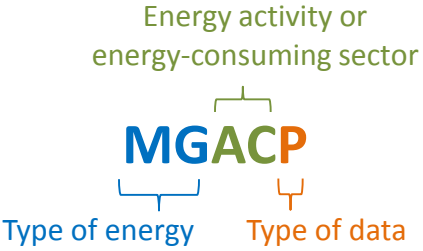


# Appendix A. Mnemonic Series Names (MSN)

This appendix contains an alphabetical listing of the variable used in the consumption module of the State Energy Data System (SEDS). 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” represent the two-letter code of a state, and formulas for the United States have “US” following the variable name.

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



Characters 1 through 4 are explained in the description of each variable.

Character 5 is one of the following:

- B = Data in British thermal units (Btu)
- K = Factor for converting data from physical units to Btu
- M = Data in alternative physical units
- P = Data in standardized physical units
- S = Share or ratio expressed as a fraction
- V = Value, such as value of shipments

Associated with or attached to the variable names are two-letter U.S. Postal Service codes for the 50 states and the District of Columbia (represented by “ZZ” following the variable names) and the United States (“US”). In this system, the United States means the 50 states and the District of Columbia.

**Table A1. Consumption Variables**

MSN	Description	Unit	Formula
ABICB	Aviation gasoline blending components total consumed by the industrial sector.	Billion Btu	ABICBZZ = ABTCBZZ ABICBUS = ABTCBUS
ABICP	Aviation gasoline blending components total consumed by the industrial sector.	Thousand barrels	ABICPZZ = ABTCPZZ ABICPUS = ABTCPUS
ABTCB	Aviation gasoline blending components total consumed.	Billion Btu	ABTCBZZ = ABTCPZZ * 5.048 ABTCBUS = ΣABTCBZZ
ABTCP	Aviation gasoline blending components total consumed.	Thousand barrels	ABTCPZZ = (COCAPZZ / COCAPUS) * ABTCPUS ABTCPUS is independent.
AICAP	Aluminum ingot production capacity.	Short tons	AICAPZZ is independent. AICAPUS = ΣAICAPZZ
ARICB	Asphalt and road oil consumed by the industrial sector.	Billion Btu	ARICBZZ = ARICPZZ * 6.636 ARICBUS = ΣARICBZZ
ARICP	Asphalt and road oil consumed by the industrial sector.	Thousand barrels	ARICPZZ = ASICPZZ + RDICPZZ ARICPUS = ΣARICPZZ
ARTCB	Asphalt and road oil total consumed.	Billion Btu	ARTCBZZ = ARICBZZ ARTCBUS = ARICBUS
ARTCP	Asphalt and road oil total consumed.	Thousand barrels	ARTCPZZ = ASTCPZZ + RDTCPZZ ARTCPUS = ΣARTCPZZ
ARTXB	Asphalt and road oil total end-use consumption.	Billion Btu	ARTXBZZ = ARICBZZ ARTXBUS = ARICBUS
ARTXP	Asphalt and road oil total end-use consumption. sectors.	Thousand barrels	ARTXPZZ = ARICPZZ ARTXPUS = ARICPUS
ASICP	Asphalt consumed by the industrial sector.	Thousand barrels	Before 2009: ASICPZZ = (ASINPZZ / ASINPUS) * ASTCPUS ASICPUS = ΣASICPZZ From 2009 forward: ASICPZZ = (ASPRPZZ / ASPRPUS) * ASTCPUS ASICPUS = ΣASICPZZ
ASINP	Asphalt sold to the industrial sector.	Short tons	ASINPZZ is independent. ASINPUS = ΣASINPZZ
ASPRP	Asphalt (hot-mix and warm-mix) production excluding reclaimed asphalt pavement.	Short tons	ASPRPZZ is independent. ASPRPUS = ΣASPRPZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
ASTCP	Asphalt total consumed.	Thousand barrels	ASTCPZZ = ASICPZZ ASTCPUS is independent.
AVACB	Aviation gasoline consumed by the transportation sector.	Billion Btu	AVACBZZ = AVACPZZ * 5.048 AVACBUS = ΣAVACBZZ
AVACP	Aviation gasoline consumed by the transportation sector.	Thousand barrels	AVACPZZ = (AVTTPZZ / AVTTPUS) * AVTCPUS AVACPUS = ΣAVACPZZ
AVMIP	Aviation gasoline issued to the military.	Thousand barrels	AVMIPZZ is independent. AVMIPUS = ΣAVMIPZZ
AVNMM	Aviation gasoline sold to nonmilitary users.	Thousand gallons	AVNMMZZ is independent. AVNMMUS = ΣAVNMMZZ
AVNMP	Aviation gasoline sold to nonmilitary users.	Thousand barrels	AVNMPZZ = AVNMMZZ / 42 AVNMPUS = ΣAVNMPZZ
AVTCB	Aviation gasoline total consumed.	Billion Btu	AVTCBZZ = AVACBZZ AVTCBUS = ΣAVTCBZZ
AVTCP	Aviation gasoline total consumed.	Thousand barrels	AVTCPZZ = AVACPZZ AVTCPUS is independent.
AVTTP	Aviation gasoline total sales to the transportation sector.	Thousand barrels	AVTTPZZ = AVNMPZZ + AVMIPZZ AVTTPUS = ΣAVTTPZZ
AVTXB	Aviation gasoline total end-use consumption.	Billion Btu	AVTXBZZ = AVACBZZ AVTXBUS = ΣAVTXBZZ
AVTXP	Aviation gasoline total end-use consumption.	Thousand barrels	AVTXPZZ = AVACPZZ AVTXPUS = ΣAVTXPZZ
BMTCB	Biomass total consumed.	Billion Btu	BMTCB = WWTCB + EMTCB + EMLCB
BQICB	Normal butane consumed by the industrial sector.	Billion Btu	BQICBZZ = BQTCBZZ BQICBUS = BQTCBUS
BQICP	Normal butane consumed by the industrial sector.	Thousand barrels	BQICPZZ = BQTCPZZ BQICPUS = BQTCPUS
BQTCB	Normal butane total consumed.	Billion Btu	BQTCBZZ = BQTCPZZ * 4.326 BQTCBUS = ΣBQTCBZZ
BQTCP	Normal butane total consumed.	Thousand barrels	BQTCPZZ is independent. BQTCPUS is independent.

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
BYICB	Butylene from refineries consumed by the industrial sector.	Billion Btu	BYICBZZ = BYTCBZZ BYICBUS = BYTCBUS
BYICP	Butylene from refineries consumed by the industrial sector.	Thousand barrels	BYICPZZ = BYTCPZZ BYICPUS = BYTCPUS
BYTCB	Butylene from refineries total consumed.	Billion Btu	BYTCBZZ = BYTCPZZ * 4.410 BYTCBUS = ΣBYTCBZZ
BYTCP	Butylene from refineries total consumed.	Thousand barrels	BYTCPZZ is independent. BYTCPUS is independent.
CCEXBUS	Coal coke exported from the United States.	Billion Btu	CCEXBUS = CCEXPUS * 24.80
CCEXPUS	Coal coke exported from the United States.	Thousand short tons	CCEXPUS is independent.
CCIMBUS	Coal coke imported into the United States.	Billion Btu	CCIMBUS = CCIMPUS * 24.80
CCIMPUS	Coal coke imported into the United States.	Thousand short tons	CCIMPUS is independent.
CCNIBUS	Coal coke net imports into the United States.	Billion Btu	CCNIBUS = CCIMBUS - CCEXBUS
CCNIPUS	Coal coke net imports into the United States.	Thousand short tons	CCNIPUS = CCIMPUS - CCEXPUS
CGVAV	Value of shipments (value added prior to 2001) for the corrugated and solid fiber box manufacturing industry.	Million dollars	CGVAVZZ is independent. CGVAVUS = ΣCGVAVZZ
CLACB	Coal consumed by the transportation sector.	Billion Btu	CLACBZZ = CLACPZZ * CLACKZZ CLACBUS = ΣCLACBZZ
CLACK	Factor for converting coal consumed by the transportation sector from physical units to Btu.	Million Btu per short ton	CLACKZZ is independent. CLACKUS = CLACBUS / CLACPUS
CLACP	Coal consumed by the transportation sector.	Thousand short tons	CLACPZZ = (CLICPZZ / CLICPUS) * CLACPUS CLACPUS is independent.
CLCCB	Coal consumed by the commercial sector.	Billion Btu	CLCCBZZ = CLCCPZZ * CLHCKZZ CLCCBUS = ΣCLCCBZZ
CLCCP	Coal consumed by the commercial sector.	Thousand short tons	CLCCPZZ = CLHCPZZ - CLRCPZZ CLCCPUS = ΣCLCCPZZ
CLEIB	Coal consumed by the electric power sector.	Billion Btu	CLEIBZZ = CLEIPZZ * CLEIKZZ CLEIBUS = ΣCLEIBZZ
CLEIK	Factor for converting coal consumed by the electric power sector from physical units to Btu.	Million Btu per short ton	CLEIKZZ is independent. CLEIKUS = CLEIBUS / CLEIPUS

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
CLEIP	Coal consumed by the electric power sector.	Thousand short tons	CLEIPZZ is independent. CLEIPUS = $\Sigma$ CLEIPZZ
CLHCB	Coal consumed by the residential and commercial sectors.	Billion Btu	CLHCBZZ = CLCCBZZ + CLRCBZZ CLHCBUS = $\Sigma$ CLHCBZZ
CLHCK	The factor for converting coal consumed by the residential and commercial sectors from physical units to Btu.	Million Btu per short ton	CLHCKZZ is independent. CLHCKUS = CLHCBUS / CLHCPUS
CLHCP	Coal consumed by the residential and commercial sectors (commercial sector from 2008 forward).	Thousand short tons	CLHCPZZ = (CLHDPZZ / CLHDPUS) * CLHCPUS CLHCPUS is independent.
CLHDP	Coal distributed to the residential and commercial sectors (commercial sector from 2008 forward).	Thousand short tons	CLHDPZZ is independent. CLHDPUS = $\Sigma$ CLHDPZZ
CLICB	Coal consumed by the industrial sector.	Billion Btu	CLICBZZ = CLKCBZZ + CLOCBZZ CLICBUS = $\Sigma$ CLICBZZ
CLICP	Coal consumed by the industrial sector.	Thousand short tons	CLICPZZ = CLKCPZZ + CLOCPZZ CLICPUS = $\Sigma$ CLICPZZ
CLKCB	Coal consumed at coke plants (coking coal).	Billion Btu	CLKCBZZ = CLKCPZZ * CLKCKZZ CLKCBUS = $\Sigma$ CLKCBZZ
CLKCK	The factor for converting coal consumed at coke plants from physical units to Btu.	Million Btu per short ton	CLKCKZZ is independent. CLKCKUS = CLKCBUS / CLKCPUS
CLKCP	Coal consumed by coke plants (coking coal).	Thousand short tons	CLKCPZZ = (CLKDPZZ / CLKDPUS) * CLKCPUS CLKCPUS is independent.
CLKDP	Coal distributed to coke plants (coking coal).	Thousand short tons	CLKDPZZ is independent. CLKDPUS = $\Sigma$ CLKDPZZ
CLOCB	Coal consumed by other industrial users.	Billion Btu	CLOCBZZ = CLOCPZZ * CLOCKZZ CLOCBUS = $\Sigma$ CLOCBZZ
CLOCK	The factor for converting coal consumed by other industrial users from physical units to Btu.	Million Btu per short ton	CLOCKZZ is independent. CLOCKUS = CLOCBUS / CLOCPUS
CLOCP	Coal consumed by other industrial users.	Thousand short tons	CLOCPZZ = (CLODPZZ / CLODPUS) * CLOCPUS CLOCPUS is independent.
CLODP	Coal distributed to other industrial users.	Thousand short tons	CLODPZZ is independent. CLODPUS = $\Sigma$ CLODPZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
CLRCB	Coal consumed by the residential sector.	Billion Btu	CLRCBZZ = CLRCPZZ * CLHCKZZ CLRCBUS = ΣCLRCBZZ
CLRCP	Coal consumed by the residential sector.	Thousand short tons	CLRCPZZ = CLHCPZZ * CLRCSUS CLRCPUS = ΣCLRCPZZ
CLRCSUS	The share of residential and commercial coal consumed by the residential sector.	Percent	CLRCSUS is independent.
CLTCB	Coal total consumed.	Billion Btu	CLTCBZZ = CLRCBZZ + CLCCBZZ + CLICBZZ + CLACBZZ + CLEIBZZ CLTCBUS = ΣCLTCBZZ
CLTCP	Coal total consumed.	Thousand short tons	CLTCPZZ = CLRCPZZ + CLCCPZZ + CLICPZZ + CLACPZZ + CLEIPZZ CLTCPUS = ΣCLTCPZZ
CLTXB	Coal total end-use consumption.	Billion Btu	CLTXBZZ = CLACBZZ + CLCCBZZ + CLICBZZ + CLRCBZZ CLTXBUS = ΣCLTXBZZ
CLTXP	Coal total end-use consumption.	Thousand barrels	CLTXPZZ = CLACPZZ + CLCCPZZ + CLICPZZ + CLRCPZZ CLTXPUS = ΣCLTXPZZ
COCAP	Atmospheric crude oil distillation operable capacity (operating capacity before 2013) at refineries.	Barrels per calendar day	COCAPZZ is independent. COCAPUS = ΣCOCAPZZ
COICB	Crude oil consumed by the industrial sector.	Billion Btu	COICBZZ = COTCBZZ COICBUS = COTCBUS
COICP	Crude oil consumed by the industrial sector.	Thousand barrels	COICPZZ = COTCPZZ COICPUS = COTCPUS
COTCB	Crude oil consumed in petroleum industry operations.	Billion Btu	COTCBZZ = COTCPZZ * 5.800 COTCBUS = ΣCOTCBZZ
COTCP	Crude oil consumed in petroleum industry operations.	Thousand barrels	COTCPZZ is independent. COTCPUS = ΣCOTCPZZ
CTCAP	Catalytic cracking charge capacity of petroleum refineries.	1960 through 1979: Barrels per calendar day; From 1980 forward: Barrels per stream day	CTCAPZZ is independent. CTCAPUS = ΣCTCAPZZ
DFACB	Distillate fuel oil consumed by the transportation sector.	Billion Btu	DFACBZZ = DFACPZZ * DFTCKUS DFACBUS = ΣDFACBZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
DFACP	Distillate fuel oil consumed by the transportation sector.	Thousand barrels	$DFACPZZ = (DFTRPZZ / DFNDPZZ) * DFNCPZZ$ $DFACPUS = \Sigma DFACPZZ$
DFBKP	Distillate fuel oil sales for vessel bunkering use, excluding that sold to the military.	Thousand barrels	DFBKPZZ is independent. $DFBKPUS = \Sigma DFBKPZZ$
DFCCB	Distillate fuel oil consumed by the commercial sector.	Billion Btu	$DFCCBZZ = DFCCPZZ * DFTCKUS$ $DFCCBUS = \Sigma DFCCBZZ$
DFCCP	Distillate fuel oil consumed by the commercial sector.	Thousand barrels	$DFCCPZZ = (DFCMPZZ / DFNDPZZ) * DFNCPZZ$ $DFCCPUS = \Sigma DFCCPZZ$
DFCMP	Distillate fuel oil sales to the commercial sector.	Thousand barrels	DFCMPZZ is independent.
DFEIB	Distillate fuel oil consumed by the electric power sector.	Billion Btu	$DFEIBZZ = DFEIPZZ * DFTCKUS$ $DFEIBUS = \Sigma DFEIBZZ$
DFEIP	Distillate fuel oil (excluding kerosene-type jet fuel) consumed by the electric power sector.	Thousand barrels	$DFEIPZZ = DKEIPZZ - JKEUPZZ$ $DFEIPUS = \Sigma DFEIPZZ$
DFIBP	Distillate fuel oil sales for industrial space heating and other industrial use, including farm use.	Thousand barrels	DFIBPZZ is independent. $DFIBPUS = \Sigma DFIBPZZ$
DFICB	Distillate fuel oil consumed by the industrial sector.	Billion Btu	$DFICBZZ = DFICPZZ * DFTCKUS$ $DFICBUS = \Sigma DFICBZZ$
DFICP	Distillate fuel oil consumed by the industrial sector.	Thousand barrels	$DFICPZZ = (DFINPZZ / DFNDPZZ) * DFNCPZZ$ $DFICPUS = \Sigma DFICPZZ$
DFINP	Distillate fuel oil sales to the industrial sector.	Thousand barrels	$DFINPZZ = DFIBPZZ + DFOCPZZ + DFOFPZZ + DFOTPZZ$ $DFINPUS = \Sigma DFINPZZ$
DFMIP	Distillate fuel oil sales to the military, regardless of use.	Thousand barrels	DFMIPZZ is independent. $DFMIPUS = \Sigma DFMIPZZ$
DFNCP	Distillate fuel oil consumption by all sectors other than the electric power sector.	Thousand barrels	$DFNCPZZ = (DFNDPZZ / DFNDPUS) * DFNCPUS$ $DFNCPUS = DFTCPUS - DFEIPUS$
DFNDP	Distillate fuel oil sales to all sectors other than the electric power sector.	Thousand barrels	$DFNDPZZ = DFRSPZZ + DFCMPZZ + DFINPZZ + DFTRPZZ$ $DFNDPUS = \Sigma DFNDPZZ$
DFOCP	Distillate fuel oil sales for use by oil companies.	Thousand barrels	DFOCPZZ is independent. $DFOCPUS = \Sigma DFOCPZZ$
DFOFP	Distillate fuel oil sales as diesel fuel for off-highway use.	Thousand barrels	DFOFPZZ is independent. $DFOFPUS = \Sigma DFOFPZZ$

