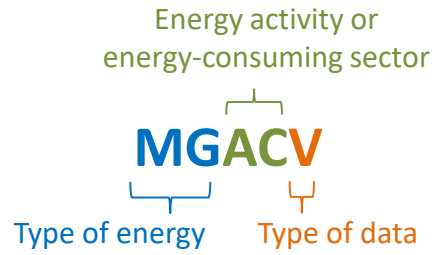


Appendix A. Mnemonic Series Names (MSN)

This appendix contains alphabetical listings of the variables used in the price and expenditure module of the State Energy Data System (SEDS). The first list presents the price and expenditure variables, and the second presents the consumption adjustment variables as described in Section 7, "Consumption Adjustments for Calculating Expenditures."

Provided for each variable are: a brief description; unit of measure; and the formulas used to create the variable. If a variable is not one calculated in SEDS but is entered into the system, it is described as an independent variable. Formulas for the state calculations have "ZZ" following the variable name, where "ZZ" represents the two-letter postal code of a state, and formulas for the United States have "US" following the variable name. If the formula for the states and the United States are the same, only one formula is shown.

Variables in SEDS have five-letter names that generally consist of the following components:



For a detailed explanation of the naming convention, see Section 1, "Documentation Guide."

In general, state-level price estimates are independent variables and are expressed in dollars per million Btu. Estimates of state-level expenditures are calculated by multiplying the appropriate consumption estimates by the corresponding prices and converting to million dollars. The consumption variables are taken from the SEDS consumption module and some are adjusted for process fuel, intermediate products, and fuels with no direct cost (see discussion in Section 7). Expenditures for the United States are the sum of the 50 states and the District of Columbia. Prices for the United States are the sum of the states' expenditures divided by the sum of the states'

consumption or adjusted consumption, converted to dollars per million Btu.

If the consumption variables in a formula are taken directly from the SEDS consumption module (i.e., not adjusted), they are listed in Appendix A of the Consumption Technical Notes (http://www.eia.gov/state/seds/sep_use/notes/use_a.pdf) and are not reproduced in this appendix. Generally, if the third and fourth letters of the consumption variables are the same as the corresponding price and expenditure variables, they are from the consumption module. Examples are: TC (total consumption), TX (total end-use consumption), RC (residential consumption), CC (commercial consumption), IC (industrial consumption), AC (transportation consumption), and EI (electric power sector consumption). Variables related to consumption adjustments are listed from page 140 onwards.

Table A1. Price and Expenditure Variables

MSN	Description	Unit	Formula
ARICD	Asphalt and road oil price in the industrial sector.	Dollars per million Btu	ARICDZZ is independent. ARICDUS = ARICVUS / ARICBUS * 1000
ARICV	Asphalt and road oil expenditures in the industrial sector.	Million dollars	ARICVZZ = ARICBZZ * ARICDZZ / 1000 ARICVUS = ΣARICVZZ
ARTCD	Asphalt and road oil average price, all sectors.	Dollars per million Btu	ARTCD = ARICD
ARTCV	Asphalt and road oil total expenditures.	Million dollars	ARTCV = ARICV
ARTXD	Asphalt and road oil average price, all end-use sectors.	Dollars per million Btu	ARTXD = ARTXV / ARTXB * 1000
ARTXV	Asphalt and road oil total end-use expenditures.	Million dollars	ARTXV = ARICV
AVACD	Aviation gasoline price in the transportation sector.	Dollars per million Btu	AVACDZZ is independent. AVACDUS = AVACVUS / AVACBUS * 1000
AVACV	Aviation gasoline expenditures in the transportation sector.	Million dollars	AVACVZZ = AVACBZZ * AVACDZZ / 1000 AVACVUS = ΣAVACVZZ
AVTCD	Aviation gasoline average price, all sectors.	Dollars per million Btu	AVTCD = AVACD
AVTCV	Aviation gasoline total expenditures.	Million dollars	AVTCV = AVACV
AVTXD	Aviation gasoline average price, all end-use sectors.	Dollars per million Btu	AVTXD = AVTXV / AVTXB * 1000
AVTXV	Aviation gasoline total end-use expenditures.	Million dollars	AVTXV = AVACV
CCEXD	Coal coke exports average price, United States.	Dollars per million Btu	CCEXDUS is independent.
CCEXV	Coal coke exports expenditures, United States.	Million dollars	CCEXVUS = CCEXBUS * CCEXDUS / 1000
CCIMD	Coal coke imports average price, United States.	Dollars per million Btu	CCIMDUS is independent.
CCIMV	Coal coke imports expenditures, United States.	Million dollars	CCIMVUS = CCIMBUS * CCIMDUS / 1000
CCNIV	Coal coke net imports expenditures, United States.	Million dollars	CCNIVUS = CCIMVUS - CCEXVUS
CLACD	Coal price in the transportation sector.	Dollars per million Btu	CLACDZZ is independent. CLACDUS = CLACVUS / CLACBUS * 1000
CLACV	Coal expenditures in the transportation sector.	Million dollars	CLACVZZ = CLACBZZ * CLACDZZ / 1000 CLACVUS = ΣCLACVZZ
CLCCD	Coal price in the commercial sector.	Dollars per million Btu	CLCCDZZ is independent. CLCCDUS = CLCCVUS / CLCCBUS * 1000
CLCCV	Coal expenditures in the commercial sector.	Million dollars	CLCCVZZ = CLCCBZZ * CLCCDZZ / 1000 CLCCVUS = ΣCLCCVZZ

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
CLEID	Coal price in the electric power sector.	Dollars per million Btu	CLEIDZZ is independent. CLEIDUS = CLEIVUS / CLEIBUS * 1000
CLEIV	Coal expenditures in the electric power sector.	Million dollars	CLEIVZZ = CLEIBZZ * CLEIDZZ / 1000 CLEIVUS = ΣCLEIVZZ
CLICD	Coal price in the industrial sector.	Dollars per million Btu	CLICD = CLICV / CLISB * 1000
CLICV	Coal expenditures in the industrial sector.	Million dollars	CLICVZZ = CLKCVZZ + CLOCVZZ CLICVUS = ΣCLICVZZ
CLKCD	Coal price at coke plants.	Dollars per million Btu	CLKCDZZ is independent. CLKCDUS = CLKCVUS / CLKCBUS * 1000
CLKCV	Coal expenditures at coke plants.	Million dollars	CLKCVZZ = CLKCBZZ * CLKCDZZ / 1000 CLKCVUS = ΣCLKCVZZ
CLOCD	Coal price in the industrial sector other than coke plants.	Dollars per million Btu	CLOCDZZ is independent. CLOCDUS = CLOCVUS / CLOSBUS * 1000
CLOCV	Coal expenditures in the industrial sector other than coke plants.	Million dollars	CLOCVZZ = CLOSBZZ * CLOCDZZ / 1000 CLOCVUS = ΣCLOCVZZ
CLRCD	Coal price in the residential sector.	Dollars per million Btu	CLRCDZZ is independent. CLRCDUS = CLRCVUS / CLRCBUS * 1000
CLRCV	Coal expenditures in the residential sector.	Million dollars	CLRCVZZ = CLRCBZZ * CLRCDZZ / 1000 CLRCVUS = ΣCLRCVZZ
CLTCD	Coal average price, all sectors.	Dollars per million Btu	CLTCD = CLTCV / CLSCB * 1000
CLTCV	Coal total expenditures.	Million dollars	CLTCV = CLKCV + CLXCV
CLTXD	Coal average price, all end-use sectors.	Dollars per million Btu	CLTXD = (CLTXV / (CLSCB - CLEIB)) * 1000
CLTXV	Coal total end-use expenditures.	Million dollars	CLTXVZZ = CLACVZZ + CLCCVZZ + CLICVZZ + CLRCVZZ CLTXVUS = ΣCLTXVZZ
CLXCD	Coal average price for all sectors excluding coke plants and refineries.	Dollars per million Btu	CLXCD = CLXCV / CLXCB * 1000
CLXCV	Coal expenditures for all sectors excluding coke plants and refineries.	Million dollars	CLXCVZZ = CLACVZZ + CLCCVZZ + CLEIVZZ + CLOCVZZ + CLRCVZZ CLXCVUS = ΣCLXCVZZ
DFACD	Distillate fuel oil price in the transportation sector.	Dollars per million Btu	DFACDZZ is independent. DFACDUS = DFACVUS / DFACBUS * 1000

