

## Appendix A

# State Energy Data System Variables: Consumption

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 consist of the following components:

<b>Character Positions:</b>	<b>1 and 2</b>	<b>3 and 4</b>	<b>5</b>
<b>Identify:</b>	Type of energy	Energy activity or consumption end-use sector	Type of data

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 added in manufacture.

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. Some estimates of electricity sales and losses are derived by using only the contiguous 48 States and the District of Columbia. The variables used in those calculations are identified by “48.”

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P  
P  
E  
N  
D  
I  
X  
  
A**

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	ASICPZZ = (ASINPZZ / ASINPUS) * ASTCPUS ASICPUS = ΣASICPZZ
ASINP	Asphalt sold to the industrial sector.	Short tons	ASINPZZ is independent. ASINPUS = ΣASINPZZ
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	$AVACPZZ = (AVTTPZZ / AVTTPUS) * AVTCPUS$ $AVACPUS = \Sigma AVACPZZ$
AVMIP	Aviation gasoline issued to the military.	Thousand barrels	AVMIPZZ is independent. $AVMIPUS = \Sigma AVMIPZZ$
AVNMM	Aviation gasoline sold to nonmilitary users.	Thousand gallons	AVNMMZZ is independent. $AVNMMUS = \Sigma AVNMMZZ$
AVNMP	Aviation gasoline sold to nonmilitary users.	Thousand barrels	$AVNMPZZ = AVNMMZZ / 42$ $AVNMPUS = \Sigma AVNMPZZ$
AVTCB	Aviation gasoline total consumed.	Billion Btu	$AVTCBZZ = AVACBZZ$ $AVTCBUS = \Sigma AVTCBZZ$
AVTCP	Aviation gasoline total consumed.	Thousand barrels	$AVTCPZZ = AVACPZZ$ AVTCPUS is independent.
AVTTP	Aviation gasoline total sales to the transportation sector.	Thousand barrels	$AVTTPZZ = AVNMPZZ + AVMIPZZ$ $AVTTPUS = \Sigma AVTTPZZ$
AVTXB	Aviation gasoline total end-use consumption.	Billion Btu	$AVTXBZZ = AVACBZZ$ $AVTXBUS = \Sigma AVTXBZZ$
AVTXP	Aviation gasoline total end-use consumption.	Thousand barrels	$AVTXPZZ = AVACPZZ$ $AVTXPUS = \Sigma AVTXPZZ$
BMTCB	Biomass total consumed.	Billion Btu	$BMTCB = WWTCB + EMTCB + EMLCB$
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 or value added in the manufacture of corrugated and solid fiber boxes.	Million dollars	CGVAVZZ is independent. $CGVAVUS = \Sigma CGVAVZZ$
CLACB	Coal consumed by the transportation sector.	Billion Btu	$CLACBZZ = CLACPZZ * CLACKZZ$ $CLACBUS = \Sigma CLACBZZ$

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P  
E  
N  
D  
I  
X  
  
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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 / CLACBUS
CLACP	Coal consumed by the transportation sector.	Thousand short tons	CLACPZZ = (CLICPZZ / CLICPUS) * CLACBUS 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
CLEIP	Coal consumed by the electric power sector.	Thousand short tons	CLEIPZZ is independent CLEIPUS = ΣCLEIPZZ
CLHCB	Coal consumed by the residential and commercial sectors.	Billion Btu	CLHCBZZ = CLCCBZZ + CLRCBZZ CLHCBUS = ΣCLHCBZZ
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.	Thousand short tons	CLHCPZZ = (CLHDPZZ / CLHDPUS) * CLHCPUS CLHCPUS is independent.
CLHDP	Coal distributed to the residential and commercial sectors.	Thousand short tons	CLHDPZZ is independent. CLHDPUS = ΣCLHDPZZ
CLICB	Coal consumed by the industrial sector.	Billion Btu	CLICBZZ = CLKCBZZ + CLOCBZZ CLICBUS = ΣCLICBZZ
CLICP	Coal consumed by the industrial sector.	Thousand short tons	CLICPZZ = CLKCPZZ + CLOCPZZ CLICPUS = ΣCLICPZZ
CLKCB	Coal consumed at coke plants (coking coal).	Billion Btu	CLKCBZZ = CLKCPZZ * CLKCKZZ CLKCBUS = ΣCLKCBZZ
CLKCK	The factor for converting coal consumed at 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. $CLODPUS = \Sigma CLODPZZ$
CLRCB	Coal consumed by the residential sector.	Billion Btu	$CLRCBZZ = CLRCPZZ * CLHCKZZ$ $CLRCBUS = \Sigma CLRCBZZ$
CLRCP	Coal consumed by the residential sector.	Thousand short tons	$CLRCPZZ = CLHCPZZ * CLRCSUS$ $CLRCPUS = \Sigma CLRCPZZ$
CLRCSUS	The share of residential and commercial coal consumed by the residential sector.	Percent	CLRCSUS is independent.
CLTCB	Coal total consumed.	Billion Btu	$CLTCBZZ = CLRCBZZ + CLCCBZZ +$ $CLICBZZ + CLACBZZ + CLEIBZZ$ $CLTCBUS = \Sigma CLTCBZZ$
CLTCP	Coal total consumed.	Thousand short tons	$CLTCPZZ = CLRCPZZ + CLCCPZZ +$ $CLICPZZ + CLACPZZ + CLEIPZZ$ $CLTCPUS = \Sigma CLTCPZZ$
CLTXB	Coal total end-use consumption.	Billion Btu	$CLTXBZZ = CLACBZZ + CLCCBZZ + CLICBZZ +$ $CLRCBZZ$ $CLTXBUS = \Sigma CLTXBZZ$
CLTXP	Coal total end-use consumption.	Thousand barrels	$CLTXPZZ = CLACPZZ + CLCCPZZ + CLICPZZ +$ $CLRCPZZ$ $CLTXPUS = \Sigma CLTXPZZ$
COCAP	Crude oil operating capacity at refineries.	Barrels per calendar day	COCAPZZ is independent. $COCAPUS = \Sigma COCAPZZ$

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N  
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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 1980 forward: Barrels per stream day	CTCAPZZ is independent. CTCAPUS = ΣCTCAPZZ
DFACB	Distillate fuel oil consumed by the transportation sector.	Billion Btu	DFACBZZ = DFACPZZ * 5.825 DFACBUS = ΣDFACBZZ
DFACP	Distillate fuel oil consumed by the transportation sector.	Thousand barrels	DFACPZZ = (DFTRPZZ / DFNDPZZ) * DFNCPZZ DFACPUS = ΣDFACPZZ
DFBKP	Distillate fuel oil sales for vessel bunkering use, excluding that sold to the Armed Forces.	Thousand barrels	DFBKPZZ is independent. DFBKPUS = ΣDFBKPZZ
DFCCB	Distillate fuel oil consumed by the commercial sector.	Billion Btu	DFCCBZZ = DFCCPZZ * 5.825 DFCCBUS = ΣDFCCBZZ
DFCCP	Distillate fuel oil consumed by the commercial sector.	Thousand barrels	DFCCPZZ = (DFCMPZZ / DFNDPZZ) * DFNCPZZ DFCCPUS = ΣDFCCPZZ
DFCMP	Distillate fuel oil sales to the commercial sector.	Thousand barrels	DFCMPZZ is independent. DFCMPUS = ΣDFCMPZZ
DFEIB	Distillate fuel oil consumed by the electric power sector.	Billion Btu	DFEIBZZ = DFEIPZZ * 5.825 DFEIBUS = ΣDFEIBZZ
DFEIP	Distillate fuel oil (excluding kerosene-type jet fuel) consumed by the electric power sector.	Thousand barrels	DFEIPZZ = DKEIPZZ - JKEUPZZ DFEIPUS = ΣDFEIPZZ
DFIBP	Distillate fuel oil sales for industrial space heating and other industrial use, including farm use.	Thousand barrels	DFIBPZZ is independent. DFIBPUS = ΣDFIBPZZ

