#### SEDS data file and table variables

## **Consumption estimates**

The State Energy Data System (SEDS) publishes a complete set of annual state-level energy estimates in PDF and HTML tables on the <u>SEDS complete</u> website. SEDS also provides the data in various Excel, CSV, and zip files, including some variables that are not published in the tables. See the <u>consumption technical notes</u> for the sources and methods used to estimate SEDS energy consumption.

This document lists the SEDS variables (called MSNs) used in each published table and in the data files. See Section 1 of the SEDS technical notes for explanation of the five-character MSN code descriptions and the codes and descriptions file for definitions of the published MSN variables.

There are three Excel, CSV, and zip files that contain estimates for all states and years in cross-tabulation format. Consumption in physical units contains the consumption estimates in physical units and energy indicators, consumption in Btu contains the consumption estimates in billion British thermal units (Btu) and energy indicators, and thermal conversion factors contains all of the varying conversion factors used to convert data between physical units and Btu. In addition, there is a CSV file for each state, named with the two-letter U.S. Postal Code, as well as a file for the United States.

The first row in each file serves as a column heading and contains information about the data in each of the following records. Each data file record that follows begins with the data\_status (5 characters, identifying the year of the data cycle plus an "F" that denotes "final"), followed by the state code (2 characters), the MSN code identifier, and the values for the years 1960 through 2022.

Consumption estimates contained in these Excel, CSV, and zip files are generally rounded to whole numbers. Conversion factors and ratios are usually rounded to a few decimal places. The precision does not necessarily reflect the statistical accuracy of the numbers.

The data files contain additional data series not shown in the report tables that have frequently been requested by customers. For example, the additional data include the individual "Other petroleum products" used in the industrial sector, as shown in Appendix B of this documentation.

In addition to the cross-tabulation CSV files, there is a large consolidated data file containing over 2.0 million records of the complete set of SEDS energy production, consumption, prices, expenditures, and indicators. Users can download the <u>zip file</u> or the <u>CSV file</u> for further processing.

The following appendices show the specific data series shown in the SEDS tables and the individual petroleum products included in "Other petroleum."

	List of appendices						
A List of MSN codes shown in tables							
<u>B</u>	Other petroleum						

#### **Contacts:**

The State Energy Data System tables were prepared by the Integrated Statistics Team of the Office of Energy Demand & Integrated Statistics, U.S. Energy Information Administration. Questions concerning the contents of the State Energy Data System or these files may be referred to Mickey Francis, (202) 586-0525, or <a href="mailto:eiainfoUSstates@eia.gov">eiainfoUSstates@eia.gov</a>.

## Appendix A

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

#### **Summary tables:**

Table C1 Energy consumption overview: estimates by energy source and end-use sector							
TETCB	CLTCB	NNTCB	PMTCB	FFTCB	NUETB	RETCB	
ELISB	ELNIB	TERCB	TECCB	TEICB	TEACB		

Table C2 Energy consumption estimates for selected energy sources in physical units							
CLTCP	NGTCP	DFTCP	HLTCP	JFTCP	MGTCP	RFTCP	
P1TCP	PATCP	NUETP	НҮТСР	WYTCP	ENTCP	BDTCP	

Table C3 Primary energy consumption estimates							
CLTCB	CLTCB NNTCB DMTCB HLTCB JFTCB MMTCB RFTCB						
P1TCB	PMTCB	FFTCB	NGTCB	DFTCB	MGTCB		

Table C3 Primary energy consumption estimates (continued)							
NUETB	NUETB HYTCB WWTCB EMTCB BDTCB B1TCB BFLCB						ВМТСВ
GETCB	SOTCB	WYTCB	RETCB	ELISB	ELNIB	TETCB	

Table C4 Total end-use sector energy consumption estimates								
CLTXB	NGTXB	DFTXB	HLTXB	JFTXB	MGTXB	RFTXB	P1TXB	PATXB
HYTXB	WWTXB	BFLCB	GETXB	SOTXB	ESTXB	TNTCB	LOTXB	TETXB

