



**Table TN1. Coking Coal State Group Price and Adjacent State Price Assignments, 1970-2004**

State	Years	State or Division Prices Assigned
AL	1999, 2001–2004 2000	East South Central U.S.
CA	1970–1982	CA, CO, UT
CO	1970–1982	CA, CO, UT
IL	1986–1998	IN
IN	1999–2004 1997–2000	East North Central East North Central
KY	1970–1987 1988–1998	KY, MO, TN, TX OH
MD	1999–2004 1970, 1971 1983–1991, 1993	East South Central MD, NJ, NY PA
MI	1979 1980–1985, 1987 1988–1991, 1993–1998	MI, MN, WI MI, WI OH
MN	1999–2004 1970–1978	East North Central MN, WI
MO	1979 1970–1987 1988	MI, MN, WI KY, MO, TN, TX AL
NJ	1970, 1971	MD, NJ, NY
NY	1970, 1971 1972–1982 1983–1998 1999	MD, NJ, NY MD, NY PA Middle Atlantic
OH	2000–2004	East North Central
PA	1997–2004 1997–1999 2000–2004	East North Central Middle Atlantic East North Central
TN	1970–1987 1988–1991	KY, MO, TN, TX AL
TX	1970–1987	KY, MO, TN, TX
UT	1970–1982 1983–1986 1988–1998	CA, CO, UT TX IN
VA	1999–2001 1970, 1971, 1976, 1977 1978–1982 1983–1986 1987–1998	East North Central WV VA, WV KY OH
WI	1999–2004 1970–1978 1979	East North Central MN, WI MI, MN, WI
WV	1980–1985, 1987 1978–1982 1983–1986 1987–1998 1999–2004	MI, WI VA, WV KY OH East North Central

<http://www.eia.doe.gov/cneaf/coal/page/acr/backissues.html>. Data are from the report of the following year (e.g. final 2005 data in *Annual Coal Report 2006*), except the most recent year of data.

1996 through 1999: EIA, *Coal Industry Annual 2000*, Table 96.

1981 through 1995: EIA, *Quarterly Coal Report*, October-December issue, Table A3 (1981–1991), Table 39 (1992–1994), and Table 31 (1995), <http://tonto.eia.doe.gov/FTP/ROOT/coal/qcrhistory.htm>.

1977 through 1980: EIA, *Coke and Coal Chemicals*, Table 19 (1977), Table 15 (1978), and Table 7 (1979, 1980).

1970 through 1976: Bureau of Mines, U.S. Department of the Interior, *Minerals Yearbook*, “Coke and Coal Chemicals” chapter, Table 22.

### Consumption

1970 forward: EIA, State Energy Data System, coking coal consumption.

### Conversion Factors: All Years

Conversion factors for all States and years can be found in the ASCII comma-delimited data file at [http://www.eia.doe.gov/emeu/states/seds\\_updates\\_tech\\_notes.html](http://www.eia.doe.gov/emeu/states/seds_updates_tech_notes.html).

## Steam Coal

Steam coal is used in all sectors. Price data are generally available in the electric power, residential, and industrial sectors. However, no price data are directly available in the transportation and commercial sectors, and industrial sector steam coal prices are assigned to these two sectors. Data sources and calculations for estimating coal prices are discussed by sector. Estimates of the amount of steam coal consumed by sector are taken from SEDS and are adjusted for process fuel consumption in the industrial sector. (See the discussion in Section 7, “Consumption

Adjustments for Calculating Expenditures,” at [http://www.eia.doe.gov/emeu/states/seds\\_updates\\_tech\\_notes.html](http://www.eia.doe.gov/emeu/states/seds_updates_tech_notes.html).)

## Residential Sector

Residential sector steam coal price estimates are intended to represent the average prices for coal purchased by residential customers and include taxes.

### Physical Unit Prices: 1979 Forward

Residential steam coal Btu prices for 1979 forward are not available. Spot prices for coal paid by the electric power sector are used in a regression equation to estimate residential steam coal prices for 1979 forward. The residential steam coal prices calculated for 1974 through 1978 from the American Gas Association *Gas Househeating Survey (GHS)* and the average Btu spot prices from the EIA *Cost and Quality of Fuels for Electric Utility Plants (C&Q)* for 1974 through 1978 are used to develop the regression equation. Electric power coal spot prices from the *C&Q* for 1979 forward are converted from cents per million Btu to dollars per million Btu.