DFICB	Distillate fuel oil consumed by the industrial sector.	Billion Btu	$DFICBZZ = DFICPZZ * 5.825$ $DFICBUS = \Sigma DFICBZZ$
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 Armed Forces, 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. $DFOFPUS = \Sigma DFOFPZZ$
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	$DFRCBZZ = DFRCPZZ * 5.825$ $DFRCBUS = \Sigma DFRCBZZ$
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	$\begin{aligned} \text{DFTCBZZ} &= \text{DFRCBZZ} + \text{DFCCBZZ} + \\ &\quad \text{DFICBZZ} + \text{DFACBZZ} + \text{DFEIBZZ} \\ \text{DFTCBUS} &= \Sigma \text{DFTCBZZ} \end{aligned}$
DFTCP	Distillate fuel oil total consumed.	Thousand barrels	$\begin{aligned} \text{DFTCPZZ} &= \text{DFNCPZZ} + \text{DFEIPZZ} \\ \text{DFTCPUS} &\text{ is independent.} \end{aligned}$
DFTRP	Distillate fuel oil sales to the transportation sector.	Thousand barrels	$\begin{aligned} \text{DFTRPZZ} &= \text{DFBKPZZ} + \text{DFMIPZZ} + \\ &\quad \text{DFRRPZZ} + \text{DFONPZZ} \\ \text{DFTRPUS} &= \Sigma \text{DFTRPZZ} \end{aligned}$
DFTXB	Distillate fuel oil total end-use consumption.	Billion Btu	$\begin{aligned} \text{DFTXBZZ} &= \text{DFACBZZ} + \text{DFCCBZZ} + \text{DFICBZZ} + \\ &\quad \text{DFRCBZZ} \\ \text{DFTXBUS} &= \Sigma \text{DFTXBZZ} \end{aligned}$
DFTXP	Distillate fuel oil total end-use consumption.	Thousand barrels	$\begin{aligned} \text{DFTXPZZ} &= \text{DFACPZZ} + \text{DFCCPZZ} + \text{DFICPZZ} + \\ &\quad \text{DFRCPZZ} \\ \text{DFTXPUS} &= \Sigma \text{DFTXPZZ} \end{aligned}$
DKEIB	Distillate fuel oil and kerosene-type jet fuel consumed by the electric power sector.	Billion Btu	$\begin{aligned} \text{DKEIBZZ} &= \text{DFEIBZZ} + \text{JKEUBZZ} \\ \text{DKEIBUS} &= \Sigma \text{DKEIBZZ} \end{aligned}$
DKEIP	Distillate fuel oil and kerosene-type jet fuel consumed by the electric power sector.	Thousand barrels	$\begin{aligned} \text{DKEIPZZ} &\text{ is independent.} \\ \text{DKEIPUS} &= \Sigma \text{DKEIPZZ} \end{aligned}$
ELEXB	Electricity exported from the United States.	Billion Btu	$\begin{aligned} \text{ELEXBZZ} &= \text{ELEXPZZ} * 3.412 \\ \text{ELEXBUS} &= \Sigma \text{ELEXBZZ} \end{aligned}$
ELEXP	Electricity exported from the United States.	Million kilowatthours	$\begin{aligned} \text{ELEXPZZ} &\text{ is independent.} \\ \text{ELEXPUS} &= \Sigma \text{ELEXPZZ} \end{aligned}$
ELIMB	Electricity imported into the United States	Billion Btu	$\begin{aligned} \text{ELIMBZZ} &= \text{ELIMPZZ} * 3.412 \\ \text{ELIMBUS} &= \Sigma \text{ELIMBZZ} \end{aligned}$
ELIMP	Electricity imported into the United States	Million kilowatthours	$\begin{aligned} \text{ELIMPZZ} &\text{ is independent.} \\ \text{ELIMPUS} &= \Sigma \text{ELIMPZZ} \end{aligned}$



ELISB	Net interstate flow of electricity. (Negative indicates flow out of State; positive indicates flow into State.)	Billion Btu	<p>Before 1990:  <math>ELISBZZ = (ESTCBZZ + LOTCBZZ) - TEEIBZZ</math>  <math>ELISBUS = 0</math></p> <p>From 1990 forward:            If <math>ELISPZZ &lt; 0</math>, <math>ELISBZZ = -(TEEIBZZ * (-ELISPZZ / (-ELISPZZ + ESTCPZZ)))</math>            If <math>ELISPZZ \geq 0</math>, <math>ELISBZZ = ELISPZZ * (\text{average heat content of energy for all outflow electricity})</math>  <math>ELISBUS = 0</math></p>
ELISP	Net interstate flow of electricity. (Negative indicates flow out of State; positive indicates flow into State.)	Million kilowatthours	<p><math>ELISPZZ</math> is independent.  <math>ELISPUS = 0</math></p>
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	<p><math>ELNIBZZ = ELIMBZZ - ELEXBZZ</math>  <math>ELNIBUS = \Sigma ELNIBZZ</math></p>
ELNIP	Net imports of electricity into the United States.	Million kilowatthours	<p><math>ELNIPZZ = ELIMPZZ - ELEXPZZ</math>  <math>ELNIPUS = \Sigma ELNIPZZ</math></p>
EMACB	Fuel ethanol excluding denaturant consumed by the transportation sector.	Billion Btu	<p><math>EMACBZZ = (MGACPZZ / MGTCPPZZ) * EMTCBZZ</math>  <math>EMACBUS = \Sigma EMACBZZ</math></p>
EMCCB	Fuel ethanol excluding denaturant consumed by the commercial sector.	Billion Btu	<p><math>EMCCBZZ = (MGCCPZZ / MGTCPPZZ) * EMTCBZZ</math>  <math>EMCCBUS = \Sigma EMCCBZZ</math></p>
EMICB	Fuel ethanol excluding denaturant consumed by the industrial sector.	Billion Btu	<p><math>EMICBZZ = (MGICPZZ * MGTCPPZZ) * EMTCBZZ</math>  <math>EMICBUS = \Sigma EMICBZZ</math></p>
EMLCB	Energy losses and co-products from the production of fuel ethanol.	Billion Btu	<p><math>EMLCBZZ = (EMPRBZZ / EMPRBUS) * EMLCBUS</math>  <math>EMLCBUS</math> is independent</p>
EMPRB	Fuel ethanol production excluding denaturant.	Billion Btu	<p><math>EMPRBZZ</math> is independent.  <math>EMPRBUS = \Sigma EMPRBZZ</math></p>
EMTCB	Fuel ethanol excluding denaturant total consumed.	Billion Btu	<p><math>EMTCBZZ = (EMTCBUS / ENTCBUS) * ENTCBZZ</math>  <math>EMTCBUS</math> is independent.</p>
ENACB	Fuel ethanol including denaturant consumed by the transportation sector.	Billion Btu	<p><math>ENACBZZ = (MGACPZZ / MGTCPPZZ) * ENTCBZZ</math>  <math>ENACBUS = \Sigma ENACBZZ</math></p>

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ENACP	Fuel ethanol including denaturant consumed by the transportation sector.	Thousand barrels	$ENACPZZ = (MGACPZZ / MGTCPZZ) * ENTCPZZ$ $ENACPUS = \Sigma ENACPZZ$
ENCCB	Fuel ethanol including denaturant consumed by the commercial sector.	Billion Btu	$ENCCBZZ = (MGCCPZZ / MGTCPZZ) * ENTCBZZ$ $ENCCBUS = \Sigma ENCCBZZ$
ENCCP	Fuel ethanol including denaturant consumed by the commercial sector.	Thousand barrels	$ENCCPZZ = (MGCCPZZ / MGTCPZZ) * ENTCPZZ$ $ENCCPUS = \Sigma ENCCPZZ$
ENICB	Fuel ethanol including denaturant consumed by the industrial sector.	Billion Btu	$ENICBZZ = (MGICPZZ / MGTCPZZ) * ENTCBZZ$ $ENICBUS = \Sigma ENICBZZ$
ENICP	Fuel ethanol including denaturant consumed by the industrial sector.	Thousand barrels	$ENICPZZ = (MGICPZZ / MGTCPZZ) * ENTCPZZ$ $ENICPUS = \Sigma ENICPZZ$
ENTCB	Fuel ethanol including denaturant total consumed.	Billion Btu	$ENTCBZZ = ENTCPZZ * ENTCKUS$ 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. $ENTRPUS = \Sigma ENTRPZZ$
ESACB	Electricity consumed by (i.e., sold to) the transportation sector.	Billion Btu	$ESACBZZ = ESACPZZ * 3.412$ $ESACBUS = \Sigma ESACBZZ$
ESACP	Electricity consumed by (i.e., sold to) the transportation sector.	Million kilowatthours	$ESACPZZ = ESTRPZZ$ $ESACPUS = \Sigma ESACPZZ$
ESCCB	Electricity consumed by (i.e., sold to) the commercial sector.	Billion Btu	$ESCCBZZ = ESCCPZZ * 3.412$ $ESCCBUS = \Sigma ESCCBZZ$
ESCCP	Electricity consumed by (i.e., sold to) the commercial sector.	Million kilowatthours	$ESCCPZZ = ESCMPZZ + ESOTPZZ - ESACPZZ$ $ESCCPUS = \Sigma ESCCPZZ$
ESCMP	Electricity sold to a portion of the commercial sector.	Million kilowatthours	ESCMPZZ is independent. $ESCMPUS = \Sigma ESCMPZZ$
ESICB	Electricity consumed by (i.e., sold to) the industrial sector.	Billion Btu	$ESICBZZ = ESICPZZ * 3.412$ $ESICBUS = \Sigma ESICBZZ$
ESICP	Electricity consumed by (i.e., sold to) the industrial sector.	Million kilowatthours	ESICPZZ is independent. $ESICPUS = \Sigma ESICPZZ$