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
DFACV	Distillate fuel oil expenditures in the transportation sector.	Million dollars	$DFACVZZ = DFACBZZ * DFACDZZ / 1000$ $DFACVUS = \Sigma DFACVZZ$
DFCCD	Distillate fuel oil price in the commercial sector.	Dollars per million Btu	DFCCDZZ is independent. $DFCCDUS = DFCCVUS / DFCCBUS * 1000$
DFCCV	Distillate fuel oil expenditures in the commercial sector.	Million dollars	$DFCCVZZ = DFCCBZZ * DFCCDZZ / 1000$ $DFCCVUS = \Sigma DFCCVZZ$
DFEID	Distillate fuel oil price in the electric power sector.	Dollars per million Btu	DFEIDZZ is independent. $DFEIDUS = DFEIVUS / DFEIBUS * 1000$
DFEIV	Distillate fuel oil expenditures in the electric power sector.	Million dollars	$DFEIVZZ = DFEIBZZ * DFEIDZZ / 1000$ $DFEIVUS = \Sigma DFEIVZZ$
DFICD	Distillate fuel oil price in the industrial sector.	Dollars per million Btu	DFICDZZ is independent. $DFICDUS = DFICVUS / DFISBUS * 1000$
DFICV	Distillate fuel oil expenditures in the industrial sector.	Million dollars	$DFICVZZ = DFISBZZ * DFICDZZ / 1000$ $DFICVUS = \Sigma DFICVZZ$
DFRCD	Distillate fuel oil price in the residential sector.	Dollars per million Btu	DFRCDZZ is independent. $DFRCDUS = DFRCVZZ / DFRCBZZ * 1000$
DFRCV	Distillate fuel oil expenditures in the residential sector.	Million dollars	$DFRCVZZ = DFRCBZZ * DFRCDZZ / 1000$ $DFRCVUS = \Sigma DFRCVZZ$
DFTCD	Distillate fuel oil average price, all sectors.	Dollars per million Btu	$DFTCD = DFTCV / DFSCB * 1000$
DFTCV	Distillate fuel oil total expenditures.	Million dollars	$DFTCVZZ = DFACVZZ + DFCCVZZ + DFEIVZZ + DFICVZZ + DFRCVZZ$ $DFTCVUS = \Sigma DFTCVZZ$
DFTXD	Distillate fuel oil average price, all end-use sectors.	Dollars per million Btu	$DFTXD = (DFTXV / (DFSCB - DFEIB)) * 1000$
DFTXV	Distillate fuel oil total end-use expenditures.	Million dollars	$DFTXVZZ = DFACVZZ + DFCCVZZ + DFICVZZ + DFRCVZZ$ $DFTXVUS = \Sigma DFTXVZZ$
DKEID	Distillate fuel oil (including kerosene-type jet fuel before 2001) average price in the electric power sector.	Dollars per million Btu	$DKEID = DKEIV / DKEIB * 1000$
DKEIV	Distillate fuel oil (including kerosene-type jet fuel before 2001) expenditures in the electric power sector.	Million dollars	$DKEIVZZ = DFEIVZZ + JFEUVZZ$ $DKEIVUS = \Sigma DKEIVZZ$
ELEXD	Electricity exports average price.	Dollars per million Btu	ELEXD is independent.

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
ELEXV	Electricity exports expenditures.	Million dollars	$ELEXVZZ = ELEXBZZ * ELEXDZZ / 1000$ $ELEXVUS = \Sigma ELEXVZZ$
ELIMD	Electricity imports average price.	Dollars per million Btu	ELIMD is independent.
ELIMV	Electricity imports expenditures.	Million dollars	$ELIMVZZ = ELIMBZZ * ELIMDZZ / 1000$ $ELIMVUS = \Sigma ELIMVZZ$
EMACV	Fuel ethanol, excluding denaturant, expenditures in the transportation sector (compiled for inclusion in total expenditures by end-use sector before 1993).	Million dollars	$EMACVZZ = EMACBZZ * MGACDZZ / 1000$ $EMACVUS = \Sigma EMACVZZ$
EMCCV	Fuel ethanol, excluding denaturant, expenditures in the commercial sector (compiled for inclusion in total expenditures by end-use sector before 1993).	Million dollars	$EMCCVZZ = EMCCBZZ * MGCCDZZ / 1000$ $EMCCVUS = \Sigma EMCCVZZ$
EMICV	Fuel ethanol, excluding denaturant, expenditures in the industrial sector (compiled for inclusion in total expenditures by end-use sector before 1993).	Million dollars	$EMICVZZ = EMICBZZ * MGACDZZ / 1000$ $EMICVUS = \Sigma EMICVZZ$
EMTCV	Fuel ethanol, excluding denaturant, total expenditures (compiled for inclusion in total expenditures before 1993).	Million dollars	$EMTCVZZ = EMACVZZ + EMCCVZZ + EMICVZZ$ $EMTCVUS = \Sigma EMTCVZZ$
ESACD	Electricity price in the transportation sector.	Dollars per million Btu	ESACDZZ is independent. $ESACDUS = ESACVUS / ESACBUS * 1000$
ESACV	Electricity expenditures in the transportation sector.	Million dollars	$ESACVZZ = ESACBZZ * ESACDZZ / 1000$ $ESACVUS = \Sigma ESACVZZ$
ESCCD	Electricity price in the commercial sector.	Dollars per million Btu	ESCCDZZ is independent. $ESCCDUS = ESCCVUS / ESCCBUS * 1000$
ESCCV	Electricity expenditures in the commercial sector.	Million dollars	$ESCCVZZ = ESCCBZZ * ESCCDZZ / 1000$ $ESCCVUS = \Sigma ESCCVZZ$
ESICD	Electricity price in the industrial sector.	Dollars per million Btu	ESICDZZ is independent. $ESICDUS = ESICVUS / ESISBUS * 1000$
ESICV	Electricity expenditures in the industrial sector.	Million dollars	$ESICVZZ = ESISBZZ * ESICDZZ / 1000$ $ESICVUS = \Sigma ESICVZZ$
ESRCD	Electricity price in the residential sector.	Dollars per million Btu	ESRCDZZ is independent. $ESRCDUS = ESRCVUS / ESRCBUS * 1000$
ESRCV	Electricity expenditures in the residential sector.	Million dollars	$ESRCVZZ = ESRCBZZ * ESRCDZZ / 1000$ $ESRCVUS = \Sigma ESRCVZZ$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
ESTCD	Electricity average price, all sectors.	Dollars per million Btu	$ESTCD = ESTCV / ESSCB * 1000$
ESTCV	Electricity total expenditures.	Million dollars	$ESTCVZZ = ESACVZZ + ESCCVZZ + ESICVZZ + ESRCVZZ$ $ESTCVUS = \Sigma ESTCVZZ$
ESTXD	Electricity average price, all end-use sectors.	Dollars per million Btu	$ESTXD = ESTXV / ESSCB * 1000$
ESTXV	Electricity total end-use expenditures.	Million dollars	$ESTXVZZ = ESACVZZ + ESCCVZZ + ESICVZZ + ESRCVZZ$ $ESTXVUS = \Sigma ESTXVZZ$
FNICD	Petrochemical feedstocks, naphtha less than 401° F, price in the industrial sector.	Dollars per million Btu	FNICDZZ is independent. $FNICDUS = FNICVUS / FNICBUS * 1000$
FNICV	Petrochemical feedstocks, naphtha less than 401° F, expenditures in the industrial sector.	Million dollars	$FNICVZZ = FNICBZZ * FNICDZZ / 1000$ $FNICVUS = \Sigma FNICVZZ$
FOICD	Petrochemical feedstocks, other oils equal to or greater than 401° F, price in the industrial sector.	Dollars per million Btu	FOICDZZ is independent. $FOICDUS = FOICVUS / FOICBUS * 1000$
FOICV	Petrochemical feedstocks, other oils equal to or greater than 401° F, expenditures in industrial sector.	Million dollars	$FOICVZZ = FOICBZZ * FOICDZZ / 1000$ $FOICVUS = \Sigma FOICVZZ$
FSICD	Petrochemical feedstocks, still gas, price in the industrial sector (through 1985).	Dollars per million Btu	FSICDZZ is independent. $FSICDUS = FSICVUS / FSICBUS * 1000$
FSICV	Petrochemical feedstocks, still gas, expenditures in the industrial sector (through 1985).	Million dollars	$FSICVZZ = FSICBZZ * FSICDZZ / 1000$ $FSICVUS = \Sigma FSICVZZ$
GDPRV	Current-dollar gross domestic product.	Million dollars	GDPRV is independent.
HLACD	Hydrocarbon gas liquids price in the transportation sector.	Dollars per million Btu	2010 forward: $HLACDZZ = PQACDZZ$ $HLACDUS = HLACVUS / HLACBUS * 1000$ Before 2010: HLACDZZ is independent. $HLACDUS = HLACVUS / HLACBUS * 1000$
HLACV	Hydrocarbon gas liquids expenditures in the transportation sector.	Million dollars	$HLACVZZ = HLACBZZ * HLACDZZ / 1000$ $HLACVUS = \Sigma HLACVZZ$
HLCCD	Hydrocarbon gas liquids price in the commercial sector.	Dollars per million Btu	2010 forward: $HLCCDZZ = PQCCDZZ$ $HLCCDUS = HLCCVUS / HLCCBUS * 1000$ Before 2010: HLCCDZZ is independent. $HLCCDUS = HLCCVUS / HLCCBUS * 1000$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
HLCCV	Hydrocarbon gas liquids expenditures in the commercial sector.	Million dollars	$HLCCVZZ = HLCCBZZ * HLCCDZZ / 1000$ $HLCCVUS = \Sigma HLCCVZZ$
HLICD	Hydrocarbon gas liquids price in the industrial sector.	Dollars per million Btu	2010 forward: $HLICD = HLICV / HLISB * 1000$ Before 2010: HLICDZZ is independent. $HLICDUS = HLICVUS / HLISBUS * 1000$
HLICV	Hydrocarbon gas liquids expenditures in the industrial sector.	Million dollars	2010 forward: $HLICVZZ = OHICVZZ + PQICVZZ$ $HLICVUS = \Sigma HLICVZZ$ Before 2010: $HLICVZZ = HLISBZZ * HLICDZZ$ $HLICVUS = \Sigma HLICVZZ$
HLRCD	Hydrocarbon gas liquids price in the residential sector.	Dollars per million Btu	2010 forward: $HLRCDZZ = PQRCDZZ$ $HLRCDUS = HLRCVUS / HLRCBUS * 1000$ Before 2010: HLRCDZZ is independent. $HLRCDUS = HLRCVUS / HLRCBUS * 1000$
HLRCV	Hydrocarbon gas liquids expenditures in the residential sector.	Million dollars	$HLRCVZZ = HLRCBZZ * HLRCDZZ / 1000$ $HLRCVUS = \Sigma HLRCVZZ$
HLTCD	Hydrocarbon gas liquids average price, all sectors.	Dollars per million Btu	$HLTCD = HLTCV / HLSCB * 1000$
HLTCV	Hydrocarbon gas liquids total expenditures.	Million dollars	$HLTCVZZ = HLACVZZ + HLCCVZZ + HLICVZZ + HLRCVZZ$ $HLTCVUS = \Sigma HLTCVZZ$
HLTXD	Hydrocarbon gas liquids average price, all end-use sectors.	Dollars per million Btu	$HLTXD = HLT XV / HLSCB * 1000$
HLTXV	Hydrocarbon gas liquids total end-use expenditures.	Million dollars	$HLTXVZZ = HLACVZZ + HLCCVZZ + HLICVZZ + HLRCVZZ$ $HLTXVUS = \Sigma HLTXVZZ$
JFACD	Jet fuel price in the transportation sector.	Dollars per million Btu	JFACDZZ is independent. $JFACDUS = JFACVUS / JFACBUS * 1000$
JFACV	Jet fuel expenditures in the transportation sector.	Million dollars	$JFACVZZ = JFACBZZ * JFACDZZ / 1000$ $JFACVUS = \Sigma JFACVZZ$
JFEUD	Jet fuel price in the electric power sector (1972–1982 only).	Dollars per million Btu	JFEUDZZ is independent.

