</sup> )	( <sup>4</sup> )	2.41	14.58	9.34	56.50	5.19	31.40
1955	<sup>4</sup> 4.51	<sup>4</sup> 24.06	( <sup>4</sup> )	( <sup>4</sup> )	2.38	12.70	8.00	42.68	4.69	25.02
1960	<sup>4</sup> 4.71	<sup>4</sup> 22.38	( <sup>4</sup> )	( <sup>4</sup> )	2.29	10.88	8.01	38.07	4.83	22.96
1965	<sup>4</sup> 4.45	<sup>4</sup> 19.75	( <sup>4</sup> )	( <sup>4</sup> )	2.13	9.45	8.51	37.76	4.55	20.19
1970	<sup>4</sup> 6.30	<sup>4</sup> 22.88	( <sup>4</sup> )	( <sup>4</sup> )	1.86	6.76	11.03	40.06	6.34	23.03
1971	<sup>4</sup> 7.13	<sup>4</sup> 24.66	( <sup>4</sup> )	( <sup>4</sup> )	1.93	6.68	12.08	41.78	7.15	24.73
1972	<sup>4</sup> 7.78	<sup>4</sup> 25.79	( <sup>4</sup> )	( <sup>4</sup> )	2.04	6.76	12.40	41.11	7.72	25.59
1973	<sup>4</sup> 8.71	<sup>4</sup> 27.35	( <sup>4</sup> )	( <sup>4</sup> )	2.09	6.56	13.65	42.86	8.59	26.97
1974	<sup>4</sup> 16.01	<sup>4</sup> 46.11	( <sup>4</sup> )	( <sup>4</sup> )	2.19	6.31	22.19	63.90	15.82	45.56
1975	<sup>4</sup> 19.79	<sup>4</sup> 52.08	( <sup>4</sup> )	( <sup>4</sup> )	3.17	8.34	32.26	84.89	19.35	50.92
1976	<sup>4</sup> 20.11	<sup>4</sup> 50.03	( <sup>4</sup> )	( <sup>4</sup> )	3.74	9.30	33.92	84.39	19.56	48.66
1977	<sup>4</sup> 20.59	<sup>4</sup> 48.16	( <sup>4</sup> )	( <sup>4</sup> )	4.03	9.43	34.86	81.54	19.95	46.66
1978	<sup>4</sup> 22.64	<sup>4</sup> 49.48	( <sup>4</sup> )	( <sup>4</sup> )	5.68	12.41	35.25	77.04	21.86	47.77
1979	27.31	55.12	9.55	19.27	6.48	13.08	41.06	82.87	23.75	47.93
1980	29.17	53.98	11.08	20.50	7.60	14.06	42.51	78.66	24.65	45.61
1981	31.51	53.30	12.18	20.60	8.85	14.97	44.28	74.90	26.40	44.66
1982	32.15	51.25	13.37	21.31	9.79	15.61	49.85	79.47	27.25	43.44
1983	31.11	47.71	13.03	19.98	9.91	15.20	52.29	80.19	25.98	39.84
1984	30.63	45.27	12.41	18.34	10.45	15.45	48.22	71.27	25.61	37.85
1985	30.78	44.15	12.57	18.03	10.68	15.32	45.80	65.70	25.20	36.15
1986	28.84	40.48	12.26	17.21	10.64	14.93	44.12	61.92	23.79	33.39
1987	28.19	38.51	11.32	15.47	10.85	14.82	43.65	59.63	23.07	31.52
1988	27.66	36.54	10.45	13.81	10.06	13.29	44.16	58.34	22.07	29.16
1989	27.40	34.88	10.16	12.93	9.91	12.62	42.93	54.65	21.82	27.78
1990	27.43	33.62	9.70	11.89	10.13	12.42	39.40	48.29	21.76	26.67
1991	27.49	32.55	9.68	11.46	10.89	12.90	36.34	43.03	21.49	25.45
1992	26.78	31.00	9.68	11.21	10.81	12.51	34.24	39.64	21.03	24.34
1993	26.15	29.59	9.33	10.56	11.11	12.57	32.94	37.27	19.85	22.46
1994	25.68	28.45	8.37	9.27	10.77	11.93	36.07	39.96	19.41	21.50
1995	25.56	27.75	8.10	8.79	10.83	11.76	39.78	43.19	18.83	20.44
1996	25.17	26.82	7.87	8.39	10.92	11.64	36.78	39.19	18.50	19.71
1997	24.64	25.82	7.42	7.78	10.91	11.43	35.12	36.81	18.14	19.01
1998	24.87	25.78	6.96	7.21	11.08	11.49	42.91	44.48	17.67	18.32
1999	23.92	24.44	6.87	7.02	11.04	11.28	35.13	35.90	16.63	16.99
2000	24.15	24.15	7.12	7.12	11.41	11.41	40.90	40.90	16.78	16.78
2001	25.36	24.77	6.67	6.51	11.52	11.25	47.67	46.55	17.38	16.97
2002	26.57	25.50	7.34	7.05	11.07	10.63	47.78	45.86	17.98	17.26
2003	26.73	25.12	7.73	7.26	11.20	10.53	49.87	46.87	17.85	16.78
2004	30.56	27.92	8.12	7.42	12.27	11.21	39.77	36.33	19.93	18.21
2005	36.80	<sup>R</sup> 32.56	8.68	7.68	13.49	<sup>R</sup> 11.93	41.00	<sup>R</sup> 36.27	23.59	<sup>R</sup> 20.87
2006	39.32	<sup>R</sup> 33.70	9.95	<sup>R</sup> 8.53	14.00	<sup>R</sup> 12.00	43.61	<sup>R</sup> 37.38	25.16	<sup>R</sup> 21.56
2007	<sup>R</sup> 40.80	<sup>R</sup> 34.05	<sup>R</sup> 10.69	<sup>R</sup> 8.92	14.89	<sup>R</sup> 12.43	<sup>R</sup> 52.24	<sup>R</sup> 43.60	<sup>R</sup> 26.20	<sup>R</sup> 21.87
2008 <sup>E</sup>	51.45	42.03	11.74	9.59	16.40	13.40	51.02	41.68	32.59	26.62