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).	Million kilowatthours	ESOTPZZ is independent. ESOTPUS = $\Sigma$ ESOTPZZ
ESRCB	Electricity consumed by (i.e., sold to) the residential sector.	Billion Btu	ESRCBZZ = ESRCPZZ * 3.412 ESRCBUS = $\Sigma$ ESRCBZZ
ESRCP	Electricity consumed by (i.e., sold to) the residential sector.	Million kilowatthours	ESRCPZZ is independent. ESRCPUS = $\Sigma$ ESRCPZZ
ESTCB	Electricity total consumed (i.e., sold).	Billion Btu	ESTCBZZ = ESTCPZZ * 3.412 ESTCBUS = $\Sigma$ ESTCBZZ ESTCB48 = ESTCBUS – (ESTCBAK + ESTCBHI)
ESTCP	Electricity total consumed (i.e., sold).	Million kilowatthours	ESTCPZZ = ESRCPZZ + ESCCPZZ + ESICPZZ + ESACPZZ ESTCPUS = $\Sigma$ ESTCPZZ
ESTRP	Electricity consumed by transit systems.	Million kilowatthours	ESTRPZZ is independent. ESTRPUS = $\Sigma$ ESTRPZZ
ESTRSUS	The share of electricity sold to the “Other” sector (ESOTP) that is used for transportation.	Fraction	ESTRSUS = ESACPUS / ESOTPUS
ESTXB	Electricity total end-use consumption (i.e., sold).	Billion Btu	ESTXBZZ = ESACBZZ + ESCCBZZ + ESICBZZ + ESRCBZZ ESTXBUS = $\Sigma$ ESTXBZZ
ESTXP	Electricity total end-use consumption (i.e., sold).	Thousand barrels	ESTXPZZ = ESACPZZ + ESCCPZZ + ESICPZZ + ESRCPZZ ESTXPUS = $\Sigma$ ESTXPZZ
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 + NNTCBZZ + PMTCBUS
FNCAS	State share of 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 share of 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
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.	Billion Btu	FSICBZZ = FSTCBZZ FSICBUS = FSTCBUS
FSICP	Petrochemical feedstocks, still gas, consumed by the industrial sector.	Thousand barrels	FSICPZZ = FSTCPZZ FSICPUS = FSTCPUS
FSTCB	Petrochemical feedstocks, still gas, total consumed.	Billion Btu	FSTCBZZ = FSTCPZZ * 6.000 FSTCBUS = ΣFSTCBZZ
FSTCP	Petrochemical feedstocks, still gas, total consumed.	Thousand barrels	FSTCPZZ = (COCAPZZ / COCAPUS) * FSTCPUS FSTCPUS is independent.
GDPRX	Real gross domestic product.	Million chained (2005) dollars	GDPRXZZ is independent. GDPRXUS is independent.
GECCB	Direct use of geothermal energy and heat pumps in the commercial sector.	Billion Btu	GECCBZZ is independent. GECCBUS = ΣGECCBZZ
GEEGB	Electricity produced from geothermal energy by the electric power sector.	Billion Btu	GEEGBZZ = GEEGPZZ * FFETKUS GEEGBUS = ΣGEEGBZZ

GEEGP	Electricity produced from geothermal energy by the electric power sector.	Million kilowatthours	GEEGPZZ is independent. GEEGPUS = $\Sigma$ GEEGPZZ
GEICB	Direct use of geothermal energy and heat pumps in the industrial sector.	Billion Btu	GEICBZZ is independent. GEICBUS = $\Sigma$ GEICBZZ
GERCB	Direct use of geothermal energy and heat pumps in the residential sector.	Billion Btu	GERCBZZ is independent. GERCBUS = $\Sigma$ GERCBZZ
GETCB	Geothermal total energy consumed.	Billion Btu	GETCBZZ = GERCBZZ + GECCBZZ + GEICBZZ + GEEGBZZ GETCBUS = $\Sigma$ GETCBZZ
GETXB	Geothermal total end-use consumption.	Billion Btu	GETXBZZ = GECCBZZ + GEICBZZ + GERCBZZ GETXBUS = $\Sigma$ GETXBZZ
GETXV	Geothermal total end-use expenditures.		GETXVZZ = GECCVZZ + GEICVZZ + GERCVZZ GETXVUS = $\Sigma$ GETXVZZ
HVC5P	Electricity produced from conventional hydropower in the commercial sector.	Million kilowatthours	HVC5PZZ is independent. HVC5PUS = $\Sigma$ HVC5PZZ
HVEGB	Electricity produced from conventional hydropower by the electric power sector.	Billion Btu	HVEGBZZ = HVEGPZZ * FFETKUS HVEGBUS = $\Sigma$ HVEGBZZ
HVEGP	Electricity produced from conventional hydropower by the electric power sector.	Million kilowatthours	HVEGPZZ is independent. HVEGPUS = $\Sigma$ HVEGPZZ
HVI5P	Electricity produced from conventional hydropower in the commercial sector.	Million kilowatthours	HVI5PZZ is independent. HVI5PUS = $\Sigma$ HVI5PZZ
HYCCB	Electricity produced from conventional hydropower in the commercial sector.	Billion Btu	HYCCBZZ = HYCCPZZ * FFETKUS HYCCBUS = $\Sigma$ HYCCBZZ
HYCCP	Electricity produced from conventional hydropower in the commercial sector.	Million kilowatthours	HYCCPZZ = HVC5PZZ HYCCPUS = $\Sigma$ HYCCPZZ
HYEGB	Electricity produced from all types of hydropower by the electric power sector.	Billion Btu	HYEGBZZ = HYEGPZZ * FFETKUS HYEGBUS = $\Sigma$ HYEGBZZ
HYEGP	Electricity produced from all types of hydropower by the electric power sector.	Million kilowatthours	HYEGPZZ = HVEGPZZ HYEGPUS = $\Sigma$ HYEGPZZ
HYICB	Electricity produced from conventional hydropower in the industrial sector.	Billion Btu	HYICBZZ = HYICPZZ * FFETKUS HYICBUS = $\Sigma$ HYICBZZ

**A  
P  
P  
E  
N  
D  
I  
X**

**A**

HYICP	Electricity produced from conventional hydropower in the industrial sector.	Million kilowatthours	HYICPZZ = HVI5PZZ HYICPUS = ΣHYICPZZ
HYTCB	Electricity produced from hydropower; total production.	Billion Btu	HYTCBZZ = HYCCBZZ + HYEGBZZ + HYICBZZ HYTCBUS = ΣHYTCBZZ
HYTCP	Electricity produced from hydropower; total production.	Million kilowatthours	HYTCPZZ = HYCCPZZ + HYEGPZZ + HYICPZZ HYTCPUS = ΣHYTCPZZ
HYTXB	Hydroelectricity produced by the end-use sectors.	Billion Btu	HYTXBZZ = HYCCBZZ + HYICBZZ HYTXBUS = ΣHYTXBZZ
HYTXP	Hydroelectricity produced by the end-use sectors.	Million kilowatthours	HYTXPZZ = HYCCPZZ + HYICPZZ HYTXPUS = ΣHYTXPZZ
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 electric power sector.	Billion Btu	JFEUBZZ = JKEUBZZ JFEUBUS = JKEUBUS
JFEUP	Jet fuel consumed by electric power sector.	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 / JKTPUS) * JKACPUS JKACPUS = JKTCPUS - JKEUPUS