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
JFEUV	Jet fuel expenditures in the electric power sector (1972–1982 only).	Million dollars	$JFEUVZZ = JFEUBZZ * JFEUDZZ / 1000$
JFTCD	Jet fuel average price, all sectors.	Dollars per million Btu	$JFTCD = JFTCV / JFTCB * 1000$
JFTCV	Jet fuel total expenditures.	Million dollars	$JFTCVZZ = JFACVZZ + JFEUVZZ$ $JFTCVUS = \Sigma JFTCVZZ$
JFTXD	Jet fuel average price, all end-use sectors.	Dollars per million Btu	$JFTXD = JFTXV / JFTXB * 1000$
JFTXV	Jet fuel total end-use expenditures.	Million dollars	$JFTXVZZ = JFACVZZ$ $JFTXVUS = \Sigma JFTXVZZ$
KSCCD	Kerosene price in the commercial sector.	Dollars per million Btu	KSCCDZZ is independent. $KSCCDUS = KSCCVUS / KSCCBUS * 1000$
KSCCV	Kerosene expenditures in the commercial sector.	Million dollars	$KSCCVZZ = KSCCBZZ * KSCCDZZ / 1000$ $KSCCVUS = \Sigma KSCCVZZ$
KSICD	Kerosene price in the industrial sector.	Dollars per million Btu	KSICDZZ = is independent. $KSICDUS = KSICVUS / KSICBUS * 1000$
KSICV	Kerosene expenditures in the industrial sector.	Million dollars	$KSICVZZ = KSICBZZ * KSICDZZ / 1000$ $KSICVUS = \Sigma KSICVZZ$
KSRCD	Kerosene price in the residential sector.	Dollars per million Btu	KSRCDZZ = is independent. $KSRCDUS = KSRCVUS / KSRCBUS * 1000$
KSRCV	Kerosene expenditures in the residential sector.	Million dollars	$KSRCVZZ = KSRCBZZ * KSRCDZZ / 1000$ $KSRCVUS = \Sigma KSRCVZZ$
KSTCD	Kerosene average price, all sectors.	Dollars per million Btu	$KSTCD = KSTCV / KSTCB * 1000$
KSTCV	Kerosene total expenditures.	Million dollars	$KSTCVZZ = KSCCVZZ + KSICVZZ + KSRCVZZ$ $KSTCVUS = \Sigma KSTCVZZ$
KSTXD	Kerosene average price, all end-use sectors.	Dollars per million Btu	$KSTXD = KSTXV / KSTXB * 1000$
KSTXV	Kerosene total end-use expenditures.	Million dollars	$KSTXVZZ = KSCCVZZ + KSICVZZ + KSRCVZZ$ $KSTXVUS = \Sigma KSTXVZZ$
LUACD	Lubricants price in the transportation sector.	Dollars per million Btu	LUACDZZ is independent. $LUACDUS = LUACVUS / LUACBUS * 1000$
LUACV	Lubricants expenditures in the transportation sector.	Million dollars	$LUACVZZ = LUACBZZ * LUACDZZ / 1000$ $LUACVUS = \Sigma LUACVZZ$
LUICD	Lubricants price in the industrial sector.	Dollars per million Btu	LUICDZZ is independent. $LUICDUS = LUICVUS / LUICBUS * 1000$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
LUICV	Lubricants expenditures in the industrial sector.	Million dollars	$LUICVZZ = LUICBZZ * LUICDZZ / 1000$ $LUICVUS = \sum LUICVZZ$
LUTCD	Lubricants average price, all sectors.	Dollars per million Btu	$LUTCD = LUTCV / LUTCB * 1000$
LUTCV	Lubricants total expenditures.	Million dollars	$LUTCVZZ = LUACVZZ + LUICVZZ$ $LUTCVUS = \sum LUTCVZZ$
LUTXD	Lubricants average price, all end-use sectors.	Dollars per million Btu	$LUTXD = LUTXV / LUTXB * 1000$
LUTXV	Lubricants total end-use expenditures.	Million dollars	$LUTXVZZ = LUACVZZ + LUICVZZ$ $LUTXVUS = \sum LUTXVZZ$
MGACD	Motor gasoline price in the transportation sector.	Dollars per million Btu	MGACDZZ is independent. $MGACDUS = MGACVUS / MGACBUS * 1000$
MGACV	Motor gasoline expenditures in the transportation sector.	Million dollars	$MGACVZZ = MGACBZZ * MGACDZZ / 1000$ $MGACVUS = \sum MGACVZZ$
MGCCD	Motor gasoline price in the commercial sector.	Dollars per million Btu	MGCCDZZ is independent. $MGCCDUS = MGCCVUS / MGCCBUS * 1000$
MGCCV	Motor gasoline expenditures in the commercial sector.	Million dollars	$MGCCVZZ = MGCCBZZ * MGCCDZZ / 1000$ $MGCCVUS = \sum MGCCVZZ$
MGICD	Motor gasoline price in the industrial sector.	Dollars per million Btu	MGICDZZ is independent. $MGICDUS = MGICVUS / MGICBUS * 1000$
MGICV	Motor gasoline expenditures in the industrial sector.	Million dollars	$MGICVZZ = MGICBZZ * MGICDZZ / 1000$ $MGICVUS = \sum MGICVZZ$
MGTCD	Motor gasoline average price, all sectors.	Dollars per million Btu	$MGTCD = MGTCV / MGTCB * 1000$
MGTCV	Motor gasoline total expenditures.	Million dollars	$MGTCVZZ = MGACVZZ + MGCCVZZ + MGICVZZ$ $MGTCVUS = \sum MGTCVZZ$
MGTPV	Motor gasoline expenditures per capita.	Million dollars	$MGTPV = MGTCV / TPOPP * 1000$
MGTXD	Motor gasoline average price, all end-use sectors.	Dollars per million Btu	$MGTXD = MGTXV / MGTXB * 1000$
MGTXV	Motor gasoline total end-use expenditures.	Million dollars	$MGTXVZZ = MGACVZZ + MGCCVZZ + MGICVZZ$ $MGTXVUS = \sum MGTXVZZ$
MSICD	Miscellaneous petroleum products price in the industrial sector.	Dollars per million Btu	MSICDZZ is independent. $MSICDUS = MSICVUS / MSICBUS * 1000$
MSICV	Miscellaneous petroleum products expenditures in the industrial sector.	Million dollars	$MSICVZZ = MSICBZZ * MSICDZZ / 1000$ $MSICVUS = \sum MSICVZZ$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
NGACD	Natural gas price in the transportation sector.	Dollars per million Btu	NGACDZZ is independent. NGACDUS = NGACVUS / NGASBUS * 1000
NGACV	Natural gas expenditures in the transportation sector.	Million dollars	NGACVZZ = NGASBZZ * NGACDZZ / 1000 NGACVUS = ΣNGACVZZ
NGCCD	Natural gas price in the commercial sector (including supplemental gaseous fuels).	Dollars per million Btu	NGCCDZZ is independent. NGCCDUS = NGCCVUS / NGCCBUS * 1000
NGCCV	Natural gas expenditures in the commercial sector (including supplemental gaseous fuels).	Million dollars	NGCCVZZ = NGCCBZZ * NGCCDZZ / 1000 NGCCVUS = ΣNGCCVZZ
NGEID	Natural gas price in the electric power sector (including supplemental gaseous fuels).	Dollars per million Btu	NGEIDZZ is independent. NGEIDUS = NGEIVUS / NGEIBUS * 1000
NGEIV	Natural gas expenditures in the electric power sector (including supplemental gaseous fuels).	Million dollars	NGEIVZZ = NGEIBZZ * NGEIDZZ / 1000 NGEIVUS = ΣNGEIVZZ
NGICD	Natural gas price in the industrial sector (including supplemental gaseous fuels).	Dollars per million Btu	NGICDZZ is independent. NGICDUS = NGICVZZ / NGISBZZ * 1000
NGICV	Natural gas expenditures in the industrial sector (including supplemental gaseous fuels).	Million dollars	NGICVZZ = NGISBZZ * NGICDZZ / 1000 NGICVUS = ΣNGICVZZ
NGRCD	Natural gas price in the residential sector (including supplemental gaseous fuels).	Dollars per million Btu	NGRCDZZ is independent. NGRCDUS = NGRCVZZ / NGRCBZZ * 1000
NGRCV	Natural gas expenditures in the residential sector (including supplemental gaseous fuels).	Million dollars	NGRCVZZ = NGRCBZZ * NGRCDZZ / 1000 NGRCVUS = ΣNGRCVZZ
NGTCD	Natural gas average price, all sectors (including supplemental gaseous fuels).	Dollars per million Btu	NGTCD = NGTCV / NGSCB * 1000
NGTCV	Natural gas total expenditures (including supplemental gaseous fuels).	Million dollars	NGTCVZZ = NGACVZZ + NGCCVZZ + NGEIVZZ + NGICVZZ + NGRCVZZ NGTCVUS = ΣNGTCVZZ
NGTXD	Natural gas average price, all end-use sectors (including supplemental gaseous fuels).	Dollars per million Btu	NGTXD = (NGTXV / (NGSCB - NGEIB)) * 1000
NGTXV	Natural gas total end-use expenditures (including supplemental gaseous fuels).	Million dollars	NGTXVZZ = NGACVZZ + NGCCVZZ + NGICVZZ + NGRCVZZ NGTXVUS = ΣNGTXVZZ
NUEGD	Nuclear fuel price in the electric power sector.	Dollars per million Btu	NUEGDZZ is independent. NUEGDUS = NUEGVUS / NUEGBUS * 1000
NUEGV	Nuclear fuel expenditures in the electric power sector.	Million dollars	NUEGVZZ = NUEGBZZ * NUEGDZZ / 1000 NUEGVUS = ΣNUEGVZZ