Some States have *GHS* residential prices during the 1974 through 1978 period to use in the regression analysis, but are missing electric power sector prices in the 1979 forward data used to calculate prices. For these missing data, spot prices are assigned from other States for use in the regression, as shown in Table TN2. *C&Q* prices for ND and MT for some years result in a negative price when used in the regression; therefore MN spot prices are assigned to ND for use in the regression and the WY final residential sector steam coal price is assigned to MT as shown in Tables TN2 and TN3.

Price estimates for 1974 through 1978 for some States are not available because there was no consumption. To calculate prices for 1979 forward, these States are assigned the final prices from selected States as shown in Table TN3. In addition, several States are assigned the simple average of the final prices of adjacent States as shown in Table TN3. Alaska residential coal prices are estimated by using a different methodology, described on page 14.

**Table TN2. Residential Sector: Electric Power Coal Spot Price Assignments, 1979 Forward**

State	Years	State Prices Assigned
CO	1979, 1981	KS
CT	1975	NY
	1976–1979, 2001–2006	NH
	1980–1987, 1993–1995, 2000	MA
DC	1976–1999	MD
	2001–2005	VA
ID	1974, 1979–1982, 1996–2005	NV
	1975–1977	SD
	1978	ND
	1983–1995	CO
	2006	UT
MA	1975	VT
	1976–1979, 2001	NH
MD	2001–2006	VA
ME	1974, 1975, 1981, 1983	VT
	1976–1980, 1982, 1986, 1996–2006	NH
	1984, 1985	MA
MN	2005, 2006	IA
MT	1974, 1975, 1978	ND
	1976, 1977	SD
	1979–1982	NV
ND	1976, 1977	SD
	1979–2001	MN
NH	1974, 1975, 1981, 1983	VT
	1984, 1985	MA
NV	1975–1978, 1983–1989, 1992, 1993, 1995	CO
	2006	UT
PA	2006	OH
RI	1974	CT
	1975	VT
	1976–1979, 2001–2006	NH
	1980–2000	MA
SD	1978, 1984	ND
	1979–1983, 1986, 1987, 1989, 1991–2001	MN
	2005	IA
UT	1975–1978, 1980, 1983, 2000	CO
	1979	NV
VT	1976, 1980, 2001–2006	NH
	1984–2000	MA
WA	1970, 2001–2006	OR
	1974–1978, 1983–1985	CO
	1979–1982	NV
WY	1974–1976, 1978, 1982, 1983, 1985, 2005, 2006	CO

**Table TN3. Residential Sector Coal Final Price Assignments, 1979 Forward**

State	Years	State and Averaged Final Prices Assigned
AR	1980, 1982, 1984, 1985, 1987–1995, 1998 2002, 2004–2006	AL
	1999	MO
	1981	MO, OK, TN, TX
	1983	MO, MS, OK, TN
AZ	1982, 1984, 1985	CA, NM, NV, UT
	1987, 1988, 1990–1995, 1998–2006	UT
CA	1979–1985	NV
	1987–2004	WA
	2005, 2006	UT
FL	1980–1996, 1998, 1999–2002 2003–2006	GA AL
LA	1980, 1982, 1984, 1986, 1988, 1991, 1993, 1995, 1997, 2000	AL
MS	1979, 1980, 1983, 1984, 1986–1995, 1997 1985	AL AL, AR, TN
MT	1986–2002	WY
NM	1979–2006	CO
OK	1979–1999, 2001–2006	CO
OR	1979, 1980, 1982–2000 1981	WA CA, ID, NV, WA
TX	1980–1982, 1985–2006	CO

**Physical Unit Prices: 1971 Through 1978**

For 1971 through 1978, Btu steam coal prices are calculated by using data from *GHS*. The price for a State is equal to the simple average of the city/utility price observations for that State. For 1971 and 1972, *GHS* reports physical unit prices rather than Btu prices (as published for 1973 through 1978) and, therefore, the State-level conversion factors for this sector from SEDS are used to convert to Btu prices for those years. AK residential coal prices are estimated by using a different methodology, described on page 14.