JKEUB	Kerosene-type jet fuel consumed by electric power sector.	Billion Btu	JKEUBZZ = JKEUPZZ * 5.670 JKEUBUS = ΣJKEUBZZ
JKEUP	Kerosene-type jet fuel consumed by electric power sector.	Thousand barrels	JKEUPZZ is independent. JKEUPUS = ΣJKEUPZZ
JKTCB	Kerosene-type jet fuel total consumed.	Billion Btu	JKTCBZZ = JKTCPZZ * 5.670 JKTCBUS = ΣJKTCBZZ
JKTCP	Kerosene-type jet fuel total consumed.	Thousand barrels	JKTCPZZ = JKACPZZ + JKEUPZZ JKTCPUS is independent.
JKTTP	Kerosene-type jet fuel total sold.	Thousand gallons	JKTTPZZ is independent. JKTTPUS = ΣJKTTPZZ
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 = ΣJNMIPZZ
JNTCB	Naphtha-type jet fuel total consumed.	Billion Btu	JNTCBZZ = JNTCPZZ * 5.355 JNTCBUS = ΣJNTCBZZ
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 = ΣKSCCBZZ
KSCCP	Kerosene consumed by the commercial sector.	Thousand barrels	KSCCPZZ = (KSCMPZZ / KSTTPZZ) * KSTCPZZ KSCCPUS = ΣKSCCPZZ
KSCMP	Kerosene sold to the commercial sector.	Thousand barrels	KSCMPZZ is independent. KSCMPUS = ΣKSCMPZZ
KSICB	Kerosene consumed by the industrial sector.	Billion Btu	KSICBZZ = KSICPZZ * 5.670 KSICBUS = ΣKSICBZZ
KSICP	Kerosene consumed by the industrial sector.	Thousand barrels	KSICPZZ = (KSINPZZ / KSTTPZZ) * KSTCPZZ KSICPUS = ΣKSICPZZ

**A  
P  
P  
E  
N  
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KSHP	Kerosene sold for industrial heating.	Thousand barrels	KSHPZZ is independent. KSHPUS = $\Sigma$ KSHPZZ
KSINP	Kerosene sold to the industrial sector.	Thousand barrels	KSINPZZ = KSOTPZZ + KSHPZZ KSINPUS = $\Sigma$ KSINPZZ
KSOTP	Kerosene sold for all other uses, including farm use.	Thousand barrels	KSOTPZZ is independent. KSOTBUS = $\Sigma$ KSOTPZZ
KSRCB	Kerosene consumed by the residential sector.	Billion Btu	KSRCBZZ = KSRCPZZ * 5.670 KSRCBUS = $\Sigma$ KSRCBZZ
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.	Billion Btu	LGACBZZ = LGACPZZ * 3.836 LGACBUS = $\Sigma$ LGACBZZ
LGACP	LPG consumed by the transportation sector.	Thousand barrels	LGACPZZ = LGCBPZZ * LGTRSUS LGACPUS = $\Sigma$ LGACPZZ
LGCBM	LPG sales for internal combustion engine use.	Thousand gallons	LGCBMZZ is independent. LGCBMUS = $\Sigma$ LGCBMZZ
LGCBP	LPG consumed for internal combustion engine use.	Thousand barrels	LGCBPZZ = LGCBMZZ / 42 LGCBPUS = $\Sigma$ LGCBPZZ



LGCCB	LPG consumed by the commercial sector.	Billion Btu	LGCCBZZ = LGCCPZZ * 3.836 LGCCBUS = ΣLGCCBZZ
LGCCP	LPG consumed by the commercial sector.	Thousand barrels	LGCCPZZ = LGHCPZZ * LGCCSZZ LGCCPUS = ΣLGCCPZZ
LGCCS	The share of residential and commercial LPG consumed by the commercial sector.	Percent	LGCCSZZ is independent.
LGHCM	LPG sold for residential and commercial use.	Thousand gallons	LGHCMZZ is independent. LGHCMUS = ΣLGHCMZZ
LGHCP	LPG consumed by the residential and commercial sectors.	Thousand barrels	LGHCPZZ = LGHCMZZ / 42 LGHCPUS = ΣLGHCPZZ
LGICB	LPG consumed by the industrial sector.	Billion Btu	LGICBZZ = (LGICPZZ / LGICPUS) * LOICBUS LGICBUS = LGTCBUS - (LGRCBUS + LGCCBUS + LGACBUS)
LGICK	Average conversion factor for industrial consumption of LPG.	Million Btu per barrel	LGICKUS = LCICBUS / LGICPUS
LGICP	LPG consumed by the industrial sector.	Thousand barrels	LGICPZZ = LGTCPZZ - (LGRCPZZ + LGCCPZZ + LGACPZZ) LGICPUS = ΣLGICPZZ
LGRCB	LPG consumed by the residential sector.	Billion Btu	LGRCBZZ = LGRCPZZ * 3.836 LGRCBUS = ΣLGRCBZZ
LGRCP	LPG consumed by the residential sector.	Thousand barrels	LGRCPZZ = LGHCPZZ * LGRCSZZ LGRCPUS = ΣLGRCPZZ
LGRCS	The share of residential and commercial LPG consumed by the residential sector.	Percent	LGRCSZZ is independent.
LGTCB	LPG total consumed.	Billion Btu	LGTCBZZ = LGRCBZZ + LGCCBZZ + LGICBZZ + LGACBZZ LGTCBUS = ΣLGTCBZZ
LGTCKUS	Factor for converting LPG from physical units to Btu.	Million Btu per barrel	LGTCKUS is independent.
LGTCP	LPG total consumed.	Thousand barrels	LGTCPZZ = (LGTTPZZ / LGTTPUS) * LGTCPUS LGTCPUS is independent.

LGTRSUS	The transportation sector's share of LPG internal combustion engine sales.	Fraction	LGTRSUS is independent.
LGTTTP	LPG total sold.	Thousand gallons	LGTTTPZZ is independent. LGTTTPUS = $\Sigma$ LGTTTPZZ
LGTXB	LPG total end-use consumption.	Billion Btu	LGTXBZZ = LGACBZZ + LGCCBZZ + LGICBZZ + LGRCBZZ LGTXBUS = $\Sigma$ LGTXBZZ
LGTXP	LPG total end-use consumption.	Thousand barrels	LGTXPZZ = LGACPZZ + LGCCPZZ + LGICPZZ + LGRCPZZ LGTXPUS = $\Sigma$ LGTXPZZ
LOACB	The transportation sector's share of electrical system energy losses.	Billion Btu	LOACBZZ = (ESACBZZ / ESTCBZZ) * LOTCBZZ LOACBUS = $\Sigma$ LOACBZZ
LOCCB	The commercial sector's share of electrical system energy losses.	Billion Btu	LOCCBZZ = (ESCCBZZ / ESTCBZZ) * LOTCBZZ LOCCBUS = $\Sigma$ LOCCBZZ
LOICB	The industrial sector's share of electrical system energy losses.	Billion Btu	LOICBZZ = (ESICBZZ / ESTCBZZ) * LOTCBZZ LOICBUS = $\Sigma$ LOICBZZ
LORCB	The residential sector's share of electrical system energy losses.	Billion Btu	LORCBZZ = (ESRCBZZ / ESTCBZZ) * LOTCBZZ LORCBUS = $\Sigma$ LORCBZZ
LOTCB	Total electrical system energy losses.	Billion Btu	Before 1990: LOTCBZZ = ESTCBZZ * ELLSS48 Exceptions: LOTGBAK = TEEIBAK - ESTGBAK LOTGBHI = TEEIBHI - ESTGBHI LOTGBUS = TEEIBUS - ESTGBUS LOTGB48 = LOTGBUS - (LOTGBAK + LOTGBHI) From 1990 forward: LOTCBZZ = TEESBZZ - ESTCBZZ LOTCBUS = TEEIBUS - ESTCBUS
LOTXB	Total electrical system energy losses allocated to the end-use sectors.	Billion Btu	LOTXBZZ = LOACBZZ + LOCCBZZ + LOICBZZ + LORCBZZ LOTXBUS = $\Sigma$ LOTXBZZ
LUACB	Lubricants consumed by the transportation sector.	Billion Btu	LUACBZZ = LUACPZZ * 6.065 LUACBUS = $\Sigma$ LUACBZZ
LUACP	Lubricants consumed by the transportation sector.	Thousand barrels	LUACPZZ = (LUTRPZZ / LUTTPZZ) * LUTCPZZ LUACPUS = $\Sigma$ LUACPZZ