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
NUETD	Nuclear fuel average price, all sectors.	Dollars per million Btu	$NUETD = NUETV / NUETB * 1000$
NUETV	Nuclear fuel total expenditures.	Million dollars	$NUETVZZ = NUEGVZZ$ $NUETVUS = \Sigma NUETVZZ$
OHICD	Other hydrocarbon gas liquids (other than propane) price in the industrial sector.	Dollars per million Btu	OHICDZZ is independent.
OHICV	Other hydrocarbon gas liquids (other than propane) expenditures in the industrial sector.	Million dollars	$OHICVZZ = OHICBZZ * OHICDZZ / 1000$ $OHICVUS = \Sigma OHICVZZ$
OPICD	Other petroleum products average price in the industrial sector.	Dollars per million Btu	$OPICD = OPICV / OPISB * 1000$
OPICV	Other petroleum products total expenditures in the industrial sector.	Million dollars	$OPICVZZ = FNICVZZ + FOICVZZ + FSICVZZ + MSICVZZ + SNICVZZ + WXICVZZ$ $OPICVUS = \Sigma OPICVZZ$
OPTCD	Other petroleum products average price, all sectors.	Dollars per million Btu	$OPTCD = OPTCV / OPSCB * 1000$
OPTCV	Other petroleum products total expenditures.	Million dollars	$OPTCVZZ = OPICVZZ$ $OPTCVUS = \Sigma OPTCVZZ$
OPTXD	Other petroleum products average price, all end-use sectors.	Dollars per million Btu	$OPTXD = OPTXV / OPSCB * 1000$
OPTXV	Other petroleum products total end-use expenditures.	Million dollars	$OPTXVZZ = OPICVZZ$ $OPTXVUS = \Sigma OPTXVZZ$
P1ICD	Asphalt and road oil, kerosene, lubricants, petroleum coke, and "other petroleum products" average price in the industrial sector.	Dollars per million Btu	$P1ICD = P1ICV / P1ISB * 1000$
P1ICV	Asphalt and road oil, kerosene, lubricants, petroleum coke, and "other petroleum products" expenditures in the industrial sector.	Million dollars	$P1ICVZZ = ARICVZZ + KSICVZZ + LUICVZZ + OPICVZZ + PCICVZZ$ $P1ICVUS = \Sigma P1ICVZZ$
P1TCD	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" average price, all sectors.	Dollars per million Btu	$P1TCD = P1TCV / P1SCB * 1000$
P1TCV	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" total expenditures.	Million dollars	$P1TCVZZ = ARTCVZZ + AVTCVZZ + KSTCVZZ + LUTCVZZ + OPTCVZZ + PCTCVZZ$ $P1TCVUS = \Sigma P1TCVZZ$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
P1TXD	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and “other petroleum products” average price, all end-use sectors.	Dollars per million Btu	$P1TXD = (P1TXV / (P1SCB - PCEIB)) * 1000$
P1TXV	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and “other petroleum products” total end-use expenditures.	Million dollars	$P1TXVZZ = P1TCVZZ - PCEIVZZ$ $P1TXVUS = \Sigma P1TXVZZ$
PAACD	All petroleum products average price in the transportation sector.	Dollars per million Btu	$PAACD = PAACV / PAACB * 1000$
PAACV	All petroleum products total expenditures in the transportation sector.	Million dollars	$PAACVZZ = AVACVZZ + DFACVZZ + HLACVZZ + JFACVZZ + LUACVZZ + MGACVZZ + RFACVZZ$ $PAACVUS = \Sigma PAACVZZ$
PACCD	All petroleum products average price in the commercial sector.	Dollars per million Btu	$PACCD = PACCV / PACCB * 1000$
PACCV	All petroleum products total expenditures in the commercial sector.	Million dollars	$PACCVZZ = DFCCVZZ + HLCCVZZ + KSCCVZZ + MGCCVZZ + PCCCVZZ + RFCCVZZ$ $PACCVUS = \Sigma PACCVZZ$
PAEID	All petroleum products average price in the electric power sector.	Dollars per million Btu	$PAEID = PAEIV / PAEIB * 1000$
PAEIV	All petroleum products total expenditures in the electric power sector.	Million dollars	$PAEIVZZ = DKEIVZZ + PCEIVZZ + RFEIVZZ$ $PAEIVUS = \Sigma PAEIVZZ$
PAICD	All petroleum products average price in the industrial sector.	Dollars per million Btu	$PAICD = PAICV / PAISB * 1000$
PAICV	All petroleum products total expenditures in the industrial sector.	Million dollars	$PAICVZZ = ARICVZZ + DFICVZZ + HLICVZZ + KSICVZZ + LUICVZZ + MGICVZZ + OPICVZZ + PCICVZZ + RFICVZZ$ $PAICVUS = \Sigma PAICVZZ$
PARCD	All petroleum products average price in the residential sector.	Dollars per million Btu	$PARCD = PARCV / PARCB * 1000$
PARCV	All petroleum products total expenditures in the residential sector.	Million dollars	$PARCVZZ = DFRCVZZ + HLRCVZZ + KSRCVZZ$ $PARCVUS = \Sigma PARCVZZ$
PATCD	All petroleum products average price, all sectors.	Dollars per million Btu	$PATCD = PATCV / PASCB * 1000$
PATCV	All petroleum products total expenditures.	Million dollars	$PATCVZZ = ARTCVZZ + AVTCVZZ + DFTCVZZ + HLTCVZZ + JFTCVZZ + KSTCVZZ + LUTCVZZ + MGTCVZZ + OPTCVZZ + PCTCVZZ + RFTCVZZ$ $PATCVUS = \Sigma PATCVZZ$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
PATXD	All petroleum products average price, all end-use sectors.	Dollars per million Btu	$PATXD = (PATXV / (PASCB - PAEIB)) * 1000$
PATXV	All petroleum products total end-use expenditures.	Million dollars	$PATXVZZ = ARTXVZZ + AVTXVZZ + DFTXVZZ + HLTXVZZ + JFTXVZZ + KSTXVZZ + LUTXVZZ + MGTXVZZ + OPTXVZZ + PCTXVZZ + RFTXVZZ$ $PATXVUS = \Sigma PATXVZZ$
PCCCD	Petroleum coke price in the commercial sector.	Dollars per million Btu	PCCCDZZ is independent. $PCCCDUS = PCCCVUS / PCCCBUS * 1000$
PCCCV	Petroleum coke expenditures in the commercial sector.	Million dollars	$PCCCVZZ = PCCCBZZ * PCCCDZZ / 1000$ $PCCCVUS = \Sigma PCCCVZZ$
PCEID	Petroleum coke price in the electric power sector.	Dollars per million Btu	PCEIDZZ is independent. $PCEIDUS = PCEIVUS / PCEIBUS * 1000$
PCEIV	Petroleum coke expenditures in the electric power sector.	Million dollars	$PCEIVZZ = PCEIBZZ * PCEIDZZ / 1000$ $PCEIVUS = \Sigma PCEIVZZ$