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
DFONP	Distillate fuel oil sales as diesel fuel for on-highway use.	Thousand barrels	DFONPZZ is independent. DFONPUS = $\Sigma$ DFONPZZ
DFOTP	Distillate fuel oil sales for all other uses not identified in other sales categories.	Thousand barrels	DFOTPZZ is independent. DFOTPUS = $\Sigma$ DFOTPZZ
DFRCB	Distillate fuel oil consumed by the residential sector.	Billion Btu	DFRCBZZ = DFRCPZZ * DFTCKUS DFRCBUS = $\Sigma$ DFRCBZZ
DFRCP	Distillate fuel oil consumed by the residential sector.	Thousand barrels	DFRCPZZ = (DFRSPZZ / DFNDPZZ) * DFNCPZZ DFRCPUS = $\Sigma$ DFRCPZZ
DFRRP	Distillate fuel oil sales for use by railroads.	Thousand barrels	DFRRPZZ is independent. DFRRPUS = $\Sigma$ DFRRPZZ
DFRSP	Distillate fuel oil sales to the residential sector.	Thousand barrels	DFRSPZZ is independent. DFRSPUS = $\Sigma$ DFRSPZZ
DFTCB	Distillate fuel oil total consumed.	Billion Btu	DFTCBZZ = DFRCBZZ + DFCCBZZ + DFICBZZ + DFACBZZ + DFEIBZZ DFTCBUS = $\Sigma$ DFTCBZZ
DFTCP	Distillate fuel oil total consumed.	Thousand barrels	DFTCPZZ = DFNCPZZ + DFEIPZZ DFTCPUS is independent.
DFTCKUS	Factor for converting distillate fuel from physical units to Btu.	Million Btu per barrel	DFTCKUS is independent.
DFTRP	Distillate fuel oil sales to the transportation sector.	Thousand barrels	DFTRPZZ = DFBKPZZ + DFMIPZZ + DFRRPZZ + DFONPZZ DFTRPUS = $\Sigma$ DFTRPZZ
DFTXB	Distillate fuel oil total end-use consumption.	Billion Btu	DFTXBZZ = DFACBZZ + DFCCBZZ + DFICBZZ + DFRCBZZ DFTXBUS = $\Sigma$ DFTXBZZ
DFTXP	Distillate fuel oil total end-use consumption.	Thousand barrels	DFTXPZZ = DFACPZZ + DFCCPZZ + DFICPZZ + DFRCPZZ DFTXPUS = $\Sigma$ DFTXPZZ
DKEIB	Distillate fuel oil and kerosene-type jet fuel consumed by the electric power sector.	Billion Btu	DKEIBZZ = DFEIBZZ + JKEUBZZ DKEIBUS = $\Sigma$ DKEIBZZ
DKEIP	Distillate fuel oil and kerosene-type jet fuel consumed by the electric power sector.	Thousand barrels	DKEIPZZ is independent. DKEIPUS = $\Sigma$ DKEIPZZ
ELEXB	Electricity exported from the United States.	Billion Btu	ELEXBZZ = ELEXPZZ * 3.412 ELEXBUS = $\Sigma$ ELEXBZZ



**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
ELEXP	Electricity exported from the United States.	Million kilowatthours	ELEXPZZ is independent. ELEXPUS = $\Sigma$ ELEXPZZ
ELIMB	Electricity imported into the United States.	Billion Btu	ELIMBZZ = ELIMPZZ * 3.412 ELIMBUS = $\Sigma$ ELIMBZZ
ELIMP	Electricity imported into the United States.	Million kilowatthours	ELIMPZZ is independent. ELIMPUS = $\Sigma$ ELIMPZZ
ELISB	Net interstate flow of electricity. (Negative indicates flow out of state; positive indicates flow into state.)	Billion Btu	Before 1990: ELISBZZ = (ESTCBZZ + LOTCBZZ) - TEEIBZZ ELISBUS = 0 From 1990 forward: If ELISPZZ < 0, ELISBZZ = -(TEEIBZZ * (-ELISPZZ / (-ELISPZZ + ESTCPZZ))) If ELISPZZ >= 0, ELISBZZ = ELISPZZ * (average heat content of energy for all outflow electricity) ELISBUS = 0
ELISP	Net interstate flow of electricity. (Negative indicates flow out of state; positive indicates flow into state.)	Million kilowatthours	ELISPZZ is independent. ELISPUS = 0
ELLSS48	The ratio of electrical system energy losses to electricity sold in the contiguous 48 states and the District of Columbia.	Fraction	ELLSS48 = LOTCB48 / ESTCB48
ELNIB	Net imports of electricity into the United States.	Billion Btu	ELNIBZZ = ELIMBZZ - ELEXBZZ ELNIBUS = $\Sigma$ ELNIBZZ
ELNIP	Net imports of electricity into the United States.	Million kilowatthours	ELNIPZZ = ELIMPZZ - ELEXPZZ ELNIPUS = $\Sigma$ ELNIPZZ
EMACB	Fuel ethanol excluding denaturant consumed by the transportation sector.	Billion Btu	EMACBZZ = (MGACPZZ / MGTCPPZZ) * EMTCBZZ EMACBUS = $\Sigma$ EMACBZZ
EMCCB	Fuel ethanol excluding denaturant consumed by the commercial sector.	Billion Btu	EMCCBZZ = (MGCCPZZ / MGTCPPZZ) * EMTCBZZ EMCCBUS = $\Sigma$ EMCCBZZ
EMICB	Fuel ethanol excluding denaturant consumed by the industrial sector.	Billion Btu	EMICBZZ = (MGICPZZ / MGTCPPZZ) * EMTCBZZ EMICBUS = $\Sigma$ EMICBZZ
EMLCB	Energy losses and co-products from the production of fuel ethanol.	Billion Btu	EMLCBZZ = (EMPRBZZ / EMPRBUS) * EMLCBUS EMLCBUS is independent.

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
EMPRB	Fuel ethanol production excluding denaturant.	Billion Btu	EMPRBZZ is independent. EMPRBUS is independent.
EMTCB	Fuel ethanol excluding denaturant total consumed.	Billion Btu	EMTCBZZ = (EMTCBUS / ENTCBUS) * ENTCBZZ EMTCBUS is independent.
ENACB	Fuel ethanol including denaturant consumed by the transportation sector.	Billion Btu	ENACBZZ = (MGACPZZ / MGTCPZZ) * ENTCBZZ ENACBUS = ΣENACBZZ
ENACP	Fuel ethanol including denaturant consumed by the transportation sector.	Thousand barrels	ENACPZZ = (MGACPZZ / MGTCPZZ) * ENTCPZZ ENACPUS = ΣENACPZZ
ENCCB	Fuel ethanol including denaturant consumed by the commercial sector.	Billion Btu	ENCCBZZ = (MGCCPZZ / MGTCPZZ) * ENTCBZZ ENCCBUS = ΣENCCBZZ
ENCCP	Fuel ethanol including denaturant consumed by the commercial sector.	Thousand barrels	ENCCPZZ = (MGCCPZZ / MGTCPZZ) * ENTCPZZ ENCCPUS = ΣENCCPZZ
ENICB	Fuel ethanol including denaturant consumed by the industrial sector.	Billion Btu	ENICBZZ = (MGICPZZ / MGTCPZZ) * ENTCBZZ ENICBUS = ΣENICBZZ
ENICP	Fuel ethanol including denaturant consumed by the industrial sector.	Thousand barrels	ENICPZZ = (MGICPZZ / MGTCPZZ) * ENTCPZZ ENICPUS = ΣENICPZZ
ENTCB	Fuel ethanol including denaturant total consumed.	Billion Btu	ENTCBZZ = (ENTCPZZ / ENTCPUS) * ENTCBUS ENTCBUS is independent.
ENTCK	Fuel ethanol total consumed conversion factor.	Million Btu per barrel	ENTCKUS = ENTCBUS / ENTCPUS
ENTCP	Fuel ethanol total consumed.	Thousand gallons	ENTCPZZ = (ENTRPZZ / ENTRPUS) * ENTCPUS ENTCPUS is independent.
ENTRP	Fuel ethanol blended into motor gasoline.	Thousand gallons	ENTRPZZ is independent. ENTRPUS = ΣENTRPZZ
EQICB	Ethane consumed by the industrial sector.	Billion Btu	EQICBZZ = EQTCBZZ EQICBUS = EQTCBUS
EQICP	Ethane consumed by the industrial sector.	Thousand barrels	EQICPZZ = EQTCPZZ EQICPUS = EQTCPUS
EQTCB	Ethane total consumed.	Billion Btu	EQTCBZZ = EQTCPZZ * 3.082 EQTCBUS = ΣEQTCBZZ
EQTCP	Ethane total consumed.	Thousand barrels	EQTCPZZ is independent. EQTCPUS is independent.

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
ESACB	Electricity consumed by (i.e., sold to) the transportation sector.	Billion Btu	ESACBZZ = ESACPZZ * 3.412 ESACBUS = ΣESACBZZ
ESACP	Electricity consumed by (i.e., sold to) the transportation sector.	Million kilowatthours	ESACPZZ is independent. ESACPUS = ΣESACPZZ
ESCCB	Electricity consumed by (i.e., sold to) the commercial sector.	Billion Btu	ESCCBZZ = ESCCPZZ * 3.412 ESCCBUS = ΣESCCBZZ
ESCCP	Electricity consumed by (i.e., sold to) the commercial sector.	Million kilowatthours	ESCCPZZ = ESCMPZZ + ESOTPZZ - ESTRPZZ ESCCPUS = ΣESCCPZZ
ESCMP	Electricity sold to a portion of the commercial sector.	Million kilowatthours	ESCMPZZ is independent. ESCMPUS = ΣESCMPZZ
ESICB	Electricity consumed by (i.e., sold to) the industrial sector.	Billion Btu	ESICBZZ = ESICPZZ * 3.412 ESICBUS = ΣESICBZZ
ESICP	Electricity consumed by (i.e., sold to) the industrial sector.	Million kilowatthours	ESICPZZ is independent. ESICPUS = ΣESICPZZ
ESOTP	Electricity sold to the “Other” sector (i.e., public street and highway lighting, sales to other public authorities, railroads and railways, and interdepartmental sales) (through 2002).	Million kilowatthours	ESOTPZZ is independent. ESOTPUS = ΣESOTPZZ
ESRCB	Electricity consumed by (i.e., sold to) the residential sector.	Billion Btu	ESRCBZZ = ESRCPZZ * 3.412 ESRCBUS = ΣESRCBZZ
ESRCP	Electricity consumed by (i.e., sold to) the residential sector.	Million kilowatthours	ESRCPZZ is independent. ESRCPUS = ΣESRCPZZ
ESTCB	Electricity total consumed (i.e., sold).	Billion Btu	ESTCBZZ = ESTCPZZ * 3.412 ESTCBUS = ΣESTCBZZ ESTCB48 = ESTCBUS - (ESTCBAK + ESTCBHI)
ESTCP	Electricity total consumed (i.e., sold).	Million kilowatthours	ESTCPZZ = ESRCPZZ + ESCCPZZ + ESICPZZ + ESACPZZ ESTCPUS = ΣESTCPZZ
ESTRP	Electricity consumed by transit systems (through 2002).	Million kilowatthours	ESTRPZZ is independent. ESTRPUS = ΣESTRPZZ
ESTRSUS	The share of electricity sold to the “Other” sector (ESOTP) that is used for transportation (through 2002).	Fraction	ESTRSUS = ESACBUS / ESOTPUS