<sup>1</sup> Because of withholding to protect company confidentiality, lignite prices exclude Texas for 1955-1977 and Montana for 1974-1978. As a result, lignite prices for 1974-1977 are for North Dakota only.

<sup>2</sup> See "Nominal Dollars" in Glossary.

<sup>3</sup> In chained (2000) dollars, calculated by using gross domestic product implicit price deflators in Table D1. See "Chained Dollars" in Glossary.

<sup>4</sup> Through 1978, subbituminous coal is included in "Bituminous Coal."

R=Revised. E=Estimate.

Note: Prices are free-on-board (F.O.B.) rail/barge prices, which are the F.O.B. prices of coal at the point of first sale, excluding freight or shipping and insurance costs. See "Free on Board (F.O.B.)" in Glossary.

Web Pages: • For all data beginning in 1949, see <http://www.eia.doe.gov/emeu/aer/coal.html>.

• For related information, see <http://www.eia.doe.gov/fuelcoal.html>.

Sources: • 1949-1975—Bureau of Mines (BOM), *Minerals Yearbook*. • 1976—Energy Information Administration (EIA), Energy Data Report, *Coal—Bituminous and Lignite in 1976*, and BOM, *Minerals Yearbook*. • 1977 and 1978—EIA, Energy Data Reports, *Bituminous Coal and Lignite Production and Mine Operations*, and *Coal—Pennsylvania Anthracite*. • 1979—EIA, *Coal Production*, and Energy Data Report, *Coal—Pennsylvania Anthracite*. • 1980-1992—EIA, *Coal Production*, annual reports. • 1993-2000—EIA, *Coal Industry Annual*, annual reports and unpublished revisions. • 2001-2007—EIA, *Annual Coal Report*, annual reports. • 2008—EIA, Form EIA-7A, "Coal Production Report," and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

## Coal

**Note 1. Coal Consumption.** Data in this report on the consumption of bituminous coal, subbituminous coal, lignite, anthracite, and waste coal are developed primarily from consumption data reported in surveys. Included are data reported by all electric power companies and coke plant companies. Data on coal consumption by all industrial and manufacturing establishments are based on consumption data obtained quarterly from coal users. Data on coal consumption by the residential and commercial sectors are based on distribution data obtained annually from coal distributors. Included in each sector's data are the following: Residential and Commercial Sectors—retail dealer sales to households and small commercial establishments; Industrial Sector—consumption at manufacturing plants, large commercial establishments, coking plants, and by agriculture, mining (other than coal mining), and construction industries; Transportation Sector—sales to railroads and for vessel bunkering; Electric Power Sector (electric utilities and independent power producers)—consumption for electricity generation and useful thermal output at electricity-only and CHP plants within the North American Industry Classification System (NAICS) 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

**Note 2. Residential and Commercial Coal Consumption Estimates.** Coal consumption by the residential and commercial sectors is reported to the Energy Information Administration (EIA) for the two sectors combined; EIA estimates the amount consumed by the sectors individually. To create the estimates, it is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oil-heated housing unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1950, 1960, 1970, 1973–1981, and subsequent odd-numbered years; see Table 2.7), residential consumption of coal is estimated by the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of housing units heated by oil; that ratio is then multiplied by the Btu quantity of oil consumed by the residential sector to derive an estimate of the Btu quantity of coal consumed by the residential sector; and, finally, the amount estimated as the residential sector consumption is subtracted from the residential and commercial sectors' combined consumption to derive the commercial sector's estimated consumption. The 1950 share is applied to 1949, and the other missing years' shares are interpolated.