Table C5 Residential sector energy consumption estimates							
CLRCB	CLRCB NGRCB DFRCB HLRCB KSRCB PARCB WDRCB						
GERCB SORCB ESRCB TNRCB LORCB TERCB							

Table C6 Co	Table C6 Commercial sector energy consumption estimates								
CLCCB NGCCB DFCCB HLCCB KSCCB MGCCB RFCCB PACCB									
HYCCB WWCCB GECCB SOCCB ESCCB TNCCB LOCCB TECCB									

Table C7 Industrial sector energy consumption estimates								
CLICB	NGICB	DFICB	HLICB	MGICB	RFICB	P1ICB	PAICB	HYICB
WWICB	BFLCB	GEICB	SOICB	ESICB	TNICB	LOICB	TEICB	

Table C8 Transportation sector energy consumption estimates							
CLACB	NGACB	AVACB	DFACB	HLACB	JFACB	LUACB	
MGACB	RFACB	PAACB	ESACB	TNACB	LOACB	TEACB	

Table C9 Electric power sector energy consumption estimates							
CLEIB	NGEIB	DKEIB	PCEIB	RFEIB	PAEIB	NUEGB	
HYEGB	WWEIB	GEEGB	SOEGB	WYEGB	ELNIB	TEEIB	

# Ranking tables:

Table C10 Total energy consumption estimates, real gross domestic product (GDP), energy consumption estimates per real dollar of GDP						
TETCB GDPRX TETGR						

Table C11 Total	energy consump	tion estimates by	end-use sector	
TERCB	TECCB	TEICB	TEACB	ТЕТСВ

Table C12 Prim	ary energy consu	mption estimates	s by source	
CLTCB	NNTCB	PMTCB	NUEGB	RETCB

Table C13 R	Renewable ener	gy consumpt	ion esti	mates by	y sou	ırce					
ВМТСВ	GETCB	НҮТС	HYTCB S		СВ		WYTO	СВ			
Table C14 T	otal energy co	nsumption est	timates	per capi	ita b	y end-u	se secto	or	]		
TERPB	ТЕСРВ	TEIPE	3	TEA	.PB		TETP	В			
Table C15 P	etroleum cons	umption estin	nates, t	otal and	per	capita					
PATCP	PATPP	PATCI	В	PATI	PB						
Table C16 N	latural gas con	sumption esti	mates	total and	d nei	r canita					
NGTCP	NGTPP	NGTC		NGT		Сариа					
		l									1
	Electricity sales		ustome	<del></del>		residen			er capit	a	
ESTCP	E	STPP		ESRC	P			ESRPP			]
Time series	tables:										
Table CT1 I	Energy consum	ption estimat	es for s	selected e	energ	gy sour	ces in p	hysical u	nits		
CLTCP	CCNIP*	NGTCP	Г	FTCP		HLTCI	)	JFTCP			
MGTCP	RFTCP	P1TCP	P	ATCP		NUET	P	НҮТСР			
WYTCP	ENTCP	BDTCP									
Table CT2 I	Primary energy	y consumption	n estim	ates							]
CLTCB	CCNIB*	NNTCB	DM7	ТСВ	HL'	ТСВ	JFT	СВ	MMT	СВ	
RFTCB	P1TCB	PMTCB	FFT	СВ	NG	тсв	DF	ГСВ	MGT	СВ	]
Table CT2 I	Primary energy	consumption	n estim	ates (con	tinu	ed)					
NUETB	НҮТСВ	WWTCB	ЕМТ	СВ	BD	OTCB	B17	ССВ	BFLC	B	ВМТСВ
GETCB	SOTCB	WYTCB	RET	RETCB		ISB**	ELì	NIB	TETC	В	<u> </u>
Table CT3 Total end-use sector energy consumption estimates											]
Table CT3 T		1		TVD /D	ш	TX/D/D	IFT	XP/B	MGT	XP/R	1
Table CT3 T	CCNIP/B*	NGTXP/B	DFT	XP/B		TXP/B	31 1	AI/D	WIGT.	AI /D	1
	CCNIP/B* P1TXP/B	NGTXP/B PATXP/B	+	XP/B XP/B	<u>                                       </u>	VTXB	+	LCB	GETX		1

