

# State Energy Data System CSV File Documentation

## Energy Source Tables

*Last Update: 7/17/2009 (CMC)*

These comma-separated value (CSV) files contain data included in the State Energy Data System (SEDS) consumption, price, and expenditure tables (formerly the "State Energy Data Report, Consumption Estimates" and the "State Energy Price and Expenditure Report") located on the SEDS web page at [http://www.eia.doe.gov/emeu/states/seds\\_updates.html](http://www.eia.doe.gov/emeu/states/seds_updates.html).

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. In addition, there are CSV files that contain data for all States and years.

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 characters), and then the data arrayed by years. Estimates for consumption are available as from 1960; estimates for prices and expenditures are available as from 1970. All fields are separated by commas. All fields are enclosed in quotes, which mean some systems will read numeric values as alphanumeric unless they are converted. Detailed descriptions of the State codes, data identifiers, and units are listed in the latter part of this documentation.

While the data shown in the PDF and HTML tables are rounded, the data in these CSV files are in the greatest precision contained in the SEDS database and expressed with five decimal places with explicit decimal points included in the numeric fields. However, 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.

To fully understand and utilize the data files, customers should read the documentation in the Technical Notes available at: [http://www.eia.doe.gov/emeu/states/seds\\_updates\\_tech\\_notes.html](http://www.eia.doe.gov/emeu/states/seds_updates_tech_notes.html).

### **Copies of the reports may be obtained from:**

National Energy Information Center, EI-30  
Energy Information Administration  
Forrestal Building  
Room 1E-238  
Washington, D.C. 20585  
202-586-8800

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 is a SEDS variable name defined as follows:

Data Identification Codes	
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	NG	Natural gas (including supplemental gaseous fuels)
AV	Aviation gasoline	NU	Nuclear electric power
CC	Coal coke	MG	Motor gasoline
CL	Coal	PA	All petroleum products
DF	Distillate fuel oil	PE	Primary energy, equal to TE in the electric power sector
EN	Fuel Ethanol	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 waste
LO	Electrical system energy losses	WY	Wind
LU	Lubricants		

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
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 nominal dollars per million Btu
V	Expenditures in million nominal 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: Motor Gasoline Consumption, Price, and Expenditure Estimates by Sector**