PCI3D	Price of petroleum coke consumed by the industrial CHP and electricity-only plants.	Dollars per million Btu	PCI3DZZ is independent. $PCI3DUS = PCI3VUS / PCI3BUS * 1000$
PCI3V	Expenditures of petroleum coke consumed by the industrial CHP and electricity-only plants.	Million dollars	$PCI3VZZ = PCI3BZZ * PCI3DZZ / 1000$ $PCI3VUS = \Sigma PCI3VZZ$
PCICD	Petroleum coke price in the industrial sector.	Dollars per million Btu	$PCICD = PCICV / PCISB * 1000$
PCICV	Petroleum coke expenditures in the industrial sector.	Million dollars	$PCICVZZ = PCI3VZZ + PCOCVZZ$ $PCICVUS = \Sigma PCICVZZ$
PCOCD	Petroleum coke price in the industrial sector other than for refinery use and CHP.	Dollars per million Btu	PCOCDZZ is independent. $PCOCDUS = PCOCVUS / PCOCBUS * 1000$
PCOCV	Petroleum coke expenditures in the industrial sector other than for refinery use and CHP.	Million dollars	$PCOCVZZ = PCOCBZZ * PCOCDZZ / 1000$ $PCOCVUS = \Sigma PCOCVZZ$
PCTCD	Petroleum coke average price, all sectors.	Dollars per million Btu	$PCTCD = PCTCV / PCSCB * 1000$
PCTCV	Petroleum coke total expenditures.	Million dollars	$PCTCVZZ = PCCCVZZ + PCEIVZZ + PCICVZZ$ $PCTCVUS = \Sigma PCTCVZZ$
PCTXD	Petroleum coke average price, all end-use sectors.	Dollars per million Btu	$PCTXD = PCTXV / (PCSCB - PCEIB) * 1000$
PCTXV	Petroleum coke total end-use expenditures.	Million dollars	$PCTXVZZ = PCCCVZZ + PCICVZZ$ $PCTXVUS = \Sigma PCTXVZZ$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
PEACD	Primary energy average price in the transportation sector.	Dollars per million Btu	$PEACD = PEACV / PEASB * 1000$
PEACV	Primary energy total expenditures in the transportation sector.	Million dollars	1993 forward: $PEACVZZ = CLACVZZ + NGACVZZ + PAACVZZ$ $PEACVUS = \Sigma PEACVZZ$ Before 1993: $PEACVZZ = CLACVZZ + EMACVZZ + NGACVZZ + PAACVZZ$ $PEACVUS = \Sigma PEACVZZ$
PECCD	Primary energy average price in the commercial sector.	Dollars per million Btu	$PECCD = PECCV / PECSB * 1000$
PECCV	Primary energy total expenditures in the commercial sector.	Million dollars	1993 forward: $PECCVZZ = CLCCVZZ + NGCCVZZ + PACCVZZ + WWCCVZZ$ $PECCVUS = \Sigma PECCVZZ$ Before 1993: $PECCVZZ = CLCCVZZ + EMCCVZZ + NGCCVZZ + PACCVZZ + WWCCVZZ$ $PECCVUS = \Sigma PECCVZZ$
PEEID	Primary energy average price in the electric power sector.	Dollars per million Btu	$PEEID = PEEIV / PEEIB * 1000$
PEEIV	Primary energy total expenditures in the electric power sector.	Million dollars	$PEEIVZZ = CLEIVZZ + ELIMVZZ + NGEIVZZ + NUEGVZZ + PAEIVZZ + WVEIVZZ$ $PEEIVUS = \Sigma PEEIVZZ$
PEICD	Primary energy average price in the industrial sector.	Dollars per million Btu	$PEICD = PEICV / PEISB * 1000$
PEICV	Primary energy total expenditures in the industrial sector.	Million dollars	1993 forward: $PEICVZZ = CLICVZZ + NGICVZZ + PAICVZZ + WWICVZZ$ $PEICVUS = \Sigma PEICVZZ + CCNIVUS$ Before 1993: $PEICVZZ = CLICVZZ + EMICVZZ + NGICVZZ + PAICVZZ + WWICVZZ$ $PEICVUS = \Sigma PEICVZZ + CCNIVUS$
PERCV	Primary energy total expenditures in the residential sector.	Million dollars	$PERCVZZ = CLRCVZZ + NGRCVZZ + PARCVZZ + WDRCVZZ$ $PERCVUS = \Sigma PERCVZZ$
PESSD	Primary energy average price, all end-use sectors.	Dollars per million Btu	$PESSD = PESSV / PESSB * 1000$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
PESSV	Primary energy total end-use expenditures.	Million dollars	PESSVZZ = PEACVZZ + PECCVZZ + PEICVZZ + PERCVZZ PESSVUS = ΣPESSVZZ + CCNIVUS
PETCD	Primary energy average price, all sectors.	Dollars per million Btu	PETCD = PETCV / PESCB * 1000
PETCV	Primary energy total expenditures.	Million dollars	PETCVZZ = PEEIVZZ + PESSVZZ PETCVUS = ΣPETCVZZ + CCNIVUS
PETXD	Primary energy average price, all end-use sectors.	Dollars per million Btu	PETXD = (PETXV / (PESCB - PEEIB)) * 1000
PETXV	Primary energy total end-use expenditures.	Million dollars	PETXVZZ = PEACVZZ + PECCVZZ + PEICVZZ + PERCVZZ PETXVUS = ΣPETXVZZ + CCIMVUS - CCEXVUS
PQACD	Propane price in the transportation sector.	Dollars per million Btu	PQACDZZ is independent. PQACDUS = PQACVUS / PQACBUS * 1000
PQACV	Propane expenditures in the transportation sector.	Million dollars	PQACVZZ = PQACBZZ * PQACDZZ / 1000 PQACVUS = ΣPQACVZZ
PQCCD	Propane price in the commercial sector.	Dollars per million Btu	PQCCDZZ is independent. PQCCDUS = PQCCVUS / PQCCBUS * 1000
PQCCV	Propane expenditures in the commercial sector.	Million dollars	PQCCVZZ = PQCCBZZ * PQCCDZZ / 1000 PQCCVUS = ΣPQCCVZZ
PQICD	Propane price in the industrial sector.	Dollars per million Btu	PQICDZZ is independent. PQICDUS = PQICVUS / PQISBUS * 1000
PQICV	Propane expenditures in the industrial sector.	Million dollars	PQICVZZ = PQISBZZ * PQICDZZ / 1000 PQICVUS = ΣPQICVZZ
PQRCD	Propane price in the residential sector.	Dollars per million Btu	PQRCDZZ is independent. PQRCDUS = PQRVUS / PQRBUS * 1000
PQRCV	Propane expenditures in the residential sector.	Million dollars	PQRCVZZ = PQRBZZ * PQRCDZZ / 1000 PQRCVUS = ΣPQRCVZZ
PQTCV	Propane average price, all sectors.	Dollars per million Btu	PQTCV = PQTCV / PQSCB * 1000
PQTCV	Propane total expenditures.	Million dollars	PQTCVZZ = PQACVZZ + PQCCVZZ + PQICVZZ + PQRCVZZ PQTCVUS = ΣPQTCVZZ
PQTXD	Propane average price, all end-use sectors.	Dollars per million Btu	PQTXD = PQTXV / PQSCB * 1000
PQTXV	Propane total end-use expenditures.	Million dollars	PQTXVZZ = PQACVZZ + PQCCVZZ + PQICVZZ + PQRCVZZ PQTXVUS = ΣPQTXVZZ
RFACD	Residual fuel oil price in the transportation sector.	Dollars per million Btu	RFACDZZ is independent. RFACDUS = RFACVUS / RFACBUS * 1000