Table CT4 Residential sector energy consumption estimates									
CLRCP/B	NGRCP/B	DFRCP/B	HLRCP/B	KSRCP/B	PARCP/B	WDRCP/B			
GERCB	SORCB	ESRCP/B	TNRCB	LORCB	TERCB				

Table CT5 C	Table CT5 Commercial sector energy consumption estimates							
CLCCP/B	NGCCP/B	DFCCP/B	HLCCP/B	KSCCP/B	MGCCP/B	RFCCP/B	PACCP/B	
HYCCP/B	WWCCB	GECCB	SOCCP/B	ESCCP/B	TNCCB	LOCCB	TECCB	

Table CT6	Table CT6 Industrial sector energy consumption estimates									
CLICP/B	CCNIP/B*	NGICP/B	DFICP/B	HLICP/B	MGICP/B	RFICP/B	P1ICP/B	PAICP/B		
HYICP/B	WWICB	BFLCB	GEICB	SOICP/B	ESICP/B	TNICB	LOICB	TEICB		

Table CT7 T	Table CT7 Transportation sector energy consumption estimates									
CLACP/B	NGACP/B	AVACP/B	DFACP/B	HLACP/B	JFACP/B	LUACP/B				
MGACP/B	RFACP/B	PAACP/B	ESACP/B	TNACB	LOACB	TEACB				

Table CT8 E	Table CT8 Electric power sector energy consumption estimates								
CLEIP/B	NGEIP/B	DKEIP/B	PCEIP/B	RFEIP/B	PAEIP/B	NUEGP/B			
HYEGP/B	WWEIB	GEEGP/B	SOEGP/B	WYEGP/B	ELNIP/B	TEEIB			

<sup>\*</sup>Appears only in U.S. tables
\*\*Appears only in state tables

### Consumption technical notes appendix tables:

Table B1							
DFTCKUS	HLICKUS	HLTCKUS	MGTCKUS	PATCKUS	FFETKUS	NUETKUS	ESTCKUS

Tables B2, B3:	NGEIK	
Tables B4, B5:	NGTXK	
Tables B6, B7:	NGTCK	
Tables B8, B9:	CLHCK	
<b>Tables B10, B11:</b>	CLOCK	
<b>Tables B12, B13:</b>	CLEIK	
<b>Tables B14, B15:</b>	HLICK	
<b>Tables B16, B17:</b>	HLTCK	

## Appendix B

#### Other petroleum

In the total energy, total end-use, and industrial sector tables, "Other petroleum" includes asphalt and road oil, aviation gasoline, kerosene, lubricants, petroleum coke, and "other petroleum products" as described in Section 4 of the consumption technical notes. Data for the detailed products are available in the CSV file.

The following lists the components of "Other petroleum," the fifth character is either "P" for physical units, or "B" for Btu.

Components of P1TCP/B
ARTCP/B
AVTCP/B
KSTCP/B
LUTCP/B
PCTCP/B
OPTCP/B, which includes:
ABICP/B
BXSUP/B
COICP/B
FNICP/B

Components of P1TXP/B
ARTXP/B
AVTXP/B
KSTXP/B
LUTXP/B
PCTXP/B
OPTXP/B, which includes:
ABICP/B
BXSUP/B
COICP/B
FNICP/B
FOICP/B
FSICP/B
MBICP/B
MSICP/B
SGICP/B
SNICP/B
UOICP/B
WXICP/B

Components of P1ICP/B
ARICP/B
KSICP/B
LUICP/B
PCICP/B
OPICP/B, which includes:
ABICP/B
COICP/B
FNICP/B
FOICP/B
FSICP/B
MBICP/B
MSICP/B
SGICP/B
SNICP/B
UOICP/B
WXICP/B