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
ESTXB	Electricity total end-use consumption (i.e., sold).	Billion Btu	ESTXBZZ = ESACBZZ + ESCCBZZ + ESICBZZ + ESRCBZZ ESTXBUS = ΣESTXBZZ
ESTXP	Electricity total end-use consumption (i.e., sold).	Million kilowatthours	ESTXPZZ = ESACPZZ + ESCCPZZ + ESICPZZ + ESRCPZZ ESTXPUS = ΣESTXPZZ
EYICB	Ethylene from refineries consumed by the industrial sector.	Billion Btu	EYICBZZ = EYTCBZZ EYICBUS = EYTCBUS
EYICP	Ethylene from refineries consumed by the industrial sector.	Thousand barrels	EYICPZZ = EYTCPZZ EYICPUS = EYTCPUS
EYTCB	Ethylene from refineries total consumed.	Billion Btu	EYTCBZZ = EYTCPZZ * 2.780 EYTCBUS = ΣEYTCBZZ
EYTCP	Ethylene from refineries total consumed.	Thousand barrels	EYTCPZZ is independent. EYTCPUS is independent.
FFETKUS	Fossil-fueled steam-electric power plant conversion factor.	Thousand Btu per kilowatthour	FFETKUS is independent.
FFTCB	Fossil fuels, total consumed.	Billion Btu	FFTCBZZ = CLTCBZZ + NNTCBZZ + PMTCBZZ FFTCBUS = CLTCBUS + CCNIBUS + NNTCBUS + PMTCBUS
FNCAS	State's share of U.S. capacity of steam crackers using naphtha as feedstocks.	Percent share	FNCASZZ is independent.
FNICB	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Billion Btu	FNICBZZ = FNTCBZZ FNICBUS = FNTCBUS
FNICP	Petrochemical feedstocks, naphtha less than 401° F, consumed by the industrial sector.	Thousand barrels	FNICPZZ = FNTCPZZ FNICPUS = FNTCPUS
FNTCB	Petrochemical feedstocks, naphtha less than 401° F, total consumed.	Billion Btu	FNTCBZZ = FNTCPZZ * 5.248 FNTCBUS = ΣFNTCBZZ
FNTCP	Petrochemical feedstocks, naphtha less than 401° F, total consumed.	Thousand barrels	FNTCPZZ = FNTCPUS * FNCASZZ FNTCPUS is independent.
FOCAS	State's share of U.S. capacity of steam crackers using other oils as feedstocks.	Percent share	FOCASZZ is independent.
FOICB	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Billion Btu	FOICBZZ = FOTCBZZ FOICBUS = FOTCBUS

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
FOICP	Petrochemical feedstocks, other oils equal to or greater than 401° F, consumed by the industrial sector.	Thousand barrels	FOICPZZ = FOTCPZZ FOICPUS = FOTCPUS
FOTCB	Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumed.	Billion Btu	FOTCBZZ = FOTCPZZ * 5.825 FOTCBUS = ΣFOTCBZZ
FOTCP	Petrochemical feedstocks, other oils equal to or greater than 401° F, total consumed.	Thousand barrels	FOTCPZZ = FOTCPUS * FOCASZZ FOTCPUS is independent.
FSICB	Petrochemical feedstocks, still gas, consumed by the industrial sector (through 1985).	Billion Btu	FSICBZZ = FSTCBZZ FSICBUS = FSTCBUS
FSICP	Petrochemical feedstocks, still gas, consumed by the industrial sector (through 1985).	Thousand barrels	FSICPZZ = FSTCPZZ FSICPUS = FSTCPUS
FSTCB	Petrochemical feedstocks, still gas, total consumed (through 1985).	Billion Btu	FSTCBZZ = FSTCPZZ * 6.000 FSTCBUS = ΣFSTCBZZ
FSTCP	Petrochemical feedstocks, still gas, total consumed (through 1985).	Thousand barrels	FSTCPZZ = (COCAPZZ / COCAPUS) * FSTCPUS FSTCPUS is independent.
GDPRX	Real gross domestic product.	Million chained (2009) dollars	GDPRXUS is independent. GDPRXZZ is independent.
GECCB	Geothermal energy consumed by the commercial sector.	Billion Btu	GECCBZZ is independent. GECCBUS = ΣGECCBZZ
GEEGB	Geothermal energy consumed for electricity generation by the electric power sector.	Billion Btu	GEEGBZZ = GEEGPZZ * FFETKUS GEEGBUS = ΣGEEGBZZ
GEEGP	Geothermal electricity net generation in the electric power sector.	Million kilowatthours	GEEGPZZ is independent. GEEGPUS = ΣGEEGPZZ
GEICB	Geothermal energy consumed by the industrial sector.	Billion Btu	GEICBZZ is independent. GEICBUS = ΣGEICBZZ
GERCB	Geothermal energy consumed by the residential sector.	Billion Btu	GERCBZZ is independent. GERCBUS = ΣGERCBZZ
GETCB	Geothermal energy, total consumed.	Billion Btu	GETCBZZ = GERCBZZ + GECCBZZ + GEICBZZ + GEEGBZZ GETCBUS = ΣGETCBZZ
GETXB	Geothermal energy, total end-use consumption.	Billion Btu	GETXBZZ = GECCBZZ + GEICBZZ + GERCBZZ GETXBUS = ΣGETXBZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
HLACB	Hydrocarbon gas liquids consumed by the transportation sector.	Billion Btu	Before 2010: HLACBZZ = LGACBZZ HLACBUS = ΣHLACBZZ 2010 forward: HLACBZZ = PQACBZZ HLACBUS = ΣHLACBZZ
HLACP	Hydrocarbon gas liquids consumed by the transportation sector.	Thousand barrels	Before 2010: HLACPZZ = LGACPZZ HLACPUS = ΣHLACPZZ 2010 forward: HLACPZZ = PQACPZZ HLACPUS = ΣHLACPZZ
HLCCB	Hydrocarbon gas liquids consumed by the commercial sector.	Billion Btu	Before 2010: HLCCBZZ = LGCCBZZ HLCCBUS = ΣHLCCBZZ 2010 forward: HLCCBZZ = PQCCBZZ HLCCBUS = ΣHLCCBZZ
HLCCP	Hydrocarbon gas liquids consumed by the commercial sector.	Thousand barrels	Before 2010: HLCCPZZ = LGCCPZZ HLCCPUS = ΣHLCCPZZ 2010 forward: HLCCPZZ = PQCCPZZ HLCCPUS = ΣHLCCPZZ
HLICB	Hydrocarbon gas liquids consumed by the industrial sector.	Billion Btu	Before 2010: HLICBZZ = LGICBZZ + NAICBZZ + PLICBZZ + PPICBZZ + USICBZZ HLICBUS = ΣHLICBZZ 2010 forward: HLICBZZ = BQICBZZ + BYICBZZ + EQICBZZ + EYICBZZ + IQICBZZ + IYICBZZ + PPICBZZ + PQICBZZ + PYICBZZ HLICBUS = ΣHLICBZZ
HLICK	Average factor for converting hydrocarbon gas liquids consumed by the industrial sector from physical unit to Btu.	Million Btu per barrel	HLICKZZ = HLICBZZ / HLICPZZ HLICKUS = HLICBUS / HLICPUS

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
HLICP	Hydrocarbon gas liquids consumed by the industrial sector.	Thousand barrels	Before 2010: $HLICPZZ = LGICPZZ + NAICPZZ + PLICPZZ + PPICPZZ + USICPZZ$ $HLICPUS = \Sigma HLICPZZ$ 2010 forward: $HLICPZZ = BQICPZZ + BYICPZZ + EQICPZZ + EYICPZZ + IQICPZZ + IYICPZZ + PPICPZZ + PQICPZZ + PYICPZZ$ $HLICPUS = \Sigma HLICPZZ$
HLRCB	Hydrocarbon gas liquids consumed by the residential sector.	Billion Btu	Before 2010: $HLRCBZZ = LGRCBZZ$ $HLRCBUS = \Sigma HLRCBZZ$ 2010 forward: $HLRCBZZ = PQRCBZZ$ $HLRCBUS = \Sigma HLRCBZZ$
HLRCP	Hydrocarbon gas liquids consumed by the residential sector.	Thousand barrels	Before 2010: $HLRCPZZ = LGRCPZZ$ $HLRCPUS = \Sigma HLRCPZZ$ 2010 forward: $HLRCPZZ = PQRCPZZ$ $HLRCPUS = \Sigma HLRCPZZ$
HLTCB	Hydrocarbon gas liquids total consumed.	Billion Btu	$HLTCBZZ = HLACBZZ + HLCCBZZ + HLICBZZ + HLRCBZZ$ $HLTCBUS = \Sigma HLTCBZZ$
HLTCK	Average factor for converting hydrocarbon gas liquids total consumed from physical unit to Btu.	Million Btu per barrel	$HLTCKZZ = HLTCBZZ / HLTCPZZ$ $HLTCKUS = HLTCBUS / HLTCPUS$
HLTCP	Hydrocarbon gas liquids total consumed.	Thousand barrels	$HLTCPZZ = HLACPZZ + HLCCPZZ + HLICPZZ + HLRCPZZ$ $HLTCPUS = \Sigma HLTCPZZ$
HLTXB	Hydrocarbon gas liquids total end-use consumption.	Billion Btu	$HLTXBZZ = HLACBZZ + HLCCBZZ + HLICBZZ + HLRCBZZ$ $HLTXBUS = \Sigma HLTXBZZ$
HLTXP	Hydrocarbon gas liquids total end-use consumption.	Thousand barrels	$HLTXPZZ = HLACPZZ + HLCCPZZ + HLICPZZ + HLRCPZZ$ $HLTXPUS = \Sigma HLTXPZZ$
HVC5P	Conventional hydroelectricity net generation at commercial CHP and electricity-only facilities.	Million kilowatthours	HVC5PZZ is independent. $HVC5PUS = \Sigma HVC5PZZ$
HVEGP	Conventional hydroelectricity net generation in the electric power sector.	Million kilowatthours	HVEGPZZ is independent. $HVEGPUS = \Sigma HVEGPZZ$

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
HVI5P	Conventional hydroelectricity net generation at industrial CHP and electricity-only facilities.	Million kilowatthours	HVI5PZZ is independent. HVI5PUS = ΣHVI5PZZ
HYCCB	Hydropower consumed by the commercial sector.	Billion Btu	HYCCBZZ = HYCCPZZ * FFETKUS HYCCBUS = ΣHYCCBZZ
HYCCP	Hydroelectricity net generation in the commercial sector.	Million kilowatthours	HYCCPZZ = HVC5PZZ HYCCPUS = ΣHYCCPZZ
HYEGB	Hydropower consumed for electricity generation by the electric power sector.	Billion Btu	HYEGBZZ = HYEGPZZ * FFETKUS HYEGBUS = ΣHYEGBZZ
HYEGP	Hydroelectricity net generation in the electric power sector.	Million kilowatthours	HYEGPZZ = HVEGPZZ HYEGPUS = ΣHYEGPZZ
HYICB	Hydropower consumed by the industrial sector.	Billion Btu	HYICBZZ = HYICPZZ * FFETKUS HYICBUS = ΣHYICBZZ
HYICP	Hydroelectricity net generation in the industrial sector.	Million kilowatthours	HYICPZZ = HVI5PZZ HYICPUS = ΣHYICPZZ
HYTCB	Hydropower, total consumed.	Billion Btu	HYTCBZZ = HYCCBZZ + HYEGBZZ + HYICBZZ HYTCBUS = ΣHYTCBZZ
HYTCP	Hydroelectricity, total net generation.	Million kilowatthours	HYTCPZZ = HYCCPZZ + HYEGPZZ + HYICPZZ HYTCPUS = ΣHYTCPZZ
HYTXB	Hydropower energy, total end-use consumption.	Billion Btu	HYTXBZZ = HYCCBZZ + HYICBZZ HYTXBUS = ΣHYTXBZZ
HYTXP	Hydroelectricity net generation, total end-use generation.	Million kilowatthours	HYTXPZZ = HYCCPZZ + HYICPZZ HYTXPUS = ΣHYTXPZZ
IQICB	Isobutane consumed by the industrial sector.	Billion Btu	IQICBZZ = IQTCBZZ IQICBUS = IQTCBUS
IQICP	Isobutane consumed by the industrial sector.	Thousand barrels	IQICPZZ = IQTCPZZ IQICPUS = IQTCPUS
IQTCB	Isobutane total consumed.	Billion Btu	IQTCBZZ = IQTCPZZ * 3.974 IQTCBUS = ΣIQTCBZZ
IQTCP	Isobutane total consumed.	Thousand barrels	IQTCPZZ is independent. IQTCPUS is independent.
IYICB	Isobutylene from refineries consumed by the industrial sector.	Billion Btu	IYICBZZ = IYTCBZZ IYICBUS = IYTCBUS



**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
IYICP	Isobutylene from refineries consumed by the industrial sector.	Thousand barrels	IYICPZZ = IYTCPZZ IYICPUS = IYTCPUS
IYTCB	Isobutylene from refineries total consumed.	Billion Btu	IYTCBZZ = IYTCPZZ * 4.326 IYTCBUS = ΣIYTCBZZ
IYTCP	Isobutylene from refineries total consumed.	Thousand barrels	IYTCPZZ is independent. IYTCPUS is independent.
JFACB	Jet fuel consumed by the transportation sector.	Billion Btu	JFACBZZ = JKACBZZ + JNACBZZ JFACBUS = ΣJFACBZZ
JFACP	Jet fuel consumed by the transportation sector.	Thousand barrels	JFACPZZ = JKACPZZ + JNACPZZ JFACPUS = ΣJFACPZZ
JFEUB	Jet fuel consumed by the electric power sector (through 1982).	Billion Btu	JFEUBZZ = JKEUBZZ JFEUBUS = JKEUBUS
JFEUP	Jet fuel consumed by the electric power sector (through 1982).	Thousand barrels	JFEUPZZ = JKEUPZZ JFEUPUS = JKEUPUS
JFTCB	Jet fuel total consumed.	Billion Btu	JFTCBZZ = JFACBZZ + JFEUBZZ JFTCBUS = ΣJFTCBZZ
JFTCP	Jet fuel total consumed.	Thousand barrels	JFTCPZZ = JFACPZZ + JFEUPZZ JFTCPUS = ΣJFTCPZZ
JFTXB	Jet fuel total end-use consumption.	Billion Btu	JFTXBZZ = JFACBZZ JFTXBUS = ΣJFTXBZZ
JFTXP	Jet fuel total end-use consumption.	Thousand barrels	JFTXPZZ = JFACPZZ JFTXPUS = ΣJFTXPZZ
JKACB	Kerosene-type jet fuel consumed by the transportation sector.	Billion Btu	JKACBZZ = JKACPZZ * 5.670 JKACBUS = ΣJKACBZZ
JKACP	Kerosene-type jet fuel consumed by the transportation sector.	Thousand barrels	JKACPZZ = (JKTTPZZ / JKTTPUS) * JKACPUS JKACPUS = JKTCPUS - JKEUPUS
JKEUB	Kerosene-type jet fuel consumed by the electric power sector (through 1982).	Billion Btu	JKEUBZZ = JKEUPZZ * 5.670 JKEUBUS = ΣJKEUBZZ
JKEUP	Kerosene-type jet fuel consumed by the electric power sector (through 1982).	Thousand barrels	JKEUPZZ is independent. JKEUPUS = ΣJKEUPZZ
JKTCB	Kerosene-type jet fuel total consumed.	Billion Btu	JKTCBZZ = JKTCPZZ * 5.670 JKTCBUS = ΣJKTCBZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
JKTCP	Kerosene-type jet fuel total consumed.	Thousand barrels	$JKTCPZZ = JKACPZZ + JKEUPZZ$ JKTCPUS is independent.
JKTPP	Kerosene-type jet fuel total sold.	Thousand gallons	JKTPPZZ is independent. $JKTPPUS = \sum JKTPPZZ$
JNACB	Naphtha-type jet fuel consumed by the transportation sector.	Billion Btu	$JNACBZZ = JNTCBZZ$ $JNACBUS = JNTCBUS$
JNACP	Naphtha-type jet fuel consumed by the transportation sector.	Thousand barrels	$JNACPZZ = JNTCPZZ$ $JNACPUS = JNTCPUS$
JNMIP	Naphtha-type jet fuel issued to the military.	Thousand barrels	JNMIPZZ is independent. $JNMIPUS = \sum JNMIPZZ$
JNTCB	Naphtha-type jet fuel total consumed.	Billion Btu	$JNTCBZZ = JNTCPZZ * 5.355$ $JNTCBUS = \sum JNTCBZZ$
JNTCP	Naphtha-type jet fuel total consumed.	Thousand barrels	$JNTCPZZ = (JNMIPZZ / JNMIPUS) * JNTCPUS$ JNTCPUS is independent.
KSCCB	Kerosene consumed by the commercial sector.	Billion Btu	$KSCCBZZ = KSCCPZZ * 5.670$ $KSCCBUS = \sum KSCCBZZ$
KSCCP	Kerosene consumed by the commercial sector.	Thousand barrels	$KSCCPZZ = (KSCMPZZ / KSTTPZZ) * KSTCPZZ$ $KSCCPUS = \sum KSCCPZZ$
KSCMP	Kerosene sold to the commercial sector.	Thousand barrels	KSCMPZZ is independent. $KSCMPUS = \sum KSCMPZZ$
KSICB	Kerosene consumed by the industrial sector.	Billion Btu	$KSICBZZ = KSICPZZ * 5.670$ $KSICBUS = \sum KSICBZZ$
KSICP	Kerosene consumed by the industrial sector.	Thousand barrels	$KSICPZZ = (KSINPZZ / KSTTPZZ) * KSTCPZZ$ $KSICPUS = \sum KSICPZZ$
KSIHP	Kerosene sold for industrial heating and processing.	Thousand barrels	KSIHPZZ is independent. $KSIHPUS = \sum KSIHPZZ$
KSINP	Kerosene sold to the industrial sector.	Thousand barrels	$KSINPZZ = KSOTPZZ + KSIHPZZ$ $KSINPUS = \sum KSINPZZ$
KSOTP	Kerosene sold for all other uses, including farm use.	Thousand barrels	KSOTPZZ is independent. $KSOTPUS = \sum KSOTPZZ$
KSRCB	Kerosene consumed by the residential sector.	Billion Btu	$KSRCBZZ = KSRCPPZZ * 5.670$ $KSRCBUS = \sum KSRCBZZ$