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
RFACV	Residual fuel oil expenditures in the transportation sector.	Million dollars	$RFACVZZ = RFACBZZ * RFACDZZ / 1000$ $RFACVUS = \Sigma RFACVZZ$
RFCCD	Residual fuel oil price in the commercial sector.	Dollars per million Btu	RFCCDZZ is independent. $RFCCDUS = RFCCVUS / RFCCBUS * 1000$
RFCCV	Residual fuel oil expenditures in the commercial sector.	Million dollars	$RFCCVZZ = RFCCBZZ * RFCCDZZ / 1000$ $RFCCVUS = \Sigma RFCCVZZ$
RFEID	Residual fuel oil price in the electric power sector.	Dollars per million Btu	RFEIDZZ is independent. $RFEIDUS = RFEIVUS / RFEIBUS * 1000$
RFEIV	Residual fuel oil expenditures in the electric power sector.	Million dollars	$RFEIVZZ = RFEIBZZ * RFEIDZZ / 1000$ $RFEIVUS = \Sigma RFEIVZZ$
RFICD	Residual fuel oil price in the industrial sector.	Dollars per million Btu	RFICDZZ is independent. $RFICDUS = RFICVUS / RFISBUS * 1000$
RFICV	Residual fuel oil expenditures in the industrial sector.	Million dollars	$RFICVZZ = RFISBZZ * RFICDZZ / 1000$ $RFICVUS = \Sigma RFICVZZ$
RFTCD	Residual fuel oil average price, all sectors.	Dollars per million Btu	$RFTCD = RFTCV / RFSCB * 1000$
RFTCV	Residual fuel oil total expenditures.	Million dollars	$RFTCVZZ = RFACVZZ + RFCCVZZ + RFEIVZZ + RFICVZZ$ $RFTCVUS = \Sigma RFTCVZZ$
RFTXD	Residual fuel oil average price, all end-use sectors.	Dollars per million Btu	$RFTXD = (RFTXV / (RFSCB - RFEIB)) * 1000$
RFTXV	Residual fuel oil total end-use consumption.	Million dollars	$RFTXVZZ = RFACVZZ + RFCCVZZ + RFICVZZ$ $RFTXVUS = \Sigma RFTXVZZ$
SNICD	Special naphthas price in the industrial sector.	Dollars per million Btu	SNICDZZ is independent. $SNICDUS = SNICVUS / SNICBUS * 1000$
SNICV	Special naphthas expenditures in the industrial sector.	Million dollars	$SNICVZZ = SNICBZZ * SNICDZZ / 1000$ $SNICVUS = \Sigma SNICVZZ$
TEACD	Total energy average price in the transportation.	Dollars per million Btu	$TEACD = TEACV / TNASB * 1000$
TEACV	Total energy expenditures in the transportation sector.	Million dollars	$TEACVZZ = ESACVZZ + PEACVZZ$ $TEACVUS = \Sigma TEACVZZ$
TECCD	Total energy average price in the commercial sector.	Dollars per million Btu	$TECCD = TECCV / TNCSB * 1000$
TECCV	Total energy expenditures in the commercial sector.	Million dollars	$TECCVZZ = ESCCVZZ + PECCVZZ$ $TECCVUS = \Sigma TECCVZZ$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
TEGDS	Energy expenditures as percent of current-dollar GDP.	Percent	$TEGDS = TETCV / GDPV * 100$
TEICD	Total energy average price in the industrial sector.	Dollars per million Btu	$TEICD = TEICV / TNISB * 1000$
TEICV	Total energy expenditures in the industrial sector.	Million dollars	$TEICVZZ = ESICVZZ + PEICVZZ$ $TEICVUS = \Sigma TEICVZZ + CCNIVUS$
TERCD	Total energy average price in the residential sector.	Dollars per million Btu	$TERCD = TERCV / TNRSB * 1000$
TERCV	Total energy expenditures in the residential sector.	Million dollars	$TERCVZZ = ESRCVZZ + PERCVZZ$ $TERCVUS = \Sigma TERCVZZ$
TETCD	Total energy average price.	Dollars per million Btu	$TETCD = TETCV / TNSCB * 1000$
TETCV	Total energy total expenditures.	Million dollars	$TETCV = ESTCV + PESSV$
TETPV	Total energy expenditures per capita.	Dollars	$TETPV = TETCV / TPOPP * 1000$
TETXD	Total end-use energy average price.	Dollars per million Btu	$TETXD = TETXV / TNSCB * 1000$
TETXV	Total end-use energy expenditures.	Million dollars	$TETXVZZ = TEACVZZ + TECCVZZ + TEICVZZ + TERCVZZ$ $TETXVUS = \Sigma TETXVZZ$
WDC3D	Wood price, commercial CHP and electricity-only plants, U.S. only.	Dollars per million Btu	$WDC3DUS = WDC3VUS / WDCYBUS * 1000$
WDC3V	Wood expenditures, commercial CHP and electricity-only plants.	Million dollars	$WDC3VZZ = WDCYBZZ * WDEIDUS / 1000$ $WDC3VUS = \Sigma WDC3VZZ$
WDC4D	Wood price, commercial sector other than CHP and electricity-only plants.	Dollars per million Btu	WDC4D is independent.
WDC4V	Wood expenditures, commercial sector other than CHP and electricity-only plants.	Million dollars	$WDC4VZZ = WDCYBZZ * WDC4DZZ / 1000$ $WDC4VUS = \Sigma WDC4VZZ$
WDEID	Wood price in the electric power sector, U.S. only.	Dollars per million Btu	WDEIDUS is independent.
WDI3D	Wood price, industrial CHP and electricity-only plants, U.S. only.	Dollars per million Btu	$WDI3DUS = WDI3VUS / WDIYBUS * 1000$
WDI3V	Wood expenditures, industrial CHP and electricity-only plants.	Million dollars	$WDI3VZZ = WDIYBZZ * WDEIDUS / 1000$ $WDI3VUS = \Sigma WDI3VZZ$
WDRCD	Wood price in the residential sector.	Dollars per million Btu	WDRCDZZ is independent. $WDRCDUS = WDRCVUS / WDRSBus * 1000$
WDRCV	Wood expenditures in the residential sector.	Million dollars	$WDRCVZZ = WDRSBZZ * WDRCDZZ / 1000$ $WDRCVUS = \Sigma WDRCVZZ$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
WSC3D	Waste price, commercial CHP and electricity-only plants, U.S. only.	Dollars per million Btu	$WSC3DUS = WSC3VUS / WSCYBUS * 1000$
WSC3V	Waste expenditures, commercial CHP and electricity-only plants.	Million dollars	$WSC3VZZ = WSCYBZZ * WSEIDUS / 1000$ $WSC3VUS = \Sigma WSC3VZZ$
WSEID	Waste price in the electric power sector, U.S. only.	Dollars per million Btu	WSEIDUS is independent.
WSI3D	Waste price, industrial CHP and electricity-only plants, U.S. only.	Dollars per million Btu	$WSI3DUS = WSI3VUS / WSIYBUS * 1000$
WSI3V	Waste expenditures, industrial CHP and electricity-only plants.	Million dollars	$WSI3VZZ = WSIYBZZ * WSEIDUS / 1000$ $WSI3VUS = \Sigma WSI3VZZ$
WWCCD	Wood and waste price in the commercial sector.	Dollars per million Btu	$WWCCD = WWCCV / WWCSB * 1000$
WWCCV	Wood and waste expenditures in the commercial sector.	Million dollars	$WWCCVZZ = WDC3VZZ + WDC4VZZ + WSC3VZZ$ $WWCCVUS = \Sigma WWCCVZZ$
WWEID	Wood and waste price in the electric power sector.	Dollars per million Btu	WWEIDZZ is independent. $WWEIDUS = WWEIVUS / WWEIBUS * 1000$
WWEIV	Wood and waste expenditures in the electric power sector.	Million dollars	$WWEIVZZ = WWEIBZZ * WWEIDZZ / 1000$ $WWEIVUS = \Sigma WWEIVZZ$
WWI4D	Wood and waste prices in the industrial sector other than CHP and electricity-only plants.	Dollars per million Btu	WWI4DZZ is independent. $WWI4DUS = WWI4VUS / WWIVBUS$
WWI4V	Wood and waste expenditures in the industrial sector other than CHP and electricity-only plants.	Million dollars	$WWI4VZZ = WWIVBZZ * WWI4DZZ / 1000$ $WWI4VUS = \Sigma WWI4VZZ$
WWICD	Wood and waste price in the industrial sector.	Dollars per million Btu	$WWICD = WWICV / WWISB * 1000$
WWICV	Wood and waste expenditures in the industrial sector.	Million dollars	$WWICVZZ = WDI3VZZ + WSI3VZZ + WWI4VZZ$ $WWICVUS = \Sigma WWICVZZ$
WWSSV	Wood and waste total end-use expenditures.	Million dollars	$WWSSVZZ = WDRCVZZ + WWCCVZZ + WWICVZZ$ $WWSSVUS = \Sigma WWSSVZZ$
WWTCD	Wood and waste average price, all sectors.	Dollars per million Btu	$WWTCD = WWTCV / WWSCB * 1000$
WWTCV	Wood and waste total expenditures.	Million dollars	$WWTCVZZ = WWEIVZZ + WWSSVZZ$ $WWTCVUS = \Sigma WWTCVZZ$
WWTXD	Wood and waste average price, all end-use sectors.	Dollars per million Btu	$WWTXD = WWTXV / WWSSB * 1000$
WWTXV	Wood and waste total end-use expenditures.	Million dollars	$WWTXVZZ = WDRCVZZ + WWCCVZZ + WWICVZZ$ $WWTXVUS = \Sigma WWTXVZZ$