A simple average of price observations in CT, MA, ME, NH, RI, and VT is assigned to each of these States. To impute other missing prices

in the 1971 through 1978 period, States are assigned simple averages of adjacent State prices or are directly assigned the single price of an adjacent or nearby State as listed in Table TN4.

**Physical Unit Prices: 1970**

Since State-level coal price data for 1970 are not available from either *GHS* or *C&Q*, the 1970 residential sector coal prices are calculated by using the 1971 through 1978 data from the *Statistical Yearbook* for the 39 States, with some reported coal use from 1971 through 1983 and regression analysis.

For estimating the 1970 prices, States missing *Statistical Yearbook* data are assigned prices as follows: ID for 1970 through 1978 from MT; MA for 1976 through 1978 from CT; ME for 1970 through 1978 from NH; RI for 1973 and 1975 through 1978 from CT; and WA for 1970 through 1972 from OR. DC, DE, and MD are all assigned the combined *Statistical Yearbook* price for those States. Wherever individual State prices are unavailable, prices are assigned from an adjacent or nearby State as follows: CA from NV; NM from CO; OK from CO; OR from WA; and TX from CO. AK residential coal prices are estimated by using a different methodology, described as follows.

**Alaska Prices: All Years**

The AK residential coal prices for 1994 forward are estimated from an informal survey of the single coal supplier in the State.

The AK residential Btu prices for 1978 through 1993 are estimated from the WA State prices during that period. To estimate the AK price for each year that AK has consumption, the average ratio of AK-to-WA prices during 1970 through 1977 is applied to the WA price.

AK physical unit prices for 1970 through 1977 are estimated by using the ratio of AK-to-U.S. electric utility sector prices.

**Table TN4. Residential Sector Spot Coal Price Assignments, 1971-1978**

State	Years	State Assigned or Averaged Prices
AL	1971	TN
AR	1977, 1978	AL
CA	1971, 1972, 1974, 1978	NV
DC	1971-1978	MD
DE	1971, 1972, 1974, 1976, 1977	MD
GA	1971	NC, TN
	1972	AL, NC, TN
ID	1977	MT, UT, WY
KS	1971, 1972	CO, MO
MN	1971	IA, ND, WI
	1972	IA, WI
MS	1978	AL
MT	1971	ID, ND, WY
	1972, 1973	ID, WY
ND	1972	IA, WI
	1973	MN, SD
	1974	MN, MT, SD
NE	1971, 1972	CO, IA, MO, WY
	1975	CO, IA, KS, MO, SD, WY
NJ	1971, 1972, 1974, 1977, 1978	DE, NY, PA
NM	1971	CO
NV	1971, 1972, 1975	ID, UT
	1973	ID, OR, UT
OK	1971-1978	CO
OR	1971-1978	WA
SC	1971, 1972	NC
SD	1971	IA, ND, WY
	1972	IA, WY
TX	1971-1974, 1977	CO
UT	1974, 1978	CO, ID, NV, WY
WA	1971, 1972, 1974	ID
	1977	MT, UT, WY
WV	1971, 1972	KY, MD, OH, PA, VA

**Btu Prices: All Years**

Btu prices for States are calculated from the physical unit prices and the conversion factors for coking coal. U.S. Btu prices are calculated as the

average of the State Btu prices, weighted by consumption data from SEDS.

**Data Sources**

**Prices**

1994 forward: Alaska price estimated from informal discussions with Usibelli Coal Mine Co., the only coal supplier in Alaska.

1974 forward: EIA, *Cost and Quality of Fuels for Electric Plants*, average spot coal prices, Table 2 (1974-1979), Table 44 (1980 through 1982), Table 49 (1983, 1984), Table 39 (1985-1989), Table 8 (1990, 1991), and Table 3 (1992 forward), [http://www.eia.doe.gov/cneaf/electricity/cq/cq\\_sum.html](http://www.eia.doe.gov/cneaf/electricity/cq/cq_sum.html) and [http://www.eia.doe.gov/cneaf/electricity/cq/cq\\_sum\\_backissues.html](http://www.eia.doe.gov/cneaf/electricity/cq/cq_sum_backissues.html).

