State Energy Data System CSV File Documentation

Energy Source Tables

This document explains the contents of the comma-separated value (CSV) files by energy source located on the State Energy Data System (SEDS) Update web page at http://www.eia.gov/state/seds/seds-data-fuel.cfm.

There is a CSV file for the most recent year's data for each energy source as shown in the HTML and PDF data tables. In some cases there is one data file for two tables. The first record in each file contains the column headings. The first data field is the state code (2 characters), followed by the data identifier (5-character mnemonic code, or MSN), and then the estimates for the latest year. Detailed descriptions of the state codes, data identifiers, and units are listed in the latter part of this documentation.

In addition, a set of cross-tabulation CSV files and a consolidated data file that incorporates the latest estimates and revisions is also posted on the SEDS Update page. The first data field, "data_status," identifies the year of the data cycle plus a "P" for "in progress." They are updated every time a new set of SEDS estimates is released.

Consumption estimates contained in these CSV files are rounded to whole numbers, i.e. physical unit consumption is rounded to thousand short tons, million cubic feet, thousand barrels, etc., and Btu consumption is rounded to billion Btu. Price estimates are rounded to two decimal places and expenditure estimates to one decimal place. The precision does not necessarily reflect the statistical accuracy of the numbers. Users should see the sources cited in the SEDS Consumption Technical Notes as well as the SEDS Price and Expenditure Technical Notes for a discussion of estimation methodologies for specific data series.

The data files contain additional data series not shown in the report tables that have frequently been requested by customers. These additional data include the individual "Other Petroleum Products" used in the industrial sector, the breakout of natural gas used as lease and plant fuel, and the breakout of types of jet fuel in the transportation sector.

The Technical Notes and a full set of SEDS codes and descriptions are available at: http://www.eia.gov/state/seds/seds-technical-notes-updates.cfm.

The two-letter U.S. state codes are as follows:

U.S. Postal State Codes							
Code	**Name**	**Code**	**Name**	**Code**	**Name**	**Code**	**Name**
AK	Alaska	ID	Idaho	MT	Montana	RI	Rhode
AL	Alabama	IL	Illinois	NE	Nebraska	SC	South Carolina
AR	Arkansas	IN	Indiana	NC	North Carolina	SD	South Dakota
AZ	Arizona	KS	Kansas	ND	North Dakota	TN	Tennessee
CA	California	KY	Kentucky	NH	New Hampshire	TX	Texas
CO	Colorado	LA	Louisiana	NJ	New Jersey	UT	Utah
CT	Connecticut	MA	Massachusetts	NM	New Mexico	VA	Virginia
DC	District of Columbia	MD	Maryland	NV	Nevada	VT	Vermont
DE	Delaware	ME	Maine	NY	New York	WA	Washington
FL	Florida	MI	Michigan	OH	Ohio	WI	Wisconsin
GA	Georgia	MN	Minnesota	OK	Oklahoma	WV	West Virginia
HI	Hawaii	MO	Missouri	OR	Oregon	WY	Wyoming
IA	Iowa	MS	Mississippi	PA	Pennsylvania	US	United States

The 5-letter data identifier (MSN) is a SEDS variable name defined as follows:

Data Identification Codes (MSN)	
Characters	**Identity**
1 and 2	Represent an energy source
3 and 4	Represent an energy end-use sector or any energy activity
5	Represents a type of data

Energy Source (Characters 1 and 2)			
Code	**Name**	**Code**	**Name**
AR	Asphalt and road oil	LU	Lubricants
AV	Aviation gasoline	NG	Natural gas (including supplemental gaseous fuels)
CC	Coal coke	NU	Nuclear electric power
CL	Coal	MG	Motor gasoline
DF	Distillate fuel oil	PA	All petroleum products
EM	Fuel ethanol, excluding denaturant	PE	Primary energy, equal to TE in the electric power sector
EN	Fuel ethanol, including denaturant	PO	Other petroleum products, subtotal
ES	Electricity sales	RF	Residual fuel oil
GE	Geothermal energy	SO	Solar thermal and photovoltaic energy
HY	Hydroelectric power	TE	Total energy
JF	Jet fuel	TN	Total net energy
KS	Kerosene	WD	Wood
LG	Liquefied petroleum gases	WW	Wood and biomass waste
LO	Electrical system energy losses	WY	Wind