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
KSRCP	Kerosene consumed by the residential sector.	Thousand barrels	$KSRCPZZ = (KSRSPZZ / KSTTPZZ) * KSTCPZZ$ $KSRCPUS = \Sigma KSRCPZZ$
KSRSP	Kerosene sold to the residential sector.	Thousand barrels	KSRSPZZ is independent. $KSRSPUS = \Sigma KSRSPZZ$
KSTCB	Kerosene total consumed.	Billion Btu	$KSTCBZZ = KSRCBZZ + KSICBZZ + KSCCBZZ$ $KSTCBUS = \Sigma KSTCBZZ$
KSTCP	Kerosene total consumed.	Thousand barrels	$KSTCPZZ = (KSTTPZZ / KSTTPUS) * KSTCPUS$ KSTCPUS is independent.
KSTTP	Kerosene total sold.	Thousand barrels	$KSTTPZZ = KSRSPZZ + KSCMPZZ + KSINPZZ$ $KSTTPUS = \Sigma KSTTPZZ$
KSTXB	Kerosene total end-use consumption.	Billion Btu	$KSTXBZZ = KSCCBZZ + KSICBZZ + KSRCBZZ$ $KSTXBUS = \Sigma KSTXBZZ$
KSTXP	Kerosene total end-use consumption.	Thousand barrels	$KSTXPZZ = KSCCPZZ + KSICPZZ + KSRCPZZ$ $KSTXPUS = \Sigma KSTXPZZ$
LGACB	LPG consumed by the transportation sector (through 2009).	Billion Btu	$LGACBZZ = LGACPZZ * 3.836$ $LGACBUS = \Sigma LGACBZZ$
LGACP	LPG consumed by the transportation sector (through 2009).	Thousand barrels	$LGACPZZ = LGCBPZZ * LGTRSUS$ $LGACPUS = \Sigma LGACPZZ$
LGCBM	LPG sales for internal combustion engine use (through 2009).	Thousand gallons	LGCBMZZ is independent. $LGCBMUS = \Sigma LGCBMZZ$
LGCBP	LPG consumed for internal combustion engine use (through 2009).	Thousand barrels	$LGCBPZZ = LGCBMZZ / 42$ $LGCBPUS = \Sigma LGCBPZZ$
LGCCB	LPG consumed by the commercial sector (through 2009).	Billion Btu	$LGCCBZZ = LGCCPZZ * 3.836$ $LGCCBUS = \Sigma LGCCBZZ$
LGCCP	LPG consumed by the commercial sector (through 2009).	Thousand barrels	$LGCCPZZ = LGHCPZZ * LGCCSZZ$ $LGCCPUS = \Sigma LGCCPZZ$
LGCCS	The share of residential and commercial LPG consumed by the commercial sector (through 2009).	Percent	LGCCSZZ is independent.
LGHCM	LPG sold for residential and commercial use (through 2009).	Thousand gallons	LGHCMZZ is independent. $LGHCMUS = \Sigma LGHCMZZ$

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
LGHCP	LPG consumed by the residential and commercial sectors (through 2009).	Thousand barrels	$LGHCPZZ = LGHCMZZ / 42$ $LGHCPUS = \Sigma LGHCPZZ$
LGICB	LPG consumed by the industrial sector (through 2009).	Billion Btu	$LGICBZZ = (LGICPZZ / LGICPUS) * LGICBUS$ $LGICBUS = LGTCBUS - (LGACBUS + LGCCBUS + LGRCBUS)$
LGICK	Average conversion factor for industrial consumption of LPG (through 2009).	Million Btu per barrel	$LGICKUS = LGICBUS / LGICPUS$
LGICP	LPG consumed by the industrial sector (through 2009).	Thousand barrels	Before 2008: $LGICPZZ = LGTCPZZ - (LGACPZZ + LGCCPZZ + LGRCPZZ)$ $LGICPUS = \Sigma LGICPZZ$ For 2008 and 2009: LGICPZZ is independent. $LGICPUS = \Sigma LGICPZZ$
LGRCB	LPG consumed by the residential sector (through 2009).	Billion Btu	$LGRCBZZ = LGRCPZZ * 3.836$ $LGRCBUS = \Sigma LGRCBZZ$
LGRCP	LPG consumed by the residential sector (through 2009).	Thousand barrels	$LGRCPZZ = LGHCPZZ * LGRCSZZ$ $LGRCPUS = \Sigma LGRCPZZ$
LGRCS	The share of residential and commercial LPG consumed by the residential sector (through 2009).	Percent	LGRCSZZ is independent.
LGTCB	LPG total consumed (through 2009).	Billion Btu	$LGTCBZZ = LGRCBZZ + LGCCBZZ + LGICBZZ + LGACBZZ$ LGTCBUS is independent.
LGTKUS	Factor for converting LPG from physical units to Btu (through 2009).	Million Btu per barrel	LGTKUS is independent.
LGTCP	LPG total consumed (through 2009).	Thousand barrels	Before 2008: $LGTCPZZ = (LGTTTPZZ / LGTTPUS) * LGTCPUS$ LGTCPUS is independent. For 2008 and 2009: $LGTCPZZ = LGACPZZ + LGCCPZZ + LGICPZZ + LGRCPZZ$ LGTCPUS is independent.
LGTRSUS	The transportation sector's share of LPG internal combustion engine sales (through 2009).	Fraction	LGTRSUS is independent.
LGTTTP	LPG total sold (through 2009).	Thousand gallons	LGTTTPZZ is independent. $LGTTTPUS = \Sigma LGTTTPZZ$
LGTXB	LPG total end-use consumption (through 2009).	Billion Btu	$LGTXBZZ = LGACBZZ + LGCCBZZ + LGICBZZ + LGRCBZZ$ $LGTXBUS = \Sigma LGTXBZZ$

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
LGTXP	LPG total end-use consumption (through 2009).	Thousand barrels	LGTXPZZ = LGACPZZ + LGCCPZZ + LGICPZZ + LGRCPPZZ LGTXPUS = ΣLGTXPZZ
LOACB	The transportation sector's share of electrical system energy losses.	Billion Btu	LOACBZZ = (ESACBZZ / ESTCBZZ) * LOTCBZZ LOACBUS = ΣLOACBZZ
LOCCB	The commercial sector's share of electrical system energy losses.	Billion Btu	LOCCBZZ = (ESCCBZZ / ESTCBZZ) * LOTCBZZ LOCCBUS = ΣLOCCBZZ
LOICB	The industrial sector's share of electrical system energy losses.	Billion Btu	LOICBZZ = (ESICBZZ / ESTCBZZ) * LOTCBZZ LOICBUS = ΣLOICBZZ
LORCB	The residential sector's share of electrical system energy losses.	Billion Btu	LORCBZZ = (ESRCBZZ / ESTCBZZ) * LOTCBZZ LORCBUS = ΣLORCBZZ
LOTCB	Total electrical system energy losses.	Billion Btu	Before 1990: LOTBZZ = ESTCBZZ * ELLSS48 Exceptions: LOTBBAK = TEEIBAK - ESTCBAK LOTBBHI = TEEIBHI - ESTCBHI LOTBBUS = TEEIBUS - ESTCBUS LOTB48 = LOTBBUS - (LOTBBAK + LOTBBHI) From 1990 forward: LOTBZZ = TEESBZZ - ESTCBZZ LOTBBUS = TEEIBUS - ESTCBUS
LOTXB	Total electrical system energy losses allocated to the end-use sectors.	Billion Btu	LOTXBZZ = LOACBZZ + LOCCBZZ + LOICBZZ + LORCBZZ LOTXBUS = ΣLOTXBZZ
LUACB	Lubricants consumed by the transportation sector.	Billion Btu	LUACBZZ = LUACPZZ * 6.065 LUACBUS = ΣLUACBZZ
LUACP	Lubricants consumed by the transportation sector.	Thousand barrels	Before 2010: LUACPZZ = (LUTRPZZ / LUTTPZZ) * LUTCPZZ LUACPUS = ΣLUACPZZ From 2010 forward: LUACPZZ is independent. LUACPUS is independent.
LUICB	Lubricants consumed by the industrial sector.	Billion Btu	LUICBZZ = LUICPZZ * 6.065 LUICBUS = ΣLUICBZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
LUICP	Lubricants consumed by the industrial sector.	Thousand barrels	Before 2010: $LUICPZZ = (LUINPZZ / LUTTPZZ) * LUTCPZZ$ $LUICPUS = \Sigma LUICPZZ$ From 2010 forward: LUICPZZ is independent. LUICPUS is independent.
LUINP	Lubricants sold to the industrial sector (through 2009).	Thousand barrels	LUINPZZ is independent. $LUINPUS = \Sigma LUINPZZ$
LUTCB	Lubricants total consumed.	Billion Btu	$LUTCBZZ = LUACBZZ + LUICBZZ$ $LUTCBUS = \Sigma LUTCBZZ$
LUTCP	Lubricants total consumed.	Thousand barrels	Before 2010: $LUTCPZZ = (LUTTPZZ / LUTTPUS) * LUTCPUS$ LUTCPUS is independent. From 2010 forward: $LUTCPZZ = LUACPZZ + LUICPZZ$ LUTCPUS is independent.
LUTRP	Lubricants sold to the transportation sector (through 2009).	Thousand barrels	LUTRPZZ is independent. $LUTRPUS = \Sigma LUTRPZZ$
LUTTP	Lubricants total sold (through 2009).	Thousand barrels	$LUTTPZZ = LUINPZZ + LUTRPZZ$ $LUTTPUS = \Sigma LUTTPZZ$
LUTXB	Lubricants total end-use consumption.	Billion Btu	$LUTXBZZ = LUACBZZ + LUICBZZ$ $LUTXBUS = \Sigma LUTXBZZ$
LUTXP	Lubricants total end-use consumption.	Thousand barrels	$LUTXPZZ = LUACPZZ + LUICPZZ$ $LUTXPUS = \Sigma LUTXPZZ$
MBICB	Motor gasoline blending components consumed by the industrial sector.	Billion Btu	$MBICBZZ = MBTCBZZ$ $MBICBUS = MBTCBUS$
MBICP	Motor gasoline blending components consumed by the industrial sector.	Thousand barrels	$MBICPZZ = MBTCPZZ$ $MBICPUS = MBTCPUS$
MBTCB	Motor gasoline blending components total consumed.	Billion Btu	$MBTCBZZ = MBTCPZZ * MBTCKUS$ $MBTCBUS = \Sigma MBTCBZZ$
MBTCP	Motor gasoline blending components total consumed.	Thousand barrels	$MBTCPZZ = (COCAPZZ / COCAPUS) * MBTCPUS$ MBTCPUS is independent.
MBTCKUS	Factor for converting motor gasoline blending components from physical units to Btu.	Million Btu per barrel	MBTCKUS is independent.