LUICB	Lubricants consumed by the industrial sector.	Billion Btu	$LUICBZZ = LUICPZZ * 6.065$ $LUICBUS = \Sigma LUICBZZ$
LUICP	Lubricants consumed by the industrial sector.	Thousand barrels	$LUICPZZ = (LUINPZZ / LUTTPZZ) * LUTCPZZ$ $LUICPUS = \Sigma LUICPZZ$
LUINP	Lubricants sold to the industrial sector.	Thousand barrels	LUINPZZ is independent. $LUINPUS = \Sigma LUINPZZ$
LUTCB	Lubricants total consumed.	Billion Btu	$LUTCBZZ = LUICBZZ + LUACBZZ$ $LUTCBUS = \Sigma LUTCBZZ$
LUTCP	Lubricants total consumed.	Thousand barrels	$LUTCPZZ = (LUTTPZZ / LUTTPUS) * LUTCPUS$ LUTCPUS is independent.
LUTRP	Lubricants sold to the transportation sector.	Thousand barrels	LUTRPZZ is independent. $LUTRPUS = \Sigma LUTRPZZ$
LUTTP	Lubricants total sold.	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	$MBTCBZZ = MBTCPZZ * 5.253$ $MBTCBUS = \Sigma MBTCBZZ$
MBTCP	Motor gasoline blending components total consumed.	Thousand barrels	$MBTCPZZ = (COCAPZZ / COCAPUS) * MBTCPUS$ MBTCPUS is independent.
MGACB	Motor gasoline consumed by the transportation sector.	Billion Btu	$MGACBZZ = MGACPZZ * MGTCKUS$ $MGACBUS = \Sigma MGACBZZ$
MGACP	Motor gasoline consumed by the transportation sector.	Thousand barrels	$MGACPZZ = (MGTRPZZ / MGTTPZZ) * MGTCPZZ$ $MGACPUS = \Sigma MGACPZZ$

MGAGP	Motor gasoline sold for agricultural use.	Thousand gallons	MGAGPZZ is independent. MGAGPUS = $\Sigma$ MGAGPZZ
MGCCB	Motor gasoline consumed by the commercial sector.	Billion Btu	MGCCBZZ = MGCCPZZ * MGTCKUS MGCCBUS = $\Sigma$ MGCCBZZ
MGCCP	Motor gasoline consumed by the commercial sector.	Thousand barrels	MGCCPZZ = (MGCMPZZ / MGTTPZZ) * MGTCPZZ MGCCPUS = $\Sigma$ MGCCPZZ
MGCMP	Motor gasoline sold to the commercial sector.	Thousand gallons	MGCMPZZ = MGMSPZZ + MGPNPZZ MGCMPUS = $\Sigma$ MGCMPZZ
MGCUP	Motor gasoline sold for construction use.	Thousand gallons	MGCUPZZ is independent. MGCUPUS = $\Sigma$ MGCUPZZ
MGICB	Motor gasoline consumed by the industrial sector.	Billion Btu	MGICBZZ = MGICPZZ * MGTCKUS MGICBUS = $\Sigma$ MGICBZZ
MGICP	Motor gasoline consumed by the industrial sector.	Thousand barrels	MGICPZZ = (MGINPZZ / MGTTPZZ) * MGTCPZZ MGICPUS = $\Sigma$ MGICPZZ
MGINP	Motor gasoline sold to the industrial sector.	Thousand gallons	MGINPZZ = MGAGPZZ + MGCUPZZ + MGIYPZZ MGINPUS = $\Sigma$ MGINPZZ
MGIYP	Motor gasoline sold for industrial and commercial use (Federal Highway Administration terminology).	Thousand gallons	MGIYPZZ is independent. MGIYPUS = $\Sigma$ MGIYPZZ
MGMFP	Motor gasoline sold for highway use.	Thousand gallons	MGMFPZZ is independent. MGMFPUS = $\Sigma$ MGMFPZZ
MGMRP	Motor gasoline sold for marine use.	Thousand gallons	MGMRPZZ is independent. MGMRPUS = $\Sigma$ MGMRPZZ
MGMSP	Motor gasoline sold for miscellaneous and unclassified uses.	Thousand gallons	MGMSPZZ is independent. MGMSPUS = $\Sigma$ MGMSPZZ
MGPNP	Motor gasoline sold for public nonhighway use.	Thousand gallons	MGPNPZZ is independent. MGPNPUS = $\Sigma$ MGPNPZZ
MGSFP	Motor gasoline special fuels sold (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	$MGTCPZZ = (MGTTPZZ / MGTTPUS) * MGTCPU$ 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	$MGTRPZZ = MGMFPZZ + MGMRPZZ - MGSFPZZ$ $MGTRPUS = \Sigma MGTRPZZ$
MGTTP	Motor gasoline total sold.	Thousand gallons	$MGTTPZZ = MGCMPZZ + MGINPZZ + MGTRPZZ$ $MGTTPUS = \Sigma MGTTPZZ$
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	$MMTCBZZ = MGTCBZZ - ENT$ $MMTCBUS = MGTCBUS - ENT$
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.
NAICB	Natural gasoline consumed by the industrial sector.	Billion Btu	$NAICBZZ = NATCBZZ$ $NAICBUS = NATCBUS$
NAICP	Natural gasoline consumed by the industrial sector.	Thousand barrels	$NAICPZZ = NATCPZZ$ $NAICPUS = NATCPUS$
NATCB	Natural gasoline total consumed.	Billion Btu	$NATCBZZ = NATCPZZ * 4.620$ $NATCBUS = \Sigma NATCBZZ$
NATCP	Natural gasoline total consumed.	Thousand barrels	$NATCPZZ = NATCPUS * FNCASZZ$ NATCPUS is independent.

**A  
P  
P  
E  
N  
D  
I  
X  
A**

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	NGEIBZZ = NGEIPZZ * NGEIKZZ NGEIBUS = ΣNGEIBZZ
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 + NGLEPZZ + NGPLPZZ NGICPUS = ΣNGICPZZ
NGINP	A portion of the natural gas delivered to the industrial sector.	Million cubic feet	NGINPZZ is independent. NGINPUS = ΣNGINPZZ
NGLEP	Natural gas consumed as lease fuel.	Million cubic feet	NGLEPZZ is independent. NGLEPUS = ΣNGLEPZZ
NGLPB	Natural gas consumed as lease and plant fuel.	Billion Btu	NGLPBZZ = NGLPPZZ * NGTXKZZ NGLPBUS = ΣNGLPBZZ
NGLPP	Natural gas consumed as lease and plant fuel.	Million cubic feet	NGLPPZZ = NGLEPZZ + NGPLPZZ NGLPPUS = ΣNGLPPZZ
NGPLP	Natural gas consumed as plant fuel.	Million cubic feet	NGPLPZZ is independent. NGPLPUS = ΣNGPLPZZ
NGPZB	Natural gas consumed as pipeline fuel.	Billion Btu	NGPZBZZ = NGPZPZZ * NGTXKZZ NGPZBUS = ΣNGPZBZZ

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 = NGRCPZZ * 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)
NGTXP	Natural gas total end-use consumption (including supplemental gaseous fuels).	Million cubic feet	NGTXPZZ = NGACPZZ + NGCCPZZ + NGICPZZ + NGRCPZZ NGTXPUS = $\Sigma$ NGTXPZZ
NGTZP	Natural gas consumed in sectors that have supplemental gaseous fuels commingled with natural gas.	Million cubic feet	NGTZPZZ = NGCCPZZ + NGRCPZZ + NGINPZZ + NGEIPZZ NGTZPUS = $\Sigma$ NGTZPZZ
NGVHB	Natural gas consumed as vehicle fuel.	Billion Btu	NGVHBZZ = NGVHPZZ * NGTXKZZ NGVHBUS = $\Sigma$ NGVHBZZ
NGVHP	Natural gas consumed as vehicle fuel.	Million cubic feet	NGVHPZZ is independent. NGVHPUS = $\Sigma$ NGVHPZZ

**A  
P  
P  
E  
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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	Electricity produced from nuclear power in the electric power sector.	Billion Btu	NUEGBZZ = NUEGPZZ * NUETKUS NUEGBUS = ΣNUEGBZZ
NUEGP	Electricity produced from nuclear power in the electric power sector.	Million kilowatthours	NUEGPZZ is independent. NUEGPUS = ΣNUEGPZZ
NUETB	Electricity total produced from nuclear power.	Billion Btu	NUETBZZ = NUEGBZZ NUETBUS = ΣNUETBZZ
NUETKUS	Factor for converting electricity produced from nuclear power from physical units to Btu.	Thousand Btu per kilowatthour	NUETKUS is independent.
NUETP	Electricity total produced from nuclear power.	Million kilowatthours	NUETPZZ = NUEGPZZ NUETPUS = ΣNUETPZZ
OCVAV	Value of shipments or value added in manufacture of industrial organic chemicals.	Million dollars	OCVAVZZ is independent. OCVAVUS = ΣOCVAVZZ
PIICB	Asphalt and road oil, kerosene, lubricants, and "other petroleum products" consumed by the industrial sector.	Billion Btu	P1ICBZZ = ARICBZZ + KSICBZZ + LUICBZZ + POICBZZ P1ICBUS = ΣP1ICBZZ
P1ICP	Asphalt and road oil, kerosene, lubricants, and "other petroleum products" consumed by the industrial sector.	Thousand barrels	P1ICPZZ = ARICPZZ + KSICPZZ + LUICPZZ + POICPZZ P1ICPUS = ΣP1ICPZZ