1971 through 1978: American Gas Association, *Gas Househeating Survey*, table titled “Competitive Fuel Prices.”

1970 through 1978: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, Table 43S.

**Consumption**

1970 forward: EIA, State Energy Data System, residential sector coal consumption.

**Conversion Factors: 1971, 1972**

Conversion factors can be found in the ASCII comma-delimited data file “fuel\_convfac.csv” at [http://www.eia.doe.gov/emeu/states/sep\\_fuel/html/csv/fuel\\_convfac.csv](http://www.eia.doe.gov/emeu/states/sep_fuel/html/csv/fuel_convfac.csv).

**Commercial Sector**

Commercial sector prices are assigned industrial steam coal prices. States without Btu industrial steam coal prices are assigned the prices from adjacent States, as shown in Table TN5. The Alaska prices for

**Table TN5. Commercial Sector Final Price Assignments**

State	Years	State Prices Assigned
CT	1980 1995–2004, 2006	NY MA
DC	1980–2005	MD
NH	1994, 1996–2006	MA
OK	1970	KS
OR	1999–2000	WA
RI	1982, 1983, 1991–2006	MA
VT	1993–1997, 2000, 2005, 2006	MA

1994 forward are estimated from an informal survey of the single coal supplier in the State. U.S. Btu prices are calculated as the average of all States' Btu prices, weighted by consumption data from SEDS.

## Industrial Sector

Industrial coal prices from 1980 forward are taken from Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing Plants," and predecessor forms, which collects quarterly data on manufacturers' coal stocks, receipts, prices, and consumption. From 1980 through 1988, all manufacturers that consumed coal were required to respond to Form EIA-3. Beginning in 1989, data are collected from only those manufacturers that consumed 1,000 or more tons per year. Data prior to 1980 are based on the average cost of coal sold to manufacturing firms, which was reported on a monthly basis.

### Physical Unit Prices: 1980 Forward

For 1984 forward, State prices are published in the EIA *Annual Coal Report* and predecessor publications. Prices include insurance, freight, and taxes. Price data for 1980 through 1983 are taken directly from Form EIA-3, and predecessor forms.

Prices for States in which data are withheld or unavailable are estimated by using simple averages of the published data for adjacent States. In a

few cases, only a single adjacent State or Census division price is published and, therefore, available for the estimation. The adjacent State and Census division price assignments used for estimations are shown in Table TN6. Washington prices are withheld for 1999 forward. Washington prices are historically higher than the Census division price; therefore, the average ratio of the Washington to the Pacific Division prices for 1995 through 1998 is applied to the 1999 forward Pacific Division prices to estimate the Washington prices for those years. In 2002, the price for the Pacific Division is withheld and is estimated using the average Pacific Division price from 1999 through 2001. In 2002, the price for the New England Division also is withheld and is estimated by applying the average ratio of the New England Division price to the East North Central price from 1995 through 1998 to the 2002 East North Central Division price. The New England Division price is again withheld in 2006 and is estimated by applying the average ratio of the New England Division price to the East North Central price from 2003 through 2005 to the 2006 East North Central Division price. Price estimates for Alaska are explained on page 18.

### Physical Unit Prices: 1971, 1974 Through 1979

For 1971, and 1974 through 1979, available cost and quantity of bituminous coal, lignite, and anthracite from the *Annual Survey of Manufacturers (ASM)* or *Census of Manufacturers (CM)* are used to calculate prices as average cost per unit of sales for covered States. (States with undisclosed data are not considered covered.) Although it is not clear from the data sources, the prices probably include taxes.

For States with industrial steam coal use and for which *ASM* or *CM* data are not available in 1971 and 1974 through 1979, adjacent State simple averages of available *ASM/CM* data are used to impute prices. The assigned prices from adjacent States are shown in Table TN7.