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
MGACB	Motor gasoline consumed by the transportation sector.	Billion Btu	MGACBZZ = MGACPZZ * MGTCCKUS MGACBUS = ΣMGACBZZ
MGACP	Motor gasoline consumed by the transportation sector.	Thousand barrels	MGACPZZ = (MGTRPZZ / MGTPPZZ) * MGTCPPZZ MGACPUS = ΣMGACPZZ
MGAGP	Motor gasoline sold for agricultural use.	Thousand gallons	MGAGPZZ is independent. MGAGPUS = ΣMGAGPZZ
MGBTP	Motor gasoline sold for boating use.	Thousand gallons	MGBTPZZ is independent. MGBTPUS = ΣMGBTPZZ
MGCCB	Motor gasoline consumed by the commercial sector.	Billion Btu	MGCCBZZ = MGCCPZZ * MGTCCKUS MGCCBUS = ΣMGCCBZZ
MGCCP	Motor gasoline consumed by the commercial sector.	Thousand barrels	MGCCPZZ = (MGCMPZZ / MGTPPZZ) * MGTCPPZZ MGCCPUS = ΣMGCCPZZ
MGCMP	Motor gasoline sold to the commercial sector.	Thousand gallons	MGCMPZZ = MGMSPZZ + MGNPZZ + MGLPZZ MGCMPUS = ΣMGCMPZZ
MGCUP	Motor gasoline sold for construction use.	Thousand gallons	MGCUPZZ is independent. MGCUPUS = ΣMGCUPZZ
MGICB	Motor gasoline consumed by the industrial sector.	Billion Btu	MGICBZZ = MGICPZZ * MGTCCKUS MGICBUS = ΣMGICBZZ
MGICP	Motor gasoline consumed by the industrial sector.	Thousand barrels	MGICPZZ = (MGINPZZ / MGTPPZZ) * MGTCPPZZ MGICPUS = ΣMGICPZZ
MGINP	Motor gasoline sold to the industrial sector.	Thousand gallons	MGINPZZ = MGAGPZZ + MGCUPZZ + MGIYPZZ MGINPUS = ΣMGINPZZ
MGIYP	Motor gasoline sold for industrial and commercial use (Federal Highway Administration terminology).	Thousand gallons	MGIYPZZ is independent. MGIYPUS = ΣMGIYPZZ
MGLGP	Motor gasoline sold for lawn and garden use.	Thousand gallons	MGLGPZZ is independent. MGLGPUS = ΣMGLGPZZ
MGMFP	Motor gasoline sold for highway use.	Thousand gallons	MGMFPZZ is independent. MGMFPUS = ΣMGMFPZZ
MGMRP	Motor gasoline sold for marine use.	Thousand gallons	MGMRPZZ is independent. MGMRPUS = ΣMGMRPZZ
MGMSP	Motor gasoline sold for miscellaneous and unclassified uses.	Thousand gallons	MGMSPZZ is independent. MGMSPUS = ΣMGMSPZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
MGNPN	Motor gasoline sold for public nonhighway use.	Thousand gallons	MGNPNPZZ is independent. MGNPNPUS = $\Sigma$ MGNPNPZZ
MGRVP	Motor gasoline sold for recreational vehicle use.	Thousand gallons	MGRVPZZ is independent. MGRVPUS = $\Sigma$ MGRVPZZ
MGSFP	Special fuels sold (Federal Highway Administration terminology; primarily diesel fuel with small amounts of liquefied petroleum gases).	Thousand gallons	MGSFPZZ is independent. MGSFPUS = $\Sigma$ MGSFPZZ
MGTCB	Motor gasoline total consumed.	Billion Btu	MGTCBZZ = MGCCBZZ + MGICBZZ + MGACBZZ MGTCBUS = $\Sigma$ MGTCBZZ
MGTCP	Motor gasoline total consumed.	Thousand barrels	MGTCPZZ = (MGTPPZZ / MGTPPUS) * MGTCBUS MGTCPUS is independent.
MGTKUS	Factor for converting motor gasoline from physical units to Btu.	Million Btu per barrel	MGTKUS is independent.
MGTRP	Motor gasoline sold to the transportation sector.	Thousand gallons	MGTRPZZ = MGMFPZZ + MGBTPZZ + MGRVPZZ - MGSFPZZ MGTRPUS = $\Sigma$ MGTRPZZ
MGTTP	Motor gasoline total sold.	Thousand gallons	MGTTPZZ = MGCMPPZZ + MGINPZZ + MGTRPZZ MGTTPUS = $\Sigma$ MGTTPZZ
MGTXB	Motor gasoline total end-use consumption.	Billion Btu	MGTXBZZ = MGACBZZ + MGCCBZZ + MGICBZZ MGTXBUS = $\Sigma$ MGTXBZZ
MGTXP	Motor gasoline total end-use consumption.	Thousand barrels	MGTXPZZ = MGACPZZ + MGCCPZZ + MGICPZZ MGTXPUS = $\Sigma$ MGTXPZZ
MMTCB	Motor gasoline total consumed, excluding fuel ethanol.	Billion Btu	MMTCBZZ = MGTCBZZ - EMTCBZZ MMTCBUS = MGTCBUS - EMTCBUS
MSICB	Miscellaneous petroleum products consumed by the industrial sector.	Billion Btu	MSICBZZ = MSTCBZZ MSICBUS = MSTCBUS
MSICP	Miscellaneous petroleum products consumed by the industrial sector.	Thousand barrels	MSICPZZ = MSTCPZZ MSICPUS = MSTCPUS
MSTCB	Miscellaneous petroleum products total consumed.	Billion Btu	MSTCBZZ = MSTCPZZ * 5.796 MSTCBUS = $\Sigma$ MSTCBZZ
MSTCP	Miscellaneous petroleum products total consumed.	Thousand barrels	MSTCPZZ = (OCVAVZZ / OCVAVUS) * MSTCPUS MSTCPUS is independent.



**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
NAICB	Natural gasoline consumed by the industrial sector (through 1983).	Billion Btu	NAICBZZ = NATCBZZ NAICBUS = NATCBUS
NAICP	Natural gasoline consumed by the industrial sector (through 1983).	Thousand barrels	NAICPZZ = NATCPZZ NAICPUS = NATCPUS
NATCB	Natural gasoline total consumed (through 1983).	Billion Btu	NATCBZZ = NATCPZZ * 4.620 NATCBUS = ΣNATCBZZ
NATCP	Natural gasoline total consumed (through 1983).	Thousand barrels	NATCPZZ = NATCPUS * FNCASZZ NATCPUS is independent.
NGACB	Natural gas consumed by the transportation sector.	Billion Btu	NGACBZZ = NGACPZZ * NGTXKZZ NGACBUS = ΣNGACBZZ
NGACP	Natural gas consumed by the transportation sector.	Million cubic feet	NGACPZZ = NGPZPZZ + NGVHPZZ NGACPUS = ΣNGACPZZ
NGCCB	Natural gas delivered to the commercial sector, used as consumption (including supplemental gaseous fuels).	Billion Btu	NGCCBZZ = NGCCPZZ * NGTXKZZ NGCCBUS = ΣNGCCBZZ
NGCCP	Natural gas delivered to the commercial sector, used as consumption (including supplemental gaseous fuels).	Million cubic feet	NGCCPZZ is independent. NGCCPUS = ΣNGCCPZZ
NGEIB	Natural gas consumed by the electric power sector (including supplemental gaseous fuels).	Billion Btu	Before 2010: NGEIBZZ = NGEIPZZ * NGEIKZZ 2010 forward: NGEIBZZ is independent. NGEIBUS = ΣNGEIBZZ for all years.
NGEIK	Factor for converting natural gas consumed by the electric power sector from physical units to Btu.	Thousand Btu per cubic foot	NGEIKZZ is independent. NGEIKUS = NGEIBUS / NGEIPUS
NGEIP	Natural gas consumed by the electric power sector (including supplemental gaseous fuels).	Million cubic feet	NGEIPZZ is independent. NGEIPUS = ΣNGEIPZZ
NGICB	Natural gas consumed by the industrial sector (including supplemental gaseous fuels).	Billion Btu	NGICBZZ = NGICPZZ * NGTXKZZ NGICBUS = ΣNGICBZZ
NGICP	Natural gas consumed by the industrial sector (including supplemental gaseous fuels).	Million cubic feet	NGICPZZ = NGINPZZ + NGLPZZ + NGPLPZZ NGICPUS = ΣNGICPZZ
NGINP	A portion of the natural gas delivered to the industrial sector.	Million cubic feet	NGINPZZ is independent. NGINPUS = ΣNGINPZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
NGLEP	Natural gas consumed as lease fuel.	Million cubic feet	NGLEPZZ is independent. NGLEPUS = $\Sigma$ NGLEPZZ
NGLPB	Natural gas consumed as lease and plant fuel.	Billion Btu	NGLPBZZ = NGLPPZZ * NGTXKZZ NGLPBUS = $\Sigma$ NGLPBZZ
NGLPP	Natural gas consumed as lease and plant fuel.	Million cubic feet	NGLPPZZ = NGLEPZZ + NGPLPZZ NGLPPUS = $\Sigma$ NGLPPZZ
NGPLP	Natural gas consumed as plant fuel.	Million cubic feet	NGPLPZZ is independent. NGPLPUS = $\Sigma$ NGPLPZZ
NGPZB	Natural gas consumed as pipeline fuel.	Billion Btu	NGPZBZZ = NGPZPZZ * NGTXKZZ NGPZBUS = $\Sigma$ NGPZBZZ
NGPZP	Natural gas consumed as pipeline fuel.	Million cubic feet	NGPZPZZ is independent. NGPZPUS = $\Sigma$ NGPZPZZ
NGRCB	Natural gas delivered to the residential sector, used as consumption (including supplemental gaseous fuels).	Billion Btu	NGRCBZZ = NGRCPPZZ * NGTXKZZ NGRCBUS = $\Sigma$ NGRCBZZ
NGRCP	Natural gas delivered to the residential sector, used as consumption (including supplemental gaseous fuels).	Million cubic feet	NGRCPZZ is independent. NGRCPUS = $\Sigma$ NGRCPZZ
NGSFP	Supplemental gaseous fuels supplies.	Million cubic feet	NGSFPZZ is independent. NGSFPUS = $\Sigma$ NGSFPZZ
NGTCB	Natural gas total consumed (including supplemental gaseous fuels).	Billion Btu	NGTCBZZ = NGTCPZZ * NGTCKZZ NGTCBUS = $\Sigma$ NGTCBZZ
NGTCK	Factor for converting natural gas total consumed from physical units to Btu.	Thousand Btu per cubic foot	NGTCKZZ is independent. NGTCKUS = NGTCBUS / NGTCPUS
NGTCP	Natural gas total consumed (including supplemental gaseous fuels).	Million cubic feet	NGTCPZZ = NGRCPZZ + NGCCPZZ + NGICPZZ + NGACPZZ + NGEIPZZ NGTCPUS = $\Sigma$ NGTCPZZ
NGTXB	Natural gas total end-use consumption (including supplemental gaseous fuels).	Billion Btu	NGTXBZZ = NGACBZZ + NGCCBZZ + NGICBZZ + NGRCBZZ NGTXBUS = $\Sigma$ NGTXBZZ
NGTXK	Factor for converting natural gas consumed by all sectors other than the electric utility sector from physical units to Btu.	Thousand Btu per cubic foot	NGTXKZZ = (NGTCBZZ - NGEIBZZ) / (NGTCPZZ - NGEIPZZ) NGTXKUS = (NGTCBUS - NGEIBUS) / (NGTCPUS - NGEIPUS)

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
NGTXP	Natural gas total end-use consumption (including supplemental gaseous fuels).	Million cubic feet	NGTXPZZ = NGACPZZ + NGCCPZZ + NGICPZZ + NGRCPZZ NGTXPUS = ΣNGTXPZZ
NGTZP	Natural gas consumed in sectors that have supplemental gaseous fuels commingled with natural gas.	Million cubic feet	NGTZPZZ = NGCCPZZ + NGRCPZZ + NGINPZZ + NGEIPZZ NGTZPUS = ΣNGTZPZZ
NGVHB	Natural gas consumed as vehicle fuel.	Billion Btu	NGVHBZZ = NGVHPZZ * NGTXKZZ NGVHBUS = ΣNGVHBZZ
NGVHP	Natural gas consumed as vehicle fuel.	Million cubic feet	NGVHPZZ is independent. NGVHPUS = ΣNGVHPZZ
NNACB	Natural gas consumed by the transportation sector.	Billion Btu	NNACBZZ = NGACBZZ NNACBUS = ΣNNACBZZ
NNCCB	Natural gas consumed by the commercial sector (excluding supplemental gaseous fuels).	Billion Btu	NNCCBZZ = NGCCBZZ - SFCCBZZ NNCCBUS = ΣNNCCBZZ
NNEIB	Natural gas consumed by the electric power sector (excluding supplemental gaseous fuels).	Billion Btu	NNEIBZZ = NGEIBZZ - SFEIBZZ NNEIBUS = ΣNNEIBZZ
NNICB	Natural gas consumed by the industrial sector (excluding supplemental gaseous fuels).	Billion Btu	NNICBZZ = NGICBZZ - SFINBZZ NNICBUS = ΣNNICBZZ
NNRCB	Natural gas consumed by the residential sector (excluding supplemental gaseous fuels).	Billion Btu	NNRCBZZ = NGRCBZZ - SFRCBZZ NNRCBUS = ΣNNRCBZZ
NNTCB	Natural gas total consumed (excluding supplemental gaseous fuels).	Billion Btu	NNTCBZZ = NGTCBZZ - SFTCBZZ NNTCBUS = ΣNNTCBZZ
NUEGB	Nuclear energy consumed for electricity generation by the electric power sector.	Billion Btu	NUEGBZZ = NUEGPZZ * NUETKUS NUEGBUS = ΣNUEGBZZ
NUEGP	Nuclear electricity net generation in the electric power sector.	Million kilowatthours	NUEGPZZ is independent. NUEGPUS = ΣNUEGPZZ
NUETB	Nuclear energy consumed for electricity generation, total.	Billion Btu	NUETBZZ = NUEGBZZ NUETBUS = NUEGBUS
NUETKUS	Factor for converting electricity generated from nuclear power from physical units to Btu.	Thousand Btu per kilowatthour	NUETKUS is independent.
NUETP	Nuclear electricity, total net generation.	Million kilowatthours	NUETPZZ = NUEGPZZ NUETPUS = ΣNUETPZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
OCVAV	Value of shipments (value added prior to 2001) for the industrial organic chemical manufacturing industry.	Million dollars	OCVAVZZ is independent. OCVAVUS = $\Sigma$ OCVAVZZ
OHICB	Other hydrocarbon gas liquids (other than propane) consumed by the industrial sector.	Billion Btu	OHICB = HLICB - PQICB
OPICB	Other petroleum products consumed by the industrial sector.	Billion Btu	OPICBZZ = ABICBZZ + COICBZZ + FNICBZZ + FOICBZZ + FSICBZZ + MBICBZZ + MSICBZZ + SGICBZZ + SNICBZZ + UOICBZZ + WXICBZZ OPICBUS = $\Sigma$ OPICBZZ
OPICP	Other petroleum products consumed by the industrial sector.	Thousand barrels	OPICPZZ = ABICPZZ + COICPZZ + FNICPZZ + FOICPZZ + FSICPZZ + MBICPZZ + MSICPZZ + SGICPZZ + SNICPZZ + UOICPZZ + WXICPZZ OPICPUS = $\Sigma$ OPICPZZ
OPTCB	Other petroleum products total consumed.	Billion Btu	OPTCBZZ = ABTCBZZ + COTCBZZ + FNTCBZZ + FOTCBZZ + FSTCBZZ + MBTCBZZ + MSTCBZZ + SGTCBZZ + SNTCBZZ + UOTCBZZ + WXTCBZZ OPTCBUS = $\Sigma$ OPTCBZZ
OPTCP	Other petroleum products total consumed.	Thousand barrels	OPTCPZZ = ABTCPZZ + COTCPZZ + FNTCPZZ + FOTCPZZ + FSTCPZZ + MBTCPZZ + MSTCPZZ + SGTCPZZ + SNTCPZZ + UOTCPZZ + WXTCPZZ OPTCPUS = $\Sigma$ OPTCPZZ
OPTXB	Other petroleum products total end-use consumption.	Billion Btu	OPTXBZZ = OPICBZZ OPTXBUS = $\Sigma$ OPTXBZZ
OPTXP	Other petroleum products total end-use consumption.	Thousand barrels	OPTXPZZ = OPICPZZ OPTXPUS = $\Sigma$ OPTXPZZ
P1ICB	Asphalt and road oil, kerosene, lubricants, petroleum coke, and "other petroleum products" consumed by the industrial sector.	Billion Btu	P1ICBZZ = ARICBZZ + KSICBZZ + LUICBZZ + PCICBZZ + OPICBZZ P1ICBUS = $\Sigma$ P1ICBZZ
P1ICP	Asphalt and road oil, kerosene, lubricants, petroleum coke, and "other petroleum products" consumed by the industrial sector.	Thousand barrels	P1ICPZZ = ARICPZZ + KSICPZZ + LUICPZZ + PCICPZZ + OPICPZZ P1ICPUS = $\Sigma$ P1ICPZZ
P1TCB	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" total consumed.	Billion Btu	P1TCBZZ = ARTCBZZ + AVTCBZZ + KSTCBZZ + LUTCBZZ + PCTCBZZ + OPTCBZZ P1TCBUS = $\Sigma$ P1TCBZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
P1TCP	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and “other petroleum products” total consumed.	Thousand barrels	$P1TCPZZ = ARTCPZZ + AVTCPZZ + KSTCPZZ + LUTCPZZ + PCTCPZZ + OPTCPZZ$ $P1TCPUS = \Sigma P1TCPZZ$
P1TXB	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and “other petroleum products” total end-use consumption.	Billion Btu	$P1TXBZZ = ARTXBZZ + AVTXBZZ + KSTXBZZ + LUTXBZZ + PCTXBZZ + OPTXBZZ$ $P1TXBUS = \Sigma P1TXBZZ$
P1TXP	Asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and “other petroleum products” total end-use consumption.	Thousand barrels	$P1TXPZZ = ARTXPZZ + AVTXPZZ + KSTXPZZ + LUTXPZZ + PCTXPZZ + OPTXPZZ$ $P1TXPUS = \Sigma P1TXPZZ$
PAACB	All petroleum products consumed by the transportation sector.	Billion Btu	$PAACBZZ = AVACBZZ + DFACBZZ + HLACBZZ + JKACBZZ + JNACBZZ + LUACBZZ + MGACBZZ + RFACBZZ$ $PAACBUS = \Sigma PAACBZZ$
PAACKUS	Factor for converting all petroleum products consumed by the transportation sector from physical units to Btu.	Million Btu per barrel	$PAACKUS = PAACBUS / PAACPUS$
PAACP	All petroleum products consumed by the transportation sector.	Thousand barrels	$PAACPZZ = AVACPZZ + DFACPZZ + HLACPZZ + JKACPZZ + JNACPZZ + LUACPZZ + MGACPZZ + RFACPZZ$ $PAACPUS = \Sigma PAACPZZ$
PACCB	All petroleum products consumed by the commercial sector.	Billion Btu	$PACCBZZ = DFCCBZZ + HLCCBZZ + KSCCBZZ + MGCCBZZ + PCCCBZZ + RFCCBZZ$ $PACCBUS = \Sigma PACCBZZ$
PACCKUS	Factor for converting all petroleum products consumed by the commercial sector from physical units to Btu.	Million Btu per barrel	$PACCKUS = PACCBUS / PACCPUS$
PACCP	All petroleum products consumed by the commercial sector.	Thousand barrels	$PACCPZZ = DFCCPZZ + HLCCPZZ + KSCCPZZ + MGCCPZZ + PCCCPZZ + RFCCPZZ$ $PACCPUS = \Sigma PACCPZZ$
PAEIB	All petroleum products consumed by the electric power sector.	Billion Btu	$PAEIBZZ = DFEIBZZ + JKEUBZZ + PCEIBZZ + RFEIBZZ$ $PAEIBUS = \Sigma PAEIBZZ$
PAEIKUS	Factor for converting all petroleum products consumed by the electric power sector from physical units to Btu.	Million Btu per barrel	$PAEIKUS = PAEIBUS / PAEIPUS$
PAEIP	All petroleum products consumed by the electric power sector.	Thousand barrels	$PAEIPZZ = DFEIPZZ + JKEUPZZ + PCEIPZZ + RFEIPZZ$ $PAEIPUS = \Sigma PAEIPZZ$