Energy End-Use Sectors and Energy Activities (Characters 3 and 4)	
Code	**Name**
AC	Transportation sector
CC	Commercial sector
EI	Electric power sector, fuel consumption
EG	Electric power sector, net generation
ET	Total net generation
EX	Exports
HC	Residential and commercial sectors combined
IC	Industrial sector
IM	Imports
KC	Coke plants (coal consumption only)
LP	Lease and plant fuel (natural gas consumption only)
OC	Industrial sector, other than coke plants (coal consumption only)
PZ	Pipeline fuel (natural gas consumption only)
RC	Residential sector
TC	Total of all sectors
TX	Total end-use
VH	Vehicle fuel (natural gas consumption only)

XC	All sectors, other than coal consumed in coke plants

Types (Character 5)	
Code	**Name**
B	Data in billion British thermal units (Btu)
P	Data in physical units: Petroleum – thousand barrels Natural Gas – million cubic feet Coal – thousand short tons Electricity – million kilowatthours Population – thousand people
D	Price in dollars per million Btu
V	Expenditures in million dollars

State-level factors used to convert data from physical units to Btu:

SEDS Variable Name	Description	Unit
CLACK	Coal consumed by the transportation sector	Million Btu per short ton
CLEIK	Coal consumed by the electric power sector	Million Btu per short ton
CLHCK	Coal consumed by the residential and commercial sector	Million Btu per short ton
CLKCK	Coal consumed at coke plants	Million Btu per short ton
CLOCK	Coal consumed by other industrial users	Million Btu per short ton
NGEIK	Natural gas consumed by the electric power sector	Thousand Btu per cubic foot
NGTCK	Natural gas consumed by all sectors	Thousand Btu per cubic foot
NGTXK	Natural gas consumed by all sectors other than the electric power sector	Thousand Btu per cubic foot

The following section lists the SEDS variables in the order they appear in the Energy Source tables. Each table column contains one variable.

Table F1: Asphalt and Road Oil Consumption, Price, and Expenditure Estimates			
ARTCP	ARTCB	ARTCD	ARTCV

Table F2: Jet Fuel Consumption, Price, and Expenditure Estimates			
JFTCP	JFTCB	JFTCD	JFTCV

Table F3: Motor Gasoline Consumption, Price, and Expenditure Estimates						
MGCCP	MGICP	MGACP	MGTCP	MGCCB	MGICB	MGACB
MGTCB	MGTCD	MGCCV	MGICV	MGACV	MGTCV	

Table F4: Fuel Ethanol Consumption Estimates			
ENACP	ENCCP	ENICP	ENTCP
EMACB	EMCCB	EMICB	EMTCB

Table F5: Aviation Gasoline Consumption, Price, and Expenditure Estimates			
AVTCP	AVTCB	AVTCD	AVTCV

Table F6: Lubricants Consumption, Price, and Expenditure Estimates				
LUICP	LUACP	LUTCP	LUICB	LUACB
LUTCB	LUTCD	LUICV	LUACV	LUTCV

Table F7: Distillate Fuel Oil Consumption Estimates					
DFRCP	DFCCP	DFICP	DFACP	DFEIP	DFTCP
DFRCB	DFCCB	DFICB	DFACB	DFEIB	DFTCB

Table F8: Distillate Fuel Oil Price and Expenditure Estimates					
DFRCD	DFCCD	DFICD	DFACD	DFEID	DFTCD
DFRCV	DFCCV	DFICV	DFACV	DFEIV	DFTCV

Table F9: Residual Fuel Oil Consumption Estimates				
RFCCP	RFICP	RFACP	RFEIP	RFTCP
RFCCB	RFICB	RFACB	RFEIB	RFTCB

Table F10: Residual Fuel Oil Price and Expenditure Estimates				
RFCCD	RFICD	RFACD	RFEID	RFTCD
RFCCV	RFICV	RFACV	RFEIV	RFTCV