PITCB	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total consumed.	Billion Btu	$P1TCBZZ = ARTCBZZ + AVTCBZZ + KSTCBZZ + LUTCBZZ + POTCBZZ$ $P1TCBUS = \Sigma P1TCBZZ$
PITCP	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total consumed.	Thousand barrels	$P1TCPZZ = ARTCPZZ + AVTCPZZ + KSTCPZZ + LUTCPZZ + POTCPZZ$ $P1TCPUS = \Sigma P1TCPZZ$
PITXB	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total end-use consumption.	Billion Btu	$P1TXBZZ = ARTXBZZ + AVTXBZZ + KSTXBZZ + LUTXBZZ + POTXBZZ$ $P1TXBUS = \Sigma P1TXBZZ$
PITXP	Asphalt and road oil, aviation gasoline, kerosene, lubricants, and "other petroleum products" total end-use consumption.	Thousand barrels	$P1TXPZZ = ARTXPZZ + AVTXPZZ + KSTXPZZ + LUTXPZZ + POTXPZZ$ $P1TXPUS = \Sigma P1TXPZZ$
PAACB	All petroleum products consumed by the transportation sector.	Billion Btu	$PAACBZZ = AVACBZZ + DFACBZZ + JKACBZZ + JNACBZZ + LGACBZZ + LUACBZZ + MGACBZZ + RFACBZZ$ $PAACBUS = \Sigma PAACBZZ$
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	$PAACPZZ = AVACPZZ + DFACPZZ + JKACPZZ + JNACPZZ + LGACPZZ + LUACPZZ + MGACPZZ + RFACPZZ$ $PAACPUS = \Sigma PAACPZZ$
PACCB	All petroleum products consumed by the commercial sector.	Billion Btu	$PACCBZZ = DFCCBZZ + KSCCBZZ + LGCCBZZ + MGCCBZZ + PCCCBZZ + RFCCBZZ$ $PACCBUS = \Sigma PACCBZZ$
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	$PACCPZZ = DFCCPZZ + KSCCPZZ + LGCCPZZ + MGCCPZZ + PCCCPZZ + RFCCPZZ$ $PACCPUS = \Sigma PACCPZZ$
PAEIB	All petroleum products consumed by the electric power sector.	Billion Btu	$PAEIBZZ = DFEIBZZ + JKEUBZZ + PCEIBZZ + RFEIBZZ$ $PAEIBUS = \Sigma PAEIBZZ$

APPENDIX A

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 = ΣPAEIPZZ
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 + KSICBZZ + LGICBZZ + LUICBZZ + MGICBZZ + RFICBZZ + POICBZZ PAICBUS = ΣPAICBZZ
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 + KSICPZZ + LGICPZZ + LUICPZZ + MGICPZZ + RFICPZZ + POICPZZ PAICPUS = ΣPAICPZZ
PARCB	All petroleum products consumed by the residential sector.	Billion Btu	PARCBZZ = DFRCBZZ + KSRCBZZ + LGRCBZZ PARCBUS = ΣPARCBZZ
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 + KSRCPZZ + LGRCPZZ PARCPUS = ΣPARCPZZ
PATCB	All petroleum products consumed by all sectors.	Billion Btu	PATCBZZ = ARTCBZZ + AVTCBZZ + DFTCBZZ + JKTCBZZ + JNTCBZZ + KSTCBZZ + LGTCBZZ + LUTCBZZ + MGTCBZZ + RFTCBZZ + POTCBZZ PATCBUS = ΣPATCBZZ

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	$PATCPZZ = ARTCPZZ + AVTCPZZ + DFTCPZZ + JKTCPZZ + JNTCPZZ + KSTCPZZ + LGTCPZZ + LUTCPZZ + MGTCPZZ + RFTCPZZ + POTCPZZ$ $PATCPUS = \Sigma PATCPZZ$
PATXB	All petroleum products total end-use consumption.	Billion Btu	$PATXBZZ = ARTXBZZ + AVTXBZZ + KSTXBZZ + LUTXBZZ + POTXBZZ + DFTXBZZ + JFTXBZZ + LGTXBZZ + MGTXBZZ + RFTXBZZ$ $PATXBUS = \Sigma PATXBZZ$
PATXP	All petroleum products total end-use consumption.	Thousand barrels	$PATXPZZ = ARTXPZZ + AVTXPZZ + KSTXPZZ + LUTXPZZ + POTXPZZ + DFTXPZZ + JFTXPZZ + LGTXPZZ + MGTXPZZ + RFTXPZZ$ $PATXPUS = \Sigma PATXPZZ$
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	$PCCCBZZ = PCCCPZZ * 6.024$ $PCCCBUS = \Sigma PCCCBZZ$
PCCCP	Petroleum coke consumed for combined heat and power in the commercial sector.	Thousand barrels	$PCCCPZZ = PCC3MZZ * 5$ $PCCCPUS = \Sigma PCCCPZZ$
PCEIB	Petroleum coke consumed by the electric power sector.	Billion Btu	$PCEIBZZ = PCEIPZZ * 6.024$ $PCEIBUS = \Sigma PCEIBZZ$
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	$PCI3BZZ = PCI3PZZ * 6.024$ $PCI3BUS = \Sigma PCI3BZZ$
PCI3M	Petroleum coke consumed for combined heat and power in the industrial sector.	Thousand tons	$PCI3MZZ$ is independent. $PCI3MUS = \Sigma PCI3MZZ$

APPENDIX A

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	$PCICBZZ = PCICPZZ * 6.024$ $PCICBUS = \Sigma PCICBZZ$
PCICP	Petroleum coke consumed in the industrial sector.	Thousand barrels	$PCICPZZ = PCI3PZZ + PCRFPZZ + PCOCPZZ$ $PCICPUS = PCTCPUS - PCEIPUS - PCCCPUS$
PCOCB	Petroleum coke consumed in the industrial sector other than for refinery use and combined heat and power.	Billion Btu	$PCOCBZZ = PCOCPZZ * 6.024$ $PCOCBUS = \Sigma PCOCBZZ$
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 as both catalytic and marketable coke.	Billion Btu	$PCRFBZZ = PCRFPZZ * 6.024$ $PCRFBUS = \Sigma PCRFBZZ$
PCRFP	Petroleum coke used at refineries as both catalytic and marketable coke.	Thousand barrels	$PCRFPZZ = (CTCAPZZ / CTCAPGZ) * PCRFPGZ$ or $(CTCAPZZ / CTCAPPZ) * PCRFPZZ$ or is independent. $PCRFPUS$ is independent.
PCTCB	Petroleum coke total consumed.	Billion Btu	$PCTCBZZ = PCCCBZZ + PCICBZZ + PCEIBZZ$ $PCTCBUS = \Sigma PCTCBZZ$
PCTCP	Petroleum coke total consumed.	Thousand barrels	$PCTCPZZ = PCCCPZZ + PCICPZZ + PCEIPZZ$ $PCTCPUS$ is independent.
PIVAV	Value of shipments or value added in the manufacture of paints and allied products.	Million dollars	$PIVAVZZ$ is independent. $PIVAVUS = \Sigma PIVAVZZ$
PLICB	Plant condensate consumed by the industrial sector.	Billion Btu	$PLICBZZ = PLTCBZZ$ $PLICBUS = PLTCBUS$
PLICP	Plant condensate consumed by the industrial sector.	Thousand barrels	$PLICPZZ = PLTCPZZ$ $PLICPUS = PLTCPUS$
PLTCB	Plant condensate total consumed.	Billion Btu	$PLTCBZZ = PLTCPZZ * 5.418$ $PLTCBUS = \Sigma PLTCBZZ$