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
PAHCBUS	All petroleum products consumed by the residential and commercial sectors combined.	Billion Btu	$PAHCBUS = PARCBUS + PACCBUS$
PAHCKUS	Factor for converting all petroleum products consumed by the residential and commercial sectors combined from physical units to Btu.	Million Btu per barrel	$PAHCKUS = PAHCBUS / PAHCPUS$
PAHCPUS	All petroleum products consumed by the residential and commercial sectors combined.	Thousand barrels	$PAHCPUS = PARCPUS + PACCPUS$
PAICB	All petroleum products consumed by the industrial sector.	Billion Btu	$PAICBZZ = ARICBZZ + DFICBZZ + HLICBZZ + KSICBZZ + LUICBZZ + MGICBZZ + PCICBZZ + RFICBZZ + OPICBZZ$ $PAICBUS = \Sigma PAICBZZ$
PAICKUS	Factor for converting all petroleum products consumed by the industrial sector from physical units to Btu.	Million Btu per barrel	$PAICKUS = PAICBUS / PAICPUS$
PAICP	All petroleum products consumed by the industrial sector.	Thousand barrels	$PAICPZZ = ARICPZZ + DFICPZZ + HLICPZZ + KSICPZZ + LUICPZZ + MGICPZZ + PCICPZZ + RFICPZZ + OPICPZZ$ $PAICPUS = \Sigma PAICPZZ$
PARCB	All petroleum products consumed by the residential sector.	Billion Btu	$PARCBZZ = DFRCBZZ + HLRCBZZ + KSRCBZZ$ $PARCBUS = \Sigma PARCBZZ$
PARCKUS	Factor for converting all petroleum products consumed by the residential sector from physical units to Btu.	Million Btu per barrel	$PARCKUS = PARCBUS / PARCPUS$
PARCP	All petroleum products consumed by the residential sector.	Thousand barrels	$PARCPZZ = DFRCPZZ + HLRCPZZ + KSRCPZZ$ $PARCPUS = \Sigma PARCPZZ$
PATCB	All petroleum products consumed by all sectors.	Billion Btu	$PATCBZZ = ARTCBZZ + AVTCBZZ + DFTCBZZ + HLTCBZZ + JKTCBZZ + JNTCBZZ + KSTCBZZ + LUTCBZZ + MGTCBZZ + PCTCBZZ + RFTCBZZ + OPTCBZZ$ $PATCBUS = \Sigma PATCBZZ$
PATCKUS	Factor for converting all petroleum products consumed by all sectors from physical units to Btu.	Million Btu per barrel	$PATCKUS = PATCBUS / PATCPUS$
PATCP	All petroleum products consumed by all sectors.	Thousand barrels	$PATCPZZ = ARTCPZZ + AVTCPZZ + DFTCPZZ + HLTCBZZ + JKTCBZZ + JNTCPZZ + KSTCPZZ + LUTCPZZ + MGTCBZZ + PCTCPZZ + RFTCPZZ + OPTCPZZ$ $PATCPUS = \Sigma PATCPZZ$

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
PATXB	All petroleum products total end-use consumption.	Billion Btu	$PATXBZZ = ARTXBZZ + AVTXBZZ + DFTXBZZ + HLTXBZZ + JFTXBZZ + KSTXBZZ + LUTXBZZ + MGTXBZZ + PCTXBZZ + RFTXBZZ + OPTXBZZ$ $PATXBUS = \Sigma PATXBZZ$
PATXP	All petroleum products total end-use consumption.	Thousand barrels	$PATXPZZ = ARTXPZZ + AVTXPZZ + DFTXPZZ + HLTXPZZ + JFTXPZZ + KSTXPZZ + LUTXPZZ + MGTXPZZ + PCTXPZZ + RFTXPZZ + OPTXPZZ$ $PATXPUS = \Sigma PATXPZZ$
PCC3M	Petroleum coke consumed for combined-heat-and-power in the commercial sector.	Thousand tons	PCC3MZZ is independent. $PCC3MUS = \Sigma PCC3MZZ$
PCCCB	Petroleum coke consumed for combined-heat-and-power in the commercial sector.	Billion Btu	$PCCCBZZ = PCCCPZZ * PCMKKUS$ $PCCCBUS = \Sigma PCCCBZZ$
PCCCP	Petroleum coke consumed for combined-heat-and-power in the commercial sector.	Thousand barrels	$PCCCPZZ = PCC3MZZ * 5$ $PCCCPUS = \Sigma PCCCPZZ$
PCCTKUS	Factor for converting petroleum coke, catalyst coke from physical units to Btu.	Million Btu per barrel	PCCTKUS is independent.
PCEIB	Petroleum coke consumed by the electric power sector.	Billion Btu	$PCEIBZZ = PCEIPZZ * PCMKKUS$ $PCEIBUS = \Sigma PCEIBZZ$
PCEIM	Petroleum coke consumed by the electric power sector.	Thousand tons	PCEIMZZ is independent. $PCEIMUS = \Sigma PCEIMZZ$
PCEIP	Petroleum coke consumed by the electric power sector.	Thousand barrels	$PCEIPZZ = PCEIMZZ * 5$ $PCEIPUS = \Sigma PCEIPZZ$
PCI3B	Petroleum coke consumed for combined-heat-and-power in the industrial sector.	Billion Btu	$PCI3BZZ = PCI3PZZ * PCMKKUS$ $PCI3BUS = \Sigma PCI3BZZ$
PCI3M	Petroleum coke consumed for combined-heat-and-power in the industrial sector.	Thousand tons	PCI3MZZ is independent. $PCI3MUS = \Sigma PCI3MZZ$
PCI3P	Petroleum coke consumed for combined-heat-and-power in the industrial sector.	Thousand barrels	$PCI3PZZ = PCI3MZZ * 5$ $PCI3PUS = \Sigma PCI3PZZ$
PCICB	Petroleum coke consumed in the industrial sector.	Billion Btu	$PCICBZZ = PCI3BZZ + PCRFBZZ + PCOCBZZ$ $PCICBUS = \Sigma PCICBZZ$
PCICP	Petroleum coke consumed in the industrial sector.	Thousand barrels	$PCICPZZ = PCI3PZZ + PCRFPPZZ + PCOCPZZ$ $PCICPUS = PCTCPUS - PCEIPUS - PCCCPUS$

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
PCMKKUS	Factor for converting petroleum coke, marketable coke from physical units to Btu.	Million Btu per barrel	PCMKKUS is independent.
PCOCB	Petroleum coke consumed in the industrial sector other than for refinery use and combined-heat-and-power.	Billion Btu	PCOCBZZ = PCOCPZZ * PCMKKUS PCOCBUS = ΣPCOCBZZ
PCOCP	Petroleum coke consumed in the industrial sector other than for refinery use and combined-heat-and-power.	Thousand barrels	PCOCPZZ = (AICAPZZ / AICAPUS) * PCOCPUS PCOCPUS = PCICPUS - PCI3PUS - PCRFPUS
PCRFB	Petroleum coke used at refineries.	Billion Btu	PCRFBZZ = PCRFPZZ * PCCTKUS PCRFBUS = ΣPCRFBZZ
PCRFP	Petroleum coke used at refineries.	Thousand barrels	Before 1981: PCRFPZZ = (CTCAPZZ / CTCAPGZ) * PCRFPGZ 1981 through 2012: PCRFPZZ = (CTCAPZZ / CTCAPPZ) * PCRFPZ From 2013 forward: PCRFPZZ is independent. PCRFPUS = ΣPCRFPZZ for all years.
PCTCB	Petroleum coke total consumed.	Billion Btu	PCTCBZZ = PCCCBZZ + PCICBZZ + PCEIBZZ PCTCBUS = ΣPCTCBZZ
PCTCP	Petroleum coke total consumed.	Thousand barrels	PCTCPZZ = PCCCPZZ + PCICPZZ + PCEIPZZ PCTCPUS is independent.
PCTXB	Petroleum coke total end-use consumption.	Billion Btu	PCTXBZZ = PCCCBZZ + PCICBZZ PCTXBUS = ΣPCTXBZZ
PCTXP	Petroleum coke total end-use consumption.	Thousand barrels	PCTXPZZ = PCCCPZZ + PCICPZZ PCTXPUS = ΣPCTXPZZ
PIVAV	Value of shipments (value added prior to 2001) for the paint and coating manufacturing industry.	Million dollars	PIVAVZZ is independent. PIVAVUS = ΣPIVAVZZ
PLICB	Plant condensate consumed by the industrial sector (through 1983).	Billion Btu	PLICBZZ = PLTCBZZ PLICBUS = PLTCBUS
PLICP	Plant condensate consumed by the industrial sector (through 1983).	Thousand barrels	PLICPZZ = PLTCPZZ PLICPUS = PLTCPUS
PLTCB	Plant condensate total consumed (through 1983).	Billion Btu	PLTCBZZ = PLTCPZZ * 5.418 PLTCBUS = ΣPLTCBZZ



**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
PLTCP	Plant condensate total consumed (through 1983).	Thousand barrels	PLTCPZZ = PLTCPUS * FNCASZZ PLTCPUS is independent.
PMTCB	All petroleum products consumed by all sectors, excluding fuel ethanol blended into motor gasoline.	Billion Btu	PMTCBZZ = PATCBZZ - EMTCBZZ PMTCBUS = PATCBUS - EMTCBUS
PPICB	Natural gasoline (pentanes plus) consumed by the industrial sector.	Billion Btu	PPICBZZ = PPTCBZZ PPICBUS = PPTCBUS
PPICP	Natural gasoline (pentanes plus) consumed by the industrial sector.	Thousand barrels	PPICPZZ = PPTCPZZ PPICPUS = PPTCPUS
PPTCB	Natural gasoline (pentanes plus) total consumed.	Billion Btu	PPTCBZZ = PPTCPZZ * 4.620 PPTCBUS = ΣPPTCBZZ
PPTCP	Natural gasoline (pentanes plus) total consumed.	Thousand barrels	PPTCPZZ = PPTCPUS * FNCASZZ PPTCPUS is independent.
PQACB	Propane consumed by the transportation sector.	Billion Btu	PQACBZZ = PQACPZZ * 3.836 PQACBUS = ΣPQACBZZ
PQACP	Propane consumed by the transportation sector.	Thousand barrels	PQACPZZ is independent. PQACPUS is independent.
PQCCB	Propane consumed by the commercial sector.	Billion Btu	PQCCBZZ = PQCCPZZ * 3.836 PQCCBUS = ΣPQCCBZZ
PQCCP	Propane consumed by the commercial sector.	Thousand barrels	PQCCPZZ is independent. PQCCPUS is independent.
PQICB	Propane consumed by the industrial sector.	Billion Btu	PQICBZZ = PQICPZZ * 3.836 PQICBUS = ΣPQICBZZ
PQICP	Propane consumed by the industrial sector.	Thousand barrels	PQICPZZ is independent. PQICPUS is independent.
PQRCB	Propane consumed by the residential sector.	Billion Btu	PQRCBZZ = PQRCPZZ * 3.836 PQRCBUS = ΣPQRCBZZ
PQRCP	Propane consumed by the residential sector.	Thousand barrels	PQRCPZZ is independent. PQRCPUS is independent.
PQTCB	Propane total consumed.	Billion Btu	PQTCBZZ = PQACBZZ + PQCCBZZ + PQICBZZ + PQRCPZZ PQTCBUS = ΣPQTCBZZ
PQTCP	Propane total consumed.	Thousand barrels	PQTCPZZ = PQACPZZ + PQCCPZZ + PQICPZZ + PQRCPZZ PQTCPUS is independent.