### Physical Unit Prices: 1970, 1972, 1973

Steam coal industrial sector prices for 1970, 1972, and 1973 (years for which no *ASM/CM* prices are available) are estimated by using regression techniques. Values for the independent variable are steam coal electric utility sector physical unit prices, and values for the dependent variable are the steam coal industrial physical unit prices (from *ASM* or

**Table TN6. Industrial Sector Steam Coal Price Assignments, 1980 Forward**

State	Years	Prices Used in the Assignment	State	Years	Prices Used in the Assignment
AZ	1980	CA, UT	NJ	1980–1997, 2000–2006	NY, PA
	1981, 1984–1986	CA, CO, UT		1998, 1999	PA
CO	1980	KS, UT	NM	1980	TX, UT
	2000	UT, WY		1981	CO, OK, TX
	2001	KS, NE, OK, UT, WY		1982, 1983	AZ, CO, OK, TX
	2002, 2003	KS, NE, UT, WY		1984–1986	CO, OK, TX, UT
	2004–2006	AZ, KS, NE, OK, UT, WY		1987	AZ, CO, OK, TX, UT
CT	1981–1994, 2005, 2006	New England		1988–1999	AZ, CO, TX, UT
DC	1980, 1981	MD		2000, 2002, 2003	AZ, TX, UT
DE	1980–2003	MD		2001, 2004–2006	AZ, OK, TX, UT
	2004–2006	MD, PA	NV	1980, 1981, 1984–1986	CA, ID, UT
FL	1980	AL, GA		1983, 1987–1998, 2000–2006	AZ, CA, ID, UT
HI	1982, 1983, 1987–2006	CA		1999	AZ, CA, UT
ID	1999	UT, WY	NY	1998, 1999	PA
KS	2000	MO	OK	1980	AR, KS, MO, TX
LA	1980–2006	AR, TX		1984–1999	AR, CO, KS, MO, TX
MA	1980–1983	NY		2000	AR, MO, TX
	1984–2006	New England		2002, 2003	AR, KS, TX
ME	1980–1983	NY	OR	1980, 1981, 1983–1998	CA, ID, WA
	1984–2006	New England		1982	CA, ID, NV, WA
MS	1980–2006	AL, AR, TN		2002–2006	CA, ID
MT	1983, 1987–1990, 1992,	ID, WY	RI	1980, 1981	NY
	2003–2006			1984–1990	New England
	1984–1986	ID	SD	1980	IA, MN, MT
	1991, 1993–1998, 2000–2002	ID, SD, WY		1981	IA, MN, MT, NE
	1999	SD, WY		1982	IA, MN, MT, WY
ND	1980–1982	MN, MT		1983, 1987–1990, 1992–1995	IA, MN, WY
	1983–1990, 1992, 2003, 2005,	MN		1984–1986	IA, MN, NE
	2006			2003–2006	IA, MN, NE, WY
	1991, 1993–1998, 2000–2002	MN, SD	VT	1980–1983	NY
	1999	MN, SD, WY		1984–1992, 1997–1999	New England
NE	1980	IA, KS, MO	WV	1980	KY, MD, OH, PA, VA
	1982, 1983, 1987–1990, 1992	CO, IA, KS, MO, WY	WY	1980	ID, MT, UT
	1991, 1993–1999	CO, IA, KS, MO, SD, WY		1981	CO, ID, MT, NE, UT
	2000	IA, MO, SD, WY		1984–1986	CO, ID, NE, UT
NH	1980–1983	NY			
	1984–1993, 1995	New England			

estimated, as described above) for 1971, and 1974 through 1977. A few States are assigned electric utility prices for the dependent variable in

the regression, as shown in Table TN8 on page 19. Wherever individual State prices remain unavailable after the estimation that used the above