MGCCP	MGICP	MGACP	MGTCP	MGCCB	MGICB	MGACB
MGTCB	MGTCD	MGCCV	MGICV	MGACV	MGTCV	

**Table F2: Jet Fuel Consumption, Price, and Expenditure Estimates by Sector**

JFTCP	JFTCB	JFTCD	JFTCV
-------	-------	-------	-------

**Table F3: Aviation Gasoline Consumption, Price, and Expenditure Estimates by Sector**

AVTCP	AVTCB	AVTCD	AVTCV
-------	-------	-------	-------

**Table F4a: Distillate Fuel Oil Consumption Estimates by Sector**

DFRCP	DFCCP	DFICP	DFACP	DFEIP	DFTCP
DFRCB	DFCCB	DFICB	DFACB	DFEIB	DFTCB

**Table F4b: Distillate Fuel Oil Price and Expenditure Estimates by Sector**

DFRCD	DFCCD	DFICD	DFACD	DFEID	DFTCD
DFRCV	DFCCV	DFICV	DFACV	DFEIV	DFTCV

**Table F5a: Residual Fuel Oil Consumption Estimates by Sector**

RFCCP	RFICP	RFACP	RFEIP	RFTCP
RFCCB	RFICB	RFACB	RFEIB	RFTCB

**Table F5b: Residual Fuel Oil Price and Expenditure Estimates by Sector**

RFCCD	RFICD	RFACD	RFEID	RFTCD
RFCCV	RFICV	RFACV	RFEIV	RFTCV

**Table F6: Kerosene Consumption, Price, and Expenditure Estimates by Sector**

KSRCP	KSCCP	KSICP	KSTCP	KSRCB	KSCCB	KSICB	KSTCB
KSRCD or KSCCD	KSICD	KSTCD	KSRCV	KSCCV	KSICV	KSTCV	

**Table F7a: Liquefied Petroleum Gases Consumption Estimates by Sector**

LGRCP	LGCCP	LGICP	LGACP	LGTCP
LGRCB	LGCCB	LGICB	LGACB	LGTCB

**Table F7b: Liquefied Petroleum Gases Price and Expenditure Estimates by Sector**

LGRC	LGCC	LGIC	LGAC	LGTC
LGRCV	LGCCV	LGICV	LGACV	LGTCV

**Table F8: Lubricants Consumption, Price, and Expenditure Estimates by Sector**

LUICP	LUACP	LUTCP	LUICB	LUACB
LUTCB	LUTCD	LUICV	LUACV	LUTCV

**Table F9: Asphalt and Road Oil Consumption, Price, and Expenditure Estimates by Sector**

ARTCP	ARTCB	ARTCD	ARTCV
-------	-------	-------	-------

**Table F10: Other Petroleum Products Consumption, Price, and Expenditure Estimates by Sector**

POTCP	POTCB	POTCD	POTCV
-------	-------	-------	-------

**Table F11a: Total Petroleum Consumption Estimates by Sector**

PARCP	PACCP	PAICP	PAACP	PAEIP	PATCP
PARCB	PACCB	PAICB	PAACB	PAEIB	PATCB

**Table F11b: Total Petroleum Price and Expenditure Estimates by Sector**

PARCD	PACCD	PAICD	PAACD	PAEID	PATCD
PARCV	PACCV	PAICV	PAACV	PAEIV	PATCV

**Table F12a: Natural Gas Consumption Estimates by Sector**

NGRCP	NGCCP	NGICP	NGACP	NGEIP	NGTCP
NGRCB	NGCCB	NGICB	NGACB	NGEIB	NGTCB

**Table F12b: Natural Gas Price and Expenditure Estimates by Sector**

NGRCD	NGCCD	NGICD	NGACD	NGEID	NGTCD
NGRCV	NGCCV	NGICV	NGACV	NGEIV	NGTCV

**Table F13a: Electricity Consumption Estimates by Sector**

ESRCP	ESCCP	ESICP	ESACP	ESTCP
ESRCB	ESCCB	ESICB	ESACB	ESTCB

**Table F13b: Electricity Price and Expenditure Estimates by Sector**

ESRCD	ESCCD	ESICD	ESACD	ESTCD
ESRCV	ESCCV	ESICV	ESACV	ESTCV

**Table F14a: Coal and Coal Coke Consumption Estimates by Sector**

CLRCP	CLCCP	CLICP	CLEIP	CLTCP	CCIMPUS	CCEXPUS
CLRCB	CLCCB	CLICB	CLEIB	CLTCB	CCIMBUS	CCEXBUS

**Table F14b: Coal and Coal Coke Price and Expenditure Estimates by Sector**

CLRCD	CLCCD	CLICD	CLEID	CLTCD	CCIMDUS	CCEXDUS
CLRCV	CLCCV	CLICV	CLEIV	CLTCV	CCIMVUS	CCEXVUS

**Table F15: Fuel Ethanol Consumption Estimates by Sector**

ENACP	ENCCP	ENICP	ENTCP
ENACB	ENCCB	ENICB	ENTCB

**Table F16a: Wood and Waste Consumption Estimates by Sector**

WDRCP	WWCCB	WWEIB
WDRCB	WWICB	WWTCB

**Table F16b: Wood and Waste Price and Expenditure Estimates by Sector**

WDRCD	WWCCD	WWICD	WWEID	WWTCD
WDRCV	WWCCV	WWICV	WWEIV	WWTCV

**Table F17: Hydroelectric and Geothermal Consumption Estimates by Sector**

HYCCP	HYICP	HYEGP	HYTCP	HYCCB	HYICB	HYEGB
HYTCB	GETCB	GEEGP	GERCB	GECCB	GEICB	GEEGB

<b>Table F18: Solar and Wind Energy Consumption Estimates by Sector</b>							
SOEGP	SOHCB	SOEGB	SOTCB	WNEGP	WYTCP	WYEGB	WYTCB

<b>Table F19: Nuclear Consumption, Price, and Expenditure Estimates by Sector</b>			
NUETP	NUETB	NUETD	NUETV

<b>Table F20: Total Energy Consumption, Price, and Expenditure Estimates by Sector</b>				
TERCB	TECCB	TEICB	TEACB	TETCB
TERCD	TECCD	TEICD	TEACD	TETCD
TERCV	TECCV	TEICV	TEACV	TETCV