Table A1. Price and Expenditure Variables (cont.)

MSN	Description	Unit	Formula
WXICD	Waxes price in the industrial sector.	Dollars per million Btu	WXICDZZ is independent. $WXICDUS = WXICVUS / WXICBUS * 1000$
WXICV	Waxes expenditures in the industrial sector.	Million dollars	$WXICVZZ = WXICBZZ * WXICDZZ / 1000$ $WXICVUS = \Sigma WXICVZZ$

Table A2. Consumption Adjustment Variables

MSN	Description	Unit	Formula
BDLCB	Energy losses and co-products from the production of biodiesel.	Billion Btu	SEDS consumption variable
BFLCB	Energy losses and co-products from the production of biofuels.	Billion Btu	SEDS consumption variable
CLISB	Coal consumed by the industrial sector excluding refinery fuel.	Billion Btu	$CLISB = CLKCB + CLOSB$
CLOCB	Coal consumed by industrial users other than coke plants.	Billion Btu	SEDS consumption variable
CLOCK	Factor for converting coal consumed by industrial users other than coke plants from physical units to Btu.	Million Btu per short ton	SEDS consumption variable
CLOSB	Coal consumed by the industrial sector other than coke plants excluding refinery fuel.	Billion Btu	$CLOSB = CLOCB - CLRFB$
CLRFB	Coal consumed as refinery fuel.	Billion Btu	$CLRFBZZ = CLRFPZZ * CLOCKZZ$
CLRFP	Coal consumed as refinery fuel.	Thousand short tons	2013 forward: CLRFPZZ is independent. 1981 through 2012: $CLRFPZZ = (CLOCPZZ / CLOCPPZ) * CLRFPZ$ for states belonging to a specific PADD, PZ. Before 1981: CLRFPZZ is independent for selected states. $CLRFPZZ = (CLOCPZZ / CLOCPGZ) * CLRFPZ$ for states belonging to a specific state group, GZ.
CLSCB	Coal total consumption adjusted for process fuel.	Billion Btu	$CLSCB = CLACB + CLCCB + CLEIB + CLISB + CLRCB$
CLXCB	Coal consumed by all sectors excluding coke plants and refineries.	Billion Btu	$CLXCB = CLACB + CLCCB + CLEIB + CLOSB + CLRCB$
DFISB	Distillate fuel oil consumed by the industrial sector excluding refinery fuel.	Billion Btu	$DFISB = DFICB - DFRFB$
DFRFB	Distillate fuel oil consumed as refinery fuel.	Billion Btu	$DFRFBZZ = DFRFPZZ * DFTCKUS$

Table A2. Consumption Adjustment Variables (cont.)

MSN	Description	Unit	Formula
DFRFP	Distillate fuel oil consumed as refinery fuel.	Thousand barrels	2013 forward: DFRFPZZ is independent. 1981 through 2012: DFRFPZZ = (DFICPZZ / DFICPPZ) * DFRFPPZ for states belonging to a specific PADD, PZ. Before 1981: DFRFPZZ is independent for selected states. DFRFPZZ = (DFICPZZ / DFICPGZ) * DFRFPGZ for states belonging to a specific state group, GZ.
DFSCB	Distillate fuel oil total consumption adjusted for process fuel.	Billion Btu	DFSCB = DFACB + DFCCB + DFEIB + DFISB + DFRCB
EMLCB	Energy losses and co-products from the production of fuel ethanol.	Billion Btu	SEDS consumption variable
ESISB	Electricity consumed by the industrial sector excluding refinery use.	Billion Btu	ESISB = ESICB - ESRFB
ESRFB	Electricity consumed by refineries.	Billion Btu	ESRFBZZ = ESRFPZZ * 3.412
ESRFP	Electricity consumed by refineries.	Million kilowatthours	2013 forward: ESRFPZZ is independent. 1981 through 2012: ESRFPZZ = (ESICPZZ / ESICPPZ) * ESRFPPZ for states belonging to a specific PADD, PZ. Before 1981: ESRFPZZ is independent for selected states. ESRFPZZ = (ESICPZZ / ESICPGZ) * ESRFPGZ for states belonging to a specific state group, GZ.
ESSCB	Electricity total consumption adjusted for process fuel.	Billion Btu	ESSCB = ESACB + ESSCB + ESISB + ESRCB
HLISB	Hydrocarbon gas liquids consumed by the industrial sector adjusted for processed fuel.	Billion Btu	HLISB = HLICB - HLRFB
HLRFB	Hydrocarbon gas liquids consumed as refinery fuel and intermediate products.	Billion Btu	2010 forward: HLRFBZZ = PQRFBZZ Before 2010: HLRFBZZ is independent.

Table A2. Consumption Adjustment Variables (cont.)

MSN	Description	Unit	Formula
HLRFP	Hydrocarbon gas liquids consumed as refinery fuel and intermediate products.	Thousand barrels	2010 forward: HLRFPZZ = PQRFPZZ Before 2010: HLRFPZZ is independent.
HLSCB	Hydrocarbon gas liquids total consumption adjusted for processed fuel.	Billion Btu	HLSCB = HLACB + HLCCB + HLISB + HLRCB
NGASB	Natural gas consumed by the transportation sector adjusted for process fuel.	Billion Btu	NGASB = NGACB - NGPZB
NGISB	Natural gas consumed by the industrial sector excluding refinery fuel and lease and plant fuels (including supplemental gaseous fuels).	Billion Btu	NGISB = NGICB - NGRFB - NGLPB
NGLPB	Natural gas consumed as lease and plant fuel.	Billion Btu	SEDS consumption variable
NGPZB	Natural gas for pipeline and distribution use.	Billion Btu	SEDS consumption variable
NGRFB	Natural gas consumed as refinery fuel (including supplemental gaseous fuels).	Billion Btu	NGRFBZZ = NGRFPZZ * NGTXKZZ
NGRFP	Natural gas consumed as refinery fuel (including supplemental gaseous fuels).	Million cubic feet	2013 forward: NGRFPZZ is independent. 1981 through 2012: NGRFPZZ = (NGICPZZ / NGICPPZ) * NGRFPZ for states belonging to a specific PADD, PZ. Before 1981: NGRFPZZ is independent for selected states. NGRFPZZ = (NGICPZZ / NGICPGZ) * NGRFPGZ for states belonging to a specific state group, GZ.
NGSCB	Natural gas total consumption adjusted for process fuel.	Billion Btu	NGSCB = NGASB + NGCCB + NGEIB + NGISB + NGRCB
NGTXK	Factor for converting natural gas consumed by all sectors other than electric power from physical units to Btu.	Thousand Btu per cubic foot	SEDS consumption variable
OHICB	Other hydrocarbon gas liquids (other than propane) consumed by the industrial sector.	Billion Btu	OHICB = HLICB - PQICB
OPISB	Other petroleum products consumed by the industrial sector excluding refinery fuel and intermediate products.	Billion Btu	OPISB = FNICB + FOICB + FSICB + MSICB + SNICB + WXICB

Table A2. Consumption Adjustment Variables (cont.)