**Table TN7. Industrial Sector Steam Coal Price Assignments for 1971 and 1974-1979**

State	Years	State Prices Used in the Assignment	State	Years	State Prices Used in the Assignment
AR	1971, 1972, 1974, 1975 1979	MO, TN MO, TN, TX	MT	1974-1978 1979	MN, NE, UT MN, UT
AZ	1971 1974-1978	CA, NV, UT CA, UT	ND	1974-1979	MN
CO	1974-1978 1979	KS, NE, UT UT	NE	1979	IA, MO
CT	1974-1978 1979	MA, NY NY	NH	1971, 1974-1979	MA
DC	1971, 1974-1979	MD, VA	NM	1971 1974, 1976-1978	CO, OK, TX, UT KS, UT
DE	1971, 1974-1979	MD, NJ, PA	NV	1974 1975-1979	CA, OR, UT CA, UT
FL	1979	AL, GA	OK	1974, 1975 1976-1978	KS, MO AR, KS, MO
ID	1974 1975-1978	OR, UT UT	OR	1979 1975-1978	MO, TX CA
KS	1979	UT, WA	RI	1979 1971, 1974-1978	CA, WA MA
LA	1978 1979	MO TX	SD	1979 1971, 1974	NY IA
MA	1979	NY	TX	1975-1978 1979	IA, MN, NE IA, MN
ME	1975-1978 1979	MA NY	VT	1974, 1975 1976-1978	KS AR, KS
MS	1971, 1974, 1975, 1979 1976-1978	AL, TN AL, AR, TN	WA	1971, 1974-1978 1979	MA NY
MT	1974-1978 1979	MN, NE, UT MN, UT	WY	1974 1975-1978	CA, OR CA
ND	1974-1979	MN		1974-1978 1979	NE, UT UT
NE	1979	IA, MO			
NH	1971, 1974-1979	MA			
NM	1971 1974, 1976-1978 1979	CO, OK, TX, UT KS, UT UT			

regression techniques, prices are assigned from adjacent or nearby States, as shown in Table TN9 on page 19.

**Physical Unit Prices: Alaska, All Years**

The Alaska steam coal industrial sector prices for 1994, and 1996 forward, are estimated from an informal survey of the single coal supplier in the State. There is no steam coal consumption reported Alaska's industrial sector for 1995. For all other years with industrial steam coal use in Alaska (1993, and 1970 through 1977), prices are estimated by assuming that the ratio of the Alaska price to the U.S. price in the

**Table TN8. Industrial Sector Price Assignments Used in the Regression Equation for 1971, and 1974-1979**

State	Years	State Prices Assigned
AR	1973–1977	MO
CA	1970–1977	NV
CT	1975–1977	NY
DC	1976, 1977	MD
ID	1970–1977	MT
MA	1976, 1977	NH
ME	1970–1977	NH
OK	1973–1975	KS
OR	1973–1977	WA
TX	1970	NM
WA	1970–1972	OR

industrial sector is the same as the ratio of the Alaska and U.S. prices in the electric power sector.

**Btu Prices: All Years**

Btu prices for States are calculated from the physical unit prices and the conversion factors, which vary by State and by year. U.S. Btu prices are calculated as the average of all States’ Btu prices, weighted by consumption data from SEDS, adjusted for process fuel and coking coal consumption.

**Data Sources**

**Prices**

2000 forward: EIA, *Annual Coal Report*, Table 35 (2000), Table 34 (2001 forward), [http://www.eia.doe.gov/cneaf/coal/page/acr/acr\\_sum.html](http://www.eia.doe.gov/cneaf/coal/page/acr/acr_sum.html) and <http://www.eia.doe.gov/cneaf/coal/page/acr/backissues.html>. Data are from the report of the following year (e.g. final 2005 data in *Annual Coal Report 2006*), except the most recent year of data.

1991, 1996 through 1999: EIA, *Coal Industry Annual 2000*, Table 94.

**Table TN9. Industrial Sector Final Price Assignments for 1970, 1972 and 1973**

State	Years	State Prices Assigned
AR	1972	MO, TN
NH	1970, 1972, 1973	MA
RI	1970, 1972, 1973	MA
SD	1970, 1972, 1973	IA
VT	1970, 1972, 1973	MA

1988, 1993 through 1995: EIA, *Coal Industry Annual 1997*, Table 94.

1987 and 1992: EIA, *Coal Industry Annual 1996*, Table 94.

1985 and 1990: EIA, *Coal Industry Annual 1994*, Table 94.

1984 and 1989: EIA, *Coal Industry Annual 1993*, Table 94.

1986: EIA, *Coal Industry Annual 1995*, Table 94.

1980 through 1983: Form EIA-3, “Quarterly Coal Consumption Report–Manufacturing Plants,” Table 25 (1980), Table 11 (1981 and 1982), and Table 2 (1983).

1971, 1974 through 1979: Bureau of the Census, U.S. Department of Commerce, *Annual Survey of Manufacturers and Census of Manufactures*, Table 4 (1971) and Table 3 (1974–1979).