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
PQTXB	Propane total end-use consumption.	Billion Btu	$PQTXBZZ = PQACBZZ + PQCCBZZ + PQICBZZ + PQRCBZZ$ $PQTXBUS = \Sigma PQTXBZZ$
PQTXP	Propane total end-use consumption.	Thousand barrels	$PQTXPZZ = PQTCPZZ$ $PQTXPUS = \Sigma PQTXPZZ$
PYICB	Propylene from refineries consumed by the industrial sector.	Billion Btu	$PYICBZZ = PYTCBZZ$ $PYICBUS = PYTCBUS$
PYICP	Propylene from refineries consumed by the industrial sector.	Thousand barrels	$PYICPZZ = PYTCPZZ$ $PYICPUS = PYTCPUS$
PYTCB	Propylene from refineries total consumed.	Billion Btu	$PYTCBZZ = PYTCPZZ * 3.833$ $PYTCBUS = \Sigma PYTCBZZ$
PYTCP	Propylene from refineries total consumed.	Thousand barrels	PYTCPZZ is independent. PYTCPUS is independent.
RDICP	Road oil consumed by the industrial sector (through 1982).	Thousand barrels	$RDICPZZ = (RDINPZZ / RDINPUS) * RDTCPUS$ $RDICPUS = \Sigma RDICPZZ$
RDINP	Road oil sold to the industrial sector (through 1982).	Short tons	RDINPZZ is independent. $RDINPUS = \Sigma RDINPZZ$
RDTCP	Road oil total consumed (through 1982).	Thousand barrels	$RDTCPZZ = RDICPZZ$ RDTCPUS is independent.
REACB	Renewable energy sources consumed by the transportation sector.	Billion Btu	$REACBZZ = EMACBZZ$ $REACBUS = EMACBUS$
RECCB	Renewable energy sources consumed by the commercial sector.	Billion Btu	$RECCBZZ = EMCCBZZ + GECCBZZ + HYCCBZZ + SOCCBZZ + WWCCBZZ + WYCCBZZ$ $RECCBUS = EMCCBUS + GECCBUS + HYCCBUS + SOCCBUS + WWCCBUS + WYCCBUS$
REEIB	Renewable energy sources consumed by the electric power sector.	Billion Btu	$REEIBZZ = HYEGBZZ + GEEGBZZ + SOEGBZZ + WWEIBZZ + WYEGBZZ$ $REEIBUS = HYEGBUS + GEEGBUS + SOEGBUS + WWEIBUS + WYEGBUS$
REICB	Renewable energy sources consumed by the industrial sector.	Billion Btu	$REICBZZ = EMICBZZ + EMLCBZZ + GEICBZZ + HYICBZZ + SOICBZZ + WWICBZZ + WYICBZZ$ $REICBUS = EMICBUS + EMLCBUS + GEICBUS + HYICBUS + SOICBUS + WWICBUS + WYICBUS$

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
RERCB	Renewable energy sources consumed by the residential sector.	Billion Btu	RERCBZZ = WDRCBZZ + GERCBZZ + SORCBZZ RERCBUS = WDRCBUS + GERCBUS + SORCBUS
RETCB	Renewable energy sources total consumed.	Billion Btu	RETCBZZ = EMLCBZZ + EMTCBZZ + GETCBZZ + HYTCBZZ + SOTCBZZ + WWTCBZZ + WYTCBZZ RETCBUS = EMLCBUS + EMTCBUS + GETCBUS + HYTCBUS + SOTCBUS + WWTCBUS + WYTCBUS
RFACB	Residual fuel oil consumed by the transportation sector.	Billion Btu	RFACBZZ = RFACPZZ * 6.287 RFACBUS = ΣRFACBZZ
RFACP	Residual fuel oil consumed by the transportation sector.	Thousand barrels	RFACPZZ = (RFTRPZZ / RFNDPZZ) * RFNCPZZ RFACPUS = ΣRFACPZZ
RFBKP	Residual fuel oil sold for vessel bunkering use, excluding deliveries to the military.	Thousand barrels	RFBKPZZ is independent. RFBKPUS = ΣRFBKPZZ
RFCCB	Residual fuel oil consumed by the commercial sector.	Billion Btu	RFCCBZZ = RFCCPZZ * 6.287 RFCCBUS = ΣRFCCBZZ
RFCCP	Residual fuel oil consumed by the commercial sector.	Thousand barrels	RFCCPZZ = (RFCMPZZ / RFNDPZZ) * RFNCPZZ RFCCPUS = ΣRFCCPZZ
RFCMP	Residual fuel oil sold to the commercial sector.	Thousand barrels	RFCMPZZ is independent. RFCMPUS = ΣRFCMPZZ
RFEIB	Residual fuel oil consumed by the electric power sector.	Billion Btu	RFEIBZZ = RFEIPZZ * 6.287 RFEIBUS = ΣRFEIBZZ
RFEIP	Residual fuel oil consumed by the electric power sector.	Thousand barrels	RFEIPZZ is independent. RFEIPUS = ΣRFEIPZZ
RFIBP	A portion of residual fuel oil sold for industrial use, including industrial space heating.	Thousand barrels	RFIBPZZ is independent. RFIBPUS = ΣRFIBPZZ
RFICB	Residual fuel oil consumed by the industrial sector.	Billion Btu	RFICBZZ = RFICPZZ * 6.287 RFICBUS = ΣRFICBZZ
RFICP	Residual fuel oil consumed by the industrial sector.	Thousand barrels	RFICPZZ = (RFINPZZ / RFNDPZZ) * RFNCPZZ RFICPUS = ΣRFICPZZ
RFINP	Residual fuel oil sold to the industrial sector.	Thousand barrels	RFINPZZ = RFIBPZZ + RFOCPZZ + RFMSPZZ RFINPUS = ΣRFINPZZ
RFMIP	Residual fuel oil sold to the military, regardless of use.	Thousand barrels	RFMIPZZ is independent. RFMIPUS = ΣRFMIPZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
RFMSP	Residual fuel oil sold for miscellaneous uses.	Thousand barrels	RFMSPZZ is independent. RFMSPUS = $\Sigma$ RFMSPZZ
RFNCP	Residual fuel oil consumption by all sectors other than the electric power sector.	Thousand barrels	RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS RFNCPUS = RFTCPUS - RFEIPUS
RFNDP	Residual fuel oil sold to all sectors other than the electric power sector.	Thousand barrels	RFNDPZZ = RFCMPZZ + RFINPZZ + RFTRPZZ RFNDPUS = $\Sigma$ RFNDPZZ
RFOCP	Residual fuel oil sold for use by oil companies.	Thousand barrels	RFOCPZZ is independent. RFOCPUS = $\Sigma$ RFOCPZZ
RFRRP	Residual fuel oil sold for use by railroads.	Thousand barrels	RFRRPZZ is independent. RFRRPUS = $\Sigma$ RFRRPZZ
RFTCB	Residual fuel oil total consumed.	Billion Btu	RFTCBZZ = RFCCBZZ + RFICBZZ + RFACBZZ + RFEIBZZ RFTCBUS = $\Sigma$ RFTCBZZ
RFTCP	Residual fuel oil total consumed.	Thousand barrels	RFTCPZZ = RFNCPZZ + RFEIPZZ RFTCPUS is independent.
RFTRP	Residual fuel oil sold to the transportation sector.	Thousand barrels	RFTRPZZ = RFBKPZZ + RFMIPZZ + RFRRPZZ RFTRPUS = $\Sigma$ RFTRPZZ
RFTXB	Residual fuel oil total end-use consumption.	Billion Btu	RFTXBZZ = RFACBZZ + RFCCBZZ + RFICBZZ RFTXBUS = $\Sigma$ RFTXBZZ
RFTXP	Residual fuel oil total end-use consumption.	Thousand barrels	RFTXPZZ = RFACPZZ + RFCCPZZ + RFICPZZ RFTXPUS = $\Sigma$ RFTXPZZ
SFCCB	Supplemental gaseous fuels consumed by the commercial sector.	Billion Btu	SFCCBZZ = SFCCPZZ * NGTXKZZ SFCCBUS = $\Sigma$ SFCCBZZ
SFCCP	Supplemental gaseous fuels consumed by the commercial sector.	Million cubic feet	SFCCPZZ = NGSFPZZ * (NGCCPZZ / NGTZPZZ) SFCCPUS = $\Sigma$ SFCCPZZ
SFEIB	Supplemental gaseous fuels consumed by the electric power sector.	Billion Btu	SFEIBZZ = SFEIPZZ * NGEIKZZ SFEIBUS = $\Sigma$ SFEIBZZ
SFEIP	Supplemental gaseous fuels consumed by the electric power sector.	Million cubic feet	SFEIPZZ = NGSFPZZ * (NGEIPZZ / NGTZPZZ) SFEIPUS = $\Sigma$ SFEIPZZ
SFINB	Supplemental gaseous fuels consumed by the industrial sector.	Billion Btu	SFINBZZ = SFINPZZ * NGTXKZZ SFINBUS = $\Sigma$ SFINBZZ
SFINP	Supplemental gaseous fuels consumed by the industrial sector.	Million cubic feet	SFINPZZ = NGSFPZZ * (NGINPZZ / NGTZPZZ) SFINPUS = $\Sigma$ SFINPZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
SFRCB	Supplemental gaseous fuels consumed by the residential sector.	Billion Btu	SFRCBZZ = SFRCPZZ * NGTXKZZ SFRCBUS = ΣSFRCBZZ
SFRCP	Supplemental gaseous fuels consumed by the residential sector.	Million cubic feet	SFRCPZZ = NGSFPZZ * (NGRCPZZ / NGTZPZZ) SFRCPUS = ΣSFRCPZZ
SFTCB	Supplemental gaseous fuels total consumed.	Billion Btu	SFTCBZZ = SFCCBZZ + SFINBZZ + SFRCBZZ + SFEIBZZ SFTCBUS = ΣSFTCBZZ
SFTCP	Supplemental gaseous fuels total consumed.	Million cubic feet	SFTCPZZ = SFCCPZZ + SFINPZZ + SFRCPZZ + SFEIPZZ SFTCPUS = ΣSFTCPZZ
SGICB	Still gas consumed by the industrial sector.	Billion Btu	SGICBZZ = SGTCBZZ SGICBUS = SGTCBUS
SGICP	Still gas consumed by the industrial sector.	Thousand barrels	SGICPZZ = SGTCPZZ SGICPUS = SGTCPUS
SGTCB	Still gas total consumed.	Billion Btu	SGTCBZZ = SGTCPZZ * 6.000 SGTCBUS = ΣSGTCBZZ
SGTCP	Still gas total consumed.	Thousand barrels	SGTCPZZ = (COCAPZZ / COCAPUS) * SGTCPUS SGTCPUS is independent.
SNICB	Special naphthas consumed by the industrial sector.	Billion Btu	SNICBZZ = SNTCBZZ SNICBUS = SNTCBUS
SNICP	Special naphthas consumed by the industrial sector.	Thousand barrels	SNICPZZ = SNTCPZZ SNICPUS = SNTCPUS
SNTCB	Special naphthas total consumed.	Billion Btu	SNTCBZZ = SNTCPZZ * 5.248 SNTCBUS = ΣSNTCBZZ
SNTCP	Special naphthas total consumed.	Thousand barrels	SNTCPZZ = (PIVAVZZ / PIVAVUS) * SNTCPUS SNTCPUS is independent.
SOC5B	Solar energy consumed for electricity generation at utility-scale commercial CHP and electricity-only facilities.	Billion Btu	SOC5BZZ = SOC5PZZ * FFETKUS SOC5BUS = ΣSOC5BZZ
SOC5P	Solar thermal and photovoltaic electricity net generation at utility-scale commercial CHP and electricity-only facilities.	Million kilowatthours	SOC5PZZ is independent. SOC5PUS = ΣSOC5PZZ
SOC7B	Solar energy consumed for electricity generation at small-scale commercial facilities.	Billion Btu	SOC7BZZ = SOC7PZZ * FFETKUS SOC7BUS = ΣSOC7BZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
SOC7P	Photovoltaic electricity generation at small-scale commercial facilities.	Million kilowatthours	SOC7PZZ is independent. SOC7PUS = $\Sigma$ SOC7PZZ
SOC7B	Solar energy consumed by the commercial sector (except small amount of solar thermal energy consumed as heat included in SORCB).	Billion Btu	SOC7BZZ = SOC7PZZ + SOC5BZZ SOC7BUS = $\Sigma$ SOC7BZZ
SOC7CP	Solar thermal and photovoltaic electricity net generation in the commercial sector.	Million kilowatthours	SOC7CPZZ = SOC7PZZ + SOC5PZZ SOC7CPUS = $\Sigma$ SOC7CPZZ
SOEGB	Solar energy consumed for electricity generation by the electric power sector.	Billion Btu	SOEGBZZ = SOEGPZZ * FFETKUS SOEGBUS = $\Sigma$ SOEGBZZ
SOEGP	Solar thermal and photovoltaic electricity net generation in the electric power sector.	Million kilowatthours	SOEGPZZ is independent. SOEGPUS = $\Sigma$ SOEGPZZ
SOI5B	Solar energy consumed for electricity generation at utility-scale industrial CHP and electricity-only facilities.	Billion Btu	SOI5BZZ = SOI5PZZ * FFETKUS SOI5BUS = $\Sigma$ SOI5BZZ
SOI5P	Solar thermal and photovoltaic electricity net generation at utility-scale industrial CHP and electricity-only facilities.	Million kilowatthours	SOI5PZZ is independent. SOI5PUS = $\Sigma$ SOI5PZZ
SOI7B	Solar energy consumed for electricity generation at small-scale industrial facilities.	Billion Btu	SOI7BZZ = SOI7PZZ * FFETKUS SOI7BUS = $\Sigma$ SOI7BZZ
SOI7P	Photovoltaic electricity generation at small-scale industrial facilities.	Million kilowatthours	SOI7PZZ is independent. SOI7PUS = $\Sigma$ SOI7PZZ
SOICB	Solar energy consumed by the industrial sector (except small amount of solar thermal energy consumed as heat included in SORCB).	Billion Btu	SOICBZZ = SOI7BZZ + SOI5BZZ SOICBUS = $\Sigma$ SOICBZZ
SOICP	Solar thermal and photovoltaic electricity net generation in the industrial sector.	Million kilowatthours	SOICPZZ = SOI7PZZ + SOI5PZZ SOICPUS = $\Sigma$ SOICPZZ
SOR7B	Solar energy consumed for electricity generation by small-scale applications in the residential sector.	Billion Btu	SOR7BZZ = SOR7PZZ * FFETKUS SOR7BUS = $\Sigma$ SOR7BZZ
SOR7P	Photovoltaic electricity generation by small-scale applications in the residential sector.	Million kilowatthours	SOR7PZZ is independent. SOR7PUS = $\Sigma$ SOR7PZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
SORCB	Solar energy consumed by the residential sector (including small amount of solar thermal energy consumed as heat by the commercial and industrial sectors).	Billion Btu	SORCBZZ = SOT8BZZ + SOR7BZZ SORCBUS = ΣSORCBZZ
SOT8B	Solar thermal energy consumed as heat.	Billion Btu	SOT8BZZ = (SOTTPZZ / SOTTPUS) * SOT8BUS SOT8BUS is independent.
SOTCB	Solar energy, total consumed.	Billion Btu	SOTCBZZ = SORCBZZ + SOCCBZZ + SOICBZZ + SOEGBZZ SOTCBUS = ΣSOTCBZZ
SOTGP	Solar thermal and photovoltaic electricity total net generation.	Million kilowatthours	SOTGPZZ = SOR7PZZ + SOCCPZZ + SOICPZZ + SOEGPZZ SOTGPUS = ΣSOTGPZZ
SOTTP	Rolling 20-year accumulation of shipments of solar thermal energy collectors.	Square feet	SOTTPZZ is independent. SOTTPUS = ΣSOTTPZZ
SOTXB	Solar energy, total end-use consumption.	Billion Btu	SOTXBZZ = SORCBZZ + SOCCBZZ + SOICBZZ SOTXBUS = ΣSOTXBZZ
TEACB	Total energy consumed by the transportation sector.	Billion Btu	TEACBZZ = CLACBZZ + NGACBZZ + PAACBZZ + ESACBZZ + LOACBZZ TEACBUS = CLACBUS + NGACBUS + PAACBUS + ESACBUS + LOACBUS
TEAPB	The transportation sector's energy consumption per capita.	Million Btu	TEAPBZZ = TEACBZZ / TPOPPZZ TEAPBUS = TEACBUS / TPOPPUS
TECCB	Total energy consumed by the commercial sector.	Billion Btu	TECCBZZ = CLCCBZZ + NGCCBZZ + PACCBZZ + GECCBZZ + HYCCBZZ + SOCCBZZ + WWCCBZZ + WYCCBZZ + ESCCBZZ + LOCCBZZ - SFCCBZZ TECCBUS = CLCCBUS + NGCCBUS + PACCBUS + GECCBUS + HYCCBUS + SOCCBUS + WWCCBUS + WYCCBUS + ESCCBUS + LOCCBUS - SFCCBUS
TECPB	The commercial sector's energy consumption per capita.	Million Btu	TECPBZZ = TECCBZZ / TPOPPZZ TECPBUS = TECCBUS / TPOPPUS
TEEIB	Total energy consumed by the electric power sector plus net imports of electricity into the United States.	Billion Btu	TEEIBZZ = CLEIBZZ + NGEIBZZ + PAEIBZZ + NUEGBZZ + GEEGBZZ + HYEGBZZ + SOEGBZZ + WWEIBZZ + WYEGBZZ + ELNIBZZ - SFEIBZZ TEEIBUS = ΣTEEIBZZ
TEESB	Total energy used to generate the electricity consumed in a state.	Billion Btu	TEESBZZ = TEEIBZZ + ELISBZZ TEESBUS = TEEIBUS