MSN	Description	Unit	Formula
OPSCB	Other petroleum products total consumption adjusted for refinery fuel and intermediate products.	Billion Btu	$OPSCB = OPISB$
P1ISB	Asphalt and road oil, kerosene, lubricants, petroleum coke, and other petroleum products consumed by the industrial sector excluding refinery fuel and intermediate products.	Billion Btu	$P1ISB = ARICB + KSICB + LUICB + OPISB + PCISB$
P1SCB	Asphalt and road oil, kerosene, lubricants, petroleum coke, and other petroleum products total consumption adjusted for process fuel and intermediate products.	Billion Btu	$P1SCB = ARTCB + AVTCB + KSTCB + LUTCB + OPSCB + PCSCB$
P5RFB	Other petroleum products consumed as refinery fuel and intermediate products.	Billion Btu	$P5RFB = ABICB + MBICB + SGICB + UOICB$
PAISB	All petroleum products consumed by the industrial sector excluding process fuel and intermediate products.	Billion Btu	$PAISB = ARICB + DFISB + HLISB + KSICB + LUICB + MGICB + OPISB + PCISB + RFISB$
PASCB	All petroleum products total consumption adjusted for process fuel and intermediate products.	Billion Btu	$PASCB = ARTCB + AVTCB + DFSCB + HLSCB + JFTCB + KSTCB + LUTCB + MGTCB + OPSCB + PCSCB + RFSCB$
PCISB	Petroleum coke consumed by the industrial sector excluding refinery fuel.	Billion Btu	$PCISB = PCICB - PCRFB$
PCRFB	Petroleum coke consumed as refinery fuel.	Billion Btu	SEDS consumption variable
PCSCB	Petroleum coke total consumption adjusted for process fuel.	Billion Btu	$PCSCB = PCCCB + PCEIB + PCISB$
PEASB	Primary energy consumed by the transportation sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	1993 forward: $PEASB = CLACB + NGASB + PAACB$ Before 1993: $PEASB = CLACB + EMACB + NGASB + PAACB$
PECSB	Primary energy consumed by the commercial sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	1993 forward: $PECSB = CLCCB + NGCCB + PACCB + WWCSB$ Before 1993: $PECSB = CLCCB + EMCCB + NGCCB + PACCB + WWCSB$

Table A2. Consumption Adjustment Variables (cont.)

MSN	Description	Unit	Formula
PEISB	Primary energy consumed by the industrial sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	1993 forward: $PEISBZZ = CLISBZZ + NGISBZZ + PAISBZZ + WWISBZZ$ $PEISBUS = \Sigma PEISBZZ + CCNIBUS$ Before 1993: $PEISBZZ = CLISBZZ + EMICBZZ + NGISBZZ + PAISBZZ + WWISBZZ$ $PEISBUS = \Sigma PEISBZZ + CCNIBUS$
PERSB	Primary energy consumed by the residential sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	$PERSB = CLRCB + NGRCB + PARCB + WDRSB$
PESCB	Primary energy total consumption, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	$PESCB = PEEIB + PESSB$
PESSB	Primary energy total end-use consumption, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	$PESSB = PEASB + PECSB + PEISB + PERSB$
PQISB	Propane consumed by the industrial sector excluding refinery fuel.	Billion Btu	$PQISB = PQICB - PQRFB$
PQRFB	Propane consumed as refinery fuel.	Billion Btu	$PQRFBZZ = PQRFPZZ * 3.841$
PQRFP	Propane consumed as refinery fuel.	Thousand barrels	PQRFPZZ is independent.
RFISB	Residual fuel oil consumed by the industrial sector excluding refinery fuel.	Billion Btu	$RFISB = RFICB - RFRFB$
RFRFB	Residual fuel oil consumed as refinery fuel.	Billion Btu	$RFRFBZZ = RFRFPZZ * 6.287$ $RFRFBUS = \Sigma RFRFBZZ$
RFRFP	Residual fuel oil consumed as refinery fuel.	Thousand barrels	2013 forward: RFRFPZZ is independent. 1981 through 2012: $RFRFPZZ = (RFICPZZ / RFICPPZ) * RFRFPZ$ for states belonging to a specific PADD, PZ. Before 1981: RFRFPZZ is independent for selected states. $RFRFPZZ = (RFICPZZ / RFICPGZ) * RFRFPZ$ for states belonging to a specific state group, GZ.
RFSCB	Residential fuel oil total consumption excluding process fuel.	Billion Btu	$RFSCB = RFACB + RFCCB + RFEIB + RFISB$

Table A2. Consumption Adjustment Variables (cont.)

MSN	Description	Unit	Formula
SFINB	Supplemental gaseous fuels consumed by the industrial sector.	Billion Btu	SEDS consumption variable
TEPFB	Total energy used as process fuel and other consumption that has no direct fuel costs.	Billion Btu	TEPFB = BDLCB + COICB + EMLCB + GECCB + GEICB + GERCB + HYCCB + HYICB + LOTCB + NGLPB + NGPZB + SOCCB + SOICB + SORCB + TERFB + WDRXB + WWCXB + WWIXB + WYCCB + WYICB
TERFB	Total energy used as refinery fuel and intermediate products.	Billion Btu	TERFB = CLRFB + DFRFB + ESRFB + HLRFB + NGRFB + P5RFB + PCRFB + RFRFB
TNASB	Total net energy consumed by the transportation sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	TNASB = ESACB + PEASB
TNCSB	Total net energy consumed by the commercial sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	TNCSB = ESSCB + PECSB
TNISB	Total net energy consumed by the industrial sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	TNISB = ESISB + PEISB
TNRSB	Total net energy consumed by the residential sector, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	TNRSB = ESRCB + PERSB
TNSCB	Total net energy consumption, adjusted for process fuel, intermediate products, and fuels with no direct cost.	Billion Btu	TNSCB = ESSCB + PESSB
WDCUB	Wood consumed by the commercial sector other than CHP and electricity-only plants, at no cost.	Billion Btu	WDCUB = WDC4B - WDCVB
WDCVB	Wood consumed by the commercial sector other than CHP and electricity-only plants, costed.	Billion Btu	WDCVBZZ = WDC4BZZ * WDPHSZZ WDCVBUS = ΣWDCVBZZ
WDCYB	Wood consumed by commercial CHP and electricity-only plants, costed.	Billion Btu	WDCYBZZ = WDC3BZZ * WDEISUS WDCYBUS = ΣWDCYBZZ
WDCZB	Wood consumed by commercial CHP and electricity-only plants, at no cost.	Billion Btu	WDCZB = WDC3B - WDCYB
WDEIS	Purchased wood as a percentage of all wood consumed by the electric power sector, U.S. only.	Percent	WDEISUS is independent.

Table A2. Consumption Adjustment Variables (cont.)

MSN	Description	Unit	Formula
WDIYB	Wood consumed by industrial CHP and electricity-only plants, costed.	Billion Btu	WDIYBZZ = WDI3BZZ * WDEISUS WDIYBUS = ΣWDIYBZZ
WDIZB	Wood consumed by industrial CHP and electricity-only plants, at no cost.	Billion Btu	WDIZB = WDI3B - WDIYB
WDPHS	Purchased wood as a percentage of all wood consumed by the residential sector.	Percent	WDPHS is independent.
WDRSB	Wood consumed by the residential sector, costed.	Billion Btu	WDRSBZZ = WDRCBZZ * WDPHSZZ WDRSBUS = ΣWDRSBZZ
WDRXB	Wood consumed by the residential sector, at no cost.	Billion Btu	WDRXB = WDRCB - WDRSB
WSCYB	Waste consumed by commercial CHP and electricity-only plants, costed.	Billion Btu	WSCYBZZ = WSC3BZZ * WSEISUS WSCYBUS = ΣWSCYBZZ
WSCZB	Waste consumed by commercial CHP and electricity-only plants, at no cost.	Billion Btu	WSCZB = WSC3B - WSCYB
WSEIS	Purchased waste as a percentage of all waste consumed by the electric power sector, U.S. only.	Percent	WSEISUS is independent.
WSIYB	Waste consumed by industrial CHP and electricity-only plants, costed.	Billion Btu	WSIYBZZ = WSI3BZZ * WSEISUS WSIYBUS = ΣWSIYBZZ
WSIZB	Waste consumed by industrial CHP and electricity-only plants, at no cost.	Billion Btu	WSIZB = WSI3B - WSIYB
WWCSB	Wood and waste consumed by the commercial sector, costed.	Billion Btu	WWCSB = WDCVB + WDCYB + WSCYB
WWCXB	Wood and waste consumed by the commercial sector, at no cost.	Billion Btu	WWCXB = WDCUB + WDCZB + WSCZB
WWISB	Wood and waste consumed by the industrial sector, costed.	Billion Btu	WWISB = WDIYB + WSIYB + WWIVB
WWIXB	Wood and waste consumed by the industrial sector, at no cost.	Billion Btu	WWIXB = WDIZB + WSIZB + WWIUB
WWIUB	Wood and waste consumed by the industrial sector other than CHP and electricity-only plants, at no cost.	Billion Btu	WWIUB = WWI4B - WWIVB
WWIVB	Wood and waste consumed by the industrial sector other than CHP and electricity-only plants, costed.	Billion Btu	WWIVB is independent.

MSN	Description	Unit	Formula
WWSCB	Wood and waste total consumption, adjusted for fuels with no direct cost.	Billion Btu	$WWSCB = WWSSB + WWEIB$
WWSSB	Wood and waste consumed by the end-use sectors, costed.	Billion Btu	$WWSSB = WDRSB + WWCSB + WWISB$