1970, 1972, 1973: Steam coal electric utility sector physical unit prices used in a regression equation with industrial sector prices from 1971 and 1974 through 1979.

**Consumption**

1970 forward: EIA, State Energy Data System, industrial (other than coke plants) coal consumption.

**Conversion Factors: All Years**

Conversion factors for all States and years can be found in the ASCII comma-delimited data file at [http://www.eia.doe.gov/emeu/states/seds\\_updates\\_tech\\_notes.html](http://www.eia.doe.gov/emeu/states/seds_updates_tech_notes.html).

**Transportation Sector**

Transportation use of coal accounted for 298 thousand short tons out of a total of 523,231 thousand short tons in 1970 and declined to none after 1977. Transportation sector steam coal prices are assigned from industrial sector steam coal prices. U.S. Btu prices are calculated as the average of the State Btu prices, weighted by SEDS consumption data.

**Electric Power Sector**

**Btu Prices: 2002 Forward**

State Btu prices, including insurance, freight, and taxes, are based on unpublished cost data from the Federal Energy Regulatory Commission, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants," and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," and are converted from cents per million Btu to dollars per million Btu. Where individual State prices for the electric power sector are withheld or unavailable, coal prices for the electric utility sector are used instead. When coal prices for both the electric power sector and electric utility sectors are not available, Census division electric power sector prices are assigned as shown in Table TN10.

**Btu Prices: 1973 Through 2001**

State Btu prices, including insurance, freight, and taxes, are taken from the *EIA Cost and Quality of Fuels for Electric Utility Plants* for 1973 through 2001 and are converted from cents to dollars per million Btu. Where individual State prices are withheld or unavailable, quantity-weighted Census division prices are assigned as shown in Table TN11. Price estimates for Alaska are explained below.

**Table TN10. Electric Power Sector Price Assignments, 2002 Forward**

State	Years	Prices Assigned
AL	2002, 2005	Electric utility
CA	2005, 2006	Electric power, Pacific
CT	2002, 2005, 2006	Electric power, New England
DE	2002, 2005, 2006	Electric power, South Atlantic
HI	2002, 2005, 2006	Electric power, Pacific
IN	2002, 2005, 2006	Electric utility
KY	2005, 2006	Electric utility
LA	2002, 2005, 2006	Electric utility
MA	2005	Electric utility
ME	2002, 2005, 2006	Electric power, New England
MI	2002, 2005, 2006	Electric utility
MN	2005	Electric utility
MS	2002, 2005, 2006	Electric utility
MT	2002, 2005, 2006	Electric utility
NC	2002, 2005, 2006	Electric utility
OH	2002, 2005	Electric utility
OK	2002, 2005, 2006	Electric utility
TX	2005, 2006	Electric utility
UT	2005, 2006	Electric utility
WA	2002, 2005, 2006	Electric power, Pacific
WI	2005, 2006	Electric utility
WY	2006	Electric utility

**Btu Prices: 1970 Through 1972**

Btu prices for States are taken from the Edison Electric Institute's *Statistical Yearbook* and are converted from cents to dollars. Delaware, DC, and Maryland are each assigned the combined price for the three States. The steam coal electric utility sector Alaska price for 1971 is estimated as discussed below.

**Alaska Prices: All Years**

The sources do not collect or publish prices for Alaska. The Alaska prices for 1994 forward are estimated from an informal survey of the single coal supplier in the State. Prior to that, Btu prices for Alaska are

**Table TN11. Electric Power Sector Price Assignments, 1973 Through 2001**

State	Years	State/Census Division Prices Assigned
CA	1989–2001	Pacific
CT	1975–1979, 2000, 2001	New England
DC	1976	MD, VA
HI	1990–2001	Pacific
MA	2001	New England
MD	2001	South Atlantic
ME	1990–2001	New England
OK	1973, 1974 1975	West South Central CO, KS, MO, NM, TX
OR	1983, 1989	Pacific
RI	1974	MA
VT	1980, 1983–1986	New England
WA	2001	Pacific

based on data from the Edison Electric Institute's *Statistical Yearbook*. For the years 1970, 1972, 1974, 1976, 1977, and 1979 through 1993, prices were taken directly from the *Statistical Yearbook*. Prices for 1971, 1973, 1975, and 1978 are estimated from the *Statistical Yearbook* prices for the United States and the average ratio of AK-to-U.S. prices for the years when AK prices are available. The 1971 and 1973 estimated prices are based on the average ratio for 1970 and 1972; the 1975 price is based on the average ratio for 1974 and 1976; and the 1978 price is based on the average ratio for 1977 and 1979.