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
TEICB	Total energy consumed by the industrial sector.	Billion Btu	TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + GEICBZZ + HYICBZZ + SOICBZZ + WWICBZZ + WYICBZZ + ESICBZZ + LOICBZZ + EMLCBZZ - SFINBZZ TEICBUS = CLICBUS + CCNIBUS + NGICBUS + PAICBUS + GEICBUS + HYICBUS + SOICBUS + WWICBUS + WYICBUS + ESICBUS + LOICBUS + EMLCBUS - SFINBUS
TEIPB	The industrial sector's energy consumption per capita.	Million Btu	TEIPBZZ = TEICBZZ / TPOPPZZ TEIPBUS = TEICBUS / TPOPPUS
TERCB	Total energy consumed by the residential sector.	Billion Btu	TERCBZZ = CLRCBZZ + NGRCBZZ + PARCBZZ + WDRCBZZ + GERCBZZ + SORCBZZ + ESRCBZZ + LORCBZZ - SFRCBZZ TERCBUS = CLRCBUS + NGRCBUS + PARCBUS + WDRCBUS + GERCBUS + SORCBUS + ESRCBUS + LORCBUS - SFRCBUS
TERPB	The residential sector's energy consumption per capita.	Million Btu	TERPBZZ = TERCBZZ / TPOPPZZ TERPBUS = TERCBUS / TPOPPUS
TETCB	Total energy consumed.	Billion Btu	TETCBZZ = FFTCBZZ + NUETBZZ + RETCBZZ + ELNIBZZ + ELISBZZ TETCBUS = FFTCBUS + NUETBUS + RETCBUS + ELNIBUS
TETGR	Total energy consumed per dollar of real gross domestic product.	Thousand Btu per chained (2009) dollars.	TETGRZZ = TETCBZZ / GDPRXZZ TETGRUS = TETCBUS / GDPRXUS
TETPB	Total energy consumption per capita.	Million Btu	TETPBZZ = TETCBZZ / TPOPPZZ TETPBUS = TETCBUS / TPOPPUS
TETXB	Total end-use energy consumption.	Billion Btu	TETXBZZ = TEACBZZ + TECCBZZ + TEICBZZ + TERCBZZ TETXBUS = ΣTETXBZZ
TNACB	Total net energy consumed by the transportation sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNACBZZ = TEACBZZ - LOACBZZ TNACBUS = TEACBUS - LOACBUS
TNCCB	Total net energy consumed by the commercial sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNCCBZZ = TECCBZZ - LOCCBZZ TNCCBUS = TECCBUS - LOCCBUS
TNICB	Total net energy consumed by the industrial sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNICBZZ = TEICBZZ - LOICBZZ TNICBUS = TEICBUS - LOICBUS



**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
TNRCB	Total net energy consumed by the residential sector excluding the sector's share of electrical system energy losses.	Billion Btu	TNRCBZZ = TERCBZZ - LORCBZZ TNRCBUS = TERCBUS - LORCBUS
TNTXB	Total primary energy and electricity consumed by the end-use sectors.	Billion Btu	TNTXBZZ = TNACBZZ + TNCCBZZ + TNICBZZ + TNRCBZZ TNTXBUS = ΣTNTXBZZ
TPOPP	The resident population including the Armed Forces residing in each state.	Thousand	TPOPPZZ is independent. TPOPPUS is independent.
UOICB	Unfinished oils consumed by the industrial sector.	Billion Btu	UOICBZZ = UOTCBZZ UOICBUS = UOTCBUS
UOICP	Unfinished oils consumed by the industrial sector.	Thousand barrels	UOICPZZ = UOTCPZZ UOICPUS = UOTCPUS
UOTCB	Unfinished oils total consumed.	Billion Btu	UOTCBZZ = UOTCPZZ * 5.825 UOTCBUS = ΣUOTCBZZ
UOTCP	Unfinished oils total consumed.	Thousand barrels	UOTCPZZ = (COCAPZZ / COCAPUS) * UOTCPUS UOTCPUS is independent.
USICB	Unfractionated streams consumed by the industrial sector (through 1983).	Billion Btu	USICBZZ = USTCBZZ USICBUS = USTCBUS
USICP	Unfractionated streams consumed by the industrial sector (through 1983).	Thousand barrels	USICPZZ = USTCPZZ USICPUS = USTCPUS
USTCB	Unfractionated streams total consumed (through 1983).	Billion Btu	USTCBZZ = USTCPZZ * 5.418 USTCBUS = ΣUSTCBZZ
USTCP	Unfractionated streams total consumed (through 1983).	Thousand barrels	USTCPZZ = USTCPUS * FNCASZZ USTCPUS is independent.
WDC3B	Wood consumed by CHP and electricity-only facilities in the commercial sector.	Billion Btu	WDC3BZZ is independent. WDC3BUS = ΣWDC3BZZ
WDC4B	Wood energy consumed for other uses in the commercial sector.	Billion Btu	WDC4BZZ = (WDRCPZZ / WDRCPUS) * WDC4BUS WDC4BUS = WDCCBUS - WDC3BUS
WDCCB	Wood energy consumed by the commercial sector, total.	Billion Btu	WDCCBZZ = WDC3BZZ + WDC4BZZ WDCCBUS is independent.

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
WDEIB	Wood consumed by the electric power sector.	Billion Btu	WDEIBZZ is independent. WDEIBUS = $\Sigma$ WDEIBZZ
WDI3B	Wood consumed by CHP and electricity-only facilities in the industrial sector.	Billion Btu	WDI3BZZ is independent. WDI3BUS = $\Sigma$ WDI3BZZ
WDI4B	Wood energy consumed for other uses in the industrial sector.	Billion Btu	WDI4BZZ is independent. WDI4BUS = $\Sigma$ WDI4BZZ
WDICB	Wood energy consumed by the industrial sector, total.	Billion Btu	WDICBZZ = WDI3BZZ + WDI4BZZ WDICBUS = $\Sigma$ WDICBZZ
WDRCB	Wood energy consumed by the residential sector.	Billion Btu	WDRCBZZ = WDRCPZZ * 20 WDRCBUS = $\Sigma$ WDRCBZZ
WDRCP	Wood energy consumed by the residential sector.	Thousand cords	WDRCPZZ is independent. WDRCPUS = $\Sigma$ WDRCPZZ
WDTCB	Wood energy, total consumed.	Billion Btu	WDTCBZZ = WDRCBZZ + WDCCBZZ + WDICBZZ + WDEIBZZ WDTCBUS = $\Sigma$ WDTCBZZ
WSC3B	Waste consumed by CHP and electricity-only facilities in the commercial sector.	Billion Btu	WSC3BZZ is independent. WSC3BUS = $\Sigma$ WSC3BZZ
WSCCB	Waste consumed in the commercial sector, total.	Billion Btu	WSCCBZZ = WSC3BZZ WSCCBUS = $\Sigma$ WSCCBZZ
WSEIB	Waste consumed by the electric power sector.	Billion Btu	WSEIBZZ is independent. WSEIBUS = $\Sigma$ WSEIBZZ
WSI3B	Waste consumed by CHP and electricity-only facilities in the industrial sector.	Billion Btu	WSI3BZZ is independent. WSI3BUS = $\Sigma$ WSI3BZZ
WSI4B	Waste energy consumed for other uses in the industrial sector.	Billion Btu	WSI4BZZ is independent. WSI4BUS = $\Sigma$ WSI4BZZ
WSICB	Waste energy consumed by the industrial sector, total.	Billion Btu	WSICBZZ = WSI3BZZ + WSI4BZZ WSICBUS = $\Sigma$ WSICBZZ
WSTCB	Waste energy, total consumed.	Billion Btu	WSTCBZZ = WSCCBZZ + WSICBZZ + WSEIBZZ WSTCBUS = $\Sigma$ WSTCBZZ
WWCCB	Wood and waste consumed in the commercial sector.	Billion Btu	WWCCBZZ = WDCCBZZ + WSCCBZZ WWCCBUS = $\Sigma$ WWCCBZZ
WWEIB	Wood and waste consumed by the electric power sector.	Billion Btu	WWEIBZZ = WDEIBZZ + WSEIBZZ WWEIBUS = $\Sigma$ WWEIBZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
WWI4B	Wood and waste consumed in manufacturing processes in the industrial sector.	Billion Btu	WWI4BZZ = WDI4BZZ + WSI4BZZ WWI4BUS = ΣWWI4BZZ
WWICB	Wood and waste consumed in the industrial sector, total.	Billion Btu	WWICBZZ = WDICBZZ + WSICBZZ WWICBUS = ΣWWICBZZ
WWTCB	Wood and waste total consumed.	Billion Btu	WWTCBZZ = WDTCBZZ + WSTCBZZ WWTCBUS = ΣWWTCBZZ
WWTXB	Wood and waste total end-use consumption.	Billion Btu	WWTXBZZ = WDRCBZZ + WDCCBZZ + WDICBZZ + WSCCBZZ + WSICBZZ WWTXBUS = ΣWWTXBZZ
WXICB	Waxes consumed by the industrial sector.	Billion Btu	WXICBZZ = WXTCBZZ WXICBUS = WXTCBUS
WXICP	Waxes consumed by the industrial sector.	Thousand barrels	WXICPZZ = WXTCPZZ WXICPUS = WXTCPUS
WXTCB	Waxes total consumed.	Billion Btu	WXTCBZZ = WXTCPZZ * 5.537 WXTCBUS = ΣWXTCBZZ
WXTCP	Waxes total consumed.	Thousand barrels	WXTCPZZ = (CGVAVZZ / CGVAVUS) * WXTCPUS WXTCPUS is independent.
WYC5B	Wind energy consumed at commercial CHP and electricity-only facilities.	Billion Btu	WYC5BZZ = WYC5PZZ * FFETKUS WYC5BUS = ΣWYC5BZZ
WYC5P	Wind electricity net generation at utility-scale commercial CHP and electricity-only facilities.	Million kilowatthours	WYC5PZZ is independent. WYC5PUS = ΣWYC5PZZ
WYCCB	Wind energy consumed by the commercial sector.	Billion Btu	WYCCBZZ = WYC5BZZ WYCCBUS = ΣWYCCBZZ
WYCCP	Wind electricity net generation in the commercial sector.	Million kilowatthours	WYCCPZZ = WYC5PZZ WYCCPUS = ΣWYCCPZZ
WYEGB	Wind energy consumed for electricity generation by the electric power sector.	Billion Btu	WYEGBZZ = WYEGPZZ * FFETKUS WYEGBUS = ΣWYEGBZZ
WYEGP	Wind electricity net generation in the electric power sector.	Million kilowatthours	WYEGPZZ is independent. WYEGPUS = ΣWYEGPZZ
WYI5B	Wind energy consumed for electricity generation at industrial CHP and electricity-only facilities.	Billion Btu	WYI5BZZ = WYI5PZZ * FFETKUS WYI5BUS = ΣWYI5BZZ

**Table A1. Consumption Variables (cont.)**

<b>MSN</b>	<b>Description</b>	<b>Unit</b>	<b>Formula</b>
WYI5P	Wind electricity net generation at utility-scale industrial CHP and electricity-only facilities.	Million kilowatthours	WYI5PZZ is independent. WYI5PUS = $\Sigma$ WYI5PZZ
WYICB	Wind energy consumed by the industrial sector.	Billion Btu	WYICBZZ = WYI5BZZ WYICBUS = $\Sigma$ WYICBZZ
WYICP	Wind electricity net generation in the industrial sector.	Million kilowatthours	WYICPZZ = WYI5PZZ WYICPUS = $\Sigma$ WYICPZZ
WYTCB	Wind energy, total consumed.	Billion Btu	WYTCBZZ = WYCCBZZ + WYEGBZZ + WYICBZZ WYTCBUS = $\Sigma$ WYTCBZZ
WYTCP	Wind electricity, total net generation.	Million kilowatthours	WYTCPZZ = WYCCPZZ + WYEGPZZ + WYICPZZ WYTCPUS = $\Sigma$ WYTCPZZ
WYTXB	Wind energy, total end-use consumption.	Billion Btu	WYTXBZZ = WYCCBZZ + WYICBZZ WYTXBUS = $\Sigma$ WYTXBZZ
WYTXP	Wind energy, total end-use net generation.	Million kilowatthours	WYTXPZZ = WYCCPZZ + WYICPZZ WYTXPUS = $\Sigma$ WYTXPZZ