PLTCP	Plant condensate total consumed.	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 - ENTCBZZ PMTCBUS = PATCBUS - ENTCBUS
POICB	Other petroleum products consumed by the industrial sector.	Billion Btu	POICBZZ = ABICBZZ + COICBZZ + FNICBZZ + FOICBZZ + FSICBZZ + MBICBZZ + MSICBZZ + NAICBZZ + PCICBZZ + PLICBZZ + PPICBZZ + SGICBZZ + SNICBZZ + UOICBZZ + USICBZZ + WXICBZZ POICBUS = ΣPOICBZZ
POICP	Other petroleum products consumed by the industrial sector.	Thousand barrels	POICPZZ = ABICPZZ + COICPZZ + FNICPZZ + FOICPZZ + FSICPZZ + MBICPZZ + MSICPZZ + NAICPZZ + PCICPZZ + PLICPZZ + PPICPZZ + SGICPZZ + SNICPZZ + UOICPZZ + USICPZZ + WXICPZZ POICPUS = ΣPOICPZZ
POTCB	Other petroleum products total consumed.	Billion Btu	POTCBZZ = ABTCBZZ + COTCBZZ + FNTCBZZ + FOTCBZZ + FSTCBZZ + MBTCBZZ + MSTCBZZ + NATCBZZ + PCTCBZZ + PLTCBZZ + PPTCBZZ + SGTCBZZ + SNTCBZZ + UOTCBZZ + USTCBZZ + WXTCBZZ POTCBUS = ΣPOTCBZZ
POTCP	Other petroleum products total consumed.	Thousand barrels	POTCPZZ = ABTCPZZ + COTCPZZ + FNTCPZZ + FOTCPZZ + FSTCPZZ + MBTCPZZ + MSTCPZZ + NATCPZZ + PCTCPZZ + PLTCPZZ + PPTCPZZ + SGTCPZZ + SNTCPZZ + UOTCPZZ + USTCPZZ + WXTCPZZ POTCPUS = ΣPOTCPZZ
POTXB	Other petroleum products total end-use consumption.	Billion Btu	POTXBZZ = POICBZZ + PCCCBZZ POTXBUS = ΣPOTXBZZ
POTXP	Other petroleum products total end-use consumption.	Thousand barrels	POTXPZZ = POICPZZ + PCCCPZZ POTXPUS = ΣPOTXPZZ
PPICB	Pentanes plus consumed by the industrial sector.	Billion Btu	PPICBZZ = PPTCBZZ PPICBUS = PPTCBUS

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PPICP	Pentanes plus consumed by the industrial sector.	Thousand barrels	PPICPZZ = PPTCPZZ PPICPUS = PPTCPUS
PPTCB	Pentanes plus total consumed.	Billion Btu	PPTCBZZ = PPTCPZZ * 4.620 PPTCBUS = ΣPPTCBZZ
PPTCP	Pentanes plus total consumed.	Thousand barrels	PPTCPZZ = PPTCPUS * FNCASZZ PPTCPUS is independent.
RDICP	Road oil consumed by the industrial sector.	Thousand barrels	RDICPZZ = (RDINPZZ / RDINPUS) * RDTCPUS RDICPUS = ΣRDICPZZ
RDINP	Road oil sold to the industrial sector.	Short tons	RDINPZZ is independent. RDINPUS = ΣRDINPZZ
RDTCP	Road oil total consumed.	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 + WWCCBZZ RECCBUS = EMCCBUS + GECCBUS + HYCCBUS + WWCCBUS
REEIB	Renewable energy sources consumed by the electric power sector.	Billion Btu	REEIBZZ = HYEBBZZ + GEEGBZZ + SOEGBZZ+ WWEIBZZ + WYEBBZZ REEIBUS = HYEBBUS + GEEGBUS + SOEGBUS+ WWEIBUS + WYEBBUS
REICB	Renewable energy sources consumed by the industrial sector.	Billion Btu	REICBZZ = EMICBZZ + EMLCBZZ + GEICBZZ + HYICBZZ + WWICBZZ REICBUS = EMICBUS + EMLCBUS + GEICBUS + HYICBUS + WWICBUS
RERCB	Renewable energy sources consumed by the residential sector.	Billion Btu	RERCBZZ = WDRCBZZ + GERCBZZ + SOHCBZZ RERCBUS = WDRCBUS + GERCBUS + SOHCBUS
RETCB	Renewable energy sources total consumed.	Billion Btu	RETCBZZ = RERCBZZ + RECCBZZ + REICBZZ + REACBZZ + REEIBZZ RETCBUS = RERCBUS + RECCBUS + REICBUS + REACBUS + REEIBUS
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	$RFACPZZ = (RFTRPZZ / RFNDPZZ) * RFNCPZZ$ $RFACPUS = \Sigma RFACPZZ$
RFBKP	Residual fuel oil sold for vessel bunkering use, excluding deliveries to the Armed Forces.	Thousand barrels	RFBKPZZ is independent. $RFBKPUS = \Sigma RFBKPZZ$
RFCCB	Residual fuel oil consumed by the commercial sector.	Billion Btu	$RFCCBZZ = RFCCPZZ * 6.287$ $RFCCBUS = \Sigma RFCCBZZ$
RFCCP	Residual fuel oil consumed by the commercial sector.	Thousand barrels	$RFCCPZZ = (RFCMPZZ / RFNDPZZ) * RFNCPZZ$ $RFCCPUS = \Sigma RFCCPZZ$
RFCMP	Residual fuel oil sold to the commercial sector.	Thousand barrels	RFCMPZZ is independent. $RFCMPUS = \Sigma RFCMPZZ$
RFEIB	Residual fuel oil consumed by the electric power sector.	Billion Btu	$RFEIBZZ = RFEIPZZ * 6.287$ $RFEIBUS = \Sigma RFEIBZZ$
RFEIP	Residual fuel oil consumed by the electric power sector.	Thousand barrels	RFEIPZZ is independent. $RFEIPUS = \Sigma RFEIPZZ$
RFIBP	A portion of residual fuel oil sold for industrial use, including industrial space heating.	Thousand barrels	RFIBPZZ is independent. $RFIBPUS = \Sigma RFIBPZZ$
RFICB	Residual fuel oil consumed by the industrial sector.	Billion Btu	$RFICBZZ = RFICPZZ * 6.287$ $RFICBUS = \Sigma RFICBZZ$
RFICP	Residual fuel oil consumed by the industrial sector.	Thousand barrels	$RFICPZZ = (RFINPZZ / RFNDPZZ) * RFNCPZZ$ $RFICPUS = \Sigma RFICPZZ$
RFINP	Residual fuel oil sold to the industrial sector.	Thousand barrels	$RFINPZZ = RFIBPZZ + RFOCPZZ + RFMSPZZ$ $RFINPUS = \Sigma RFINPZZ$
RFMIP	Residual fuel oil sold to the Armed Forces, regardless of use.	Thousand barrels	RFMIPZZ is independent. $RFMIPUS = \Sigma RFMIPZZ$
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 utility sector.	Thousand barrels	$RFNCPZZ = (RFNDPZZ / RFNDPUS) * RFNCPUS$ $RFNCPUS = RFTCPUS - RFEIPUS$
RFNDP	Residual fuel oil sold to all sectors other than the electric utility 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
SFRCB	Supplemental gaseous fuels consumed by the residential sector.	Billion Btu	SFRCBZZ = SFRCPZZ * NGTXKZZ SFRCBUS = $\Sigma$ SFRCBZZ
SFRCP	Supplemental gaseous fuels consumed by the residential sector.	Million cubic feet	SFRCPZZ = NGSFPZZ * (NGRCPZZ / NGTZPZZ) SFRCPUS = $\Sigma$ SFRCPZZ



SFTCB	Supplemental gaseous fuels total consumed.	Billion Btu	$SFTCBZZ = SFCCBZZ + SFINBZZ + SFRCBZZ + SFEIBZZ$ $SFTCBUS = \Sigma SFTCBZZ$
SFTCP	Supplemental gaseous fuels total consumed.	Million cubic feet	$SFTCPZZ = SFCCPZZ + SFINPZZ + SFRCPPZZ + SFEIPZZ$ $SFTCPUS = \Sigma SFTCPZZ$
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	$SGTCBZZ = SGTCPZZ * 6.000$ $SGTCBUS = \Sigma SGTCBZZ$
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	$SNTCBZZ = SNTCPZZ * 5.248$ $SNTCBUS = \Sigma SNTCBZZ$
SNTCP	Special naphthas total consumed.	Thousand barrels	$SNTCPZZ = (PIVAVZZ / PIVAVUS) * SNTCPUS$ $SNTCPUS$ is independent.
SOEGB	Electricity produced from photovoltaic and solar thermal energy by electric power sector.	Billion Btu	$SOEGBZZ = SOEGPZZ * FFETKUS$ $SOEGBUS = \Sigma SOEGBZZ$
SOEGP	Electricity produced from photovoltaic and solar thermal energy by electric power sector.	Million kilowatthours	$SOEGPZZ$ is independent. $SOEGPUS = \Sigma SOEGPZZ$
SOHCB	Solar thermal energy consumed by the residential and commercial sectors.	Billion Btu	$SOHCBZZ = (SOTTPZZ / SOTTPUS) * SOHCBUS$ $SOHCBUS$ is independent.
SOTCB	Photovoltaic and solar thermal energy sources total consumed.	Billion Btu	$SOTCBZZ = SOHCBZZ + SOEGBZZ$ $SOTCBUS = \Sigma SOTCBZZ$
SOTTP	Shipments of solar thermal collectors.	Square feet	$SOTTPZZ$ is independent. $SOTTPUS = \Sigma SOTTPZZ$