**U.S. Prices: All Years**

U.S. Btu prices are calculated as the average of the State Btu prices, weighted by consumption data from SEDS.

**Data Sources**

**Prices**

2002 Forward: Unpublished data from the Federal Energy Regulatory Commission, FERC Form 423, “Monthly Report of Cost and Quality of Fuels for Electric Utility Plants,” and Form EIA-423, “Monthly Cost and Quality of Fuels for Electric Plants Report.”

1994 forward: Alaska price estimated from informal discussions with Usibelli Coal Mine Co., the only coal supplier in Alaska

2001: FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants," database, available via the EIA Web site at <http://www.eia.doe.gov/cneaf/electricity/page/ferc423.html>.

1973 through 2000: EIA, *Cost and Quality of Fuels for Electric Utility Plants*, <http://www.eia.doe.gov/cneaf/electricity/cq/backissues.html>, Table 3 (1973–1979), Table 51 (1980–1982), Table 50 (1983, 1984), Table 40 (1985–1989), Table 7 (1990, 1991), and Table 2 (1992 through 2000).

1970 through 1993: Edison Electric Institute, *Statistical Yearbook of the Electric Utility Industry*, table titled “Analysis of Fuel for Electric Generation: Total Electric Utility Industry” (1970–1988), Table 29 (1989–1993).

**Consumption**

1970 forward: EIA, State Energy Data System, electric power sector coal consumption.

**Conversion Factors: All Years**

Btu prices are taken directly from the data sources; no explicit conversion factors are used.

**Coal Coke,  
Imports and Exports**

Imports and exports of coal coke are components of total U.S. energy consumption and are accounted for in the industrial sector. Prices and values of imports and exports are developed only for the United States; no attempt is made to estimate State-level prices or expenditures. Prices are f.a.s. (free alongside ship) values and do not include taxes. The quantities of U.S. coal coke imports and exports are taken from SEDS.

**Physical Unit Prices: All Years**

For 1980 forward, the EIA *Coke Plant Report*, the EIA *Quarterly Coal Report*, and Bureau of the Census computer tapes provide physical unit coal coke import and export prices in dollars per short ton. For 1970 through 1979, *Coke and Coal Chemicals*, *International Coal*, and the *Minerals Yearbook* provide coal coke import and export physical unit quantities and values in short tons and dollars, respectively. Values are equivalent to expenditures.

**Btu Prices: All Years**

For 1980 forward, Btu prices are computed by dividing the physical unit prices by the conversion factor to calculate prices in dollars per million Btu. For 1970 through 1979, physical unit prices are computed by dividing the import and export values by their respective quantities, and Btu prices are computed by dividing the physical unit prices by the conversion factor.

**Data Sources**

**Prices**

1989 forward: Calculated by EIA using data from the Bureau of the Census, U.S. Department of Commerce, "Monthly Report IM 145" and "Monthly Report EM 545."

1981 through 1988: EIA, *Quarterly Coal Report*, October-December issues, Tables A11 and A13 (1981-1985) and Tables A10 and A12 (1986-1988).

1980: EIA, *Coke Plant Report*, Tables 7 and 8.

1978 through 1979: EIA, *Coke and Coal Chemicals 1979*, Tables 5 and 6.

1977: National Coal Association, *International Coal 1980*, tables titled "U.S. Imports of Solid Fuels and Customs Value" and "U.S. Exports of Coke and Value."

1976: EIA, *Coke and Coal Chemicals*, Tables 19 and 20.

1970 through 1975: Bureau of Mines, U.S. Department of the Interior, *Minerals Yearbook*, "Coke and Coal Chemicals" chapter, Tables 19 and 20.

**Consumption**

1970 forward: EIA, State Energy Data System, U.S. imports and exports of coal coke.

**Conversion Factor: All Years**

24.8 million Btu per short ton.