Table F11: Kerosene Consumption, Price, and Expenditure Estimates							
KSRCP	KSCCP	KSICP	KSTCP	KSRCB	KSCCB	KSICB	KSTCB
KSRCD or KSCCD		KSICD	KSTCD	KSRCV	KSCCV	KSICV	KSTCV

Table F12: Liquefied Petroleum Gases Consumption Estimates				
LGRCP	LGCCP	LGICP	LGACP	LGTCP
LGRCB	LGCCB	LGICB	LGACB	LGTCB

Table F13: Liquefied Petroleum Gases Price and Expenditure Estimates				
LGRCD	LGCCD	LGICD	LGACD	LGTCD
LGRCV	LGCCV	LGICV	LGACV	LGTCV

Table F14: Other Petroleum Products Consumption, Price, and Expenditure Estimates			
POTCP	POTCB	POTCD	POTCV

Table F15: Total Petroleum Consumption Estimates					
PARCP	PACCP	PAICP	PAACP	PAEIP	PATCP
PARCB	PACCB	PAICB	PAACB	PAEIB	PATCB

Table F16: Total Petroleum Price and Expenditure Estimates					
PARCD	PACCD	PAICD	PAACD	PAEID	PATCD
PARCV	PACCV	PAICV	PAACV	PAEIV	PATCV

Table F17: Coal Consumption Estimates and Imports and Exports of Coal Coke, 2010						
CLRCP	CLCCP	CLICP	CLEIP	CLTCP	CCIMPUS	CCEXPUS
CLRCB	CLCCB	CLICB	CLEIB	CLTCB	CCIMBUS	CCEXBUS

Table F18: Coal Price and Expenditure Estimates and Imports and Exports of Coal Coke, 2010						
CLRCD	CLCCD	CLICD	CLEID	CLTCD	CCIMDUS	CCEXDUS
CLRCV	CLCCV	CLICV	CLEIV	CLTCV	CCIMVUS	CCEXVUS

Table F19: Natural Gas Consumption Estimates					
NGRCP	NGCCP	NGICP	NGACP	NGEIP	NGTCP
NGRCB	NGCCB	NGICB	NGACB	NGEIB	NGTCB

Table F20: Natural Gas Price and Expenditure Estimates					
NGRCD	NGCCD	NGICD	NGACD	NGEID	NGTCD
NGRCV	NGCCV	NGICV	NGACV	NGEIV	NGTCV

Table F21: Electricity Consumption Estimates				
ESRCP	ESCCP	ESICP	ESACP	ESTCP
ESRCB	ESCCB	ESICB	ESACB	ESTCB

Table F22: Electricity Price and Expenditure Estimates				
ESRCD	ESCCD	ESICD	ESACD	ESTCD
ESRCV	ESCCV	ESICV	ESACV	ESTCV

Table F23: Nuclear Energy Consumption, Price, and Expenditure Estimates			
NUETP	NUETB	NUETD	NUETV

Table F24: Wood and Biomass Waste Consumption Estimates		
WDRCP	WWCCB	WWEIB
WDRCB	WWICB	WWTCB

Table F25: Wood and Biomass Waste Price and Expenditure Estimates				
WDRCD	WWCCD	WWICD	WWEID	WWTCD
WDRCV	WWCCV	WWICV	WWEIV	WWTCV

Table F26: Geothermal Energy Consumption Estimates					
GEEGP	GERCB	GECCB	GEICB	GEEGB	GETCB

Table F27: Hydroelectric Power Consumption Estimates			
HYCCP	HYICP	HYEGP	HYTCP
HYCCB	HYICB	HYEGB	HYTCB

Table F28: Solar Energy Consumption Estimates					
SOEGP	SOHCB	SOCCB	SOICB	SOEGB	SOTCB

Table F29: Wind Energy Consumption Estimates			
WYCCP	WYICP	WYEGP	WYTCP
WYCCB	WYICB	WYEGB	WYTCB

Table F30: Total Energy Consumption, Price, and Expenditure Estimates				
TERCB	TECCB	TEICB	TEACB	TETCB
TERCD	TECCD	TEICD	TEACD	TETCD
TERCV	TECCV	TEICV	TEACV	TETCV