SOTXB	Photovoltaic and solar thermal energy total end-use consumption.	Billion Btu	SOTXBZZ = SOHCBZZ 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 + HYCCBZZ + WWCCBZZ + GECCBZZ + ESCCBZZ + LOCCBZZ - SFCCBZZ TECCBUS = CLCCBUS + NGCCBUS + PACCBUS + HYCCBUS + WWCCBUS + GECCBUS + 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 + HYEGBZZ + NUEGBZZ + GEEGBZZ + WWEIBZZ + SOEGBZZ+ WYEGBZZ + ELNIBZZ - SFEIBZZ TEEIBUS = ΣTEEIBZZ
TEESB	Total energy used to generate the electricity consumed in a State.	Billion Btu	TEESBZZ = TEEIBZZ + ELISBZZ TEESBUS = TEEIBUS
TEICB	Total energy consumed by the industrial sector.	Billion Btu	TEICBZZ = CLICBZZ + NGICBZZ + PAICBZZ + HYICBZZ + WWICBZZ + GEICBZZ + ESICBZZ + LOICBZZ + EMLCBZZ - SFINBZZ TEICBUS = CLICBUS + CCNIBUS + NGICBUS + PAICBUS + HYICBUS + WWICBUS + GEICBUS + 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	$\begin{aligned} \text{TERCBZZ} &= \text{CLRCBZZ} + \text{NGRCBZZ} + \\ &\quad \text{PARCBZZ} + \text{WDRCBZZ} + \\ &\quad \text{GERCBZZ} + \text{SOHCBZZ} + \text{ESRCBZZ} + \\ &\quad \text{LORCBZZ} - \text{SFRCBZZ} \\ \text{TERCBUS} &= \text{CLRCBUS} + \text{NGRCBUS} + \\ &\quad \text{PARCBUS} + \text{WDRCBUS} + \\ &\quad \text{GERCBUS} + \text{SOHCBUS} + \text{ESRCBUS} + \\ &\quad \text{LORCBUS} - \text{SFRCBUS} \end{aligned}$
TERPB	The residential sector's energy consumption per capita.	Million Btu	$\begin{aligned} \text{TERPBZZ} &= \text{TERCBZZ} / \text{TPOPPZZ} \\ \text{TERPBUS} &= \text{TERCBUS} / \text{TPOPPUS} \end{aligned}$
TETCB	Total energy consumed.	Billion Btu	$\begin{aligned} \text{TETCBZZ} &= \text{FFTCBZZ} + \text{NUETBZZ} + \text{RETCBZZ} + \\ &\quad \text{ELNIBZZ} + \text{ELISBZZ} \\ \text{TETCBUS} &= \text{FFTCBUS} + \text{NUETBUS} + \text{RETCBUS} + \\ &\quad \text{ELNIBUS} \end{aligned}$
TETGR	Total energy consumed per dollar of real gross domestic product.	Thousand Btu per chained (2005) dollar	$\begin{aligned} \text{TETGRZZ} &= \text{TETCBZZ} / \text{GDPRXZZ} \\ \text{TETGRUS} &= \text{TETCBUS} / \text{GDPRXUS} \end{aligned}$
TETPB	Total energy consumption per capita.	Million Btu	$\begin{aligned} \text{TETPBZZ} &= \text{TETCBZZ} / \text{TPOPPZZ} \\ \text{TETPBUS} &= \text{TETCBUS} / \text{TPOPPUS} \end{aligned}$
TETXB	Total end-use energy consumption.	Billion Btu	$\begin{aligned} \text{TETXBZZ} &= \text{TEACBZZ} + \text{TECCBZZ} + \text{TEICBZZ} + \\ &\quad \text{TERCBZZ} \\ \text{TETXBUS} &= \Sigma \text{TETXBZZ} \end{aligned}$
TNACB	Total net energy consumed by the transportation sector excluding the sector's share of electrical system energy losses.	Billion Btu	$\begin{aligned} \text{TNACBZZ} &= \text{TEACBZZ} - \text{LOACBZZ} \\ \text{TNACBUS} &= \text{TEACBUS} - \text{LOACBUS} \end{aligned}$
TNCCB	Total net energy consumed by the commercial sector excluding the sector's share of electrical system energy losses.	Billion Btu	$\begin{aligned} \text{TNCCBZZ} &= \text{TECCBZZ} - \text{LOCCBZZ} \\ \text{TNCCBUS} &= \text{TECCBUS} - \text{LOCCBUS} \end{aligned}$
TNICB	Total net energy consumed by the industrial sector excluding the sector's share of electrical system energy losses.	Billion Btu	$\begin{aligned} \text{TNICBZZ} &= \text{TEICBZZ} - \text{LOICBZZ} \\ \text{TNICBUS} &= \text{TEICBUS} - \text{LOICBUS} \end{aligned}$
TNRCB	Total net energy consumed by the residential sector excluding the sector's share of electrical system energy losses.	Billion Btu	$\begin{aligned} \text{TNRCBZZ} &= \text{TERCBZZ} - \text{LORCBZZ} \\ \text{TNRCBUS} &= \text{TERCBUS} - \text{LORCBUS} \end{aligned}$
TNTXB	Total primary energy and electricity consumed by the end-use sectors.	Billion Btu	$\begin{aligned} \text{TNTXBZZ} &= \text{TNACBZZ} + \text{TNCCBZZ} + \text{TNICBZZ} + \\ &\quad \text{TNRCBZZ} \\ \text{TNTXBUS} &= \Sigma \text{TNTXBZZ} \end{aligned}$

APPENDIX

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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.	Billion Btu	USICBZZ = USTCBZZ USICBUS = USTCBUS
USICP	Unfractionated streams consumed by the industrial sector.	Thousand barrels	USICPZZ = USTCPZZ USICPUS = USTCPUS
USTCB	Unfractionated streams total consumed.	Billion Btu	USTCBZZ = USTCPZZ * 5.418 USTCBUS = ΣUSTCBZZ
USTCP	Unfractionated streams total consumed.	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.
WDEIB	Wood consumed by the electric power sector.	Billion Btu	WDEIBZZ is independent. WDEIBUS = ΣWDEIBZZ
WDI3B	Wood consumed by CHP and electricity-only facilities in the industrial sector.	Billion Btu	WDI3BZZ is independent. WDI3BUS = ΣWDI3BZZ
WDI4B	Wood energy consumed for other uses in the industrial sector.	Billion Btu	WDI4BZZ is independent. WDI4BUS = ΣWDI4BZZ

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
WWI4B	Wood and waste consumed in manufacturing processes in the industrial sector.	Billion Btu	WWI4BZZ = WDI4BZZ + WSI4BZZ WWI4BUS = $\Sigma$ WWI4BZZ
WWICB	Wood and waste consumed in the industrial sector, total.	Billion Btu	WWICBZZ = WDICBZZ + WSICBZZ WWICBUS = $\Sigma$ WWICBZZ

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WWTCB	Wood and waste total consumed.	Billion Btu	WWTCBZZ = WDTCBZZ + WSTCBZZ WWTCBUS = ΣWWTCBZZ
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
WWTXB	Wood and waste total end-use consumption.	Billion Btu	WWTXBZZ = WDRCBZZ + WDCCBZZ + WDICBZZ + WSCCBZZ + WSICBZZ WWTXBUS = ΣWWTXBZZ
WXTCP	Waxes total consumed.	Thousand barrels	WXTCPZZ = (CGVAVZZ / CGVAVUS) * WXTCPUS WXTCPUS is independent.
WYEGB	Electricity produced from wind energy at electric power sector.	Billion Btu	WYEGBZZ = WYEGPZZ * FFETKUS WYEGBUS = ΣWYEGBZZ
WYEGP	Electricity produced from wind energy at electric power sector.	Million kilowatthours	WYEGPZZ is independent. WYEGPUS = ΣWYEGPZZ
WYTCB	Electricity produced from wind energy total produced.	Billion Btu	WYTCBZZ = WYEGBZZ WYTCBUS = ΣWYTCBZZ